

Building Communication. Controlling Security.



See our NEW IP-Based Solution Intercom
→ **IS Series p.16**



TABLE OF CONTENTS

IP Intercoms

NEW IP-Based Intercom Section!

DOOR/SUB 160	MASTER 160	ROOM 960	IP ADDRESS 32	IS Series IP SECURITY INTERCOM	16
DOOR 1	INSIDE 1	PC 10		JKW-IP IP VIDEO INTERCOM ADAPTOR	28
<small>Max. 20 sets</small>					
STATIONS 32				IS-SOFT VIDEO DOOR STATION TO PC SECURITY.....	30
PC ∞				IPW-1A IP INTERCOM ADAPTOR	31
STATIONS 1280				AN-8000 Series IP NETWORK INTERCOM.....	32

Audio Intercoms

DOOR/SUB 160	MASTER 160	ROOM 960	IP ADDRESS 32	IS Series IP SECURITY INTERCOM	54
STATIONS 11				LEF Series OPEN VOICE SELECTIVE CALL SYSTEMS	56
DOOR 1	INSIDE 5			DB Series HANDS-FREE SINGLE ENTRY SECURITY	61
DOOR 1	INSIDE 4			LEM-1DL & LEM-1DLC ACCESS SENTRY	62
DOOR/SUB 3	INSIDE 1			LEM Audio OPEN VOICE INTERCOM	63
DOOR 1	INSIDE 2			C-123L/A & C-123LW CHIME COM	64
DOOR 1	INSIDE 1			CCS-1A Set CHIME COM2.....	65
WINDOW 1	INSIDE 1			IM Series SECURITY WINDOW SYSTEM SET	66

Multi-Tenant Intercoms

ENTRANCE 5	GUARD 2	TENANT 48		GH Series (Standard) MULTI-TENANT VIDEO ENTRY SECURITY	82
ENTRANCE 16	GUARD 4	TENANT 500		GH Series (Expanded) MULTI-TENANT VIDEO ENTRY SECURITY	84
ENTRANCE 5	GUARD 2	TENANT 100	TENANT 250	GF Series MULTI-TENANT ENTRY SECURITY	86
DOOR 1	TENANT 1			DA-1DS SINGLE TENANT ENTRY SECURITY.....	92
DOOR 1	TENANT 4			DA-4DS MULTI-TENANT ENTRY SECURITY	92
DOOR 1	TENANT 4			DB Series MULTI-TENANT HANDS-FREE ENTRY SECURITY.....	93

Video Intercoms

DOOR/SUB 160	MASTER 160	ROOM 960	IP ADDRESS 32	IS Series IP SECURITY INTERCOM	38
DOOR/SUB 120	INSIDE 8			AX Series INTEGRATABLE AUDIO/VIDEO SECURITY.....	40
DOOR 1	INSIDE 2			JK Series HANDS-FREE VIDEO WITH PAN/TILT & ZOOM.....	42
DOOR 2	INSIDE 3			JF Series HANDS-FREE VIDEO	44
DOOR 2	CCTV 2	INSIDE 3		JA Series HANDS-FREE VIDEO WITH PAN/TILT	46
DOOR 3	INSIDE 5			KB Series VIDEO ENTRY WITH TILT	48
DOOR 1	INSIDE 1			KCS-1ARD VIDEO ENTRY WITH TILT SET	50
DOOR 1	INSIDE 3			KC Series VIDEO ENTRY WITH TILT	51

DOOR 2	INSIDE 6			IE-8 Series CHIME TONE INTERCOM SYSTEM.....	68
MASTER 1	SUB 3			AT-406 Series HANDSET TO HANDSET.....	69
DOOR 2	CHANNELS 25			TD-H Series SELECTIVE CALL INTERCOM	70
DOOR/SUB 3	MASTER 1			MP-S Series MID-POWER INTERCOM.....	72
DOOR/SUB 10	MASTER 2			AP-M Series HIGH-POWER INTERCOM	73
DOOR/SUB 120	INSIDE 2			NEM Series LAMP MEMORY INTERCOM	74
SUB 80	INSIDE 1	DUTY 1		NHX Series NURSE CALL SYSTEM (UL 1069 Listed)	76
STATIONS 60	SPEAKERS ∞			MC Series MARKET COM.....	79

Accessories & Miscellaneous

Market Applications.....	4~13
Accessory Table of Contents	95
Accessories	94~118
Terminology	119
QuikSpec Plus	120
Sales Tools	121
Index.....	122~124
Wire by Stock Number.....	125



IP INTERCOMS

p. 14



Video INTERCOMS

p. 36



Audio Only INTERCOMS

p. 52



Multi-Tenant INTERCOMS

p. 80



Accessories SECTION

p. 94

AIPHONE® at your **SERVICE!**

*We can assist with any system in this catalog**

- LIVE PRODUCT DEMONSTRATIONS
- SYSTEM DESIGN AND APPLICATION ASSISTANCE
- USER TRAINING
- BROCHURES
- ON-SITE VISITS
- SPECIFICATIONS

*Contact the regional sales representative in your area! For a current list, please visit our website at **www.aiphone.com/replist***

*The information in this catalog is subject to change without notice



SECURITY AND COMMUNICATION SOLUTIONS FOR **Commercial Applications**

After Hours

Suggested Systems: IS Series p. 16,
AX Series p. 40, JF Series p. 44



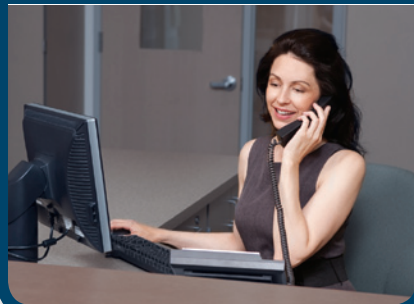
Parking & Garages

Suggested Systems: IS Series p. 16,
AX Series p. 40, JF Series p. 44



Reception Desk

Suggested Systems: IS Series p. 16,
AX Series p. 40, JF Series p. 44



Paging / PA System

Suggested Systems: IS Series p. 16,
AX Series p. 40, AN-8000 Series p. 32



Internal Communication

Suggested Systems: IS Series p. 16,
AX Series p. 40, JF Series p. 44



Secured Entrances

Suggested Systems: IS Series p. 16,
AX Series p. 40, JF Series p. 44



SECURITY AND COMMUNICATION SOLUTIONS FOR **Educational Applications**

Area Monitoring

Suggested Systems: IS Series p. 16,
AX Series p. 40, IE-8 Series p. 68



Bell Schedule

Suggested Systems: IS Series p. 16,
AX Series p. 40, JF Series p. 44



Internal Communication

Suggested Systems: IS Series p. 16,
AX Series p. 40, JF Series p. 44



Announcements

Suggested Systems: IS Series p. 16,
AX Series p. 40, AN-8000 Series p. 32



Multi-Building/Campus

Suggested Systems: IS Series p. 16,
AX Series p. 40, AN-8000 Series p. 32



Secured Entrances

Suggested Systems: IS Series p. 16,
AX Series p. 40, JF Series p. 44



SECURITY AND COMMUNICATION SOLUTIONS FOR **Healthcare Applications**

Emergency Calling

Suggested Systems: IS Series p. 16,
AX Series p. 40, IE-8 Series p. 68



Authorized Areas

Suggested Systems: IS Series p. 16,
AX Series p. 40, JF Series p. 44



Pharmacy

Suggested Systems: IS Series p. 16,
IM Series p. 66, AX Series p. 40



Patient to Staff

Suggested Systems: NHX Series p. 76,
NEM Series p. 74, AX Series p. 40



After Hours

Suggested Systems: IS Series p. 16,
AX Series p. 40, JF Series p. 44



Staff to Staff

Suggested Systems: IS Series p. 16,
NHX Series p. 76, AX Series p. 40



SECURITY AND COMMUNICATION SOLUTIONS FOR **Residential Applications**

Concierge Screening

Suggested Systems:
GH Series p. 82, GF Series p. 86



Multi-Tenant Buildings

Suggested Systems: GH Series p. 82,
GF Series p. 86, DB Series p. 93



Urgent Call

Suggested Systems: GH Series p. 82,
GF Series p. 86, NHX Series p. 76



Single-Family Homes

Suggested Systems: IS Series p. 16,
AX Series p. 40, JF Series p. 44



Room to Room

Suggested Systems: IS Series p. 16,
AX Series p. 40, JF Series p. 44



Visitor Identification

Suggested Systems: IS Series p. 16,
AX Series p. 40, JF Series p. 44



SECURITY AND COMMUNICATION SOLUTIONS FOR **Correctional Applications**

Perimeters

Suggested Systems: IS Series p. 16,
AX Series p. 40, JF Series p. 44



Entrances

Suggested Systems: IS Series p. 16,
AX Series p. 40, JF Series p. 44



Internal Communication

Suggested Systems: IS Series p. 16,
AX Series p. 40, JF Series p. 44



SECURITY AND COMMUNICATION SOLUTIONS FOR **Government Applications**

GSA Schedule

Local

Suggested Systems: IS Series p. 16,
AX Series p. 40, JF Series p. 44



Federal

Suggested Systems: IS Series p. 16,
AX Series p. 40, JF Series p. 44



State

Suggested Systems: IS Series p. 16,
AX Series p. 40, JF Series p. 44



Abroad

Suggested Systems: IS Series p. 16,
AX Series p. 40, JKW-IP p. 28



IP Intercoms





Enterprise level solutions

DOOR/SUB 160	MASTER 160	ROOM 960	IP ADDRESS 32	IS Series IP SECURITY INTERCOM	18
DOOR 1	INSIDE 1	PC 10		JKW-IP IP VIDEO INTERCOM ADAPTOR	28
<small>Max. 20 sets</small>					
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STATIONS 1280				AN-8000 Series IP NETWORK INTERCOM.....	32

For larger or more complex applications, IP intercoms are designed to go where other intercoms cannot. Whether distance is a challenge or interfacing with other security systems is a requirement, an IP intercom is available to meet your needs.

Controlling Security

Offsite Control

The IS Series provides the power to identify or help individuals from another location, whether it is next door, across town, or on the other side of the world.

After Hours

When a building has been locked down for the evening, it does not mean it is unoccupied. Secure the building while still being able to communicate with those who might need access or assistance.

Video Identification

The IS Series video door stations feature a 170° wide angle camera with PanTilt & Zoom control, offering more flexible options for station installation and positioning.

SCHOOLS**SCHOOL
DISTRICT
OFFICES****CAMPUSES****Main Entrances**

Protect staff by giving them the advantage to safely confirm the identity of visitors and vendors before granting access into the building.

**Classrooms**

Broadcast messages throughout the school or to a particular classroom with the choice of either a hands-free or handset reply.

**Offices**

Communicate easily with offices anywhere in the world using standard or PC master stations. Avoid long distance phone charges.

**LARGE
CORPORATIONS**

GOVERNMENT

HOSPITALS

**SMALL
BUSINESSES**

**RETAIL
MALLS**



Reception

Increase staff efficiency by controlling various entrances from a central location. Easily transfer responsibilities to another location or individual.



Delivery Entrances

Identify and communicate with individuals at remote locations to determine if their access into the building is legitimate.



Parking Garages

Assist visitors and monitor multiple garage entrances from remote locations during or after hours.

IS Series ^{NEW}

More than just an Intercom.



Network-Based Communication & Security Control

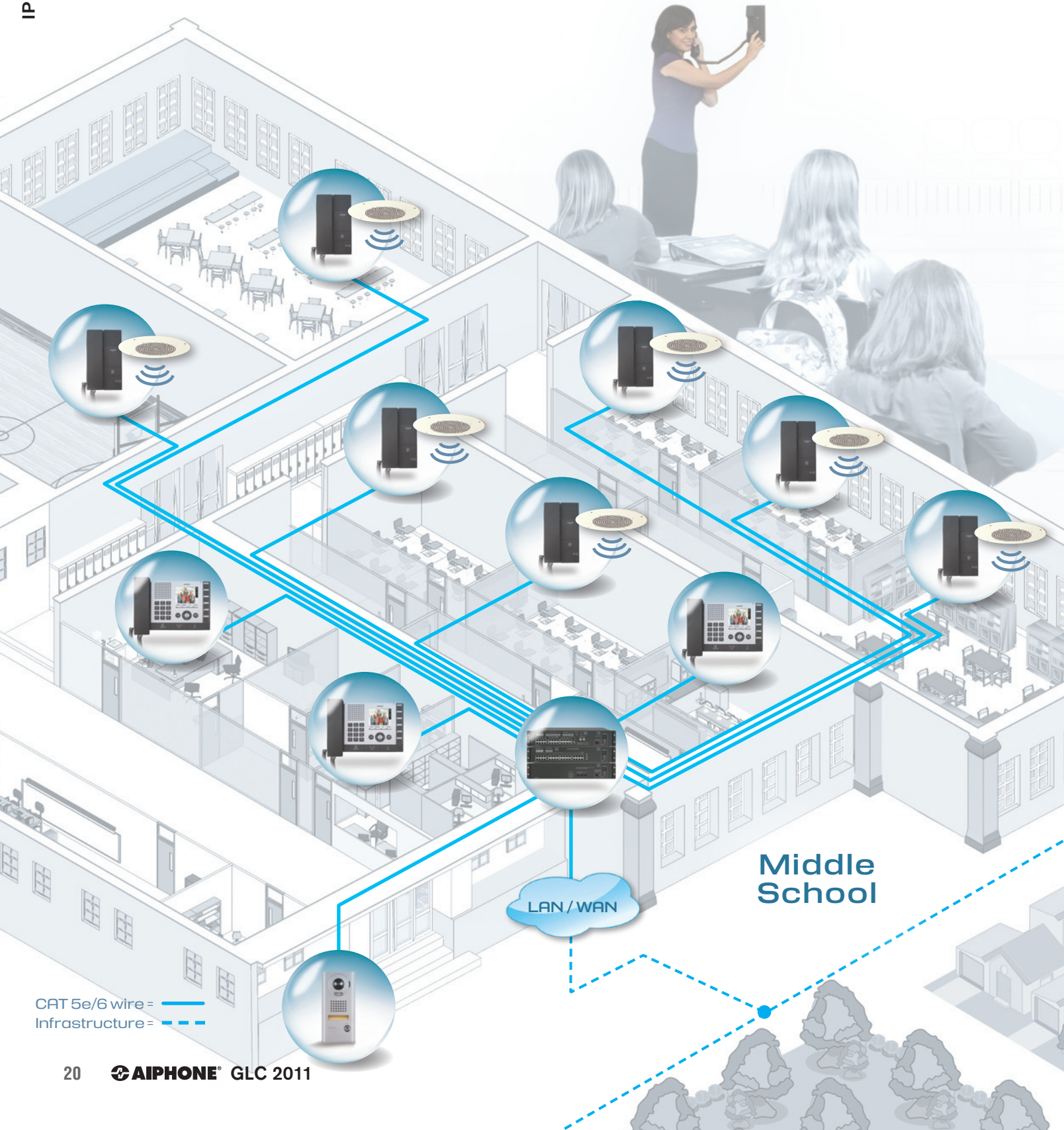
- Unlock doors remotely on a network
- Assist onsite visitors from any offsite phone
- Program daily bulletins & bell schedules
- Broadcast emergency announcements
- Communicate using a PC Master Station



Building Security

School districts, businesses or multi-building facilities can improve efficiency and decrease costs with centralized security and communication.

IP Intercoms



CAT 5e/6 wire = ———
Infrastructure = - - - -

Connect Multiple Schools within a District

● Identify visitors from one school to another

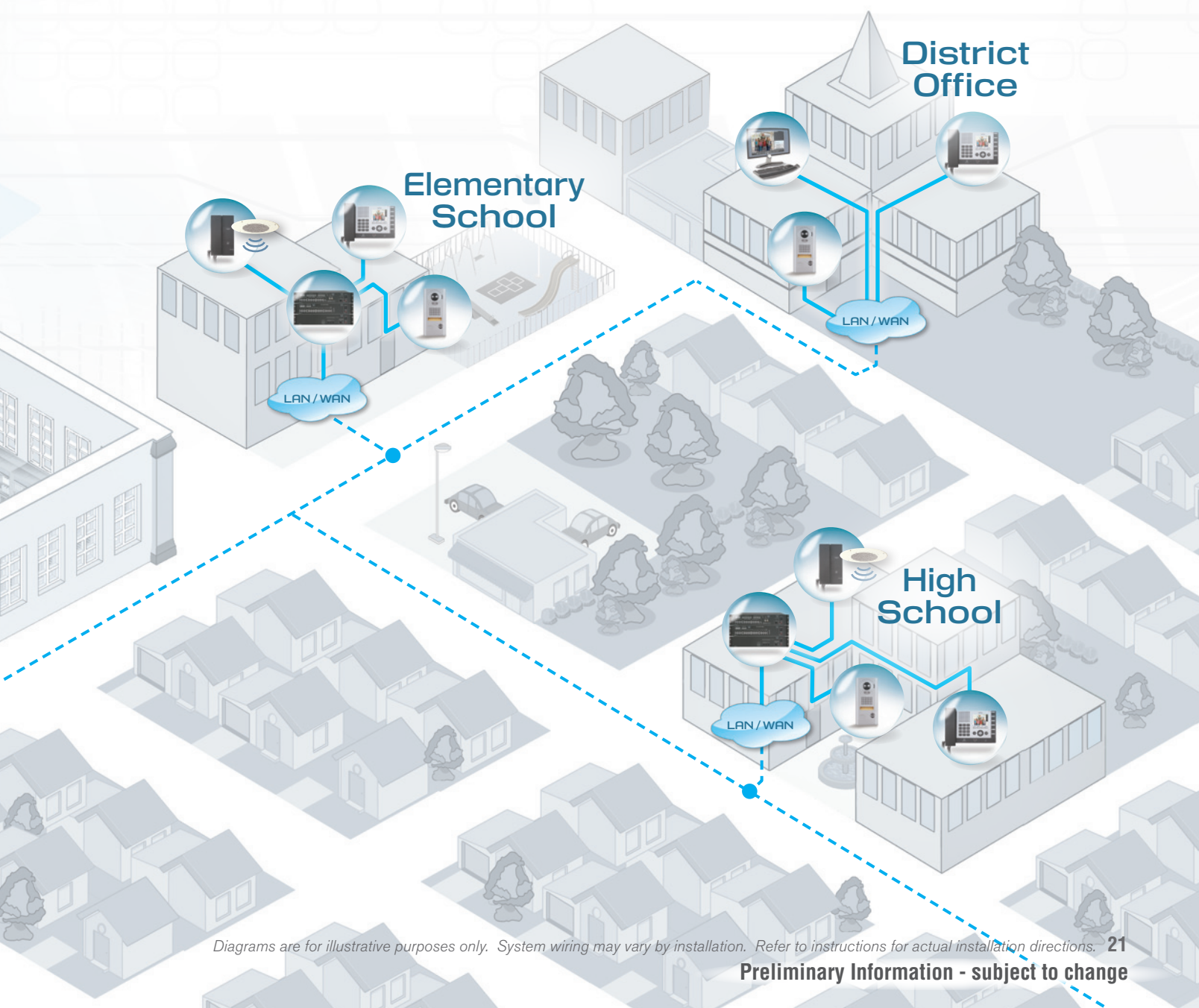
Install video door stations at entrances to maintain security all day on campus. Keep doors locked while safely identifying visitors.

● Announce emergencies from any office on the network

Should a problem arise in the community, schools may be quickly alerted to external threats, even from across town.

● Communicate with classrooms or exterior buildings

A room station and an overhead speaker allow for easy communication between offices and faculty around the school or district.



IS Series - Structured Wire System

IP Video Intercom

NEW

Door/Sub Stations: MIX & MATCH up to 4 TOTAL Stations per IS-CCU

DOOR/SUB
4


IS-RS
Audio only
Room Sub
Station
→ p.27



IS-DV
Wide Angle
Digital PanTilt
and Zoom Video
Door Station,
zinc die cast,
surface mount
→ p.26



IS-DVF
Wide Angle
Digital PanTilt
and Zoom Video
Door Station,
stainless steel,
flush mount
→ p.26



IS-SS
Audio only
Door Station,
stainless steel,
flush mount
→ p.27



SP-2570N
Ceiling speaker,
25/70V, 4W, flush
mount
→ p.114



EL-12S*
Door Strike
→ p.108
*May also be
wired to IS-CCU



PT-1210N
AC Transformer, 12V AC
(Required for EL-12S)

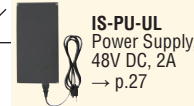
CAT-5e/6 wire
N/A from
Aiphone
(Max. 980')

Central Control Unit



IS-CCU+
Central Control Unit

*NOTE: Maximum 4 Door/Sub Stations and
4 Master Stations per IS-CCU



2 wires
Aiphone
#871802
(Max. 50')

CAT-5e/6 wire x 3
N/A from Aiphone
(Max. 650')

Add-on Control Unit: Max. 2 per IS-CCU



IS-SCU+
Add-on Central Control Unit

†NOTE: Maximum 8 Door/Sub Stations and
8 Master Stations per IS-SCU

2 wires
Aiphone
#871802
(Max. 50')

IS-PU-UL
→ p.27

CAT-5e/6 wire x 2
N/A from Aiphone
(Max. 650')

Room Station Control Unit: Max. 4 per IS-CCU



IS-RCU+
Room Station Control Unit

*NOTE: Maximum 30 Room Stations per IS-RCU

2 wires
Aiphone
#871802
(Max. 50')

IS-PU-UL
→ p.27

Features

NOTE: For features of the IS Series see p.24

Unit Dimensions & Descriptions

NOTE: For unit dimensions and descriptions of the IS Series see p.26 ~ p.27

Specifications

NOTE: For specifications of the IS Series see p.25

Master Station: Up to 4 TOTAL Stations per IS-CCU

MASTER
4

CAT-5e/6 wire /
N/A from
Aiphone
(Max. 980')



Master Station: Up to 8 TOTAL Stations per IS-SCU

MASTER
16

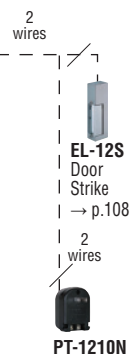
CAT-5e/6 wire /
N/A from
Aiphone
(Max. 980')

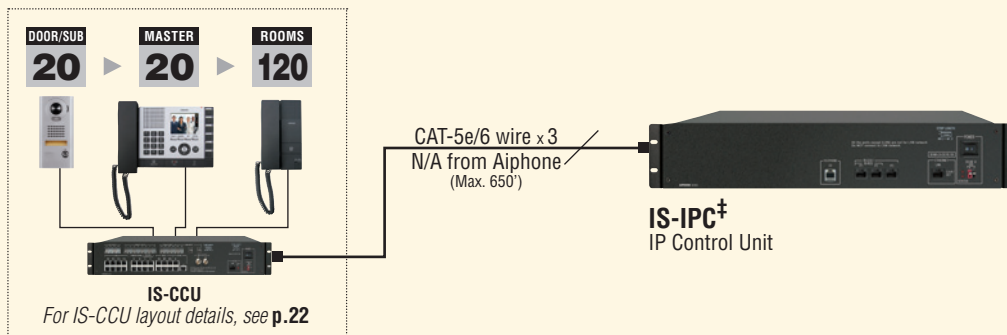


Room Stations: MIX & MATCH up to 30 TOTAL Stations per IS-RCU

ROOM
120

CAT-5e/6 wire /
N/A from
Aiphone
(Max. 980')



IP Control Units: Network up to 8 TOTAL Units†


†**NOTE:** Each IS-IPC uses 1 of the 32 available IP addresses.
Only 8 IS-IPC's allowed per network.
1 IS-IPC per IS-CCU (20 Door/Sub Stations, 20 Master Stations, and 120 Room Stations)

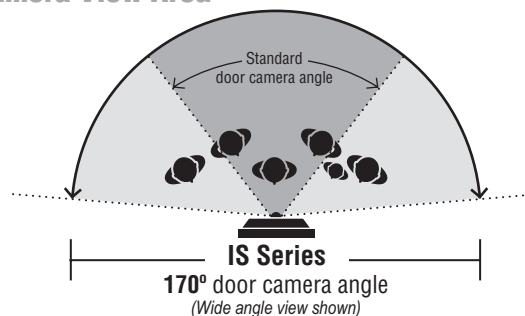
Features

- All-in-one communication system to control video entry, public address, access control, and scheduled bell systems
- Uses new or existing CAT-5e / 6 network infrastructure
- Program system functions via browser
- Basic conversation plus full range of exchange functions: Time based call forwarding, scan monitoring, emergency call, priority call, video audio recording, paging, and scheduled zone paging
- Transfer calls to outside phone lines
- Composite video output from IS-MV/IS-IPMV/IS-CCU/IS-SCU
- IP addressable stations available for easy network communication
- PC master station records audio/video directly to PC or NVR

Wiring

IS Series Wiring Distance	CAT-5e / 6 wire
Door / Sub Station to IS-CCU	980'
Master Station (IS-MV) to IS-CCU	980'
Room Station to IS-RCU	490'
IS-IPDV / IS-IPDV / IS-IPMV / IS-SOFT to network node	330'
IS-SCU to IS-CCU	650'
IS-RCU to IS-CCU	650'
IS-IPC to IS-CCU / IS-RCU	30'
IS-IPC to network node	330'

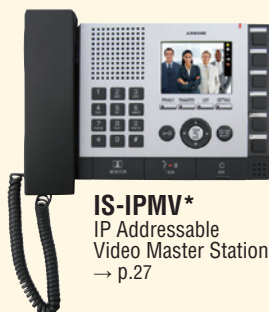
Camera View Area



Unit Dimensions & Descriptions

NOTE: For unit dimensions and descriptions of the IS Series see p.26 ~ p.27

IP Addressable Units: MIX & MATCH up to 31 TOTAL Units†



IS-IPMV*
IP Addressable
Video Master Station
→ p.27



IS-IPDV*
IP Addressable Wide Angle
Digital PanTilt and Zoom Video
Door Station, zinc die cast,
surface mount
→ p.26

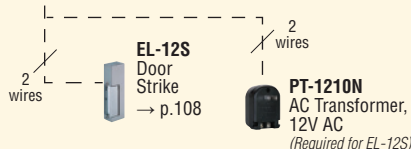


IS-IPDVF*
IP Addressable Wide
Angle Digital PanTilt and
Zoom Video Door Station,
stainless steel, flush mount
→ p.26



IS-SOFT
PC Master Station Software
→ p.27

*One PS-2420UL is required for every one IS-IPDV, IS-IPDVF or IS-IPMV

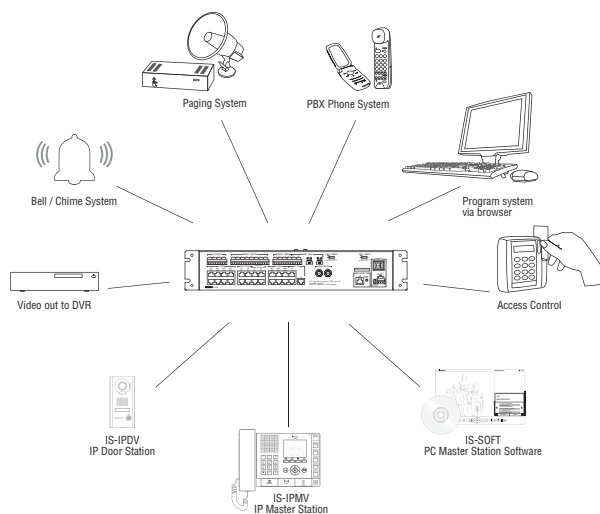


2 wires
Aiphone
#871802
(Max. 33')



OR Power over ethernet
(802.3af)

Communication Network



Specifications

Power Source	IS-CCU/IS-SCU/IS-RCU/IS-IPC: 48V DC - Use IS-PU-UL IS-IPDV/IS-DVF/IS-IPMV: 24V DC - Use PS-2420UL or Power Over Ethernet (802.3af)
Network Interface	10 BASE-T / 100 BASE-TX Ethernet
Hardware Protocols	TCP, UDP, SIP
Bandwidth	320Kbps to 8Mbps
Software	Processor 1GHz or faster, 256MB of RAM, Windows® XP, Windows® Vista (32/64 bit), Windows® 7
Connections	RJ45 (10/100Mbit Ethernet), RS-232 compliant
Calling	Chime, image and audio approx. 45 sec.
Communication	AUTOMATIC (hands-free) - to activate, momentarily push TALK button MANUAL (push-to-talk / release-to-listen) - to activate, push TALK button for at least 1 sec. or until talk LED turns on / a beep sounds
Video Monitor	3-1/2" direct-view TFT color LCD
Min. Illumination	5 Lux at 1' distance
Night Viewing	Up to 1' from camera, with white LED projected
Door Release	Contact rating: 24V AC/DC, 500mA Use RY-24L for larger contact rating
Wiring	CAT 5e / 6
Distance	See "Wiring" on previous page

Exchange Units



IS-CCU
Central Control Unit



IS-SCU
Add-on Control Unit



IS-RCU
Room Sub Control Unit



IS-IPC
IP Control Unit

Central Control Unit – IS-CCU

The IS-CCU allows a connection of four door / sub stations and four master stations. It features inputs for up to two IS-SCU, four IS-RCU, and one IS-IPC to expand the system using CAT-5e/6 cable. The IS-CCU has four public address outputs, eight contact outputs, two video BNC outputs, four contact inputs and two chime inputs each with individual volume control. Requires a PC to set up the system. Set up via browser. The unit can be rack mounted in an EIA standard rack (2U required) or wall mount using brackets. It is powered using an external 48V DC power supply, IS-PU-UL.

Add-on Control Unit – IS-SCU

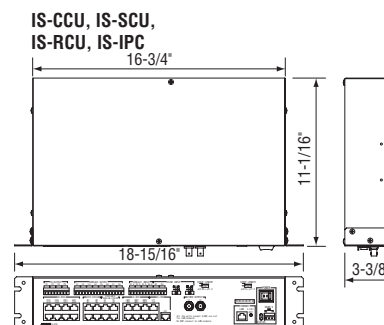
The IS-SCU homeruns to the IS-CCU to add eight door / sub stations and eight master stations to the system. Up to two IS-SCU's may be connected to the IS-CCU using three CAT-5e/6 cables. The unit can be rack mounted in an EIA standard rack (2U required) or wall mount using brackets. It is powered using an external 48V DC power supply, IS-PU-UL.

Room Sub Control Unit – IS-RCU

The IS-RCU homeruns to the IS-CCU to add thirty room stations to the system. Up to four IS-RCU's may be connected to the IS-CCU using two CAT-5e/6 cables. The unit can be rack mounted in an EIA standard rack (2U required) or wall mount using brackets. It is powered using an external 48V DC power supply, IS-PU-UL.

IP Control Unit – IS-IPC

The IS-IPC connects the IS-CCU and all of its wired components to a network. One IS-IPC is required for every IS-CCU and is wired using three CAT-5e/6 cables. Up to eight IS-IPC's may be used in a fully networked system. The unit can be rack mounted in an EIA standard rack (2U required) or wall mount using brackets. It is powered using an external 48V DC power supply, IS-PU-UL. IS-IPC is required for a PBX connection.



Video Door Stations



IS-DV
Wide Angle Digital PanTilt and Zoom Video Door Station, zinc die cast, surface mount



IS-DVF
Wide Angle Digital PanTilt and Zoom Video Door Station, stainless steel, flush mount



IS-IPDV
IP Addressable Wide Angle Digital PanTilt and Zoom Video Door Station, zinc die cast, surface mount



IS-IPDVF
IP Addressable Wide Angle Digital PanTilt and Zoom Video Door Station, stainless steel, flush mount

Video Door Station – IS-DV

The IS-DV is a zinc die cast, surface mount video door station and is both vandal and weather resistant. It connects to the IS-CCU or IS-SCU using CAT-5e/6 cable. There is a programmable dry contact for door release. The IS-DV is powered by the system.

Video Door Station – IS-DVF

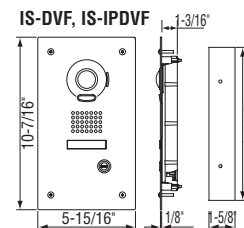
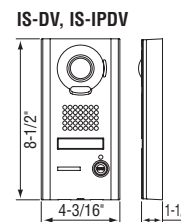
The IS-DVF is a stainless steel, flush mount video door station and is both vandal and weather resistant. It connects to the IS-CCU or IS-SCU using CAT-5e/6 cable. There is a programmable dry contact for door release. The IS-DVF is powered by the system.

Video Door Station – IS-IPDV

The IS-IPDV is an IP addressable zinc die cast, surface mount video door station and is both vandal and weather resistant. It connects directly to a network using CAT-5e/6 cable and can communicate with any master station connected to an IS-IPC, IS-IPMV or any IS-SOFT on a network. There is a programmable dry contact for door release. This station utilizes 802.3af-compliant power-over-ethernet, or an external 24V DC power supply, PS-2420UL.

Video Door Station – IS-IPDVF

The IS-IPDVF is an IP addressable stainless steel, flush mount video door station and is both vandal and weather resistant. It connects directly to a network using CAT-5e / 6 cable and can communicate with any master station connected to an IS-IPC or any IS-SOFT on a network. There is a programmable dry contact for door release. This station utilizes 802.3af-compliant power-over-ethernet, or an external 24V DC power supply, PS-2420UL.



Audio Only Door / Sub Stations



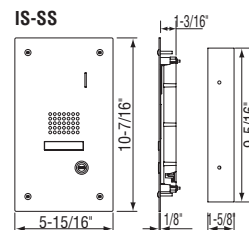
IS-SS
Audio only Door
Station, stainless
steel, flush mount



IS-RS
Audio only
Sub Station

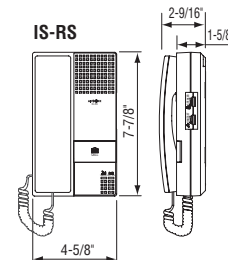
Door / Sub Station – IS-SS

The IS-SS is a stainless steel, flush mount audio only door station and is both vandal and weather resistant. It connects to the IS-CCU, IS-SCU, or IS-RCU using CAT-5e/6 cable. There is a programmable dry contact for door release. The IS-SS is powered by the system.



Room / Sub Station – IS-RS

The IS-RS is a handset style, wall mount, audio only sub station. It connects to the IS-CCU, IS-SCU, or IS-RCU using CAT-5e/6 cable. It can be used with the handset, hands-free with the internal speaker, or can be tied to an external 8Ω speaker. The IS-RS is powered by the system.



Master Stations



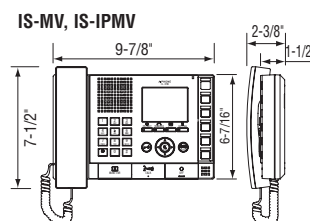
IS-MV
Video Master Station



IS-IPMV
IP Addressable
Video Master Station

Master Station – IS-MV

The IS-MV is a video master station with a 3.5" color LCD monitor. It can be wall or desk mounted (desk stand included). The IS-MV offers handset (duplex) and hands-free (VOX/PTT) communication and can page up to 5 zones simultaneously. It connects to the IS-CCU or IS-SCU using CAT-5e/6 cable and is powered by the system.



Master Station – IS-IPMV

The IS-IPMV is an IP addressable video master station with a 3.5" color LCD monitor. It can be wall or desk mounted (desk stand included). The IS-IPMV offers handset (duplex) and hands-free (VOX/PTT) communication and can page up to 5 zones simultaneously. It connects directly to a network using CAT-5e/6 cable and can communicate with any IS-IPDV / IS-IPDVF / IS-SOFT or any station connected to an IS-IPC on a network. This station utilizes 802.3af-compliant power-over-ethernet, or an external 24V DC power supply, PS-2420UL.

PC Software



IS-SOFT
PC Master
Station Software

Master Station – IS-SOFT

The IS-SOFT is proprietary Aiphone software that can be installed on a PC running Windows® XP, Windows® Vista or Windows® 7. The PC with the installed IS-SOFT software may connect directly to a network allowing for communication with any IS-IPDV / IS-IPDVF / IS-IPMV or any station connected to an IS-IPC on a network.

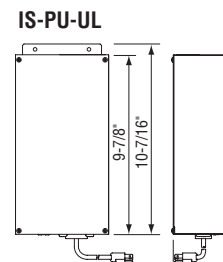
Power Supply



IS-PU-UL
Power Transformer
48V DC, 2A

Power Supply – IS-PU-UL

The IS-PU-UL is a 48V DC, 2A, UL listed power supply. One IS-PU-UL is required for every one IS-CCU, IS-SCU, IS-RCU, or IS-IPC.



DOOR 1 INSIDE 1 PC 10

Max. 20 sets

JKW-IP NEW

IP Video Intercom Adaptor

Door Stations - Select 1 unit

DOOR 1



JK-DA
Wide Angle Digital
PanTilt and Zoom
Video Door Station,
plastic cover,
surface mount
→ p.100



JK-DV
Wide Angle
Digital PanTilt
and Zoom Video
Door Station,
zinc die cast,
surface mount
→ p.100



JK-DVF
Wide Angle Digital
PanTilt and Zoom
Video Door Station,
stainless steel,
flush mount
→ p.100



JK-DVF-HID
Wide Angle Digital
PanTilt and Zoom
Video Door Station
with an embedded
HID® ProxPoint®
Plus Proximity Card
Reader, stainless
steel, flush mount
→ p.100



JK-DVF-XP
Wide Angle Digital
PanTilt and Zoom
Video Door Station
with an embedded
Stand-Alone Card
Reader and host
controller, stainless
steel, flush mount
→ p.100



JK-DVF-AC
Wide Angle Digital
PanTilt and Zoom
Video Door Station
with an embedded
access keypad,
stainless steel,
flush mount
→ p.100

Inside Stations - Select 1 unit

INSIDE 1



JK-1MD
Master Station
with video
monitor



JK-1MED
Master Station with
video monitor and
Picture Memory

2 wires
Aiphone
#871802
(Max. 330'
between door
station and
each JKW-IP)

2 wires
EL-12S
Door
Strike
2 wires

PT-1210N
AC Transformer,
12V AC
(Required for EL-12S)

2 wires
Aiphone
#871802
(Max. 33')

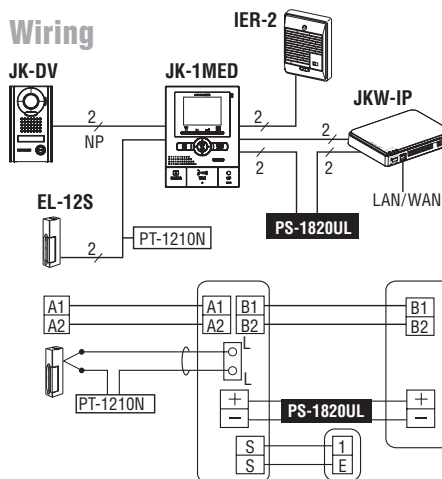
PS-1820UL
Power Supply,
18V DC, 2A
→ p.116

4 wires
Aiphone #871804
(Max. 330' between door
station and each JKW-IP)

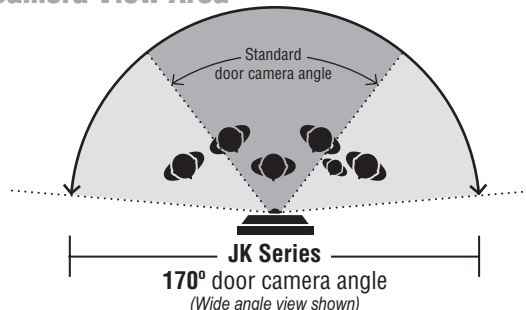
Features

- Up to 20 JK Systems can be controlled by up to 10 PCs
- Photo e-mail alerts when visitors are at the door
- Remote door release from a PC
- Notification e-mail when an alarm is triggered
- Easy install! Free software included!
- Use PC to control door station camera
- 4 inputs to notify PC of events such as fire, alarm, motion detection
- 1 output to control a secondary device like a light, gate or additional door
- Compact, attractive master station design complements most interiors
- Hands-free (VOX) or push-to-talk (PTT) communication
- High resolution color TFT LCD monitor
- Includes single N/O door release contact
- Wide angle camera allows user to view up to 170° of the entire entry
- Camera view features digital PanTilt and zoom
- Entry can be monitored without alerting visitors they are being viewed, even at night
- Camera position and zoom can be set for call-in
- Camera can be manually adjusted to compensate for bright illumination

Wiring



Camera View Area



Network Adaptor* (Required)

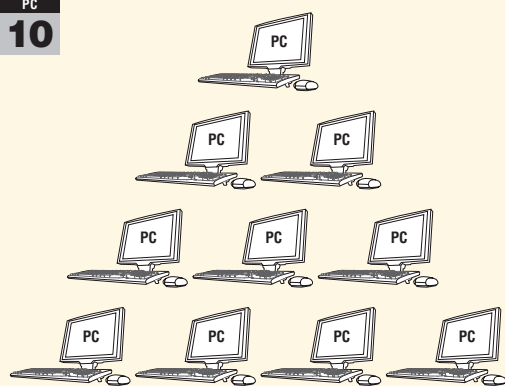


JKW-IP* Network Adaptor (Includes computer software)

*One JKW-IP per Master Station
Up to 20 JKW-IPs may be used per system

LAN/WAN

PC
10



Options & Accessories



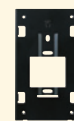
XP-KIT
Includes keypad (XP3P),
programming cards, and
10 blank entry cards (XC4/9)
→ p.109



AC-10S
Access Control
Keypad, die
cast to match
JK-DV
→ p.110



KAW-D
30° Angle
Box for
JK-DA
→ p.107



MKW-P
1-Gang
Mounting
Plate for
JK-DV
→ p.118



KMB-45
Mullion
Mounting
Bracket for
JK-DA
→ p.107



SBX-LSE
Security Lock
Box for JK-DV
and JK-DVF
(Lock not included)
→ p.107



SBX-LSP
Security Lock Box
for JK-DVF-HID
and JK-DVF-XP
→ p.107



SBX-DV30
30° Angle Box
for JK-DV
→ p.107



SBX-DVF
Surface Mount
Box for JK-DVF
→ p.106



SBX-DVF-P
Surface Mount Box
for JK-DVF-HID
and JK-DVF-XP
→ p.106



SBX-ACE
Surface Mount Box for
intercom and access
control device
→ p.105



JKW-BA
Long Distance Door
Station Adaptor
→ p.110



EL-12S
Electric Door Strike,
12V AC/DC, 200mA
(Requires PT-1210N)
→ p.108



RY-ES
External
Signaling
Relay
→ p.110



RY-18L
Form C Door
Release Relay
→ p.109



IER-2
Call
Extension
Speaker
→ p.108



MCW-S/A
Monitor
Desk Stand
→ p.118

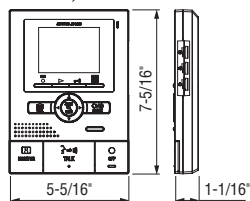
Boxed Sets



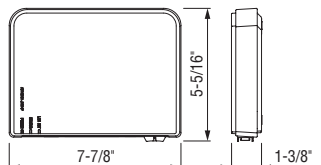
JKS-IPED: JK-1MED, JK-DA, JKW-IP, software, and power supply
JKS-IPEV: JK-1MED, JK-DV, JKW-IP, software, and power supply
JKS-IPEF: JK-1MED, JK-DVF, JKW-IP, software, and power supply

Unit Dimensions

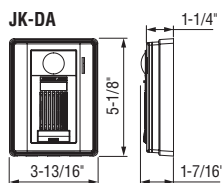
JK-1MD, JK-1MED



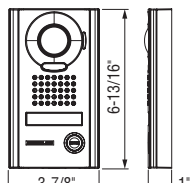
JKW-IP



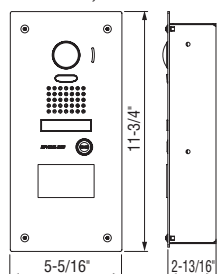
JK-DA



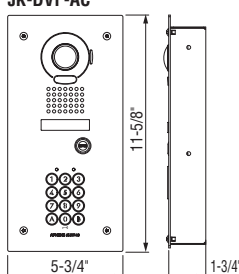
JK-DV



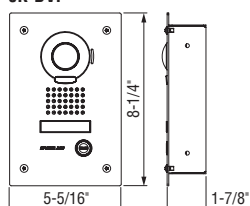
JK-DVF-XP, JK-DVF-HID



JK-DVF-AC



JK-DVF



Specifications

Power Source	18V DC - Use PS-1820UL
Network	Interface: 10 BASE-T / 100 BASE-TX Ethernet Protocol: TCP, UDP, SIP
Bandwidth	320K to 8Mbps (per JKW-IP)
Software	Processor 1GHz or faster, 256MB of RAM, Windows® XP or Windows® Vista (32/64 bit)
Connections	RJ45 (10/100Mbit Ethernet)
Calling	Chime, image and audio approx. 45 sec.
Communication	AUTOMATIC (hands-free) - to activate, push TALK button MANUAL (push-to-talk / release-to-listen) - to activate, push TALK button for at least 1 sec. or until talk LED turns on / a beep sounds
Video Monitor	3-1/2" direct-view TFT color LCD
Min. Illumination	5 Lux at 1' distance
Night Viewing	Up to 1' from camera, with white LED projected
Door Release	Contact rating: 24V AC/DC, 500mA Use RY-18L for larger contact rating
Wiring	Door to master: 2-cond., mid cap, solid, non-shielded Master to JKW-IP: 4-cond., mid cap, solid, non-shielded
Distance	Door to each JKW-IP: 165'(22AWG) 330'(18AWG)
Wire Type	Door to Master: Aiphone #871802 Master to JKW-IP: Aiphone #871804

STATIONS
32**IS-SOFT** **NEW****Video Door Station to PC Security****IP Addressable Door Stations: MIX & MATCH**
up to **32 TOTAL** ComponentsSTATIONS
32**IS-IPDV***

IP Addressable Wide Angle Digital
PanTilt and Zoom Video Door Station,
zinc die cast, surface mount
→ p.26

**IS-IPDVF***

IP Addressable Wide Angle Digital
PanTilt and Zoom Video Door
Station, stainless steel, flush mount
→ p.26

2 wires
Aiphone
#871802
(Max. 33')



PS-2420UL
Power Supply,
24V DC, 2A *or* Power over
ethernet
→ p.116

**One PS-2420UL is required for every IS-IPDV or IS-IPDVF*

PC Master Station: MIX & MATCH
up to **32 TOTAL** ComponentsSTATIONS
32

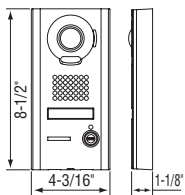
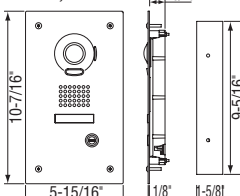
IS-SOFT[‡]
PC Master
Station Software
→ p.27

[‡]**NOTE:** System must include 1 IS-SOFT PC Master Station

LAN/WAN

Features

- IP addressable stations for easy network communication
- All-in-one communication system to control video entry, public address, access control, and scheduled bell systems
- Uses new or existing CAT-5e / 6 network infrastructure
- PC programmable for customizable control (free set-up software included)
- Basic conversation plus full range of exchange functions: Call forwarding, scan monitoring, emergency call, priority call, video audio recording, paging, and scheduled zone paging
- Transfer calls to outside phone lines
- PC master station records audio/video directly to PC or NVR

Unit Dimensions**IS-DV, IS-IPDV****IS-DVF, IS-IPDVF****Specifications**

Power Source	24V DC - Use PS-2420UL or PoE (802.3af)
Network Interface	10 BASE-T / 100 BASE-TX Ethernet
Hardware Protocols	TCP, UDP, SIP
Bandwidth	320Kbps to 8Mbps
Software	Processor 1GHz or faster, 256MB of RAM, Windows® XP, Windows® Vista (32/64 bit), Windows® 7
Connections	RJ45 (10/100Mbit Ethernet), RS-232 compliant
Calling	Chime, image and audio approx. 45 sec.
Communication	AUTOMATIC (hands-free) - to activate, momentarily push TALK button MANUAL (push-to-talk / release-to-listen) - to activate, push TALK button for at least 1 sec. or until talk LED turns on / a beep sounds
Min. Illumination	5 Lux at 1' distance
Night Viewing	Up to 1' from camera, with white LED projected
Door Release	Contact rating: 24V AC/DC, 500mA Use RY-24L for larger contact rating
Wiring	CAT 5e / 6
Distance	Device to network node: 330'

Preliminary Information - subject to change

Door Stations - Select 1 unit



AX-DM
Door Station,
plastic cover,
mullion surface
mount
→ p.96



IF-DA
Door Station,
plastic cover,
surface mount
→ p.102



IE-DC
Door Station,
plastic and
aluminum cover,
surface mount
→ p.102



IE-JA
Door Station,
stainless steel
faceplate,
flush mount
→ p.102



IE-SS
Door Station,
vandal resistant,
stainless steel,
flush mount
→ p.102



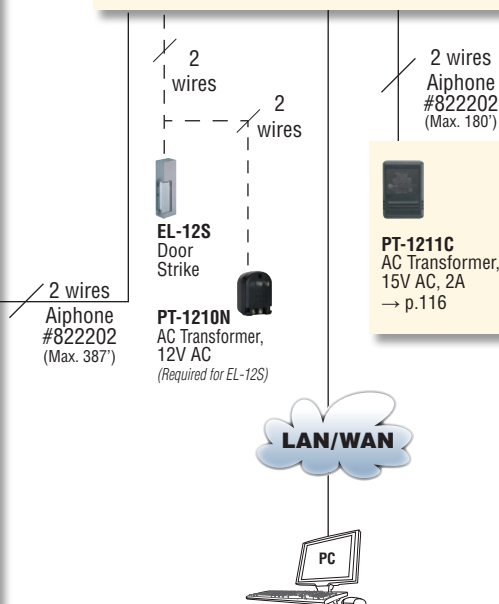
IE-SSR
Door Station,
vandal resistant,
stainless steel, red
mushroom call
button, flush mount
→ p.102

IP Network Adaptor



IPW-1A*
IP Intercom Adaptor.
Includes power supply
and computer software

**One IPW-1A per door station*



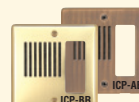
Options & Accessories



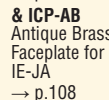
XP-SS
Accessory Station
with an Embedded
Stand-Alone Card
Reader and host
controller
→ p.109



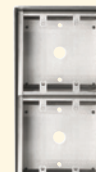
HID-SS
Accessory Station
with an Embedded
HID® Proximity
Card Reader
→ p.109



ICP-BR
Brass Faceplate
for IE-JA
→ p.108



& ICP-AB
Antique Brass
Faceplate for
IE-JA
→ p.108



SBX-2BV
Vertical Mount Box
for HID-SS and IE-JA,
IE-SS, or IE-SSR
(Horizontal mount also
available - **SBX-2BH**)
→ p.105



SBX-2G
Surface Mount Box
for IE-JA, IE-SS, or
IE-SSR
→ p.105



EL-12S
Electric Door Strike,
12V AC/DC, 200mA
(Requires PT-1210N)
→ p.108

Features

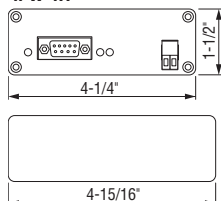
- Allows an IE Series / AX-DM door station to remotely communicate with any amount of PC's within a LAN/WAN network
- Cost-effective multi-PC based communication
- Works with standard wired and wireless TCP/IP networks (LAN/WAN)
- Digital audio recording and playback capability
- Relay output for remote release (N/O or N/C)
- May be used for public announcements and emergency notifications
- PC Software included*

**Recommended: Microsoft Windows® XP(SP2), Windows® Vista, 1GHz or faster processor, 256MB of RAM, 50MB available hard drive, Windows® supported sound card*

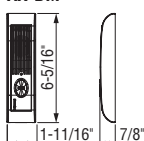
Unit Dimensions

NOTE: For unit dimensions of the IE Series door stations see p.102 ~ p.102

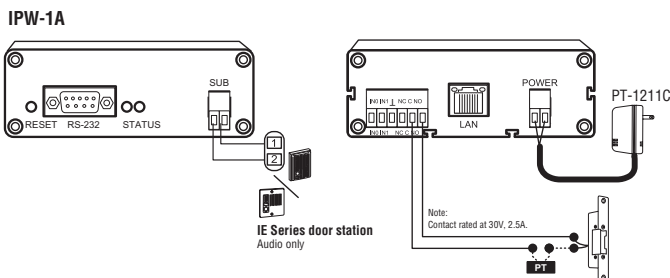
IPW-1A



AX-DM



Wiring



Specifications

Power Source	16-30V DC/15-24V AC - Use Aiphone PT-1211C (included)
Network Interface	10/100 Base-T Ethernet (Auto detection) RJ-45
IP Assignment	Static or Dynamic
Hardware Protocols	TCP, UDP, DHCP, SNMP, AutoIP, SonicIP, Ipzator
Transport Bandwidth	≈128Kbps per active session (normal mode) ≈64Kbps per active session (low bandwidth mode)
Relay Contact Rating	30V DC / 2.5A (resistive)
Operating Temperature	32°F to 104°F (0°C to 40°C)

STATIONS
1280

AN-8000 Series

IP Network Intercom

Door / Master Stations: MIX & MATCH up to 1,280 TOTAL AN Components
STATIONS
1280

AN-8000MS
Master Station with
handset and display
→ p.34



AN-8010MS
Master Station
with handset
→ p.34



AN-8011MS
Hands-free
Master Station
→ p.35



AN-8020MS
Industrial Master
Station with handset
→ p.34



AN-8031MS
Hands-free Master
Station, flush mount
→ p.35



AN-8050DS
Door Station, flush mount
→ p.35

AN-8050DSW
Door Station, weather
resistant, flush mount
→ p.35

**IP Addressable Door/Master Stations:
MIX & MATCH up to 80 TOTAL IP Addressable units**
STATIONS
80

AN-8500MS*
IP Addressable
Master Station with
handset and display
→ p.34



AN-8540DS*
IP Addressable
Door Station,
flush mount
→ p.35

*Each IP station counts as 1 unit toward the 80 capacity total for IP addressable devices



AD-1210P
Power Supply,
12V DC, 1A *OR* Power over
Ethernet
→ p.116

Door / Master Stations: MIX & MATCH up to 1,280 TOTAL AN Components
STATIONS
1280

AN-8000MS
Master Station with
handset and display
→ p.34



AN-8010MS
Master Station
with handset
→ p.34



AN-8011MS
Hands-free
Master Station
→ p.35



AN-8020MS
Industrial Master
Station with handset
→ p.34



AN-8031MS
Hands-free
Master Station,
flush mount
→ p.35



AN-8050DS
Door Station, flush
mount
→ p.35

AN-8050DSW
Door Station,
weather resistant,
flush mount
→ p.35

Features

- Exchanges, masters and subs can be distributed over a data communications network
- Can be connected to an existing local area network (LAN) or wide area network (WAN)
- Dedicated software program for setting up system configuration and features
- System maintenance can be performed with a personal computer and Internet browser
- Each exchange connects 16 units (80 IP devices max.)
- Offers hands-free and handset capabilities
- Superior sound quality utilizing full duplex acoustic echo canceling technology
- Allows the calling party to communicate with the called individual without hesitation or delay
- A variety of intercom stations to meet the specific environment (e.g. office, warehouse, outside, parking garage, etc.)
- 4,921' from station to AN-8000EX on 22AWG

Unit Dimensions & Descriptions

NOTE: For unit dimensions and descriptions of the AN Series see p.34

Exchange Unit - Max. 80 IP Addressable units per system



AN-8000EX
Network Intercom
Exchange Unit
(Max. 16 doors/masters
per exchange unit)
→ p.34

(AC powered)

Options & Accessories



AN-8000MI
Network Intercom
Multi-Interface Unit
→ p.34



RS-191
Handset for use
with AN-8031MS,
wall mount
→ p.35



YC-280
Wall Bracket for
AN-8000MS,
AN-8010MS, and
AN-8020MS
→ p.35



YC-290
Wall Bracket for
AN-8011MS
→ p.35



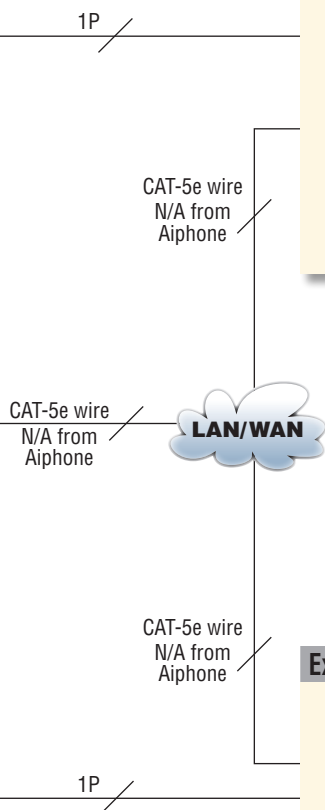
SBX-3G
3-gang Surface
Mount Box for
outdoor surface
mounting
AN-8050DS,
AN-8050DSW,
and AN-8540DS
→ p.106

YS-13A
3-gang Back
Box for indoor
surface mounting
AN-8050DS, and
AN-8540DS
→ p.35

YC-150
3-gang Back Box
for flush mounting
AN-8050DS,
AN-8050DSW, and
AN-8540DS
→ p.35

YC-241
5-gang Back Box
for flush mounting
AN-8031MS
→ p.35

YC-251
5-gang Back Box
for surface mounting
AN-8031MS
→ p.35



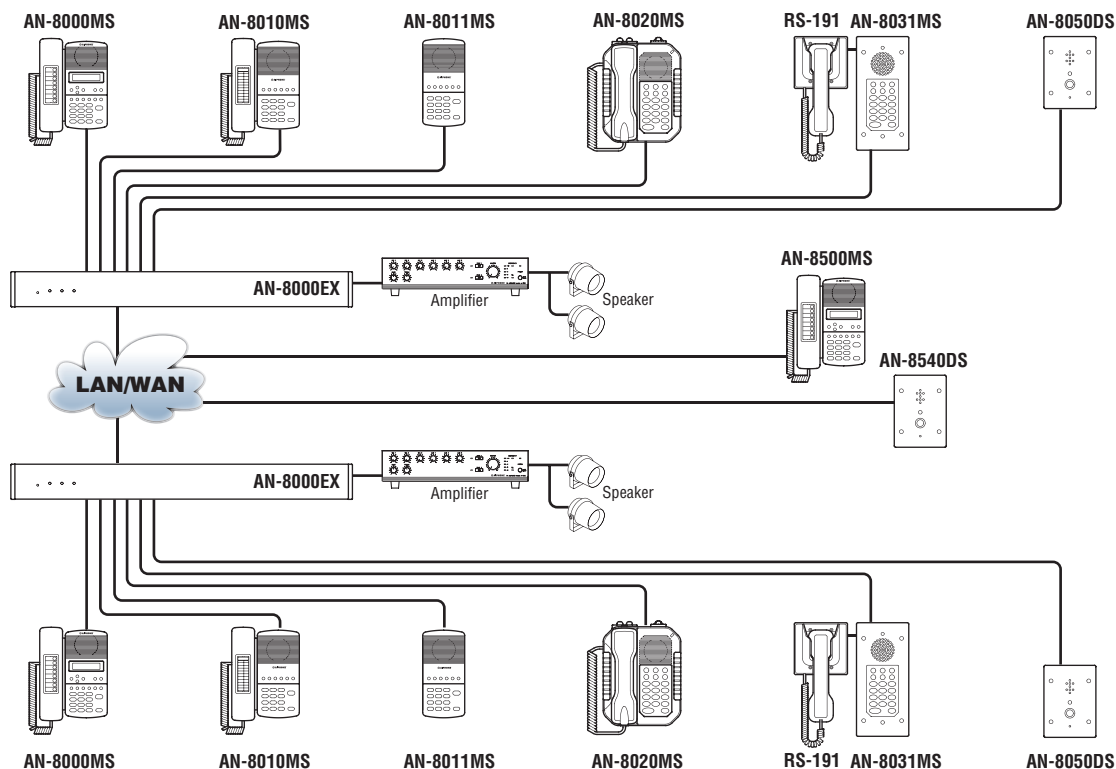
Exchange Unit - Max. 80 IP Addressable units per system



AN-8000EX
Network Intercom
Exchange Unit
(Max. 16 doors/masters
per exchange unit)
→ p.34

(AC powered)

Wiring



Exchange Units



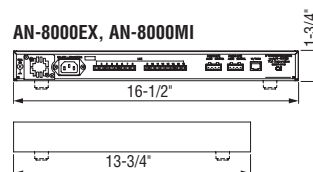
AN-8000EX
Network Intercom
Exchange Unit



AN-8000MI
Network Intercom
Multi-Interface Unit

Exchange Unit – AN-8000EX

The IP Network Intercom Exchange allows a connection of up to sixteen AN-8000 Series stations and features two outputs for public address paging. Simultaneous hands-free conversation is possible between stations. The exchange is equipped with network interface allowing up to 80 total IP devices to be connected over a network. The exchange can be mounted in an EIA standard rack (1U required) or to a wall using the supplied brackets.



Multi-Interface Unit – AN-8000MI

The AN-8000MI is a multi-interface unit designed for use with Aiphone's AN-8000 intercom system. This unit adds centralized input/output contacts (door release, CCTV call-up, external device control, etc.), as well as two audio links (each programmable for use as paging line output, external background music input, or PBX E&M interface). The AN-8000MI can be intermixed with up to 80 total IP devices, IP intercom exchanges, or IP masters and door stations. The unit can be mounted in a standard 19" EIA rack (1U required) or wall mount using the supplied brackets.

Master Stations - Handset Communication



AN-8000MS
Master Station with
handset and display



AN-8500MS
IP Addressable
Master Station with
handset and display



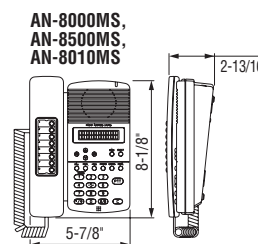
AN-8010MS
Master Station
with handset



AN-8020MS
Industrial Master
Station with handset

Master Station – AN-8000MS

The AN-8000MS is designed to connect to the AN-8000EX and provides hands-free or handset conversation. The AN-8500MS is designed to connect directly to a LAN/WAN. In addition to the features of the standard master station (AN-8010MS), this multi-functional station provides LCD display, auto-dialer (enables one-touch dialing), headset terminal and an external speaker terminal. This station can be desk or wall mounted using the optional YC-280 wall mounting bracket.



IP Addressable Master Station – AN-8500MS

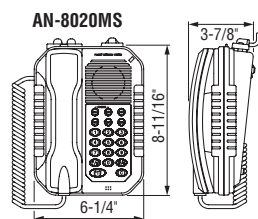
The AN-8500MS connects directly to a LAN/WAN and provides hands-free or handset conversation. In addition to the features of the standard master station (AN-8010MS), this multi-functional station provides LCD display, auto-dialer (enables one-touch dialing), a headset terminal and an external speaker terminal. This station can be desk or wall mounted using the optional YC-280 wall mounting bracket. Also, the AN-8500MS utilizes 802.3af-compliant power-over-ethernet, or external 12V DC, power supply, AD-1210P.

Master Station – AN-8010MS

The AN-8010MS is designed to connect to the AN-8000EX. It provides hands-free or handset conversation. This station can be desk or wall mounted using the optional YC-280 wall mounting bracket.

Master Station – AN-8020MS

The AN-8020MS is designed to connect to the AN-8000EX and provides hands-free or handset conversation. It features dust and water-resistant construction and can be used in locations exposed to ambient temperatures ranging from -10°C to 50°C. In addition to the functions of the standard master station (AN-8010MS), the industrial-use station permits connection of an external speaker and provides an open-collector output for triggering external signalling devices. This station can be desk or wall mounted using the optional YC-280 wall mounting bracket.



Master Stations - Hands-free Communication



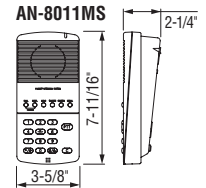
AN-8011MS
Hands-free
Master Station



AN-8031MS
Hands-free
Master Station,
flush mount

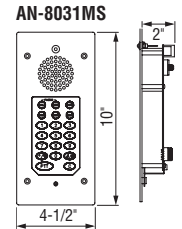
Master Station – AN-8011MS

The AN-8011MS is designed to connect to the AN-8000EX and provides hands-free conversation. With its space-saving design, this station features the same functions as the standard (AN-8010MS). This master station can be desk or wall mounted using the optional YC-290 wall mounting bracket.



Master Station – AN-8031MS

The AN-8031MS is a flush mount master station designed to operate in conjunction with the AN-8000EX and features high quality hands-free conversation. Connecting a foot switch or other external switch to the external dial input terminal permits one-touch dialing operation by way of such switches. Handset conversation can be established in conjunction with the optional AN-RS191 handset device. This master station mounts in a standard 5-gang electrical box (2" min. depth) or mud ring.



Door Stations



AN-8050DS
Door Station,
flush mount

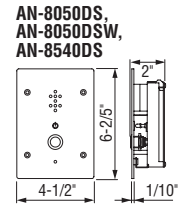


AN-8540DS
IP Addressable
Door Station,
flush mount

AN-8050DSW
Door Station, weather
resistant, flush mount

Door Stations – AN-8050DS, AN-8050DSW, & AN-8540DS

The AN-8050DS, AN-8050DSW, and AN-8540DS are flush mount door stations designed to operate in conjunction with Aiphone's IP Intercom Exchange Unit and features high quality hands-free conversation. The AN-8050DSW is weather resistant for outdoor use. The AN-8540DS is designed to connect directly to a LAN/WAN and utilizes 802.3af-compliant power-over-ethernet, or external 12V DC, power supply, AD-1210P. All three can be used in locations where the ambient temperatures range from -10°C to 50°C. An open-collector output is provided for controlling an electronic lock. These door stations mount in a standard 3-gang electrical box (2" min. depth) or mud ring.



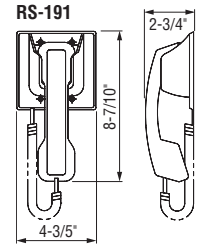
Handset



RS-191
Handset for use
with AN-8031MS,
wall mount

Handset – RS-191

The RS-191 is a handset designed to operate in conjunction with the AN-8031MS. This station provides handset conversation and privacy to a master with high sound quality. The RS-191 mounts in a standard 2-gang electrical box or mud ring.



Wall Brackets & Back Boxes



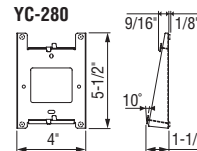
YC-280
Wall Bracket



YC-290
Wall Bracket

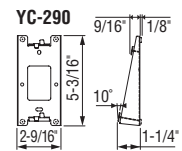
Wall Bracket – YC-280

The YC-280 is a wall bracket designed to mount the AN-8000MS, AN-8010MS, AN-8500MS and AN-8020MS.



Wall Bracket – YC-290

The YC-290 is a wall bracket designed to mount the AN-8011MS.



YS-13A
3-gang Surface
Mount Box

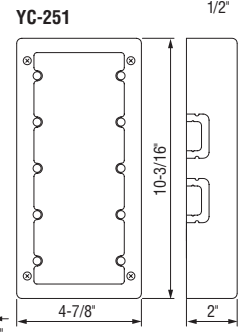
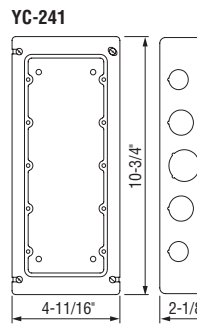
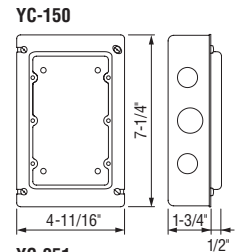
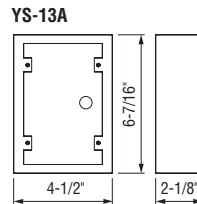
YC-150
3-gang
Back Box

YC-251
5-gang Surface
Mount Box

YC-241
5-gang
Back Box

Surface Mount Boxes – YS-13A & YC-251

The YS-13A is a surface mount box designed to mount the AN-8050DS, AN-8050DSW, and AN-8540DS onto a wall or other flat surface. The YC-251 surface mounts the AN-8031.



Back Boxes – YC-150 & YC-241

The YC-150 is a back box for flush mount installation for the AN-8050DS, AN-8050DSW, and AN-8540DS. The YC-241 is the back box for the AN-8031.



Video Intercoms



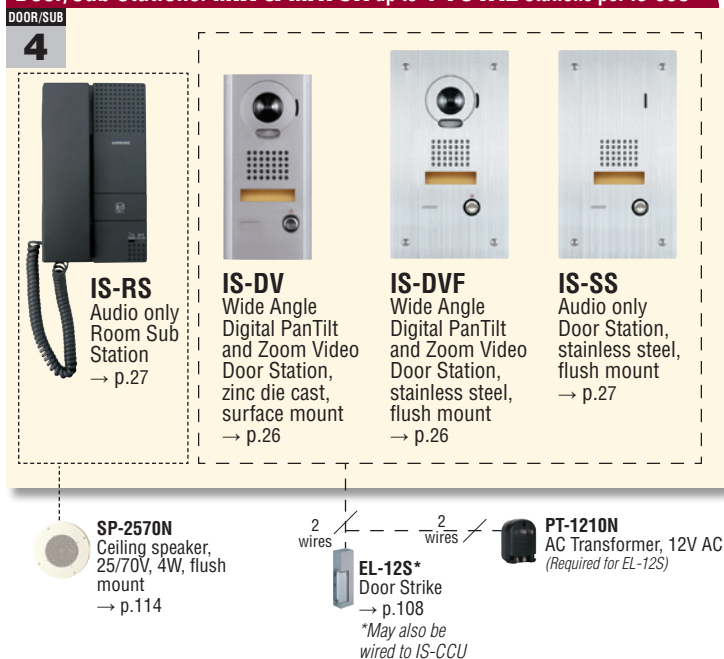


See & hear who's there

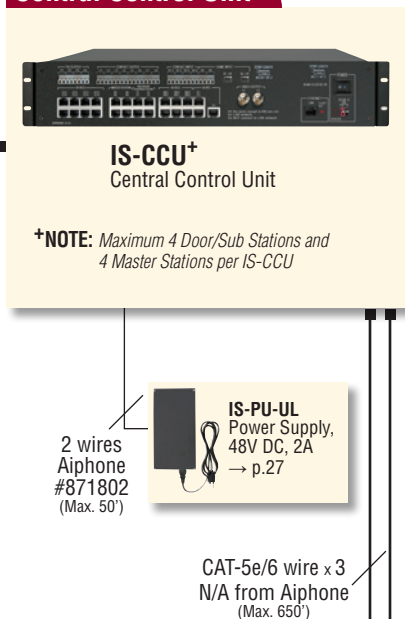
DOOR/SUB 160	MASTER 160	ROOM 960	IP ADDRESS 32	IS Series IP SECURITY INTERCOM.....	38
DOOR/SUB 120	INSIDE 8			AX Series INTEGRATABLE AUDIO/VIDEO SECURITY.....	40
DOOR 1	INSIDE 2			JK Series HANDS-FREE VIDEO WITH PANTILT & ZOOM.....	42
DOOR 2	INSIDE 3			JF Series HANDS-FREE VIDEO	44
DOOR 2	CCTV 2	INSIDE 3		JA Series HANDS-FREE VIDEO WITH PANTILT	46
DOOR 3	INSIDE 5			KB Series VIDEO ENTRY WITH TILT	48
DOOR 1	INSIDE 1			KCS-1ARD VIDEO ENTRY WITH TILT SET	50
DOOR 1	INSIDE 3			KC Series VIDEO ENTRY WITH TILT	51

Since the introduction of the industry's first video intercom, Aiphone has been ahead of the curve in video entry security. Now exclusively color video, Aiphone units provide crystal clear video, crisp audio, and the peace of mind of knowing who's at the door before it's opened.

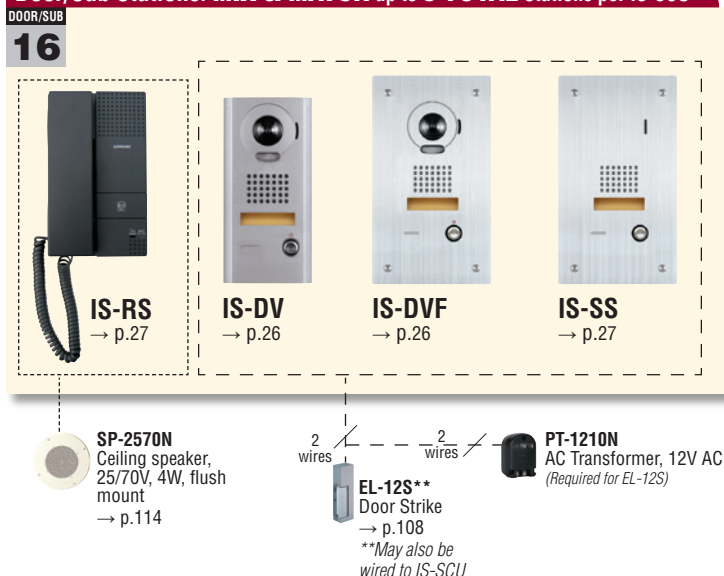
Door/Sub Stations: MIX & MATCH up to 4 TOTAL Stations per IS-CCU



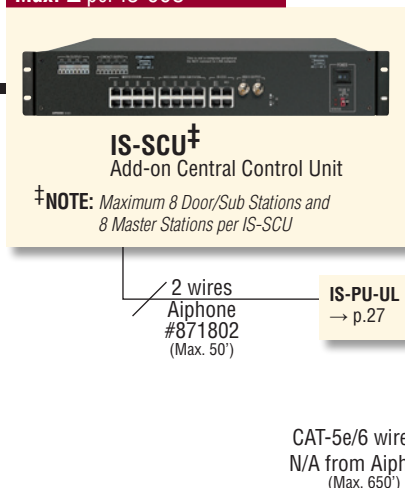
Central Control Unit



Door/Sub Stations: MIX & MATCH up to 8 TOTAL Stations per IS-SCU



Add-on Control Unit:
Max. 2 per IS-CCU



Features

NOTE: For features of the IS Series see p.24

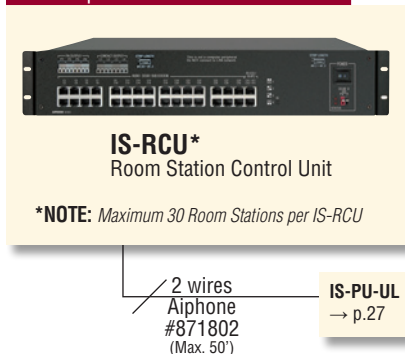
Unit Dimensions & Descriptions

NOTE: For unit dimensions and descriptions of the IS Series see p.26 ~ p.27

Specifications

NOTE: For specifications of the IS Series see p.25

Room Station Control Unit:
Max. 4 per IS-CCU



*To learn how to expand the IS Series over a network, see p.24

Master Station: Up to 4 TOTAL Stations per IS-CCU

MASTER
4

CAT-5e/6 wire /
N/A from
Aiphone
(Max. 980')



Master Station: Up to 8 TOTAL Stations per IS-SCU

MASTER
16

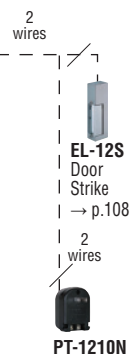
CAT-5e/6 wire /
N/A from
Aiphone
(Max. 980')



Room Stations: MIX & MATCH up to 30 TOTAL Stations per IS-RCU

ROOM
120

CAT-5e/6 wire /
N/A from
Aiphone
(Max. 980')



AX Series

Integratable Audio/Video Security

Door Stations: MIX & MATCH up to 120 TOTAL AX Door/Sub Stations
DOOR/SUB
120 **Audio & Video**

AX-DV
Fixed Video Door Station, aluminum die cast, surface mount
→ p.96



AX-DVF
Fixed Video Door Station, stainless steel, flush mount
→ p.96



AX-DV-P*
Fixed Video Door Station with an embedded HID® ProxPoint® Plus Proximity Card Reader, aluminum die cast, surface mount
→ p.96



AX-DV-XP*
Fixed Video Door Station with an embedded Stand-Alone Card Reader and host controller, aluminum die cast, surface mount
→ p.96



AX-DVF-P*
Fixed Video Door Station with an embedded HID® ProxPoint® Plus Proximity Card Reader, stainless steel, flush mount
→ p.96



AX-DVF-XP*
Fixed Video Door Station with an embedded Stand-Alone Card Reader and host controller, stainless steel, flush mount
→ p.96

Audio Only



AX-DM
Door Station, plastic cover, mullion surface mount
→ p.96



AX-SS
Amplified Door Station, stainless steel, flush mount
→ p.97



IF-DA
Door Station, plastic cover, surface mount
→ p.102



IE-DC
Door Station, plastic and aluminum cover, surface mount
→ p.102



IE-JA
Door Station, stainless steel, flush mount
→ p.102



IE-SS
Door Station, stainless steel, flush mount
→ p.102



IE-SSR
Door Station, stainless steel, red mushroom call button, flush mount
→ p.102



IE-SSV*
Door Station with a built-in CCTV camera, stainless steel, flush mount
(Requires AXW-AZ)
→ p.102

*Additional wiring and/or equipment required

Central Exchange Units (required)



AX-084C
Central Exchange Unit for 8 doors/subs and 4 masters



AX-248C
Central Exchange Unit for 24 doors/subs and 8 masters

CAT-5e wire
N/A from Aiphone
(Max. 980')

CAT-5e wire
N/A from Aiphone
(Max. 16')

2x2 wires
Aiphone
#822202
(Max. 33')

2x2 wires
Aiphone
#822202
(Max. 33')

x2

PS-2420UL
Power Supply
24V DC, 2A
→ p.116

Central Exchange Add-on Unit (optional)



AX-320C
Add-on Exchange Unit for 32 doors/subs

Features

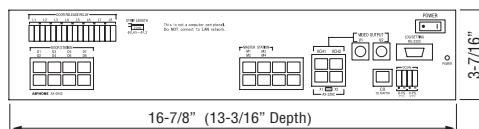
- CAT-5e wiring homerun from each station
- Up to 8 masters and 120 door stations
- Two talk channels
- Hands-free (VOX) or push-to-talk (PTT) communication
- Selective calling between masters, and from masters to door/sub stations
- Masters available with 3.5" color TFT LCD monitor
- Composite video output from CEU and video masters
- Normal or priority call levels
- Data output on CEU provides custom integration capability with CCTV and access control systems*
- PC programmable with a large variety of settings
- All Call or Group Call to master stations only
- Compatible with IE and IF Series door stations
- Transfer calls to an outside phone line (requires Viking Model K-1900-5 programmable dialer)
- Scan monitoring
- Optional Features: Headset, footswitch, call transfer to telephone, and PC remote control*

*Interface requires custom program (not supplied by Aiphone)

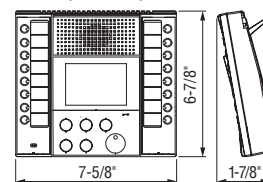
Unit Dimensions

NOTE: For unit dimensions of the IE Series door stations see p.102

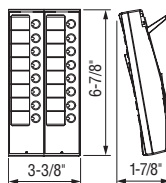
AX-084C, AX-248C, AX-320C



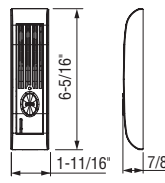
AX-8M, AX-8MV, AX-8MV-W



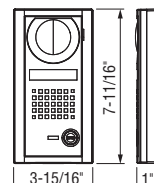
AX-16SW



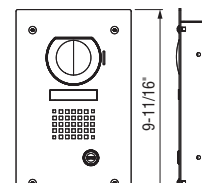
AX-DM



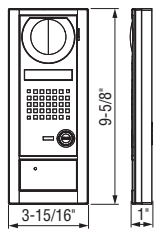
AX-DV



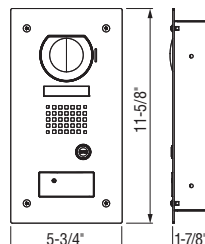
AX-DVF



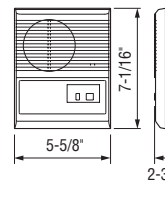
AX-DV-P, AX-DV-XP



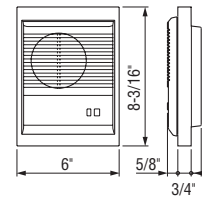
AX-DVF-P, AX-DVF-XP



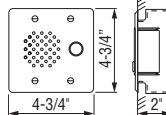
AX-A, AX-AN



AX-B, AX-BN



AX-SS



Inside Stations: Select up to 8 Master Stations

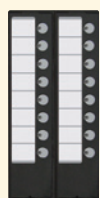
INSIDE
8



AX-8MV
Video Master Station, wall or desk mount



AX-8M
Audio Only Master Station, wall or desk mount



AX-16SW
16-Call Add-on Selector



AX-8MV-W
WHITE Video Master Station, wall or desk mount (Up to max. of 8 door stations and 8 master stations)

Sub Stations: MIX & MATCH Up to 120 TOTAL AX Door/Sub Stations

DOOR/SUB
120



AX-A
Sub Station, surface mount
→ p.97



AX-AN
Privacy Sub Station, surface mount
→ p.97



AX-B
Sub Station, semi-flush mount
→ p.97



AX-BN
Privacy Sub Station, semi-flush mount
→ p.97

CAT-5e wire
N/A from Aiphone
(Max. 980')

CAT-5e wire
N/A from Aiphone
(Max. 980')

Options & Accessories



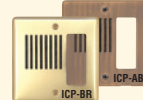
XP-KIT
Includes keypad (XRP3), programming cards, and 10 blank entry cards (XC4/9)
→ p.109



XP-SS
Accessory Station with an embedded Stand-Alone Card Reader with host controller
→ p.109



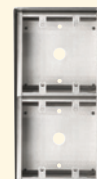
HID-SS
Accessory Station with an embedded HID® Proximity Card Reader
→ p.109



ICP-BR
Brass Faceplate for IE-JA
→ p.108
& ICP-AB
Antique Brass Faceplate for IE-JA
→ p.108



SBX-2G
Surface Mount Box for AX-SS, IE-SS, IE-JA, IE-SSR, and IE-SSV
→ p.105



SBX-2BV
Vertical Mount Box for HID-SS, IE-SS, IE-SSR, and IE-SSV (Horizontal mount also available - SBX-2BH)
→ p.105



SBX-AXDVF
Surface Mount Box for AX-DVF
→ p.106



SBX-AXDV30
30° Angle Box for AX-DV
→ p.107



SBX-DVF-P
Surface Mount Box for AX-DVF-P/XP
→ p.106



SBX-LSP
Security Lock Box for AX-DVF-P/XP (Lock not included)
→ p.107



AXW-AZ
CCTV Camera Input Module
→ p.111



AXW-AVT
Door Station IP or Fiber Optic Transmission Interface Unit
→ p.111



AXW-AVR
Door Station Fiber Optic Reception Interface Unit
→ p.111



EL-12S
Electric Door Strike, 12V AC/DC, 200mA (Requires PT-1210N)
→ p.108



IER-2
Call Extension Speaker
→ p.108



AXW-PA1
Paging Adaptor
→ p.113

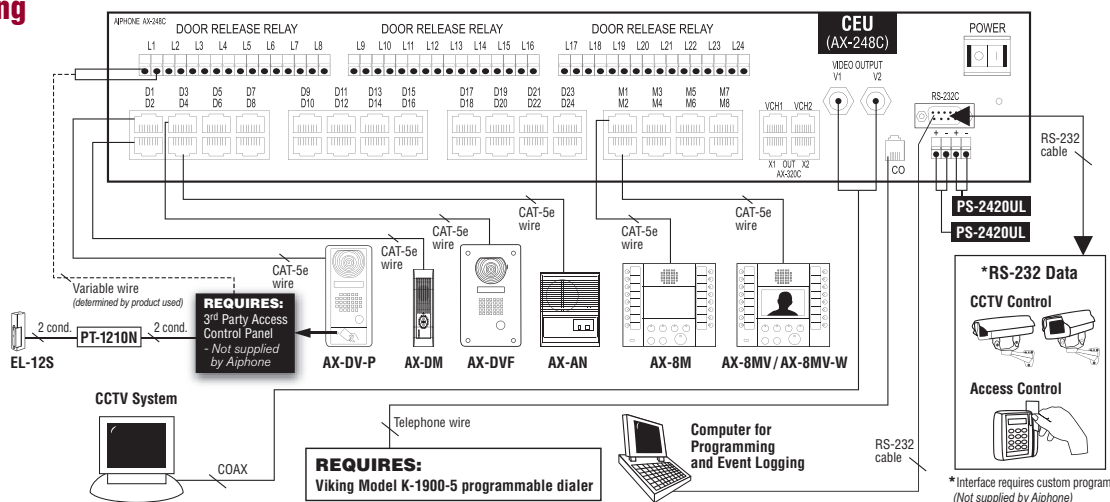


RY-ES
External Signaling Relay
→ p.110



RY-24L
Form C Door Release Relay (1 per door)
→ p.109

Wiring



Specifications

Power source 24V DC - Use two PS-2420UL

Calling Tremolo and LED 10-600 secs. (programmable) or infinite

Communication Push TALK button to reply, communication times out in 30-600 secs. (programmable)

Video Monitor 3-1/2" direct view TFT color LCD

Scanning Line 525 lines

Camera 1/4" color CCD camera - 250,000 pixels

Night Viewing 5 Lux at 1' distance with LED projected

Door Release Programmable N/O or N/C dry contact, 24V AC/DC, 500mA max. Use RY-24L for larger contact rating

Wiring Homerun CAT-5e wire to CEU

Distance Door stations to CEU: 980' CEU to master stations: 980'

Wire type CEU to master stations: CAT-5e
Video Door stations to CEU: CAT-5e IE door stations to CEU: CAT-5e

JK Series

Hands-free Video with PanTilt & Zoom

Door Stations - Select 1 unit

DOOR
1

JK-DA
Wide Angle Digital
PanTilt and Zoom
Video Door Station,
plastic cover,
surface mount
→ p.100



JK-DV
Wide Angle
Digital PanTilt
and Zoom Video
Door Station,
zinc die cast,
surface mount
→ p.100



JK-DVF
Wide Angle Digital
PanTilt and Zoom
Video Door Station,
stainless steel,
flush mount
→ p.100



JK-DVF-HID
Wide Angle Digital
PanTilt and Zoom
Video Door Station
with an embedded
HID® ProxPoint®
Plus Proximity Card
Reader, stainless
steel, flush mount
→ p.100



JK-DVF-XP
Wide Angle Digital
PanTilt and Zoom
Video Door Station
with an embedded
Stand-Alone Card
Reader and host
controller, stainless
steel, flush mount
→ p.100



JK-DVF-AC
Wide Angle Digital
PanTilt and Zoom
Video Door Station
with an embedded
access keypad,
stainless steel,
flush mount
→ p.100

Inside Stations - Select 1 unit

INSIDE
1

JK-1MD
Master Station
with video
monitor



JK-1MED
Master Station with
video monitor and
Picture Memory

2 wires
Aiphone
#871802
(Max. 330')

2 wires
EL-12S
Door
Strike

PT-1210N
AC Transformer,
12V AC
(Required for EL-12S)

2 wires
Aiphone
#871802
(Max. 33')

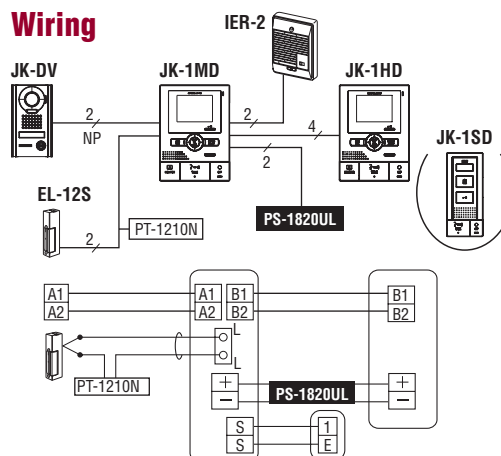
PS-1820UL
Power Supply,
18V DC, 2A
→ p.116

4 wires
Aiphone
#871804
(Max. 330'
between door
station and
farthest sub)

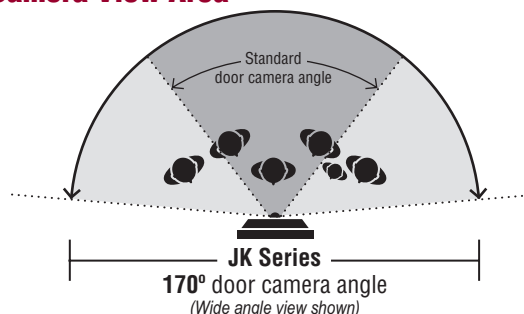
Features

- Quick and easy to install - Only 2 wires!
- No handset to pick up
- Compact, attractive design complements most interiors
- Hands-free (VOX) or push-to-talk (PTT) communication
- High resolution color TFT LCD monitor
- Includes single N/O door release contact
- Camera station can be monitored from inside
- All monitors turn on when camera station calls in
- Wide angle camera allows user to view up to 170° of the entire entry
- Camera view features digital PanTilt and zoom
- Entry can be monitored without alerting visitors they are being viewed, even at night
- Camera position and zoom can be set for call-in
- Camera can be manually adjusted to compensate for bright illumination
- Picture memory records up to 240 images in both wide angle or preset zoom view (JK-1MED only)
- Video out to DVR via supplied connector
- Can go online using the JKW-IP Video Intercom Adaptor

Wiring



Camera View Area



Inside Stations - Select 1 unit (optional)

INSIDE
2



JK-1HD
Sub Master
Station with
video monitor



JK-1SD
Audio Only
Sub Master
Station

Options & Accessories



XP-KIT
Includes keypad (XRP3),
programming cards, and
10 blank entry cards (XC4/9)
→ p.109



AC-10S
Access Control
Keypad, die cast
to match JK-DV
→ p.110



KAW-D
30° Angle
Box for
JK-DA
→ p.107



MKW-P
1-Gang
Mounting
Plate for
JK-DV
→ p.118



KMB-45
Mullion
Mounting
Bracket for
JK-DA
→ p.107



SBX-LSE
Security Lock
Box for JK-DV
and JK-DVF
(Lock not included)
→ p.107



SBX-LSP
Security Lock Box
for JK-DVF-HID
and JK-DVF-XP
→ p.107



SBX-DV30
30° Angle Box
for JK-DV
→ p.107



SBX-DVF
Surface Mount
Box for JK-DVF
→ p.106



SBX-DVF-P
Surface
Mount Box for
JK-DVF-HID and
JK-DVF-XP
→ p.106



SBX-ACE
Surface Mount Box for
intercom and access
control device
→ p.105



JKW-IP
IP Video
Intercom
Adaptor
→ p.28



JKW-BA
Long Distance
Door Station
Adaptor
→ p.110



EL-12S
Electric Door Strike,
12V AC/DC, 200mA
(Requires PT-1210N)
→ p.108



RY-18L
Form C Door
Release Relay
→ p.109



IER-2
Call Extension
Speaker
→ p.108



RY-ES
External
Signaling
Relay
→ p.110



MCW-S/A
Monitor
Desk Stand
→ p.118

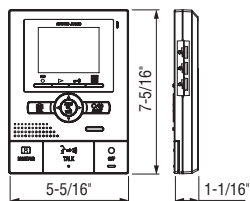
Boxed Sets



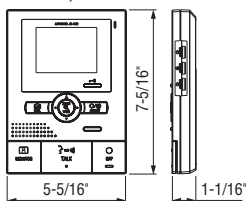
JKS-1AD: JK-1MD, JK-DA, and power supply
JKS-1ADV: JK-1MD, JK-DV, and power supply
JKS-1ADF: JK-1MD, JK-DVF, and power supply
JKS-1AED: JK-1MED, JK-DA, and power supply
JKS-1AEDV: JK-1MED, JK-DV, and power supply
JKS-1AEDF: JK-1MED, JK-DVF, and power supply

Unit Dimensions

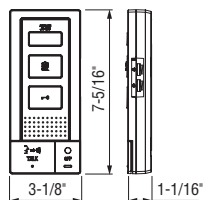
JK-1MED



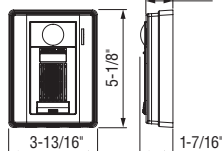
JK-1MD, JK-1HD



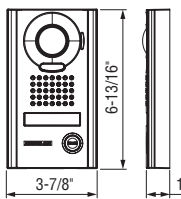
JK-1SD



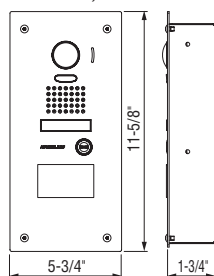
JK-DA



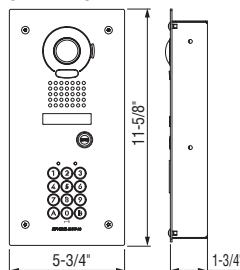
JK-DV



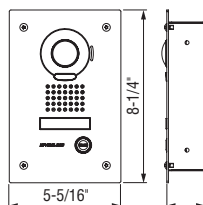
JK-DVF-XP, JK-DVF-HID



JK-DVF-AC



JK-DVF



Specifications

Power Source	18V DC - Use PS-1820UL
Calling	Chime, image and audio approx. 45 sec.
Communication	AUTOMATIC (hands-free) - to activate, momentarily push TALK button MANUAL (push-to-talk / release-to-listen) - to activate, push TALK button for at least 1 sec. or until talk LED turns on / a beep sounds
Video Monitor	3-1/2" direct-view TFT color LCD
Scanning Line	525 lines
Min. Illumination	5 Lux at 1' distance
Night Viewing	5 Lux at 1' with LED projected
Picture Memory	Record max. 240 images (40 image sequences at 6 frames per sequence), save max. 10 recorded pictures
Door Release	Contact rating: 24V AC/DC, 500mA Use RY-18L for larger contact rating
Wiring	Door to master: 2-cond., mid cap, solid, non-shielded Master to sub: 4-cond., mid cap, solid, non-shielded
Distance	Door to farthest master/sub master: 165'(22AWG) 330'(18AWG) Master to IER-2: 245'(22AWG) 490'(18AWG)
Wire Type	Master to door: Aiphone #871802 Between masters/subs: Aiphone #871804

JF Series

Hands-free Video

Door Stations - Select 1 unit

DOOR
1

JF-DA
Fixed Video Door Station, plastic cover, surface mount
→ p.99



JF-DV
Fixed Video Door Station, zinc die cast, surface mount
→ p.99



JF-DVF
Fixed Video Door Station, stainless steel, flush mount
→ p.99



JF-DVF-XP
Fixed Video Door Station with an embedded Stand-Alone Card Reader and host controller, stainless steel, flush mount
→ p.99



JF-DVF-HID-I
Fixed Video Door Station with an embedded HID® iCLASS® Smart Card Reader, stainless steel, flush mount
→ p.99



JF-DVF-HID
Fixed Video Door Station with an embedded HID® ProxPoint® Plus Proximity Card Reader, stainless steel, flush mount
→ p.99

Door Stations - Select 1 unit (optional)

DOOR
2

JF-DA
→ p.99



JF-DV
→ p.99



JF-DVF
→ p.99



JF-DVF-XP
→ p.99



JF-DVF-HID
→ p.99



JF-DVF-HID-I
→ p.99

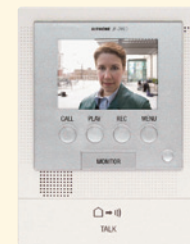


JF-D
Audio Only Door Station, plastic cover, surface mount
→ p.101



JBW-M
CCTV Input Module
→ p.111

Inside Station

INSIDE
1

JF-2MED
Master Station with video monitor and Picture Memory

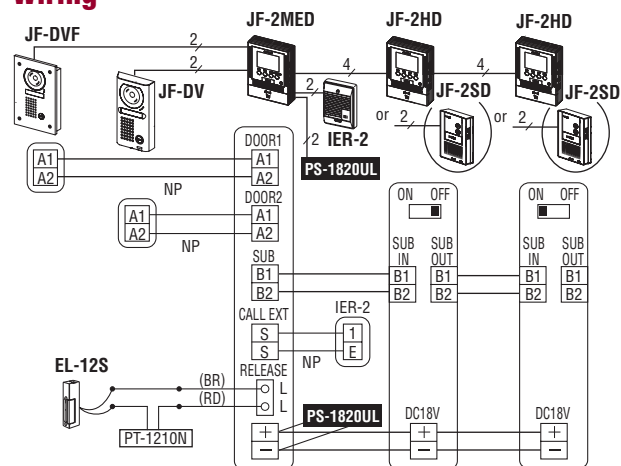
2 wires
Aiphone #871802
(Max. 33')

4 wires
Aiphone #871804
(Max. 330'
between master and farthest sub)

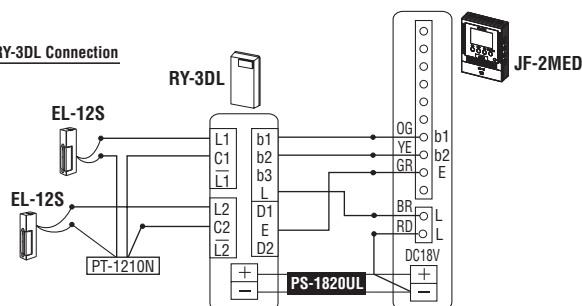
PS-1820UL
Power Supply,
18V DC, 2A
→ p.116

2 wires
Aiphone #871802
(Max. 330')

Wiring



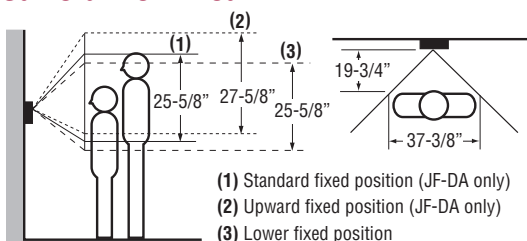
RY-3DL Connection



Features

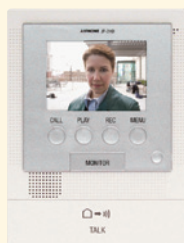
- Quick and easy to install - Only 2 wires!
- No handset to pick up
- Compact, attractive design complements most interiors
- Hands-free (VOX) or push-to-talk (PTT) communication
- Expandable to three inside and two door stations
- Leave a voice memo to replay at inside stations
- Pre-record entrance messages (manually controlled from master)
- Single or selective door release with RY-3DL
- Camera station can be monitored from inside
- All monitors turn on when camera station calls in
- Embedded card readers
- All Call to inside master and sub stations
- Video out to DVR via supplied connector

Camera View Area



Inside Stations - Select 1 unit (optional)

INSIDE
2



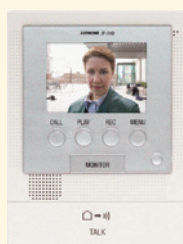
JF-2HD
Sub Master
Station with
video monitor



JF-2SD
Audio Only
Sub Master
Station

Inside Stations - Select 1 unit (optional)

INSIDE
3



JF-2HD
Sub Master
Station with
video monitor



JF-2SD
Audio Only
Sub Master
Station

4 wires
Aiphone
#871804
(Max. 330'
between
master and
farthest sub)

Options & Accessories



XP-KIT
Includes
keypad (XP3),
programming
cards, and 10
blank entry
cards (XC4/9)
→ p.109



AC-10S
Access
Control
Keypad,
die cast
to match
JF-DV
→ p.110



KAW-D
30° Angle
Box for
JF-DA
→ p.107



MKW-P
1-Gang
Mounting
Plate for
JF-DV
→ p.118



KMB-45
Mullion
Mounting
Bracket for
JF-DA
→ p.107



SBX-LSE
Security Lock
Box for JF-DV
and JF-DVF
(Lock not included)
→ p.107



SBX-LSP
Security
Lock Box for
JF-DVF-XP,
JF-DVF-HID,
and JF-DVF-HID-I
(Lock not included)
→ p.107



SBX-DV30
30° Angle
Box for
JF-DV
→ p.107



SBX-DVF
Surface Mount
Box for JF-DVF
→ p.106



SBX-DVF-P
Surface Mount
Box for JF-DVF-XP,
JF-DVF-HID, and
JF-DVF-HID-I
→ p.106



SBX-ACE
Surface Mount
Box for intercom
and access
control device
→ p.105



MKW-DK/A
Motion
Detector
Adaptor for
video door
station
→ p.117



JBW-BA
Long Distance
Door Station
Adaptor
→ p.110



IER-2
Call
Extension
Speaker
→ p.108



EL-12S
Electric Door Strike,
12V AC/DC, 200mA
(Requires PT-1210N)
→ p.108



RY-3DL
Selective
Door Release
Adaptor
→ p.108



RY-18L
Form C Door
Release Relay
(1 per door)
→ p.109



RY-ES
External
Signaling
Relay
→ p.110



MCW-S/A
Monitor Desk
Stand
→ p.118

Boxed Sets

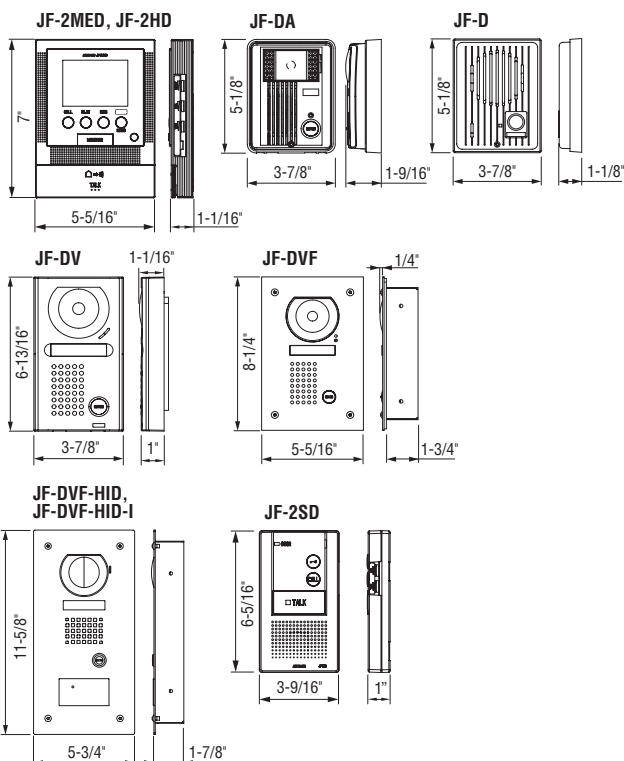


JFS-2AED: JF-2MED, JF-DA, and power supply

JFS-2AEDV: JF-2MED, JF-DV, and power supply

JFS-2AEDF: JF-2MED, JF-DVF, and power supply

Unit Dimensions



Specifications

Power Source	18V DC - Use PS-1820UL
Calling	Chime, image and audio approx. 45 sec.
Communication	AUTOMATIC (hands-free) - to activate, momentarily push TALK button MANUAL (push-to-talk / release-to-listen) - to activate, push TALK button for 2 sec. or until talk LED turns on
Video Monitor	3-1/2" direct-view TFT color LCD
Scanning Line	525 lines
Night Viewing	5 Lux at 1' distance with LED projected
Picture Memory	Record max. 50 images (8 pictures/image, 1 shot for each sec.) Save max. 10 recorded pictures
Voice Memo	Record max. 3 voice memos (max. approx. 15 sec. /memo)
Msg. for Entrance	Record max. 2 messages (max. approx. 10 sec. /message)
Door Release	Contact rating: 24V AC/DC, 500mA Use RY-18L for larger contact rating or RY-3DL for 2 doors
Wiring	Door to master: 2-cond., mid cap, solid, non-shielded Master to sub: 4-cond., mid cap, solid, non-shielded
Distance	Door to master: 165'(22AWG) 330'(18AWG) Master to farthest sub master: 165'(22AWG) 330'(18AWG) Master to IER-2: 245'(22AWG) 490'(18AWG)
Wire Type	Master to door: Aiphone #871802 Between masters/subs: Aiphone #871804

Inside Stations - Select 1 unit (optional)

INSIDE
2



JA-2HCD
Sub Master
Station with
PanTilt video
monitor



JA-2SD
Audio Only
Sub Master
Station

4 wires
Aiphone
#871804
(Max. 330'
between
master and
farthest sub)

Inside Stations - Select 1 unit (optional)

INSIDE
3



JA-2HCD
Sub Master
Station with
PanTilt video
monitor



JA-2SD
Audio Only
Sub Master
Station

Options & Accessories



KAW-D
30° Angle Box
for JA-DAC
→ p.107



KMB-45
Mullion Mounting
Bracket for JA-DAC
and JA-D
→ p.107



SBX-ACE
Surface Mount
Box for intercom
and access
control device
→ p.105



SBX-DGV
Surface Mount
Box for JA-DGV
→ p.106



MKW-DK/A
Motion Detector
Adaptor for video
door station
→ p.117



JBW-BA
Long Distance
Door Station
Adaptor
→ p.110



EL-12S
Electric Door Strike,
12V AC/DC, 200mA
(Requires PT-1210N)
→ p.108



RY-24L
Form C Door
Release Relay
(1 per door)
→ p.109



RY-ES
External
Signaling
Relay
→ p.110



IER-2
Call Extension
Speaker
→ p.108



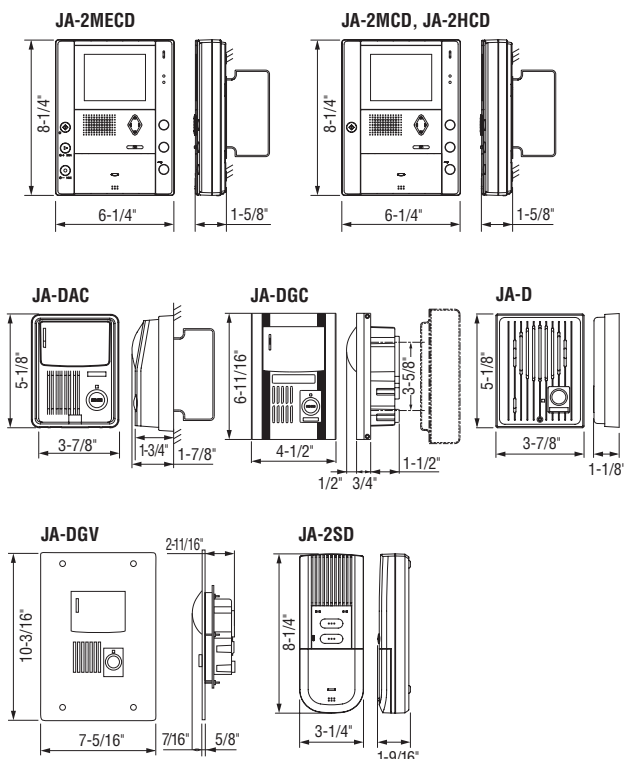
MCW-S/A
Monitor
Desk Stand
→ p.118

Boxed Sets

JA Series Box Set

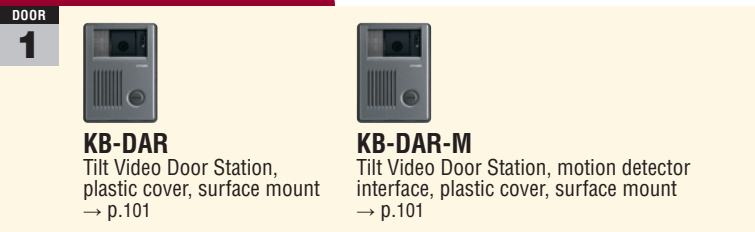
JAS-2MCD: JA-2MCD, JA-DAC, and power supply
JAS-2MECD: JA-2MECD, JA-DAC, and power supply

Unit Dimensions

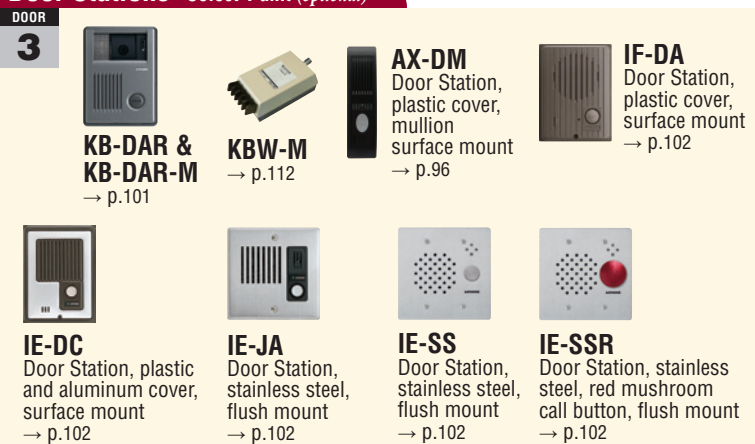


Specifications

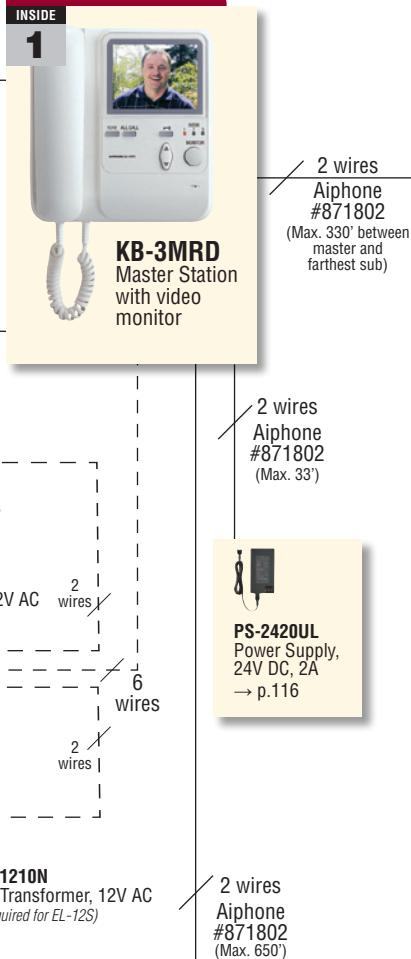
Power Source	24V DC - Use PS-2420UL
Calling	Chime, image and audio approx. 30 sec.
Communication	AUTOMATIC (hands-free) - to activate, momentarily push TALK button MANUAL (push-to-talk / release-to-listen) - to activate, push TALK button for 2 sec. or until talk LED turns on
Video Monitor	4" direct-view TFT color LCD
Scanning Line	525 lines
Image View Area	Approx. 2' horizontal, 3'8"~7'9" vertical at 4'3" high and at 20" in front of camera Night Viewing 5 Lux at 1' distance with LED projected
Picture Memory	Record max. 16 sets of 4 pictures in quad mode, 32, or 60 individual pictures
Door Release	Contact rating: 24V AC/DC 500mA Use RY-24L for larger contact rating, one per door
Wiring	Door to master: 2-cond., mid cap, solid, non-shielded Master to subs: 4-cond., mid cap, solid, non-shielded
Distance	Master to door: 165'(22AWG) 330'(18AWG) Master to farthest sub: 165'(22AWG) 330'(18AWG) Master to IER-2: 245'(22AWG) 490'(18AWG)
Wire Type	Master to door: Aiphone #871802 Between masters/subs: Aiphone #871804

Door Stations - Select 1 unit**Door Stations - Select 1 unit (optional)**

Door Stations - Select 1 unit (optional)



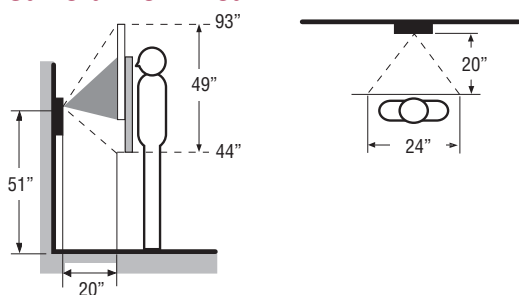
Inside Station



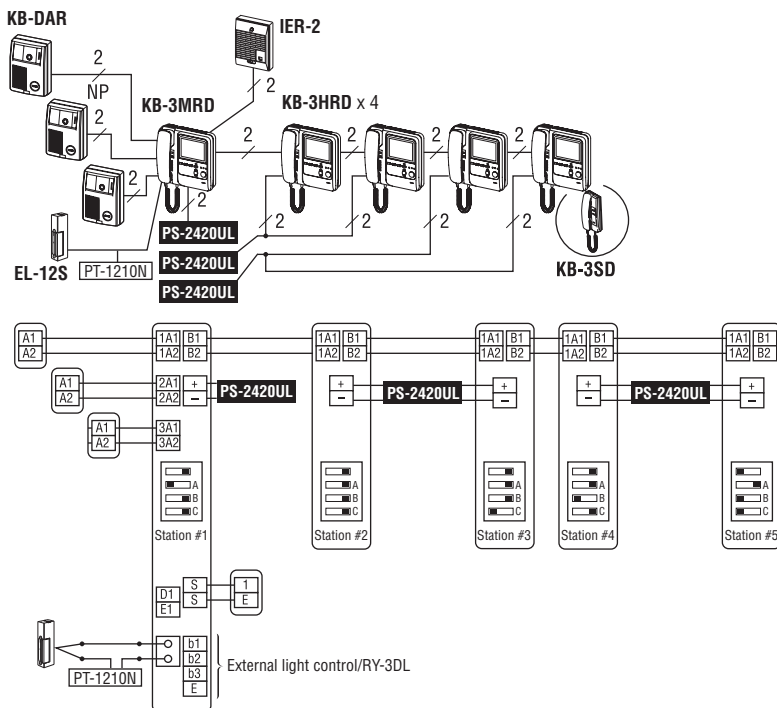
Features

- Clear and bright image with color TFT LCD monitor and color video door station
- Instant voice call-in with image
- Selective Call or All Call
- Chime or receiver volume control
- Optional selective door release with RY-3DL
- 330' total distance looped between monitors
- TILT camera control
- Video out to DVR via supplied connector

Camera View Area




Wiring



- NOTES:**
1. D1 and E1 for IE Series door stations (audio only) instead of third KB-DAR
 2. Run audio/video wires in a separate jacketed cable from door release wires
 3. Wiring for KB-3SD: two wires only, + / - wires are not necessary

Inside Stations - Select up to 2 units (optional)

INSIDE 2 & 3



KB-3HRD
Sub Master Station with video monitor

KB-3SD
Audio only Sub Master Station
(Only 2 KB-3SD's per system)


2 wires Aiphone #871802 (Max. 33')

PS-2420UL
Power Supply, 24V DC, 2A (One PS-2420UL per two video monitors)
→ p.116

2 wires Aiphone #871802 (Max. 33' between master and farthest sub)

Inside Stations - Select up to 2 units (optional)

INSIDE 4 & 5



KB-3HRD
Sub Master Station with video monitor

KB-3SD
Audio only Sub Master Station
(Only 2 KB-3SD's per system)

2 wires Aiphone #871802 (Max. 33')

PS-2420UL
Power Supply, 24V DC, 2A (One PS-2420UL per two video monitors)
→ p.116

Options & Accessories

NEW

XP-SS
Accessory Station with an embedded Stand-Alone Card Reader with host controller
→ p.109

HID-SS
Accessory Station with an embedded HID® Proximity Card Reader
→ p.109

ICP-BR
Brass Faceplate for IE-JA
→ p.108

ICP-AB
Antique Brass Faceplate for IE-JA
→ p.108

SBX-2G
Surface Mount Box for IE-JA, IE-SS, and IE-SSR
→ p.105

SBX-2BH
Horizontal Mount Box for HID-SS and IE-SS or IE-SSR (Vertical mount also available - **SBX-2BV**)
→ p.105

SBX-ACE
Surface Mount Box for intercom and access control device
→ p.105

KAW-D
30° Angle Box for KB-DAR/KB-DAR-M
→ p.107

KMB-45
Mullion Mounting Bracket for KB-DAR, KB-DAR-M, IF-DA and IE-DC
→ p.107

KA-DGR Panel
Housing Panel for KB-DAR and KB-DAR-M, stainless steel, surface mount
→ p.101

KA-FSH
Housing Panel for KB-DAR and KB-DAR-M, stainless steel, flush mount
→ p.101

EL-12S
Electric Door Strike, 12V AC/DC, 200mA (Requires PT-1210N)
→ p.108

RY-3DL
Selective Door Release Adaptor
→ p.108

RY-24L
Form C Door Release Relay (When releasing one door)
→ p.109

IER-2
Call Extension Speaker
→ p.108

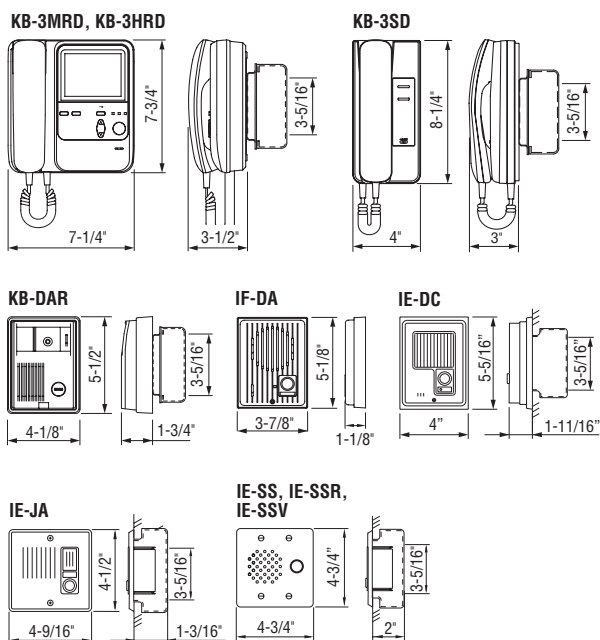
NEW

RY-ES
External Signaling Relay
→ p.110

MCW-S/A
Monitor Desk Stand
→ p.118

MCW-2S
Monitor/Picture Memory Unit Desk Stand
→ p.118

Unit Dimensions



Specifications

Power Source	24V DC - Use PS-2420UL
Calling	Chime, image and audio approx. 30 sec., hear and see door instantly
Communication	Pick up at any station to reply, 2-1/2 min. timed, recycle with MONITOR, monitor audio and image of door, hands-free with MONITOR, push a station selector and call by voice, the called station replies hands-free, lift handset, push All Call button to call the other stations with pre-tone and voice
Video Monitor	4" direct-view TFT color LCD
Scanning Line	525 lines
Image View Area	Approx. 2" horizontal, 3'8"~7'9" vertical at 4'3" high and at 20" in front of camera
Night Viewing	5 Lux at 1' distance with LED projected
Door Release	Contact rating: 12V AC, 400mA Use RY-24L for larger contact rating or RY-3DL for 2~3 doors
Wiring	Door to master: 2-cond., mid cap, solid, non-shielded Master to subs: 2 x 2-cond., mid cap, solid, non-shielded
Distance	Master to door: 330'(22AWG) 650'(18AWG) Master to farthest sub: 165'(22AWG) 330'(18AWG) Master to IER-2: 165'(22AWG) 330'(18AWG)
Wire Type	Aiphone #871802

KCS-1ARD

Video Entry with Tilt Set

Door Station

DOOR
1

KC-DAR
Tilt Video Door
Station, plastic
cover, surface
mount
→ p.101

2 wires
Aiphone
#871802
(Max. 330')



EL-12S
Door
Strike

PT-1210N
AC Transformer,
12V AC (Required for
EL-12S)

Inside Station

INSIDE
1

KC-1MRD
Master Station
with video monitor
(Not sold separately)

2 wires
Aiphone
#871802
(Max. 33')

PS-2420UL
Power Supply,
24V DC, 2A
→ p.116

Options & Accessories



KA-DGR Panel
Housing Panel
for KC-DAR,
stainless steel,
surface mount
→ p.101



KA-FSH
Housing Panel
for KC-DAR,
stainless steel,
flush mount
→ p.101



KAW-D
30° Angle
Box for
KC-DAR
→ p.107



KMB-45
Mullion
Mounting
Bracket for
KC-DAR
→ p.107



SBX-ACE
Surface Mount
Box for intercom
and access
control device
→ p.105



EL-12S
Electric Door
Strike, 12V
AC/DC, 200mA
(Requires PT-1210N)
→ p.108



RY-24L
Form C Door
Release Relay
→ p.109



KCW-D/B
Video output
converter to
CCTV/DVR
→ p.112



MKW-DK/A
Motion Detector
Adaptor for video
door station
→ p.117



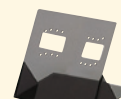
JBW-BA
Long Distance
Door Station
Adaptor
→ p.110



IER-2
Call Extension
Speaker
→ p.108



MCW-S/A
Monitor
Desk Stand
→ p.118



MCW-2S
Monitor/Picture
Memory Unit
Desk Stand
→ p.118

Boxed Set

KCS-1ARD Box Set

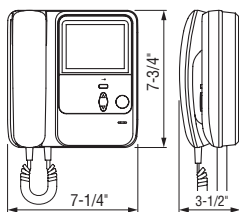
KCS-1ARD: KC-1MRD, KC-DAR, and power supply

Features

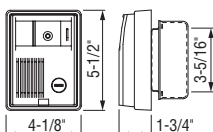
- Clear and bright image with color TFT LCD monitor and color video door station
- Instant voice call-in with image
- Hands-free audio and video monitoring
- White LED illuminator
- TILT camera control

Unit Dimensions

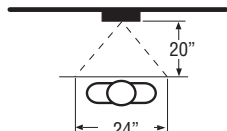
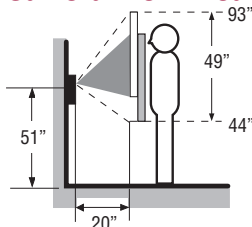
KC-1MRD



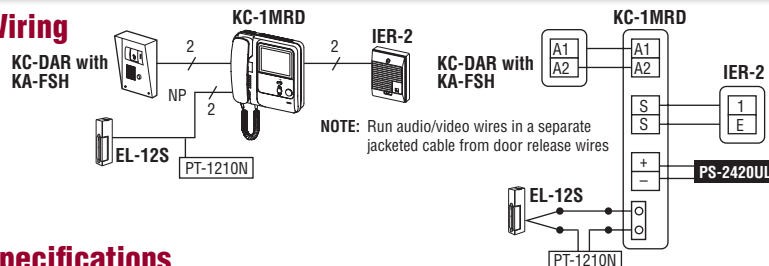
KC-DAR



Camera View Area



Wiring



Specifications

Power Source	24V DC - Use PS-2420UL
Calling	Chime, image and audio approx. 30 sec., hear and see door instantly
Communication	Pick up to reply - 2 1/2 min. time, be aware of hands-free audio and image of door with monitor
Video Monitor	4" direct-view TFT color LCD
Scanning Line	525 lines
Image View Area	Approximately 2' horizontal, 3'8"~7'9" vertical at 20" in front of camera at 4'3" high and 20" from camera
Night Viewing	5 Lux at 1' distance with LED projected
Door Release	Contact rating: 12V AC, 400mA Use RY-24L for larger contact rating
Wiring	Door to master: 2-cond., mid cap, solid, non-shielded
Distance	Master to door: 165'(22AWG) 330'(18AWG) Master to IER-2: 165'(22AWG) 330'(18AWG)
Wire Type	Aiphone #871802

Door Stations - Select 1 unit

DOOR 1



KC-DAR
Tilt Video Door Station, plastic cover, surface mount
→ p.101



Inside Station

INSIDE 1





KC-1GRD
Master Station with video monitor



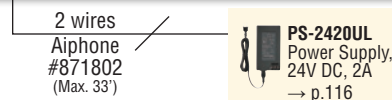
Inside Stations - Select up to 2 units (optional)

INSIDE 2 & 3




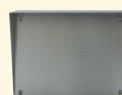









KC-1HRD
Sub Station with video monitor

KC-1SD
Audio Only Sub Master Station



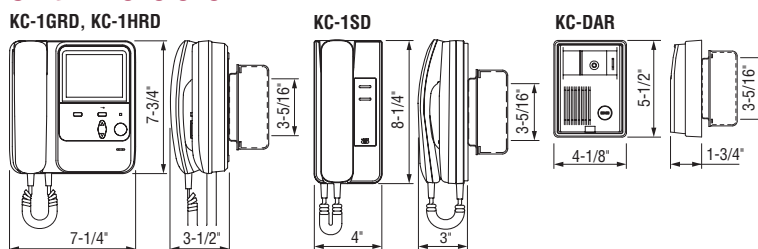
Options & Accessories

 KA-DGR Panel Housing Panel for KC-DAR, stainless steel, surface mount → p.101	 KA-FSH Housing Panel for KC-DAR, stainless steel, flush mount → p.101	 KAW-D 30° Angle Box for KC-DAR → p.107	 KMB-45 Mullion Mounting Bracket for KC-DAR → p.107	 SBX-ACE Surface Mount Box for intercom and access control device → p.105	 EL-12S Electric Door Strike, 12V AC/DC, 200mA (Requires PT-1210N) → p.108	 RY-24L Form C Door Release Relay → p.109
 KCW-D/B Video output converter to CCTV/DVR → p.112	 MKW-DK/A Motion Detector Adaptor for video door station → p.117	 IER-2 Call Extension Speaker → p.108	 RY-ES External Signaling Relay → p.110	 MCW-S/A Monitor Desk Stand → p.118	 MCW-2S Monitor/Picture Memory Unit Desk Stand → p.118	

Features

- Clear and bright image with color TFT LCD monitor and color video door station
- TILT camera control
- Instant voice call-in with image
- White LED illuminator
- All Call type room calling
- Hands-free audio and video monitoring
- 330' total distance looped between monitors

Unit Dimensions

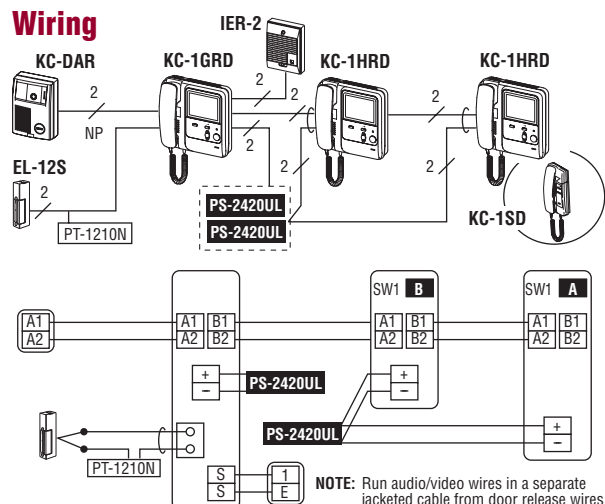


Specifications

Power Source	24V DC - Use PS-2420UL
Calling	Chime, image and audio approx. 30 sec., hear and see door instantly
Communication	Pick up at any station to reply, 2-1/2 min. timed, recycle with MONITOR, monitor hands-free audio and image of door with MONITOR, push All Call to call the other monitors with pre-tone and voice, lift either handset to reply
Video Monitor	4" direct-view TFT color LCD
Scanning Line	525 lines
Image View Area	Approx. 2" horiz., 3"8"-7"9" vert. at 20" in front of camera at 4"3" high
Night Viewing	5 Lux at 1' distance with LED projected
Door Release	Contact rating: 12V AC, 400mA. Use RY-24L for larger contact rating
Wiring	Door to master: 2-cond., mid cap, solid, non-shielded Master to subs: 2 x 2-cond., mid cap, solid, non-shielded
Distance	Master to door: 165'(22AWG) 330'(18AWG) Master to farthest sub: 165'(22AWG) 330'(18AWG) Master to IER-2: 165'(22AWG) 330'(18AWG)
Wire Type	Aiphone #871802

Camera View Area (See line drawing for KCS-1ARD, p. 48)

Wiring





Audio Only Intercoms

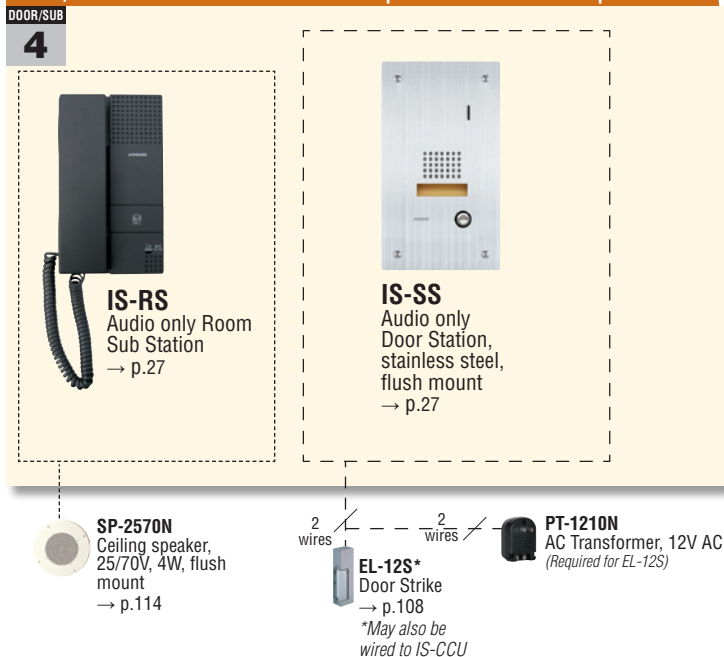


Providing communication between key points

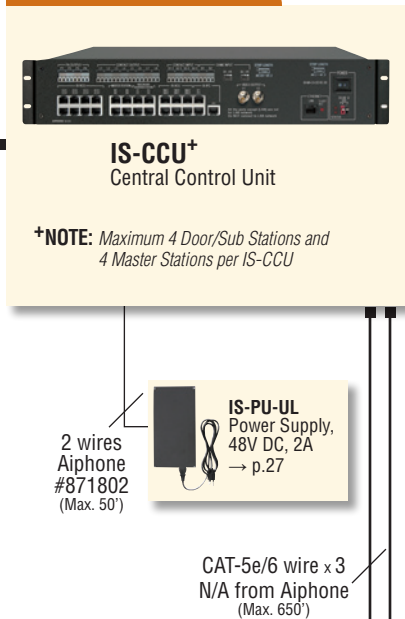
DOOR/SUB 160	MASTER 160	ROOM 960	IP ADDRESS 32	IS Series IP SECURITY INTERCOM.....	54
	STATIONS 11			LEF Series OPEN VOICE SELECTIVE CALL SYSTEMS	56
DOOR 1	INSIDE 5			DB Series HANDS-FREE SINGLE ENTRY SECURITY	61
DOOR 1	INSIDE 4			LEM-1DL & LEM-1DLC ACCESS SENTRY	62
DOOR/SUB 3	INSIDE 1			LEM Audio OPEN VOICE INTERCOM	63
DOOR 1	INSIDE 2			C-123L/A & C-123LW CHIME COM	64
DOOR 1	INSIDE 1			CCS-1A Set CHIME COM2.....	65
WINDOW 1	INSIDE 1			IM Series SECURITY WINDOW SYSTEM SET	66
DOOR 2	INSIDE 6			IE-8 Series CHIME TONE INTERCOM SYSTEM.....	68
MASTER 1	SUB 3			AT-406 Series HANDSET TO HANDSET.....	69
DOOR 2	CHANNELS 25			TD-H Series SELECTIVE CALL INTERCOM	70
DOOR/SUB 3	MASTER 1			MP-S Series MID-POWER INTERCOM.....	72
DOOR/SUB 10	MASTER 2			AP-M Series HIGH-POWER INTERCOM.....	73
DOOR/SUB 120	INSIDE 2			NEM Series LAMP MEMORY INTERCOM	74
SUB 80	INSIDE 1	DUTY 1		NHX Series NURSE CALL SYSTEM (UL 1069 Listed)	76
STATIONS 60	SPEAKERS ∞			MC Series MARKET COM.....	79

Our audio only intercoms have been providing point to point communication in offices, retail buildings, hospitals, and other applications worldwide for over sixty years. Any time clear and reliable communication is required, the installation of an Aiphone audio only intercom will get the job done!

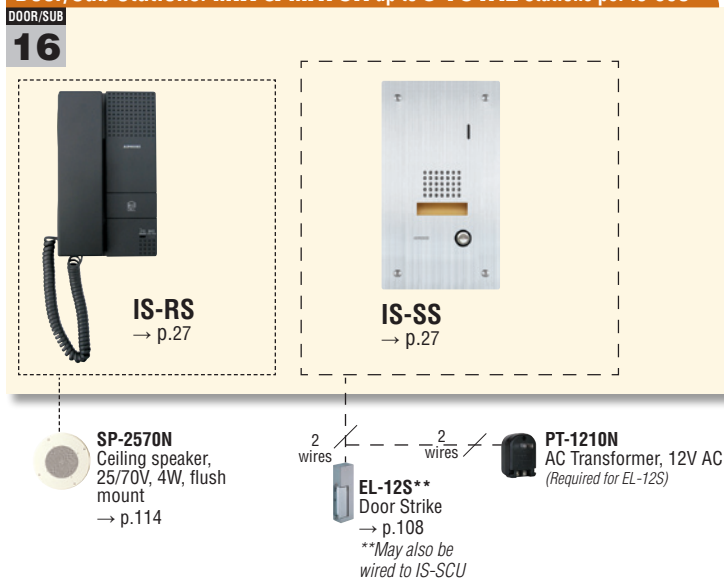
Door/Sub Stations: MIX & MATCH up to 4 TOTAL Stations per IS-CCU



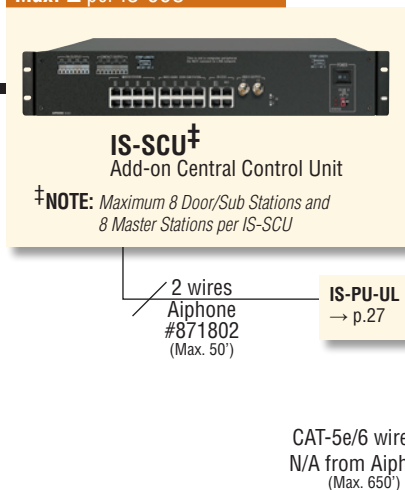
Central Control Unit



Door/Sub Stations: MIX & MATCH up to 8 TOTAL Stations per IS-SCU



Add-on Control Unit: Max. 2 per IS-CCU



Features

NOTE: For features of the IS Series see p.24

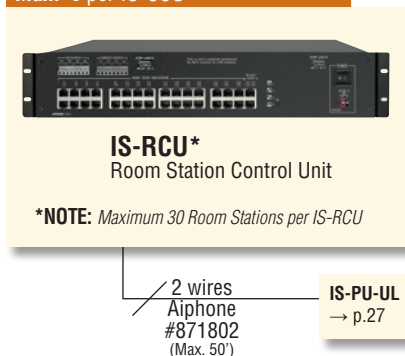
Unit Dimensions & Descriptions

NOTE: For unit dimensions and descriptions of the IS Series see p.26 ~ p.27

Specifications

NOTE: For specifications of the IS Series see p.25

Room Station Control Unit: Max. 4 per IS-CCU



*To learn how to expand the IS Series over a network, see p.24

Master Station: Up to 4 TOTAL Stations per IS-CCU

MASTER
4

CAT-5e/6 wire /
N/A from
Aiphone
(Max. 980')



IS-MV
Master Station
→ p.27

Master Station: Up to 8 TOTAL Stations per IS-SCU

MASTER
16

CAT-5e/6 wire /
N/A from
Aiphone
(Max. 980')



IS-MV
Master Station
→ p.27

Room Stations: MIX & MATCH up to 30 TOTAL Stations per IS-RCU

ROOM
120

CAT-5e/6 wire /
N/A from
Aiphone
(Max. 980')



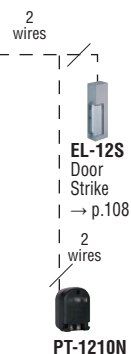
IS-RS
→ p.27



IS-SS
→ p.27



SP-2570N
Ceiling speaker,
25/70V, 4W, flush
mount
→ p.114



LEF Series

Open Voice Selective Call Systems

Door Stations: MIX & MATCH up to 11 TOTAL LEF components

STATIONS
11**LE-D**
Door Station,
plastic cover,
surface mount
→ p.103**LE-SS-1G**
Door Station,
vandal resistant,
stainless steel,
flush mount
→ p.103**LE-DA**
Door Station,
stainless steel
faceplate,
flush mount
→ p.103**LE-SS**
Door Station,
vandal resistant,
stainless steel,
flush mount
→ p.103**LE-SSR**
Door Station,
vandal resistant,
stainless steel, red
mushroom call
button, flush mount
→ p.103**LE-SSV**
Door Station
with built-in
CCTV camera,
stainless steel,
flush mount
→ p.103**LS-NVP/C**
Door Station,
vandal resistant,
powder-coated
steel, flush
mount
→ p.103

Master Stations: MIX & MATCH up to 11 TOTAL LEF components

STATIONS
11

Surface Mount Designs

**LEF-3**
3-Call Master
Station
→ p.58**LEF-3L**
3-Call Master Station
with selective door
release
→ p.58**LEF-5**
5-Call Master Station
with selective door
release
→ p.58**LEF-10**
10-Call Master Station with
selective door release
→ p.58**LEF-10S**
10-Call Master Station with All Call
button and selective door release
→ p.58

Semi-flush Designs

**LEF-3C**
3-Call Master
Station with All
Call button
→ p.58**LEF-5C**
5-Call Master
Station with All Call
button and selective
door release
→ p.58**LEF-10C**
10-Call Master
Station with All Call
button and selective
door release
→ p.58

Speaker Stations: MIX & MATCH Up to 11 TOTAL LEF components

STATIONS
11**AH-108**
8Ω, 10W Horn
Speaker
→ p.115**SP-20N**
Ceiling Speaker,
flush mount
(Requires NP-25V)
→ p.59 & p.114

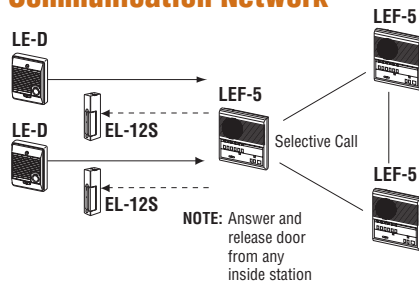
Paging Adaptor: MIX & MATCH Up to 11 TOTAL LEF components

**BA-1**
Paging Adaptor
→ p.113

Features

- Intermix masters and subs to create desired communication (up to 11 total components)
- Selective Call and monitoring
- 3, 5, and 10-call masters
- Wide variety of master and sub stations available
- Push-to-talk at master, hands-free reply at called station
- Call tone and LED annunciation at master
- Selective door release (w/ RY-PA per door) on LEF 3L/5/10-call masters
- All Call with LEF-10S and all LEF-C masters (requires BG-10C)

Communication Network



Wiring

COMPONENT	WIRE #	DESCRIPTION
LEF: Standard wiring		
LEF-3	822210	22 AWG, 10 conductor, overall shield
LEF-5	822212	22 AWG, 12 conductor, overall shield
LEF-10, LEF-10S	822220	22 AWG, 20 conductor, overall shield
LEF-10C		
Homerun to BG-10C	822212	22 AWG, 12 conductor, overall shield
Looped (max. 9 stns)	822220	22 AWG, 20 conductor, overall shield
LEF-3C	822212	22 AWG, 12 conductor, overall shield
LEF-5C	822215	22 AWG, 15 conductor, overall shield
LEF-10C	822220	22 AWG, 20 conductor, overall shield
BG-10C to Master	822220	22 AWG, 20 conductor, overall shield
LE Series: Single call sub and door stations (except LE-C & LE-CN)		
Homerun (22AWG)	822203	22 AWG, 3 conductor, overall shield
Homerun (18AWG)	821803	18 AWG, 3 conductor, overall shield
Looped (max. 4 stns)	822206	22 AWG, 6 conductor, overall shield
Looped (max. 8 stns)	822210	22 AWG, 10 conductor, overall shield
LE-A3, LE-AN3	822206	22 AWG, 6 conductor, overall shield
LE-C, LE-CN		
Homerun to BG-10C	822206	22 AWG, 6 conductor, overall shield
Looped (max. 3 stns)	822210	22 AWG, 10 conductor, overall shield
LEF: Using selective contacts for door release (K terminals)		
LEF-3L	822212	22 AWG, 12 conductor, overall shield
LEF-5, 5C	822220	22 AWG, 20 conductor, overall shield
LEF-10, 10S, 10C	822220	22 AWG, 20 conductor, overall shield
plus	822210	22 AWG, 10 conductor, overall shield

MIX & MATCH Up to 11 TOTAL different LEF components

Sub Stations: Communication to Master

STATIONS
11

Surface Mount Designs



LE-A
Sub Station
→ p.58



LE-AN
Privacy Sub Station
→ p.58



LE-A3 (Shown)
3-Call Sub Station
→ p.58
LE-AN3
3-Call Privacy Sub Station
→ p.58

Semi-flush Designs



LE-B
Sub Station
→ p.59



LE-BN
Privacy Sub Station
→ p.59



LE-C
Sub Station with music volume control
(Requires BG-10C)
→ p.59



LE-CN
Privacy Sub Station with music volume control
(Requires BG-10C)
→ p.59



LEF-1C
Sub Master Station with All Call button
(Requires BG-10C)
→ p.59

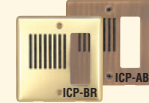
Options & Accessories



XP-SS
Accessory Station with an embedded Stand-Alone Card Reader with host controller
→ p.109



HID-SS
Accessory Station with Embedded HID® Proximity Card Reader
→ p.109



ICP-BR
Brass Faceplate for LE-DA
→ p.108
& ICP-AB
Antique Brass Faceplate for LE-DA
→ p.108



SBX-1G
Surface Mount Box for LE-SS-1G
→ p.105



SBX-2G
Surface Mount Box for LE-SS, LE-SSR, and LE-SSV
→ p.105



SBX-2BV
Vertical Mount Box for HID-SS and LE-SS, LE-SSR, or LE-SSV
(Horizontal mount also available - **SBX-2BH**)
→ p.105



SBX-NVP
Surface Mount Box for LS-NVP/C
→ p.106



EL-12S
Electric Door Strike, 12V AC/DC, 200mA
(Requires PT-1210N)
→ p.108



RY-PA
Door Release Relay
→ p.108



LT-1
20Ω-to-8Ω Matching Transformer



LEW-5, LEW-10, LEW-10S
Terminal Box
→ p.117



BG-10C
All Call, Chime and Music Adaptor
→ p.117



NP-25V
Non-polarized capacitor, 33μF, 25V



NP-B
Indoor Call Button, flush mount
(Use NP-W surface mount box when needed)
→ p.110



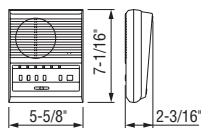
RY-AC/A
External Signaling Relay
→ p.110



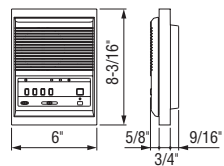
PS-1225UL
Power Supply, 12V DC
→ p.116

Unit Dimensions

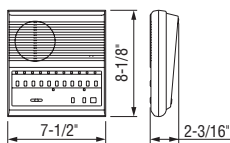
LEF-3, LEF-3L



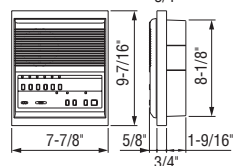
LEF-1C, LEF-3C



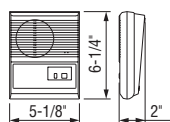
LEF-5, LEF-10, LEF-10S



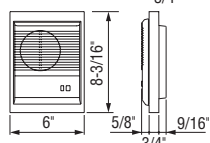
LEF-5C, LEF-10C



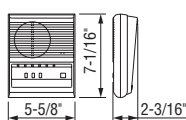
LE-A, LE-AN



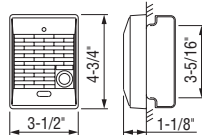
LE-B, LE-BN, LE-C, LE-CN



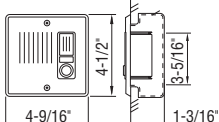
LE-A3, LE-AN3



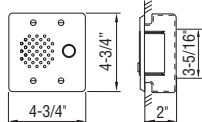
LE-D



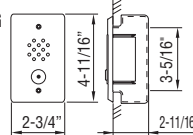
LE-DA



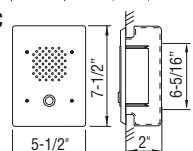
LE-SS, LE-SSR, LE-SSV



LE-SS-1G



LS-NVP/C



Specifications

Power Source 12V DC - Use PS-1225UL

Communication Sub calls in with call-tone and LED, 20 sec. Push the LED selector button, use TALK/LISTEN switch. Master calls in with tone or voice (no LED lit), reply hands-free. To call, push a selector, and call by voice or tone. Door chime available with BG-10C.

Communication Output 500mW

Door Release RY-PA Contact rating: 24V DC, 1A
Use 1 RY-PA per door being released

Wiring See "Wiring" on previous page

Distance Door/Sub to farthest master: 650'(22AWG) 1,600'(18AWG)

Wire Type See "Wiring" on previous page

Master Stations - surface mount



LEF-3
3-Call Master Station



LEF-3L
3-Call Master Station
with selective door release



LEF-5
5-Call Master Station
with selective door release



LEF-10
10-Call Master Station
with selective door
release, surface mount

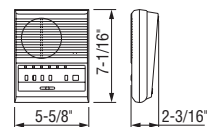


LEF-10S
10-Call Master Station with
All Call button and selective
door release, surface mount

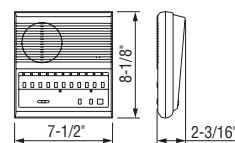
Features

- Selective calling to masters and subs
- Hands-free communication at receiving master
- Surface or desk mount design
- LEF-3L, LEF-5, LEF-10, and LEF-10S provide outputs for selective door release (relay required per door)

**LEF-3,
LEF-3L**



**LEF-5,
LEF-10,
LEF-10S**



Specifications

Speaker	20Ω
Material	ABS Plastic
Color	White with gray nameplate
Distance	650'(22AWG), 1,600'(18AWG)

Master Stations - semi-flush mount



LEF-3C
3-Call Master
Station with
All Call button



LEF-5C
5-Call Master
Station with All Call
button and selective
door release

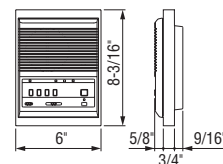


LEF-10C
10-Call Master
Station with All Call
button and selective
door release

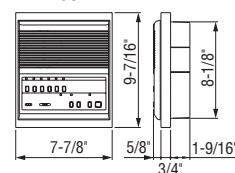
Features

- Selective calling to masters and subs
- Hands-free communication at receiving master
- Semi-flush mount design
- LEF-5C and LEF-10C provide outputs for selective door release (relay required per door)

LEF-3C



**LEF-5C,
LEF-10C**



Specifications

Speaker	20Ω
Material	ABS Plastic
Color	White with gray nameplate
Distance	650'(22AWG), 1,600'(18AWG)

Sub Stations - surface mount



LE-A
Sub Station



LE-AN
Privacy Sub Station



LE-A3
3-Call Sub Station

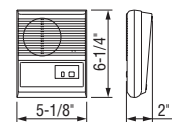


LE-AN3
3-Call Privacy Sub Station

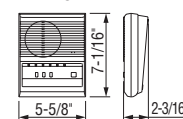
Features

- Push button to call master station(s)
- Hands-free communication when master answers
- Desk or wall mount
- Mounts to 1-gang box or ring (wall mount)
- Privacy feature blocks unwanted monitoring from master (LE-AN and LE-AN3)
- Selectively call three individual or groups of masters (LE-A3 or LE-AN3)

**LE-A,
LE-AN**



**LE-A3,
LE-AN3**



Specifications

Speaker	20Ω
Material	ABS Plastic
Color	White with gray nameplate
Distance	650'(22AWG), 1,600'(18AWG)

Used for:
LEF and LEM

Sub Stations - semi-flush mount



LEF-1C
Sub Master Station
with All Call button
(Requires BG-10C)



LE-B
Sub Station



LE-BN
Privacy Sub
Station



LE-C
Sub Station with
music volume control
(Requires BG-10C)

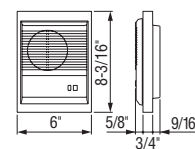


LE-CN
Privacy Sub Station with
music volume control
(Requires BG-10C)

Features

- Push button to call master station(s)
- LEF-1C provides output for door release
- Hands-free communication when master answers
- Semi-flush mount design
- Optional rough-in box for new construction (BBX-1E, p.106)
- Privacy feature blocks unwanted monitoring from master (LE-BN, LE-CN)
- Music volume control (LEF-1C LE-C, LE-CN)

**LEF-1C,
LE-B,LE-BN,
LE-C,LE-CN**



Specifications

Speaker	20Ω
Material	ABS Plastic
Color	White with gray nameplate
Distance	650'(22AWG), 1,600'(18AWG)

Used for:
LEF and LEM

Speaker Station - flush mount

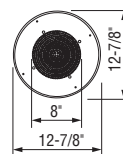


SP-20N
Ceiling Speaker,
(Requires NP-25V or
NP-B call button)

Features

- 20Ω speaker station for 2-way communication
- Mounting bracket for drop tile ceilings (SSB-2, p.114)
- 8" diameter speaker with a 12-7/8" diameter white baffle

SP-20N



Specifications

Speaker Size	8" diameter
Magnet Weight	5 oz.
Voice Coil Impedance	20Ω
Power Handling	4W RMS, LEF puts out 800mW
Frequency Response	65Hz. to 17kHz.
Depth & Weight	2-3/4" deep and 1.75lbs.
Cone	Dual

Used for:
LEF and LEM

LEF Specification Tips

- Sub stations only communicate with master stations and cannot communicate to other subs or door stations.
- The All Call feature on the LEF-10S and LEF-C master stations will be operable only in a system with the BG-10C included.
- The BG-10C is required in a system that includes LEF-1C sub master stations.
- The standard LEF-3 does not have a door release button. If a door release is required, use an LEF-3L.
- A relay is required for every door that is to be released.
- For standard indoor sub stations (LE-A/AN, LE-B/BN) to receive All Call, one NP-25V capacitor is required per sub station. (Installed at BG-10C)
- Use one PS-1225UL per system. Do not substitute another brand power supply for this system.
- Using Aiphone wire adds a full year to the product warranty and helps ensure proper system function.

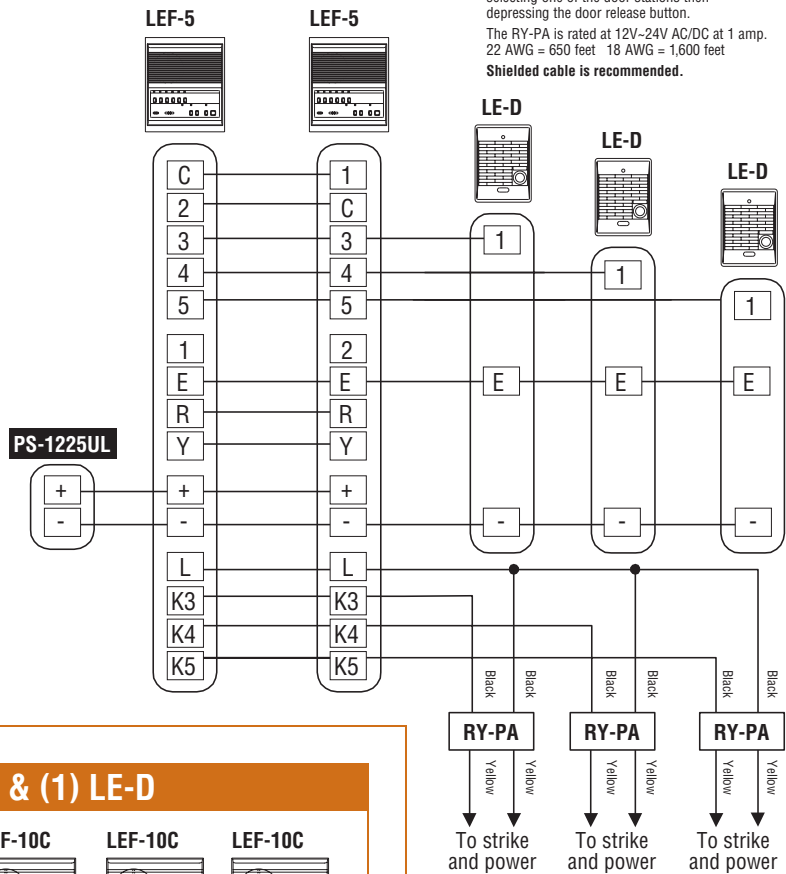
LEF Installation Tips

- Always separate LEF wire from AC cabling by at least one stud space. If it is necessary to cross AC lines, always cross at a 90° angle.
- Never install LEF equipment near dimmer switches, alarm panels, fluorescent lights, or other sources of RFI interference.
- Always use shielded cable to connect audio lines. Tie all shields together and ground one end of the shield to an earth ground.
- If a single cable cannot be used to connect audio lines, ensure that all cables with a "H" or "C" connection also have an "E" connection. This will prevent buzzing on the system.
- If a system has more than one master, remove the brass E/- jumper and run three wires to all door and sub stations (except LE-C/CN and LE-A3/AN3, which requires six wires).

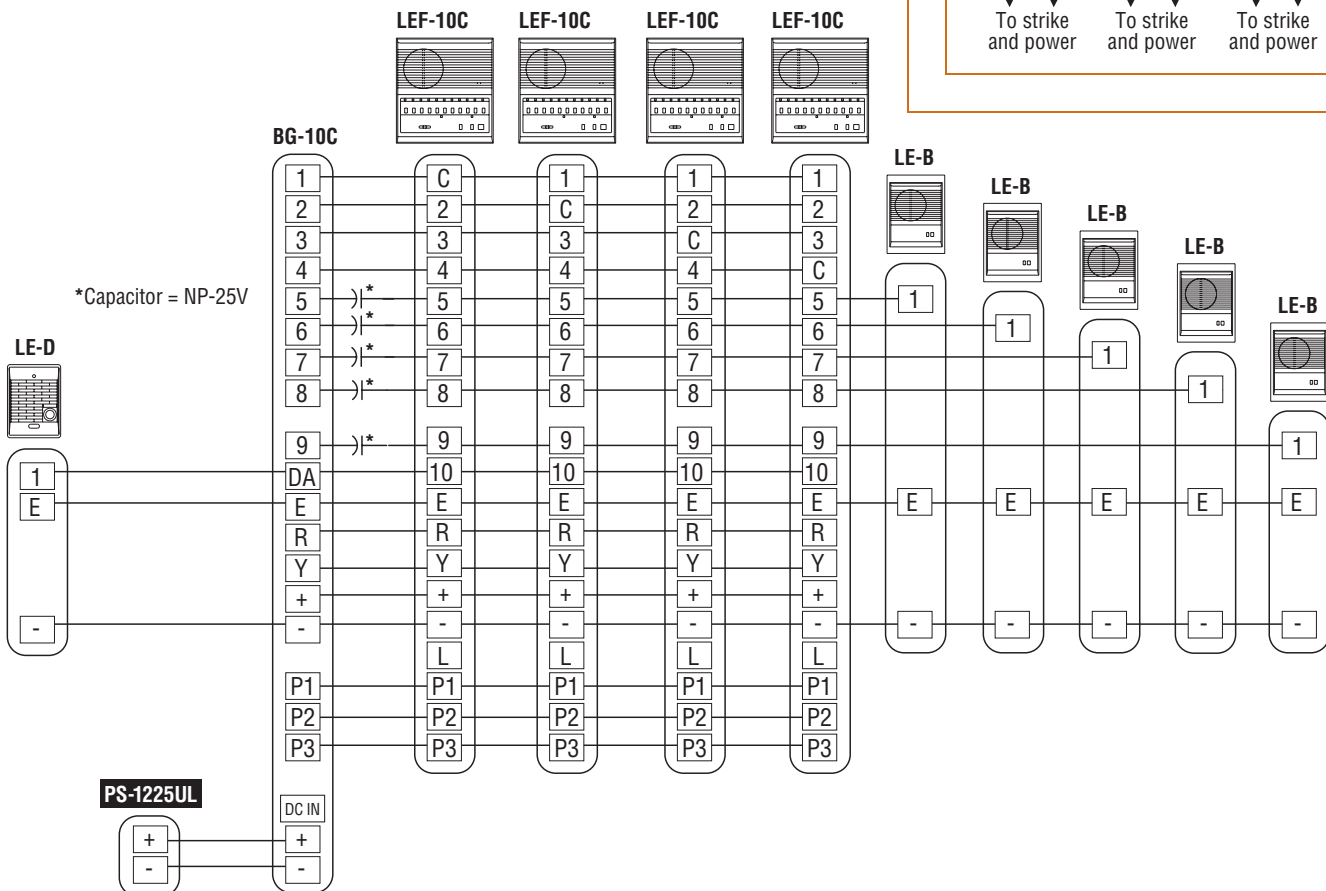
Talk master to master on buttons 1 or 2. The masters talk to the doors by pushing buttons 3, 4, or 5. Release the door by selecting one of the door stations then depressing the door release button.

The RY-PA is rated at 12V-24V AC/DC at 1 amp. 22 AWG = 650 feet 18 AWG = 1,600 feet

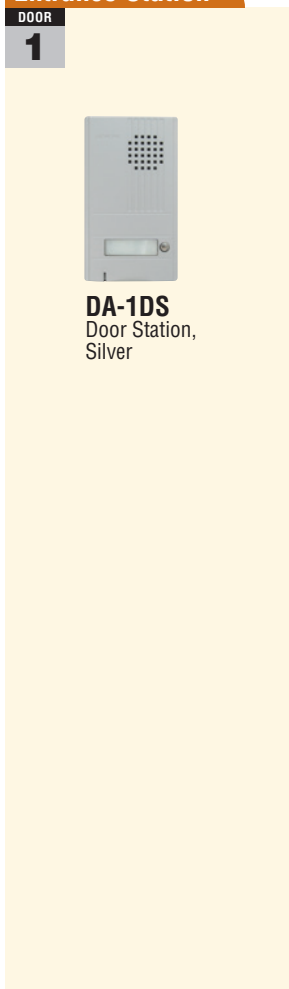
Shielded cable is recommended.



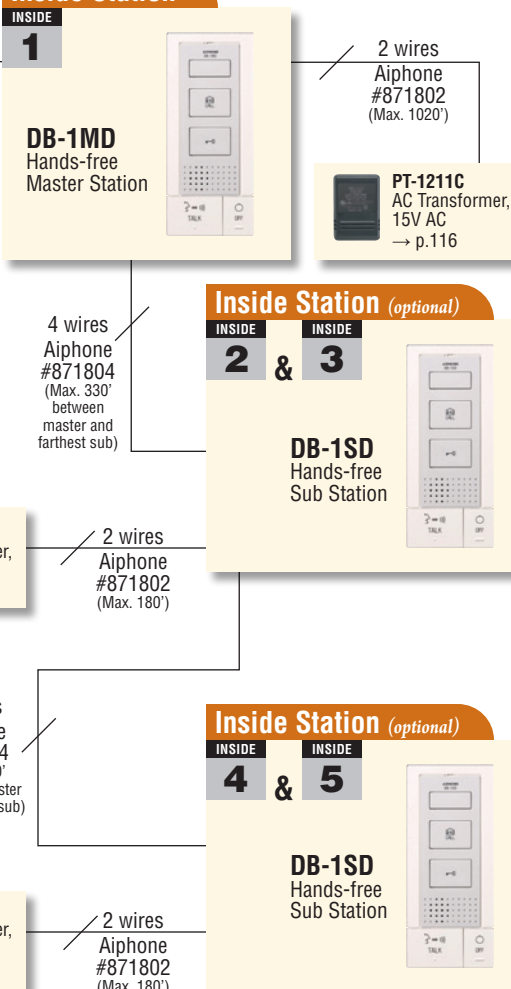
*Capacitor = NP-25V



Entrance Station



Inside Station



Options & Accessories



Boxed Set

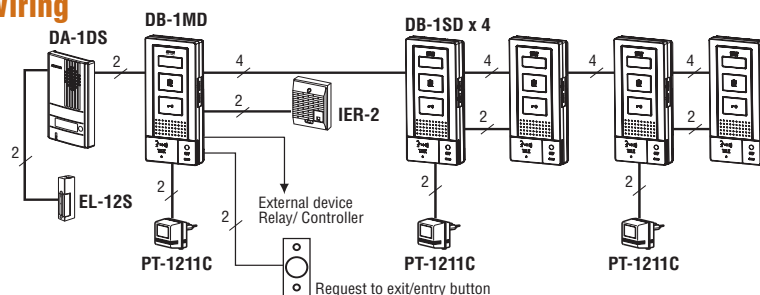


DBS-1A:
DB-1MD, DA-1DS, and power supply

Features

- Door strike powered by door station without the need of an additional transformer or wiring
- Hands-free tenant station
- Service button to control an external device
- Call tone volume control with mute indicator
- All Call between tenant stations with room to room hands-free communication
- Backlit directory on door station

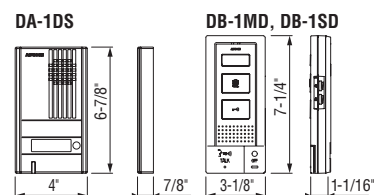
Wiring



Specifications

- | | |
|---------------|---|
| Power Source | 15V AC - Use AC transformer
PT-1211C, 120V
(1 required per master station and
1 required per 2 sub stations) |
| Communication | Hands-free or PTT |
| Door Release | Voltage available: 9.5 ~ 20V AC, 70Ω or more - Use EL-12S |
| Wiring | Door to master: 2-conductor
Master to sub: 4-conductor
Between subs: 4-conductor + 2-conductor when sharing power |
| Distance | Door to master: 360'(22AWG) 1020'(18AWG)
Master to farthest sub: 330'(22AWG) 330'(18AWG) |
| Wire Type | Door to master: Aiphone #822202 or Aiphone #871802
Between masters/subs: Aiphone #812205 or Aiphone #871804 |

Unit Dimensions




LEM-1DL & LEM-1DLC


Access Sentry

Door Stations - Select 1 unit


DOOR 1




LE-D
Door Station, plastic cover, surface mount
→ p.103




LE-SS-1G
Door Station, stainless steel, flush mount
→ p.103




LE-DA
Door Station, stainless steel faceplate, flush mount
→ p.103




LE-SS
Door Station, vandal resistant, stainless steel, flush mount
→ p.103



LE-SSR
Door Station, vandal resistant, stainless steel, red mushroom call button, flush mount
→ p.103




LE-SSV
Door Station with a built-in CCTV camera, stainless steel, flush mount
→ p.103




LS-NVP/C
Door Station, vandal resistant, powder-coated steel, flush mount
→ p.103

Inside Stations - Select 1 unit


INSIDE 1




LEM-1DL
Master Station with door release button



LEM-1DLC
Master Station, multi-master system, max. 4




PT-1210N*
AC Transformer, 12V AC (Required for EL-12S)
→ p.108




PT-1210N*
AC Transformer, 12V AC
→ p.108

Inside Stations: Select 1 unit (optional)




LEM-1DL
Master Station with door release button (Requires DAK-2S with each additional master)




LEM-1DLC
Master Station, multi-master system, max. 4


Options & Accessories




XP-SS
Accessory Station with an embedded Stand-Alone Card Reader with host controller
→ p.109




HID-SS
Accessory Station with Embedded HID® Proximity Card Reader
→ p.109




ICP-BR
Brass Faceplate for LE-DA
→ p.108




& ICP-AB
Antique Brass Faceplate for LE-DA
→ p.108




SBX-2G
Surface Mount Box for LE-DA, LE-SS, LE-SSR, and LE-SSV
→ p.105




SBX-2BH
Horizontal Mount Box for HID-SS and LE-SS, LE-SSR, or LE-SSV (Vertical mount also available - **SBX-2BV**)
→ p.105




SBX-NVP
Surface Mount Box for LS-NVP/C
→ p.106



EL-12S
Electric Door Strike, 12V AC/DC, 200mA (Requires PT-1210N)
→ p.108



RY-18L
Form C Door Release Relay
→ p.109



DAK-2S
Dual Master Adaptor Kit
→ p.118

Boxed Set



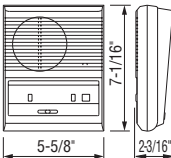
LEM-1DLS: LEM-1DL, LE-D, and power supply

Features

- Door release (N/O contact)
- Calling and 2-way communication
- Call tone and voice volume control
- AC 12~16V or DC 12~24V powered
- Any LE or LS series door station is compatible

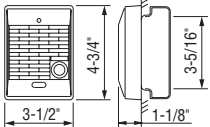
Unit Dimensions

LEM-1DL, LEM-1DLC



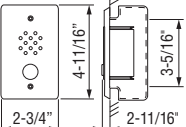
7-1/16" (height), 5-5/8" (width), 2-3/16" (depth)

LE-D



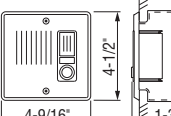
4-3/4" (height), 3-1/2" (width), 1-1/8" (depth)

LE-SS-1G



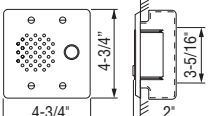
4-11/16" (height), 2-3/4" (width), 2-11/16" (depth)

LE-DA



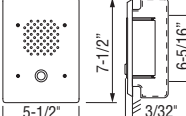
4-1/2" (height), 4-9/16" (width), 1-3/16" (depth)

LE-SS, LE-SSR, LE-SSV



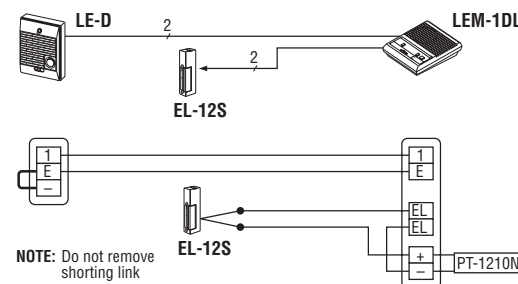
4-3/4" (height), 4-3/4" (width), 2" (depth)

LS-NVP/C



7-1/2" (height), 5-1/2" (width), 3/32" (depth)

Wiring



Specifications

- Power Source** 12~16V AC - Use PT-1210N
12~24V DC, 200mA
- Communication** When called by tone, push TALK to reply, push door release button to release door and push OFF for standby
- Door Release** Contact rating: 30V AC or DC, 1A
- Wiring** Door/Sub to master: 2-cond., overall shield
- Distance** Door/Sub to farthest master: 650' (22AWG) 1,600' (18AWG)
- Wire Type** Aiphone #822202

Door/Sub Stations: MIX & MATCH up to 3 TOTAL LEM units

DOOR/SUB
3



LE-D
Door Station,
plastic cover,
surface mount
→ p.103



LE-SS-1G
Door Station,
stainless
steel, flush
mount
→ p.103



LE-DA
Door Station,
stainless steel
faceplate,
flush mount
→ p.103



LE-SS
Door Station,
vandal resistant,
stainless steel,
flush mount
→ p.103



LE-SSR
Door Station, vandal
resistant, stainless
steel, red mushroom
call button, flush mount
→ p.103



LE-SSV
Door Station with
a built-in CCTV
camera, stainless
steel, flush mount
→ p.103



LS-NVP/C
Door Station,
vandal resistant,
powder-coated
steel, flush mount
→ p.103

Interior Use Only



LE-A (Shown)
Sub Station,
surface mount
→ p. 58



LE-B (Shown)
Sub Station,
semi-flush mount
→ p. 59



LE-A3 (Shown)
3-Call Sub
Station, surface
mount
→ p.58



BA-1
Paging
Adaptor
→ p.113

LE-AN
Privacy
Sub Station,
surface mount
→ p. 58

LE-BN
Privacy Sub
Station, semi-
flush mount
→ p.59

LE-AN3
3-Call Privacy
Sub Station,
surface mount
→ p.58

Inside Stations - Select 1 unit

INSIDE
1



LEM-1*
1-Call Master
Station, surface
mount



LEM-3**
3-Call Master
Station, surface
mount

* Use LEM-1 when
1 Door or Sub
Station is used

** Use LEM-3 when
2 or 3 Door or Sub
Stations are used

2 wires
Aiphone
#822202
(Max. 650'
between master
and farthest sub)

2 wires

SKK-620B
Power Supply,
6V DC
→ p.116

Options & Accessories



XP-SS
Accessory Station
with an embedded
Stand-Alone Card
Reader with host
controller
→ p.109



HID-SS
Accessory
Station with
Embedded
HID® Proximity
Card Reader
→ p.109



ICP-BR
Brass Faceplate
for LE-DA
→ p.108



ICP-AB
Antique Brass
Faceplate for
LE-DA
→ p.108



SBX-1G
Surface
Mount Box for
LE-SS-1G
→ p.105



SBX-2G
Surface Mount
Box for LE-DA,
LE-SS, LE-SSR,
and LE-SSV
→ p.105



SBX-2BH
Horizontal Mount Box
for HID-SS and LE-DA,
LE-SS, LE-SSR or
LE-SSV (Vertical mount
also available - SBX-2BV)
→ p.105

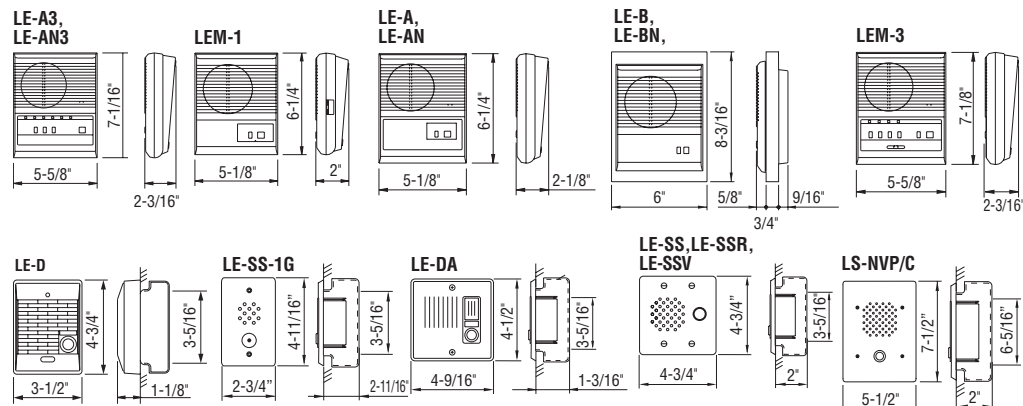


SBX-NVP
Surface
Mount
Box for
LS-NVP/C
→ p.106

Features

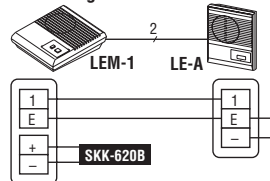
- Open voice communication
- Push-to-talk at master and hands-free at remote
- LE Sub stations - either door or room sub units
- Voice volume control

Unit Dimensions

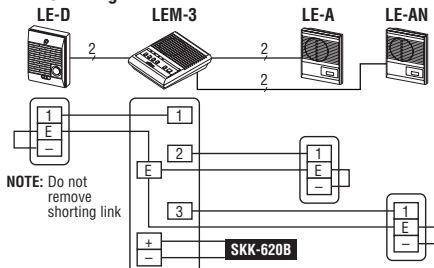


Wiring

LEM-1 Wiring

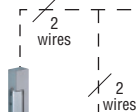


LEM-3 Wiring

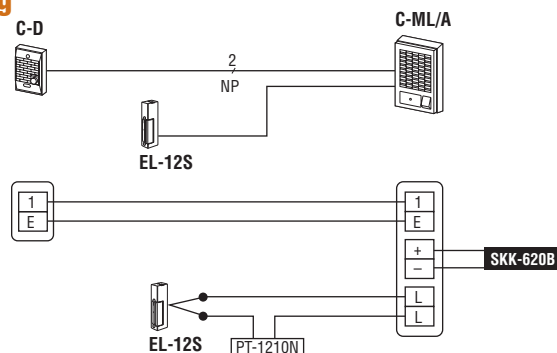


Specifications

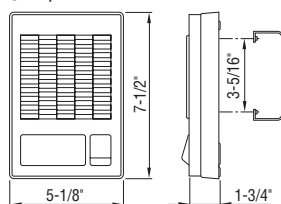
Power Source	6V DC, 200mA - use SKK-620B
Communication	Sub calls in with tone, push TALK button to reply, sub called by tone or voice, hands-free at sub (with LEM-3: LED, 20 sec., push selector button)
Communication Output	350mW output
Wiring	Door/Sub to master: 2-cond., overall shield
Distance	Door/Sub to farthest master: 650'(22AWG) 1,600'(18AWG)
Wire Type	Aiphone #822202 or Aiphone #821802

Door StationDOOR
1**C-D**
Door Station, plastic,
surface mount
(Not available separately)**Inside Station**INSIDE
1**C-ML/A**
Master Station,
plastic, surface mount2 wires
Aiphone
#822202
(Max. 245'
between door and
farthest master)**EL-12S**
Door
Strike**PT-1210N**
AC Transformer,
12V AC (Required
for EL-12S)2 x 2 wires
Aiphone
#822202
(Max. 245'
between door and
farthest master)**Inside Station (optional)**INSIDE
2**C-ML/A**
Master Station,
plastic, surface mount
(Includes DAK-2S)2 wires
Aiphone
#822202**SKK-620B**
Power Supply,
6V DC
→ p.116
or
4 "C" Batteries**Options & Accessories****EL-12S**
Electric Door Strike,
12V AC/DC, 200mA
(Requires PT-1210N)
→ p.108**Boxed Sets****C-123L/A - Single Master Set:**
C-D, C-ML/A**C-123LW - Dual Master Set:**
C-D, (2) C-ML/A's, DAK-2S**Features**

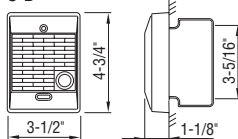
- Open voice door answering with door release
- Adjustable communication volume
- Automatically turns off in 20 seconds
- Batteries or 6V DC power supply (1 per master)
- Any LE or LS Series door station can be used to replace the C-D
- LE-D is physically identical to C-D
- Second inside room station (separate power supply required)

Wiring**Unit Dimensions**

C-ML/A



C-D

**Specifications**

- Power Source** 6V DC - Use SKK-620B or 4 "C" Batteries
- Communication** Door calls in with 2-tone chime, not adjustable, push TALK button to reply, release-to-listen, power automatically shuts off circuit
- Door Release** Contact rating: 50V AC @ 1A
- Wiring** Door to master: 2-cond., overall shield
Between masters: 2-cond., overall shield
- Distance** Door to farthest master: 245' (22AWG) 490' (18AWG)
- Wire Type** Aiphone #822202 or Aiphone #821802

Door Station

DOOR 1



CC-DA
Door Station
(Not sold separately)

Inside Station

INSIDE 1



CC-1M
Master Station
(Not sold separately)

2 wires
Aiphone
#822202
(Max. 245'
between door and
farthest master)

2 wires
Aiphone
#822202



PT-1210N
AC Transformer,
12V AC
→ p.108

Boxed Set

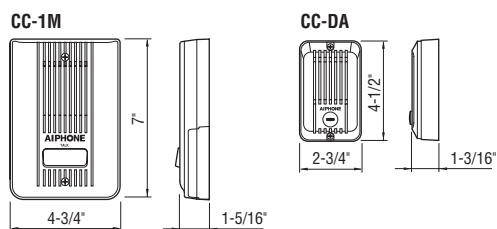


CCS-1A - Single Master Set:
CC-DA, CC-1M

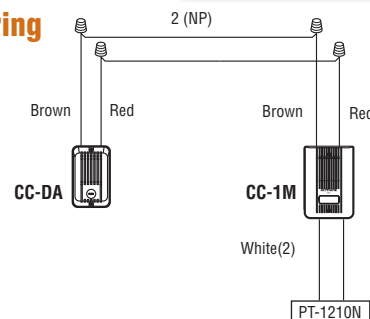
Features

- Push-to-talk door answering with automatic shut-off
- Backlit CALL button
- CHIME and VOICE volume controls
- Powered by AC transformer PT-1210N

Unit Dimensions



Wiring



Specifications

- Power Source** 12~16V AC - Use AC transformer PT-1210N (with no-load voltage rating: 20V or less)
- Communication** 2-tone chime, push TALK to reply, hands-free at door, times out in 15 sec. after TALK is pushed
- Wiring** Door to master: 2-cond., overall shield
- Distance** Door to master: 245'(22AWG) 590'(18AWG)
- Wire Type** Aiphone #822202 or Aiphone #821802

IM Series

Security Window System Set

Window Station

WINDOW

1

IAI-100

Acoustic Kit Includes:
1 DR-100 Driver Unit and
1 AI-100 Acoustic I/O
Tube with noise
cancelling microphone



Inside Station

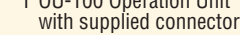
INSIDE

1

IME-100
Gooseneck
Microphone
(Sold separately)
→ p.118



IMU-100
Master Kit Includes:
1 MU-100 Main Unit and
1 OU-100 Operation Unit
with supplied connector



2 wires
Aiphone
#822202
(Max. 66")

2 wires
Aiphone
#821802
(Max. 66")

2 wires
Aiphone
#821802
(Max. 66")

PS-2420UL
Power Supply,
24V DC, 2A
→ p.116



Options & Accessories

IAX-100
Acoustic Tube
Extension,
39-3/8"
→ p.118



ISE-100
Proximity
Sensor
→ p.118



IME-150
Optional
Microphone
→ p.118



Boxed Set

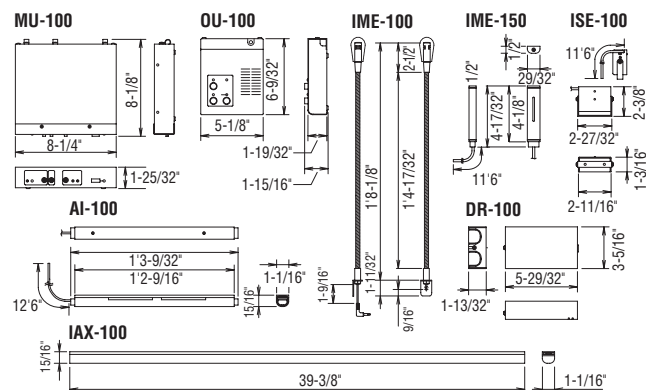
IM Series Box Set

IM-1: IMU-100, IAI-100, IAX-100,
IME-100, ISE-100, and power supply

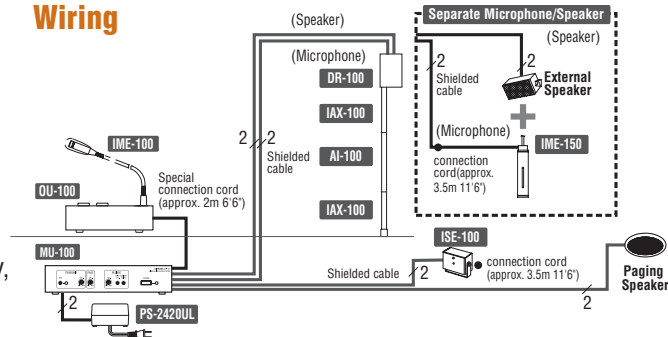
Features

- Inconspicuous units do not obscure faces of those approaching a ticket/customer window for added visibility and security
- Flexible gooseneck microphone can be adjusted to virtually any position
- Computer style headset can be used (not supplied by Aiphone)
- Uses voice-actuated communication (VOX) system, requiring no additional operations during conversation
- When the TALK switch is off, the Operation Unit is put on standby, but sound from public side is still heard at reduced volume
- By linking the system to a motion sensor, communication mode is automatically activated when a customer is present

Unit Dimensions



Wiring



Specifications

- Power Source** 24V DC, 120mA standby, 780mA max.
Use PS-2420UL
- Communication** Voice-actuated communication (VOX) or simplex
Transmit output: 3W 4Ω
Receive output: 1.5W 16Ω
Impedance: 32Ω
- Headset** Φ3.5mm plug - Impedance: 32Ω
Rated input: 40mW or more
Max. input: 100mW or more
- External & Paging Speaker** Impedance: 4 to 8Ω,
Rated input: 3W or more
Max. input: 6W or more
- Wiring** DR-100 to MU-100: 2 x 2-cond., overall shield
- Wire Type** Aiphone #822202 or Aiphone #821802

An Industry First! - Acoustic Tube System for Security Ticket Windows

- Movie Theaters
- Arenas/Amphitheaters
- Sport Stadiums
- Theme Parks
- Payday Loan Centers
- Train/Transportation Stations
- Courthouses & City Halls
- Banks & Credit Unions
- Parking Garages
- Police Stations
- Embassies & Consulates
- Pharmacies

1 - Acoustic Kit (IAI-100)

Covers a wide frequency band -

The use of an acoustic tube system ensures clear sound quality at an optimum volume

Designed with security in mind -

Slender tube prevents the field of vision from being obstructed

No ambient noise means more clarity -

Noise cancellation greatly reduces unwanted background noise, enabling crisp conversation

No visual obstruction -

Holes in the barrier glass are not necessary, allowing for easier installation, improved safety, and a direct view of customers

2 - Gooseneck Microphone (IME-100)

Completely flexible and practical -

This gooseneck type microphone is adjustable and can be set to accommodate any preference
(Headset can be used - not supplied by Aiphone)

3 - Operation Unit (OU-100)

Operator-friendly and easy to use -

Uses voice-actuated communication system (VOX), providing hands-free conversation

Standby mode keeps user aware -

When the TALK switch is off, this unit is put on standby, allowing sound from the public side to be heard at a reduced volume so users will know when someone is present

4 - Main Unit (MU-100)

It all goes back to the "brain" -

The main unit is the source of functionality for all the other devices in the IM Series

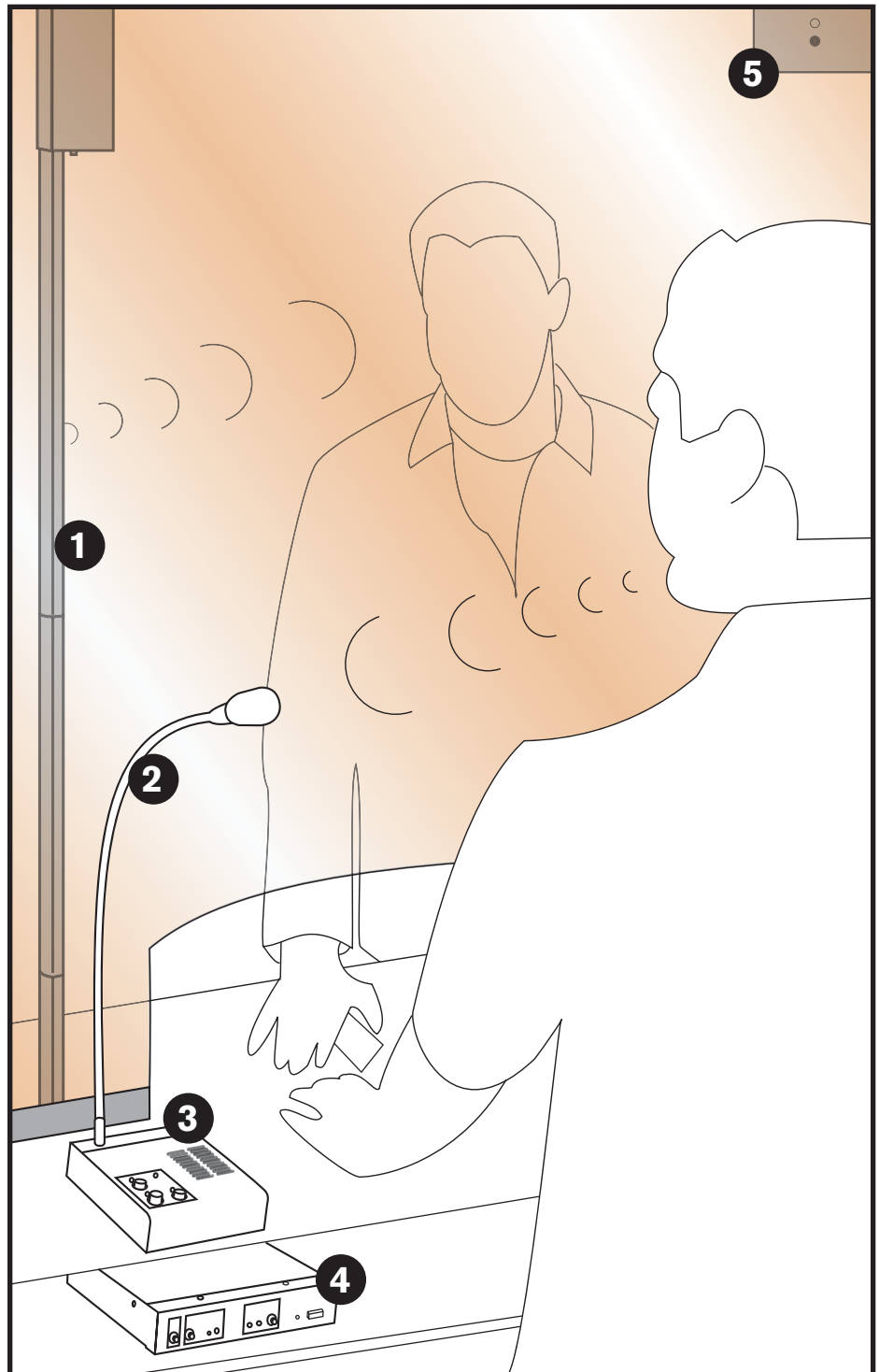
Power and volume attenuation controls are also located on this device

Where applicable, a paging system can be wired back to the main unit
(Paging system is separate, additional equipment required)

5 - Proximity Sensor (ISE-100)

Instantly activate communication -

An optional proximity sensor (ISE-100) automatically prompts communication when a customer approaches



IE-8 Series

Chime Tone Intercom System

Door Stations - Select 1 unit

DOOR 1

IF-DA
Door Station, plastic cover, surface mount
→ p.102

AX-DM
Door Station, plastic cover, mullion surface mount
→ p.96

IE-DC
Door Station, plastic and aluminum cover, surface mount
→ p.102

IE-JA
Door Station, stainless steel faceplate, flush mount
→ p.102

IE-SS
Door Station, vandal resistant, stainless steel, flush mount
→ p.102

IE-SSR
Door Station, vandal resistant, stainless steel, red mushroom call button, flush mount
→ p.102

IE-SSV
Door Station, vandal resistant, stainless steel, flush mount with a built-in CCTV camera
→ p.102

Door Stations - Select 1 unit (optional)

DOOR 2

IF-DA
→ p.102

AX-DM
→ p.96

IE-DC
→ p.102

IE-JA
→ p.102

IE-SS
→ p.102

IE-SSR
→ p.102

IE-SSV
→ p.102

Inside Station

INSIDE 1

IE-8MD
6-Call Master Station

2 wires
Aiphone #822202 (Max. 500')

EL-12S
Door Strike

2 wires

PT-1210N
AC Transformer, 12V AC
(Required for EL-12S)

2 wires

2 wires
Aiphone #822202 (Max. 33')

PT-1210N
AC Transformer, 12V AC
→ p.108

4 wires
Aiphone #812205 (Max. 245' between master and farthest sub)

Inside Station - Select up to 5 units (optional)

INSIDE 2 ~ 6

IE-8HD
6-Call Sub Master Station

2 wires
Aiphone #822202 (Max. 500')

EL-12S
Door Strike

2 wires

PT-1210N
AC Transformer, 12V AC
(Required for EL-12S)

Options & Accessories

XP-SS
Accessory Station with an embedded Stand-Alone Card Reader with host controller
→ p.109

HID-SS
Accessory Station with Embedded HID® Proximity Card Reader
→ p.109

ICP-BR
Brass Faceplate for IE-JA
→ p.108

ICP-AB
Antique Brass Faceplate for IE-JA
→ p.108

SBX-2G
Surface Mount Box for IE-JA, IE-SS, IE-SSR, and IE-SSV
→ p.105

SBX-2BH
Horizontal Mount Box for HID-SS and IE-SS, IE-SSR, or IE-SSV (Vertical mount also available - **SBX-2BV**)
→ p.105

EL-12S
Electric Door Strike, 12V AC/DC, 200mA
(Requires PT-1210N)
→ p.108

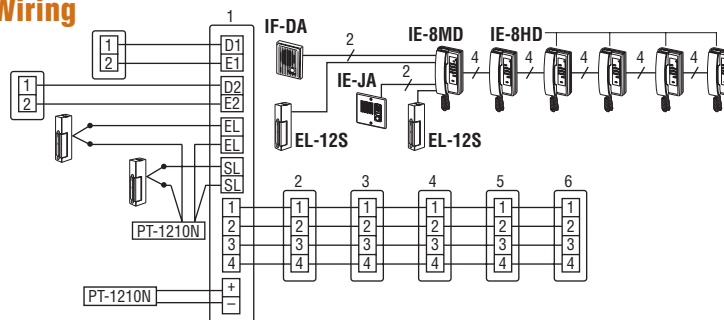
RY-ES
External Signaling Relay
→ p.110

RY-AC/A
External Signaling Relay
→ p.110

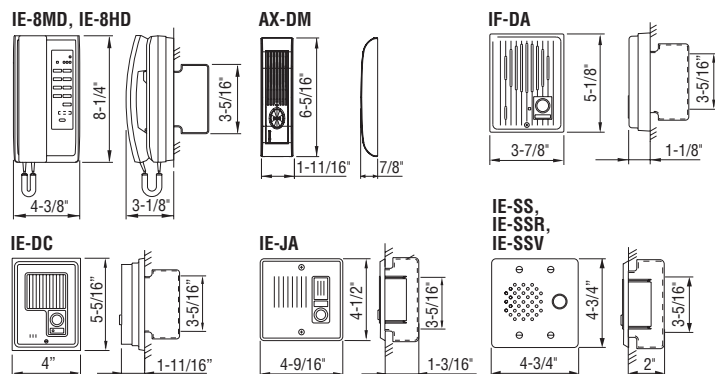
Features

- Two doors with Selective Door Release
- Room to room calling or All Call
- Easy 4 conductor wiring between handsets
- 2 wires to door stations, same as doorbell
- External doorbell can be added
- AC or DC powered (12 ~ 16V AC or 12 ~ 18V DC)

Wiring



Unit Dimensions



Specifications

- Power Source** 12~16V AC - Use AC transformer PT-1210N
12~18V DC, 500mA
- Communication** Door calls in with 4 or 2-tone chime and LED, pick up any handset to reply, push 1-6 to call other station with pre-tone and voice or All Call, single channel, common talk system
- Door Release** Contact rating: 24V AC/DC, 350mA
- Wiring** Door to master: 2-cond.
Master to subs: 4-cond.
- Distance** Door to master: 500'(22AWG) 1,180'(18AWG)
Master to farthest sub: 245'(22AWG) 580'(18AWG)
- Wire Type** Door to master: Aiphone #822202
Master to farthest sub: Aiphone #812205

MASTER
1

SUB
3

AT-406 Series

Handset to Handset

Master Station

MASTER
1



AT-206
Master Station,
white (Not sold
separately)

2 wires
Aiphone
#822202
(Max. 2,300')

(Max. 12')



SKK-620B
Power Supply,
6V DC
→ p.116 or
4 "AA" Batteries

Sub Station - Select up to 3 units

SUB
1 ~ SUB
3



AT-306
Sub Station,
white

Options & Accessories

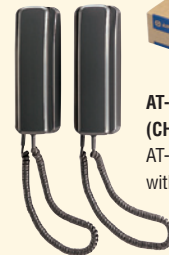


TAR-3
External
Signaling Relay
(Requires SKK-620B)
→ p.117

Boxed Sets



AT-406 (WHITE):
AT-206, AT-306

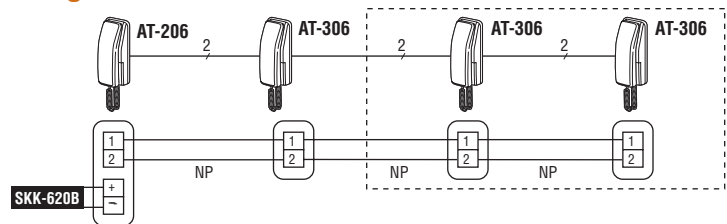


**AT-406B/A
(CHARCOAL GRAY):**
AT-206B, AT-306B,
with 4' coil cord

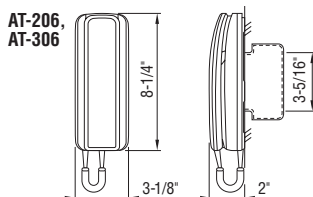
Features

- Call button (master) rings all the subs
- Up to 2 additional subs can be added (AT-306)
- Power supply or battery powered
- Sub(s) ring master only

Wiring



Unit Dimensions










Specifications

- Power Source** Use SKK-620B or 4 "AA" Batteries, 6V DC, 120mA
- Communication** Push CALL button to ring all subs, pick up any phone, sub rings master only, common talk
- Wiring** Master to sub: 2-cond., overall shield
- Distance** 2-station set: 2,300'(22AWG) 5,250'(18AWG)
Master to 3rd sub: 1,350'(22AWG) 3,100'(18AWG)
- Wire Type** Aiphone #822202

TD-H Series

Selective Call Intercom

Door Stations: Select up to 2 Door Stations

DOOR 2	AX-DM	IF-DA	IE-DC	IE-JA	IE-SS	IE-SSR	IE-SSV
							
AX-DM Door Station, plastic cover, mullion surface mount → p.96	IF-DA Door Station, plastic cover, surface mount → p.102	IE-DC Door Station, plastic and aluminum cover, surface mount → p.102	IE-JA Door Station, stainless steel faceplate, flush mount → p.102	IE-SS Door Station, vandal resistant, stainless steel, flush mount → p.102	IE-SSR Door Station, vandal resistant, stainless steel, red mushroom call button, flush mount → p.102	IE-SSV Door Station with a built-in CCTV camera, stainless steel, flush mount → p.102	

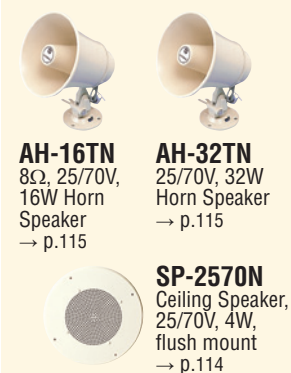
Door Station Adaptor



2 wires
Aiphone #822202
(Max. 500')

4 wires
Aiphone #812205

Paging Speakers



Paging Amplifiers: One Paging Amplifier required for each PD-1 / PD-2



2 wires
Aiphone #822202

2 wires
Aiphone #822202

Paging Adaptors: MIX & MATCH up to 25 TOTAL TD-H units & paging components



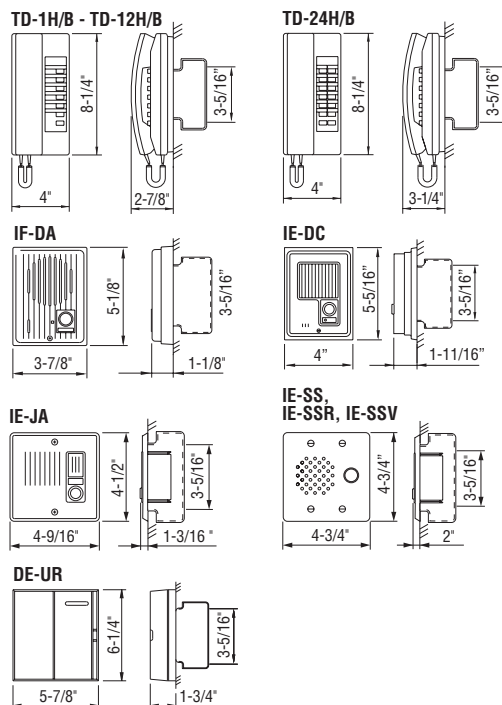
3 wires
Aiphone
#822203

* One Paging Amplifier required for each PD-1 / PD-2.
Use T3115BGM / T3130BGM / DMA2060 / DMA2120

Features

- Handsets available in 1, 3, 6, 12 and 24-station sizes
- Audio door stations can be added (1 or 2 doors)
- Max. of 23 inside stations when 2 door stations are installed
- Paging zone with optional talkback
- External signaling device when calling a handset (RY-AC/A required)

Unit Dimensions



Inside Stations: MIX & MATCH up to 25 TOTAL TD-H units & paging components

CHANNELS
25



TD-3H/B
3-Call Master Station

Other Master Stations

TD-1HL *
1-Call Master Station
with call LED and
tone-off switch

TD-3HL
3-Call Master Station
with call LED and
tone-off switch

TD-6HL
6-Call Master Station
with call LED and
tone-off switch

TD-12HL
12-Call Master Station
with call LED and
tone-off switch

* TD-1H/B and TD-1HL
cannot be used for
door answering



TD-1H/B*
1-Call Master Station

TD-6H/B (Shown)
6-Call Master Station

TD-12H/B
12-Call Master Station

TD-24H/B
24-Call Master Station

2 wires
Aiphone
#822202

PS-1225UL
Power Supply,
12V DC
→ p.116

Options & Accessories



XP-SS
Accessory Station
with an embedded
Stand-Alone Card
Reader with host
controller
→ p.109



HID-SS
Accessory Station
with Embedded
HID® Proximity
Card Reader
→ p.109



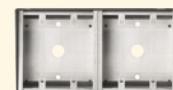
ICP-BR
Brass
Faceplate
for IE-JA
→ p.108



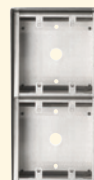
ICP-AB
Antique Brass
Faceplate for
IE-JA
→ p.108



SBX-2G
Surface Mount
Box for IE-JA,
IE-SS, IE-SSR,
and IE-SSV
→ p.105



SBX-2BH
Horizontal Mount
Box for HID-SS
and IE-SS, IE-SSR
or IE-SSV
→ p.105



SBX-2BV
Vertical Mount Box
for HID-SS and IE-SS,
IE-SSR, or IE-SSV
→ p.105



TDW-nA
Terminal Box
for master
station TD-nH/B
(n=1, 3, 6, 12 or 24)



RY-AC/A
External
Signaling
Relay
→ p.110

Wiring

COMPONENT	WIRE #	DESCRIPTION
IE Door Stations to DE-UR.....	822202	22 AWG, 2 conductor, overall shield
DE-UR to TD-H	812205	22 AWG, 5 conductor, non-shielded
TD-1H/B.....	812205	22 AWG, 5 conductor, non-shielded
TD-1HL.....	812205	22 AWG, 5 conductor, non-shielded
TD-3H/B.....	812210	22 AWG, 10 conductor, non-shielded
TD-3HL.....	812210	22 AWG, 10 conductor, non-shielded
TD-6H/B.....	812210	22 AWG, 10 conductor, non-shielded
TD-6HL.....	812210	22 AWG, 10 conductor, non-shielded
TD-12H/B.....	812216	22 AWG, 16 conductor, non-shielded
TD-12HL.....	812216	22 AWG, 16 conductor, non-shielded
TD-24H/B*.....	812216	22 AWG, 16 conductor, non-shielded


*Two runs of 812216 are required for full TD-24H/B functionality

Specifications


Power Source	12V DC, 70mA - Use PS-1225UL
Communication	Simultaneous through handset
Door Release	Contact rating: 30V AC/DC, 1A
Wiring	2 or 3 + number of TD-H/B in loop, non-shielded
Distance	IE Doors to DE-UR: 500'(22AWG) 1,200'(18AWG) Between masters: 2,000'(22AWG) 4,800'(18AWG)
Wire Type	See "Wiring" for details

Door / Sub Stations: MIX & MATCH up to 3 TOTAL MP-S Components


DOOR/SUB 3




LE-SS-1G
Door Station,
stainless steel,
flush mount
→ p.103




LE-SS
Door Station,
vandal resistant,
stainless steel,
flush mount
→ p.103




LE-SSR
Door Station,
vandal resistant,
stainless steel, red
mushroom call
button, flush mount
→ p.103




LE-SSV
Door Station
with built-in
CCTV camera,
stainless steel,
flush mount
→ p.103




LS-NVP/C
Door Station,
vandal resistant,
powder-coated
steel, flush mount
→ p.103




AS-3A
Desk / Wall
Sub Station



AH-108
8Ω, 10W
Horn
Speaker
→ p.115



AS-3N
Ceiling Speaker
Station
→ p.115



BA-1P
Paging
Adaptor
→ p.113

Master Stations - Select 1 unit

MASTER 1



MP-1S
1-Call
Master
Station



MP-3S
3-Call
Master
Station

Options & Accessories



XP-SS
Accessory
Station with
an embedded
Stand-Alone
Card Reader
with host
controller
→ p.109



HID-SS
Accessory
Station with
Embedded HID®
Proximity Card
Reader
→ p.109



SBX-1G
Surface
Mount Box
for LE-SS-1G
→ p.105



SBX-2G
Surface Mount Box
for LE-SS, LE-SSR,
or LE-SSV
→ p.105



SBX-2BH
Horizontal Mount Box for
HID-SS and LE-SS, LE-SSV
or LE-SSV (Vertical mount also
available - **SBX-2BV**)
→ p.105



SBX-NVP
Surface
Mount Box for
LS-NVP/C
→ p.106



N-EA
Round Frame
for AS-3N,
surface mount
→ p.115



NBZ-M
Square Frame
for AS-3N,
flush mount
→ p.115



NP-B
Indoor Call
Button, flush
mount



NP-W
Surface
Mount Box
for NP-B



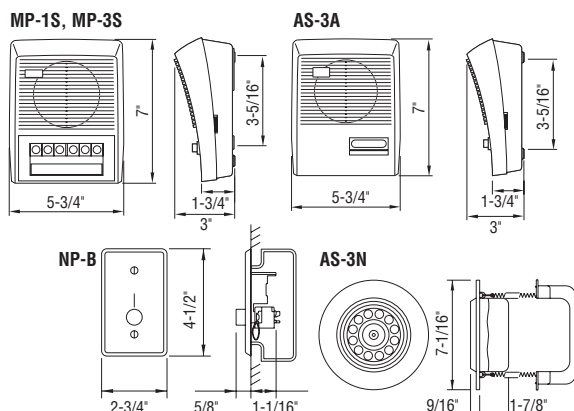
NP-25V
Non-polarized
capacitor,
33μF, 25V

Features

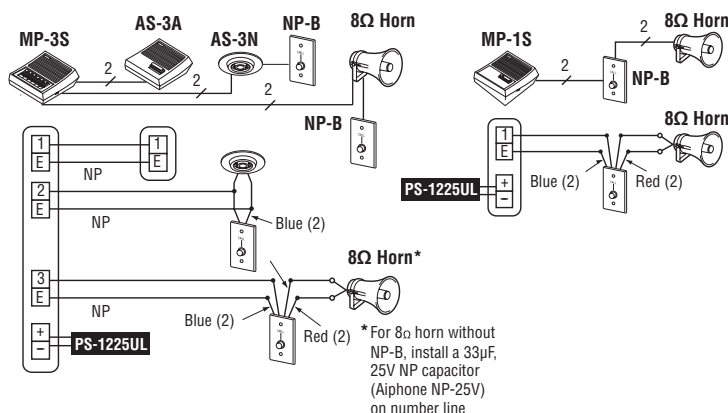
- Single master system with 1 or 3-call master station
- 2.5W output power for higher noise areas
- Hands-free reply from remote station
- 8Ω horn or speaker can be used as a sub
- Optional call button at sub station (NP-B)

Unit Dimensions

NOTE: For unit dimensions and details of the MP-S door stations see p.103



Wiring



Specifications

Power Source	12V DC - Use PS-1225UL
Communication	Sub calls in with tone and LED, 20 sec., on MP-3S, push sub selector and TALK to transmit, and release-to-listen
Communication Output	2.5W at 1KHz
Wiring	Doors/Subs/Horns to master: 2-cond., overall shield
Distance	Doors/Subs/Horns to master: 330' (22AWG) 720' (18AWG)
Wire Type	Doors/Subs/Horns to master: Aiphone #822202 or Aiphone #821802

Door / Sub Stations: MIX & MATCH up to 10 TOTAL AP-M Components

DOOR/SUB
10



LE-SS-1G
Door Station,
stainless steel,
flush mount
→ p.103



LE-SS
Door Station,
vandal
resistant,
stainless steel,
flush mount
→ p.103



LE-SSR
Door Station,
vandal resistant,
stainless steel,
red mushroom
call button, flush
mount → p.103



LE-SSV
Door Station
with built-in
CCTV camera,
stainless steel,
flush mount
→ p.103



LS-NVP/C
Door Station,
vandal
resistant,
powder-
coated steel,
flush mount
→ p.103



AS-3A
Desk / Wall
Sub Station



AH-16TN
8Ω, 25/70V,
16W Horn
Speaker
→ p.115



AS-3N
Ceiling
Speaker
Station
→ p.115



BA-1P
Paging
Adaptor
→ p.113

Master Stations - Select 1 unit

MASTER
1



AP-1M (Shown)
1-Call Master Station
AP-5M
5-Call Master Station



AP-10M
10-Call Master
Station

2 wires
Aiphone #822202
(Max. 330')

2 wires
Aiphone
#822202
(Max. 330'
per sub)

Master Stations - Select 1 unit (optional)

MASTER
2



AP-1M (Shown)
1-Call Master Station
AP-5M
5-Call Master Station



AP-10M
10-Call Master
Station

Options & Accessories



XP-SS
Accessory
Station with
an embedded
Stand-Alone
Card Reader
with host
controller
→ p.109



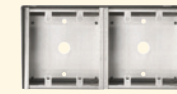
HID-SS
Accessory
Station with
Embedded
HID® Proximity
Card Reader
→ p.109



SBX-1G
Surface
Mount
Box for
LE-SS-1G
→ p.105



SBX-2G
Surface Mount
Box for LE-SS,
LE-SSR, or
LE-SSV
→ p.105



SBX-2BH
Horizontal Mount Box for
HID-SS and LE-SS, LE-SSR
or LE-SSV (Vertical mount also
available - **SBX-2BV**)
→ p.105



SBX-NVP
Surface
Mount
Box for
LS-NVP/C
→ p.106



N-EA
Round Frame
for AS-3N,
surface mount
→ p.115



NBZ-M
Square Frame
for AS-3N,
flush mount
→ p.115



NP-B
Indoor Call
Button, flush
mount



NP-W
Surface
Mount Box
for NP-B



NP-25V
Non-polarized
capacitor,
33μF, 25V

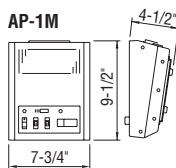
Features

- High output power for large or noisy areas
- 1, 5, and 10-call masters available
- Separate TRANSMIT and RECEIVE volume controls
- Variety of subs, or use 8Ω horn speaker with NP-25V capacitor

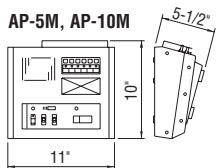
Unit Dimensions

NOTE: For unit dimensions of the LE Series door stations see p.103

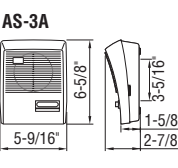
AP-1M



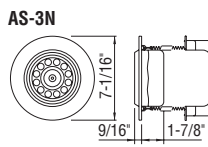
AP-5M, AP-10M



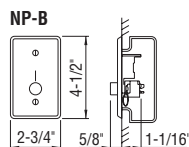
AS-3A



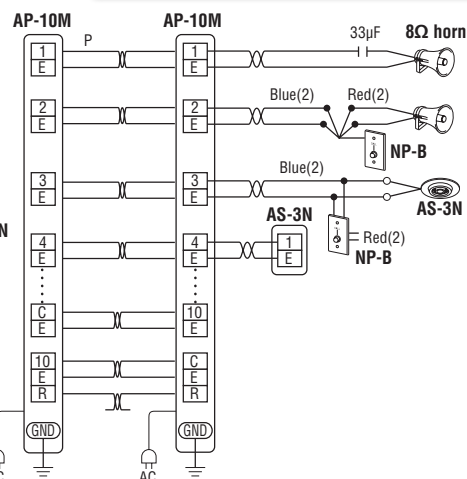
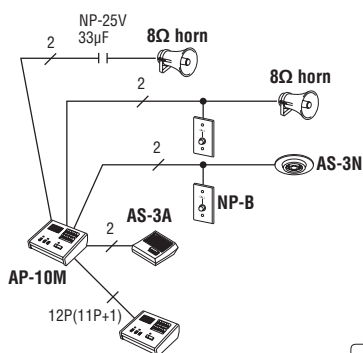
AS-3N



NP-B



Wiring



Specifications

Power Source	110~125V AC, 50/60Hz
Communication	Sub calls in with tone and LED, 15 sec., push selector and use TALK/LISTEN switch, All Call selectively to max. 5 subs, max. 10W transmit (adjustable), 300mW receive (adjustable)
Communication Output	10W
Wiring	Doors/Subs/Horns to master: 2-cond., overall shield
Distance	Doors/Subs/Horns to master: 490'(22AWG) 1,200'(18AWG)
Wire Type	Aiphone #822202 or Aiphone #821802

NEM Series

Lamp Memory Intercom

Door Stations: MIX & MATCH up to 40 TOTAL NEM components

DOOR/SUB
40

NE-DA
Door Station,
plastic cover,
surface mount
→ p.104



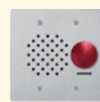
NE-SS-1G
Door Station,
stainless
steel, flush
mount
→ p.104



NE-JA
Door Station,
stainless steel
faceplate,
flush mount
→ p.104



NE-SS
Door Station,
vandal resistant,
stainless steel,
flush mount
→ p.104



NE-SSR
Door Station,
vandal resistant,
stainless steel,
red mushroom
call button,
flush mount
→ p.104



NE-NVP/C
Door Station,
vandal resistant,
powder-coated
steel, flush mount
→ p.104

2 wires
Aiphone #822202
(Max. 420' NE-JA Max. 360')

4 wires
Aiphone #822206
(Max. 420')



NE-NVP-RA
ADA Compliant Door Station,
vandal resistant, powder-coated
steel, red mushroom call button,
braille signage, flush mount
→ p.104

Sub Stations: MIX & MATCH up to 40 TOTAL NEM Doors/Subs

DOOR/SUB
40

NB-L
Ceiling Sub
Speaker
Station
→ p.115



NA-NE
Sub Station,
aluminum,
flush mount



NA-A
Wall / Desk
Sub Station



NA-AN
Wall / Desk
Sub Station
with privacy



NA-T/A
Handset
Sub
Station



NBR-7AS
Bathroom Pullcord,
moisture resistant

2 wires
Aiphone
#822202
(Max. 420')

Healthcare Options: Unlimited



NBR-8A
Bedside
Call Switch
(Requires
NBY-1A)



NBY-1A
Plug-in Wall
Jack (For
NBR-8A)



NAR-6A
Call Button



NBY-4A
Corridor
Call Light



NAR-2A
Call Reset
Button

2 wires
Aiphone
#822202

Paging Adaptor: MIX & MATCH Up to 40 TOTAL NEM Doors/Subs

DOOR/SUB
40

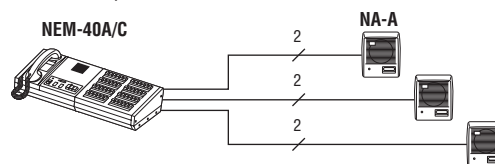
BA-1
Paging Adaptor
→ p.113

Features

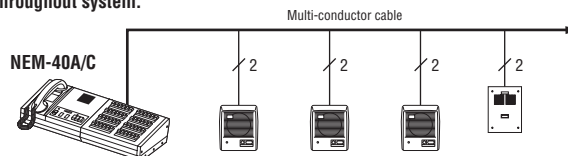
- Master in 10, 20, 30, and 40-station sizes (with or without handset)
- Built-in All Call
- Push-to-talk at master or use handset, hands-free at sub
- Group call up to 10 subs at a time
- Optional background music - requires NB-U (max. 40 stations) and 10W, 25V or 8Ω PA amp (T3115BGM)

Wiring

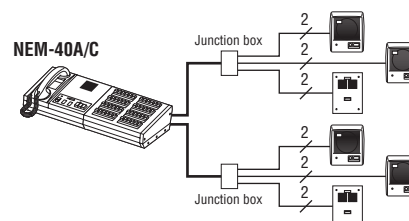
Run parallel cables to each NA sub station (in the same conduit):



Run multi-conductor cable throughout system:



Run multi-conductor cables up to junction box, then run parallel cables to each NA sub station:



MIX & MATCH Up to 40 TOTAL Sub Stations & up to 2 TOTAL Master Stations



Master Stations: MIX & MATCH up to 2 TOTAL NEM Master Stations

INSIDE
2



NEM-10/C
10-Call Master Station
NEM-20/C (Shown)
20-Call Master Station



NEM-30/C
30-Call Master Station
NEM-40/C (Shown)
40-Call Master Station



NEM-10A/C
10-Call Handset Master Station
NEM-20A/C (Shown)
20-Call Handset Master Station



NEM-30A/C
30-Call Handset Master Station
NEM-40A/C (Shown)
40-Call Handset Master Station

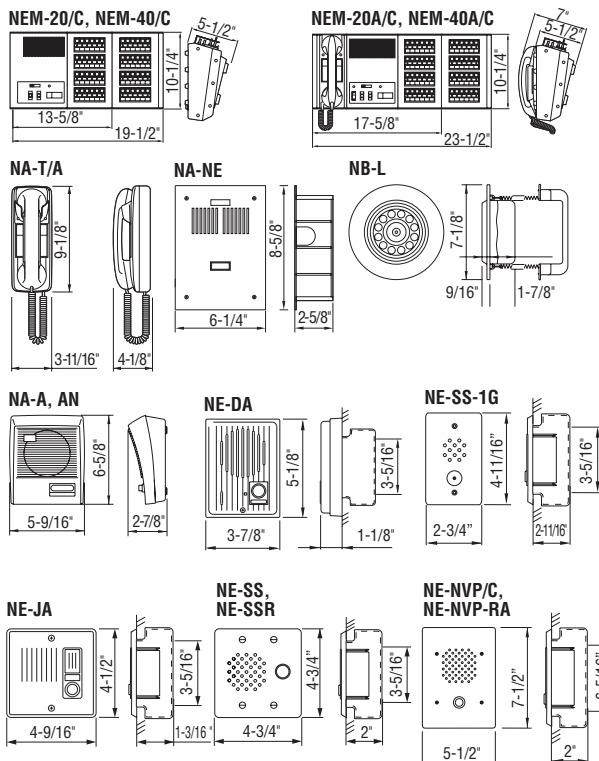
NOTE: When installing 2 masters, 1 NEW-5 required for every 5 door/sub stations

2 wires
Aiphone
#822202
(Max. 420')

2 wires
Aiphone
#822202

PS-2420UL
Power Supply,
24V DC, 2A
→ p.116

Unit Dimensions



Options & Accessories



XP-SS
Accessory Station
with an embedded
Stand-Alone Card
Reader with host
controller
→ p.109



HID-SS
Accessory
Station with
Embedded HID®
Proximity Card
Reader
→ p.109



ICP-BR
Brass
Faceplate
for NE-JA
→ p.108



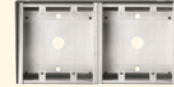
ICP-AB
Antique Brass
Faceplate for
NE-JA
→ p.108



SBX-1G
Surface
Mount
Box for
NE-SS-1G
→ p.105



SBX-2G
Surface Mount
Box for NE-JA,
NE-SS, and
NE-SSR
→ p.105



SBX-2BH
Horizontal Mount Box
for HID-SS and NE-SS
or NE-SSR (Vertical mount
also available - **SBX-2BV**)
→ p.105



SBX-NVP
Surface
Mount Box
for NE-NVP/C,
NE-NVP-RA
→ p.106



NBX-2
Surface Mount
Box for NA-NE
→ p.106



IER-2
Call
Extension
Speaker
→ p.108



RY-ES
External
Signaling
Relay
→ p.110



NEW-5
Dual Master
Call Adaptor
for NEM
(1 per 5 shared
stations - requires
PS-1225UL)
→ p.112



NB-U
Background
Music Adaptor
(When NEM includes
NEW-5 adaptor, NB-U
cannot be used)
→ p.112

Specifications

Power Source	24V DC, 2A - Use PS-2420UL
Calling	Master to sub: By voice only after pre-tone Sub to master: Call tone and LED, remaining lit until call is answered
Communication	Push-to-talk, release-to-listen or VOX with handset Hands-free at sub station
Communication Output	500mW max., adjustable All Call: 6W (10~20), 12W (30~40) Selectively up to 10 subs with TALK: 3W
Wiring	Doors/Subs to masters: 2-cond., overall shield NEW-5 to master: 10-cond., overall shield
Distance	Doors/Subs to masters: 420' (22AWG) 1,000' (18AWG) NE-JA to master: 360' (22AWG)
Wire Type	Doors/Subs to masters: Aiphone #822202 or Aiphone #821802

NHX Series

Nurse Call System (UL 1069 Listed)

Sub Stations: MIX & MATCH up to 10 PER TRUNK with up to 8 TRUNKS

Central Control Unit



NH-1SA/A (Shown)
Single-jack Bedside
Sub Station
→ p. 78

NH-1SA-ACB*
Sub Station with
built-in call button



NH-2SA/A
Dual-jack Bedside
Sub Station
→ p. 78

* Not UL 1069 Listed

(One call cord or dummy plug is required per jack on sub station)



NHR-8B (Shown)
Bedside Call Switch
→ p. 78

NHR-8A-L*
Bedside Call Cord
with latching call
button, gray



NHR-DP*
Dummy Plug
→ p. 78

* Not UL 1069 Listed



NHX-80X
Central Control Unit
→ p. 78



NHR-30K
30-Call Add-on
Truck Card
→ p. 78

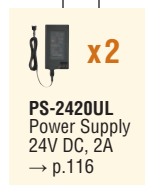
4P
Aiphone
#862208
(Max. 330' per
trunk line)

2 wires
Aiphone
#821802

2 wires
Aiphone
#821802

5P
Aiphone
#862210
(Max. 65')

4P
Aiphone
#862208
(Max. 165')



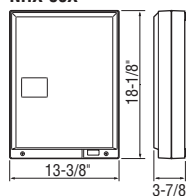
PS-2420UL
Power Supply
24V DC, 2A
→ p.116

Features

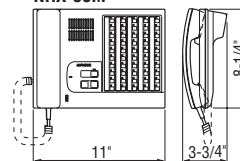
- One master and up to 80 patient stations
- Single and dual patient stations
- Multi-station capability per patient room
- Three types of call-ins from patient stations: routine call, bathroom call and cord-out trouble call, identified by tone and a blinking LED (with priority according to urgency and time of call)
- NHR-3TS common area call station is used for common areas
- Duty station for call annunciation in separate area
- Optional zone light (max. 4)

Unit Dimensions

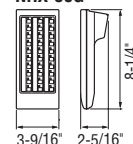
NHX-80X



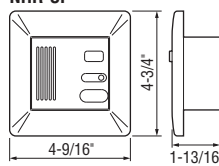
NHX-50M



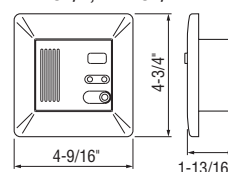
NHX-30G



NHR-SP



NH-1SA/A, NH-2SA/A



Central Control Unit



NHX-80X
Central Control Unit



NHR-30K
30-Call Add-on
Trunk Card

Features

- Compact slimline design
- Microprocessor control of all system functions
- 30 stations can be added with the NHX-30G (requires NHR-30K)
- All wire terminations are made inside with easy "screwless" wire connections

Specifications

Power Source Use PS-2420UL x 2

Calling Routine call, urgent bathroom call and cord-out trouble call (up to 5 calls can be displayed on the NHX-50M)

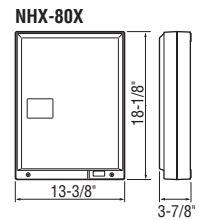
Communication Single and private talk channel, push-to-talk or handset voice actuation

Call-In Priority 1) Cord-out trouble call, 2) urgent bathroom call and NHR-3TS common area bathroom or staff call, 3) routine call, sub station call-ins on standby connected according to urgency level and time of call

Warning Tones 1) Line-off trouble at bedside or NHR-3TS and duty station (to stop tone on duty station, plug in 2-pin jumper to CN104 in CCU), 2) 90 sec. elapse timer: call tone goes up to HIGH level, 3) 90 sec. off-hook timer: steady tone will notify that handset is off-hook

Distance Subs to CCU: 165'(22AWG) - Duty station to CCU: 65'(22AWG) - CCU to master: 65'(22AWG)

Wire Type Sub/Duty station to CCU: Aiphone #862208 - CCU to master: Aiphone #862210



Master Station



NHX-50M
50-Call Master
Station

NHX-30G*
30-Call Add-on
Selector (Plugs
into NHX-50M)

* In order to
function, requires
NHR-30K to be
installed into
NHX-80X

Features

- Compact slimline design
- Routine call and bathroom call annunciated by slow or fast flashing LED and tone
- Auto-connect to next call-in priority (no need to select station)
- Alert tone sound when: call cord is pulled out of patient station, wires are disconnected at patient station, or handset is off-hook for more than 90 sec.
- Handset or push-to-talk communication, tone OFF button and desk mount

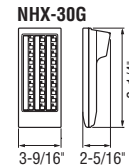
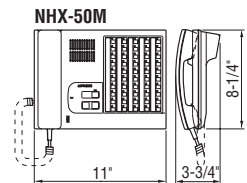
Specifications

Power Source Powered by CCU (NHX-80X)

Wiring 10-pin plug-in connector (to NHX-80X), provided with preset volume controls, can verify connection of all sub stations

Distance CCU to master: 65'(22AWG)

Wire Type CCU to master: Aiphone #862210



Sub & Duty Stations



NH-1SA/A
Single-jack
Bedside Sub
Station



NH-2SA/A
Dual-jack
Bedside Sub
Station



NHR-SP
Duty Station

(One call cord or dummy plug is
required per jack on sub station)



NHR-8B
Bedside Call
Switch



NHR-DP
Dummy Plug

Features

- Bedside station for calling and communication
- Used with NHR-8B call cord
- When call button is pushed, CALL LED is lit red, when master replies TALK LED is lit green, push CANCEL to reset the call, when NHX-50M calls in, pre-tone sounds and TALK LED is lit green
- Dummy Plug (NHR-DP) plugs into unused jack on bedside sub stations
- Duty Station (NHR-SP) acknowledges any station call with tone and blinking LED (use the NHX-50M to identify the caller or to answer the call)

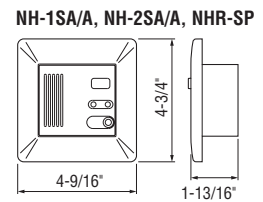
Specifications

Power Source Powered by CCU (NHX-80X)

Wiring NH-1SA/A and NH-2SA/A: Subs 1-10 setting on SW1, CN1 (6 pin) to sub trunk line, CN2 (8 pin) for NHR-7A, NHR-4A and zone light, NHR-SP: CN1 (6 pin) to NHX-80X (when NHR-SP is installed, unplug connector from CN104 on NHX-80X)

Distance Subs to CCU: 165'(22AWG) - Duty station to CCU: 65'(22AWG)

Wire Type Sub/Duty station to CCU: Aiphone #862208



Options & Accessories



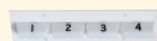
NHR-7A
Bathroom/Staff Pullcord



NHR-4A
Corridor Lamp with
red and white lamps



NHR-3TS
Common Area Call
Station with lights



NHR-3A-4
4-Zone Call Light

Features (NHR-7A)

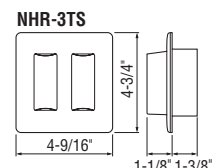
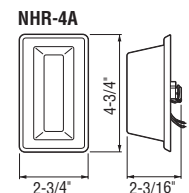
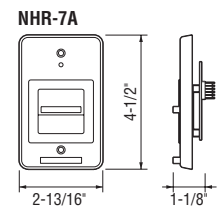
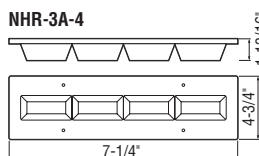
- Latching call switch
- Waterproof for bathroom areas
- Durable and strong nylon pullcord with pendant
- Can be used without cord as urgent call station (with NHR-3TS)
- LED "call placed" indicator
- Single-gang mounting

Features (NHR-4A)

- White lamp for bedside call, red lamp for bathroom call
- Easy wiring to patient station
- Single-gang mounting

Features (NHR-3A-4)

- 4 individual lamps
- Lamps indicate which zone or area has an unanswered call
- Easy 5 cond. wiring from NHX-80X
- Wall or ceiling mount



Inside Stations - Select 1 unit

STATIONS
1



MC-60/4A
Market Com
Master Station,
wall mount



MC-60/4B
Market Com
Master Desk
Station

Inside Stations: MIX & MATCH up to 60 TOTAL units

STATIONS
2 ~ **60**



MC-60/4A
Market Com
Master Station,
wall mount



MC-60/4B
Market Com
Master Desk
Station

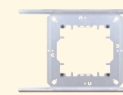
Options & Accessories



MC-S12
12" Checkstand
Pedestal for
MC-60/4A



MC-S23
23" Checkstand
Pedestal for
MC-60/4A



SSB-2
Ceiling Support
Bracket for
SP-2570N
→ p.114

7 wires
Aiphone #852207
(See wire distance in
specifications below)

7 wires
Aiphone #852207
(See wire distance in
specifications below)

Paging Adaptor



MC-A/A
Zone Paging
Adaptor
→ p.113

Paging Amplifiers - Select 1 unit

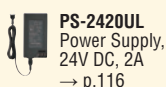


T3115BGM
15W Paging
Amplifier
→ p.114

DMA2060
60W Paging
Amplifier
→ p.114

T3130BGM
30W Paging
Amplifier
→ p.114

DMA2120 (Shown)
120W Paging
Amplifier
→ p.114



PS-2420UL
Power Supply,
24V DC, 2A
→ p.116

2 wires
Aiphone #822202
(Max. 16')

2 wires
Aiphone #822202
(Max. 500')

2 wires
Aiphone #821802

Paging Speakers



AH-16TN
8Ω, 25/70V, 16W
Horn Speaker
→ p.115



AH-32TN
25/70V, 32W
Horn Speaker
→ p.115



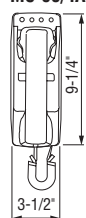
SP-2570N
Ceiling Speaker,
25/70V, 4W,
flush mount
→ p.114

Features

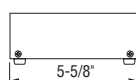
- Maximum 60 station paging and communication system
- Selective 4 talk channels with in-use LED's
- Conference call among 3 stations
- Music cutout during paging
- Reinforced modular coil cord on MC-60/4A

Unit Dimensions

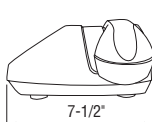
MC-60/4A



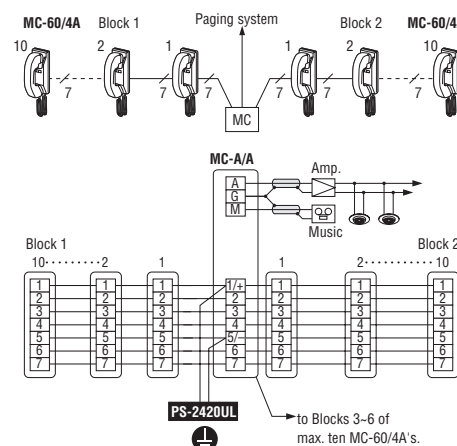
MC-A/A



MC-60/4B



Wiring



Specifications

- Power Source** 24V DC - Use PS-2420UL
- Communication** Pick-up and push channel selector 1~4 and page with PAGE button
Called party picks up and pushes lit LED channel button
- Wiring** 7 wires in loop, non-twisted, low capacitance (PE insulation)
- Distance** MC-A/A to farthest MC-60/4A or MC-60/4B* on block:
1,700'(22AWG) 4,000'(18AWG)
*Total cumulative wiring distance between
MC-60/4A or MC-60/4B: 5,000'(22AWG)
- Wire Type** Aiphone #852207



Multi-Tenant Intercoms





Identify building visitors

ENTRANCE 5	GUARD 2	TENANT 48	GH Series (Standard) MULTI-TENANT VIDEO ENTRY SECURITY.....	82
ENTRANCE 16	GUARD 4	TENANT 500	GH Series (Expanded) MULTI-TENANT VIDEO ENTRY SECURITY.....	84
ENTRANCE 5	GUARD 2	TENANT 100 <small>Direct Select</small>	GF Series MULTI-TENANT ENTRY SECURITY	86
DOOR 1	TENANT 1		DA-1DS SINGLE-TENANT ENTRY SECURITY	92
DOOR 1	TENANT 4		DA-4DS MULTI-TENANT ENTRY SECURITY	92
DOOR 1	TENANT 4		DB Series MULTI-TENANT HANDS-FREE ENTRY SECURITY	93

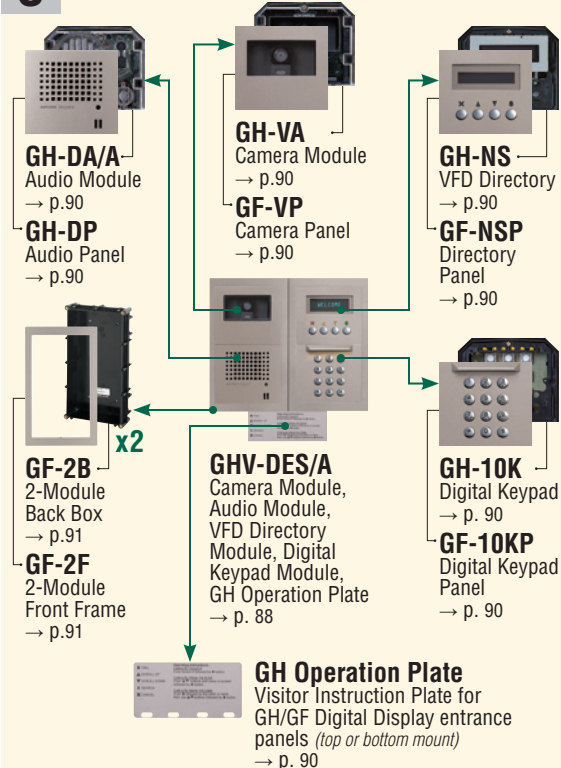
From 2 unit townhouses to 4 unit medical buildings to 500 unit high rise condominiums, our multi-unit systems can handle them all. Providing an alternative to complex telephone based, hard to program systems, these dedicated intercom units allow safe visitor entry in both audio only and audio video configurations.

GH Series - Standard System

Multi-Tenant Video Entry Security

Entrance Station: MIX & MATCH up to 5 TOTAL GH entrance stations

ENTRANCE 5 Audio/Video Digital Display - Sample Configuration

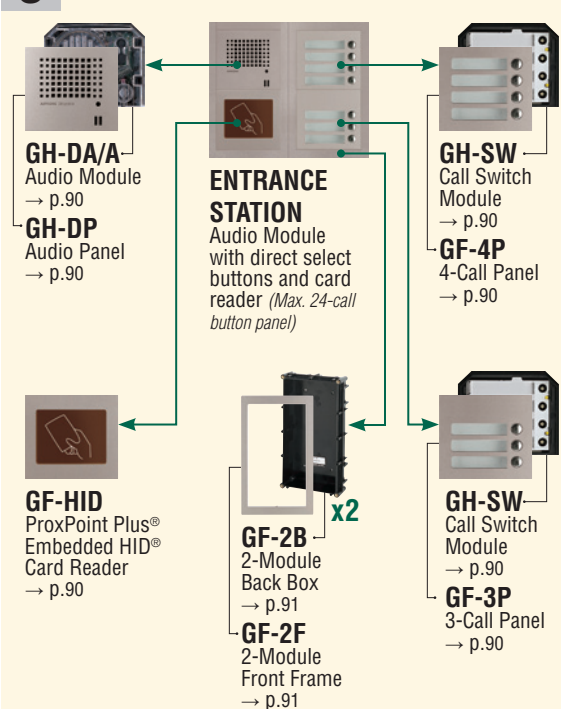


NEW Stainless Steel Entrance Panels Available! See **p.88**

2 / **PS-2420UL** Power Supply 24V DC, 2A → p.116

Entrance Station: MIX & MATCH up to 5 TOTAL GH entrance stations

ENTRANCE 5 Audio Direct Select - Sample Configuration



Video Aiphone #871802 1P / Video Aiphone #871802 1P /

GH-VBC Video Control Unit → p.90

PS-2420UL Power Supply 24V DC, 2A → p.116

Audio Aiphone #872002 1P / Audio Aiphone #872002 1P /

GH-BC Audio Control Unit → p.90

PS-2420UL Power Supply 24V DC, 2A → p.116

1P / Audio Aiphone #872002

Tenant Stations - Up to 48 tenant stations

TENANT 48 Max. 2 video & 2 audio only per tenant



GH-1KD Hands-free Video Monitor Tenant Station → p.88



GH-1KD-SW Hands-free Video Monitor Tenant Station with service button → p.88



GH-1AD Hands-free Audio Only Tenant Station → p.88

GH-1AD-SW Hands-free Audio Only Tenant Station with service button → p.88

Guard/Concierge - Up to 2 units

GUARD 2



1P / 2 wires Aiphone #872002 (Audio)
1P / 2 wires Aiphone #871802 (Power)

GH-MK Concierge Station → p.88



GH-MK Concierge Station (Shown with desk stand GFW-S) → p.88

PS-2420UL Power Supply 24V DC, 2A → p.116

NOTE: Maximum cumulative audio wire distance = 8,200 ft. If exceeded, contact Technical Support for system configuration assistance.

Unit Dimensions

See p.88 & p.90 ~ p.91

Tenant Stations - Up to 48 tenant stations

TENANT
48 Max. 2 video & 2 audio only per tenant

Video
Aiphone
#871802
1P



GH-1KD
Hands-free Video
Monitor Tenant
Station
→ p.88



GH-1KD-SW
Hands-free Video
Monitor Tenant
Station with service button
→ p.88

Audio
Aiphone
#872002
1P



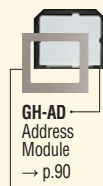
GH-1AD
Hands-free Audio Only
Tenant Station
→ p.88

GH-1AD-SW
Hands-free Audio
Only Tenant Station
with service button
→ p.88

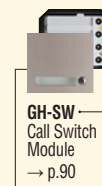
Options & Accessories



GH-HS
Optional
Handset
(Only used
with GH-1KD)
→ p.88



GH-AD
Address
Module
→ p.90



GH-SW
Call Switch
Module
→ p.90



GH-VAX
CCTV
Interface
Module
→ p.90



GF-HID-1
iCLASSTM
Embedded HID®
Card Reader
→ p.90



GF-AC
Access Control
Keypad Module
→ p.90



GH-10VS-2
Camera Module, Audio Module,
VFD Directory Module, Digital
Keypad Module, Stainless
Steel Cover
→ p.88



GH-10AS
Audio Module, VFD
Directory Module,
Digital Keypad Module,
Stainless Steel Cover
→ p.88



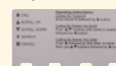
GF-nHBA
Hooded Box for
surface mounting
→ p.91



GF-nHA
Rain Hood
→ p.91



GF-OP2
2 Module
Postal Lock
→ p.91



GH Operation Plate
Visitor Instruction Plate
for GH/GF Digital Display
entrance panels (Included
with GHV-DES/A and GHA-DES/A)
→ p.90



GH-CCTV
CCTV Input Module
for GH-MK
→ p.88



GH-RY
External
Activation
Relay



KCW-D/B
Video output converter
to CCTV/DVR
→ p.112



GFK-PS
Panic Switch
with pullcord



GFW-S
Desk Stand
for GH-MK
→ p.118



MCW-S/A
Monitor Desk
Stand for
GH-1KD/AD
→ p.118



GH-4Z
4-Way Video
Distribution
Adaptor
→ p.90



W-DIN11
DIN Mounting
Rail for control
units
→ p.91

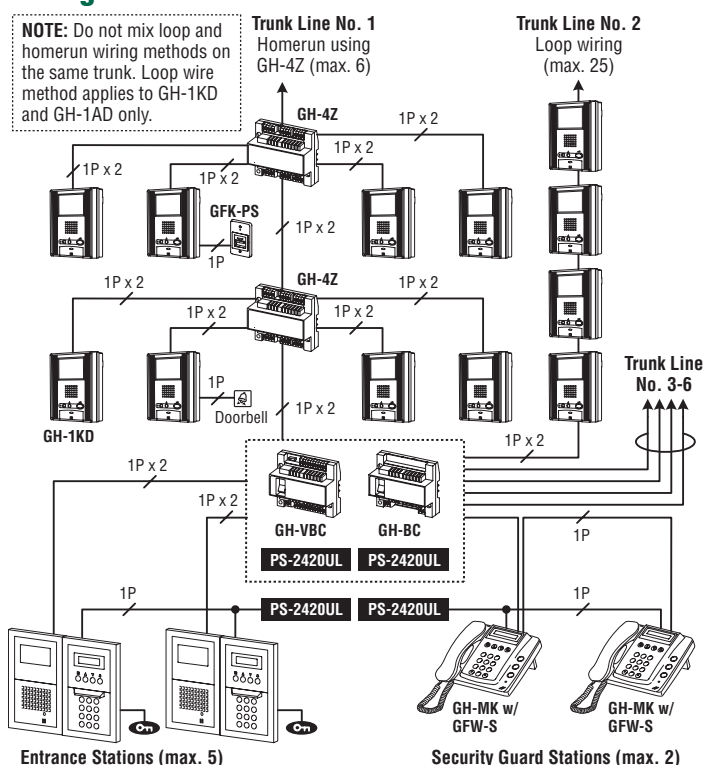
Features

- Link data allows for easy programming of multiple entrances/guard stations
- Up to 5 entrance panels, 2 guard stations and 48 tenant stations
- Up to 2 video and 2 audio only stations per tenant (each counts toward total capacity)
- Simple wiring with only 2 common wires for audio
- Access control from inside station to calling entrance (door release)
- Optional individual doorbell to ring tenant stations
- Door release timer (momentary ~ 20 seconds)
- Security guard station can be included to provide communication between office/lobby and tenants
- Optional panic call switch for emergency calling to guard/concierge
- Optional postal lock module, allowing easy entry for postal and delivery workers
- Security guard can screen calls from visitors (Reception Mode)

Features (Audio/Video) - Includes all audio features plus:

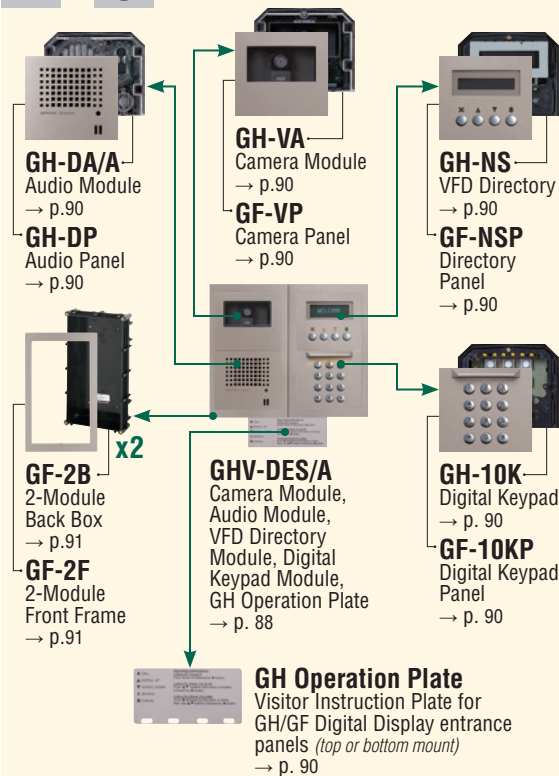
- Both audio/video and audio-only entrance panels can be combined in the same system
- LED's at door allow use in low light conditions
- Only 2 additional wires are required to add video
- Tenant can view entrance panel by pushing "key" button

Wiring GH Standard Configuration Sample



Entrance Stations - Max. 8 entrances (Common Line 1)

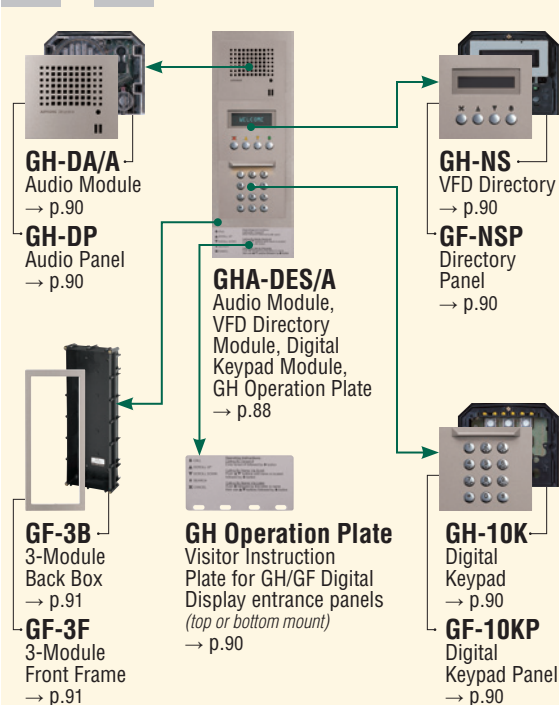
ENTRANCE 1 ~ 8 **Audio/Video Digital Display - Sample Configuration**
Audio Only or Audio/Video Entrance Stations can be used



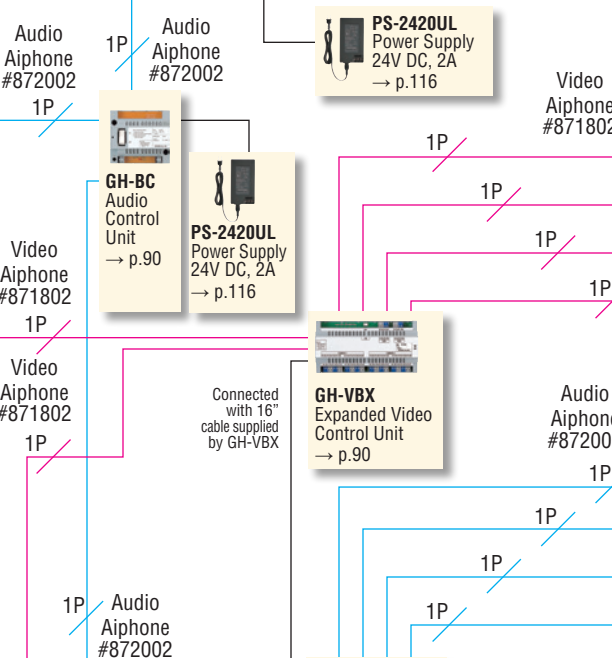
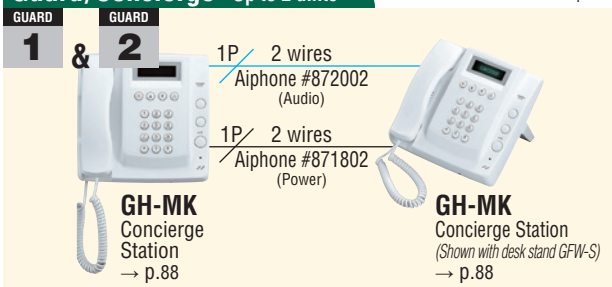
NEW Stainless Steel Entrance Panels Available! See **p.88**

Entrance Stations - Max. 8 entrances (Common Line 2)

ENTRANCE 9 ~ 16 **Audio Digital Display - Sample Configuration**
Audio Only or Audio/Video Entrance Stations can be used

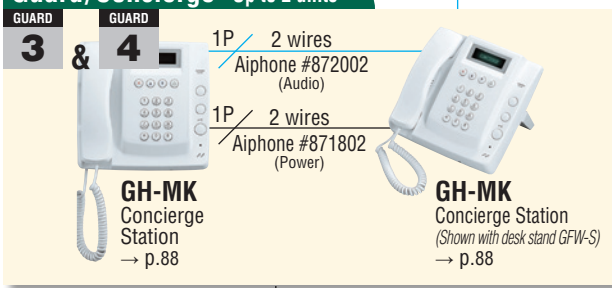


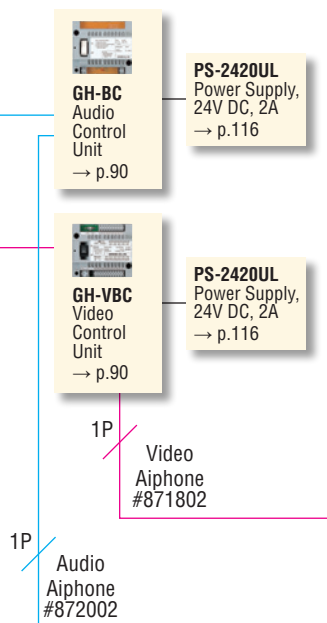
Guard/Concierge - Up to 2 units



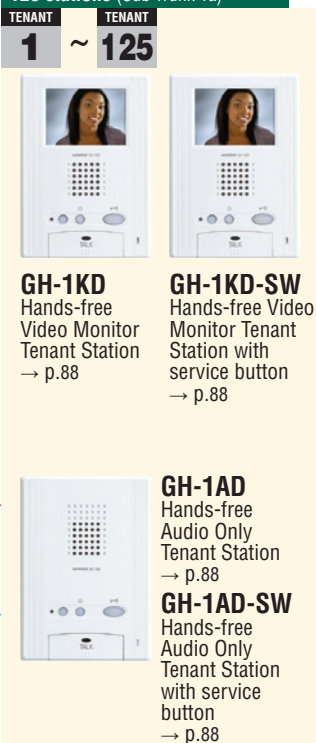
Common Line 2 Entrance Stations for VIDEO

Guard/Concierge - Up to 2 units

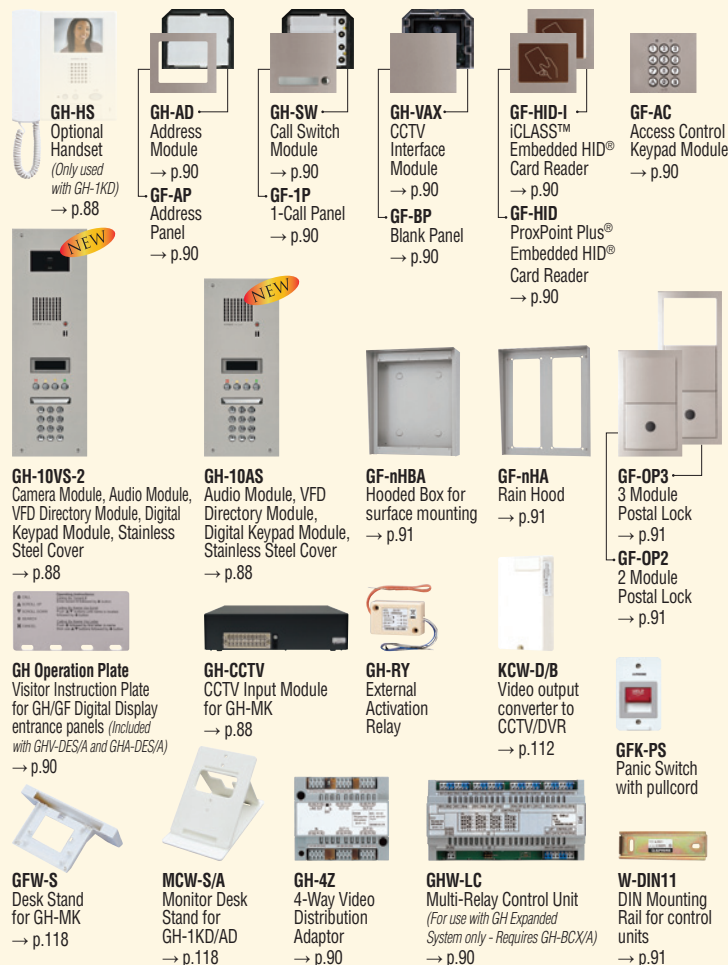




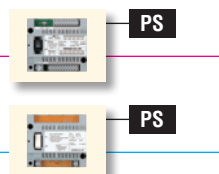
Tenant Stations - Up to 125 stations (Sub Trunk 1a)



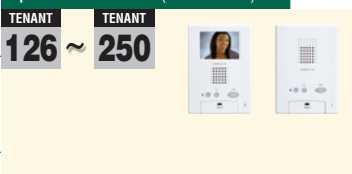
Options & Accessories



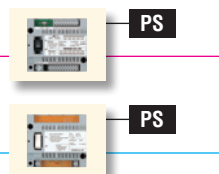
See Sub Trunk 1a above for details



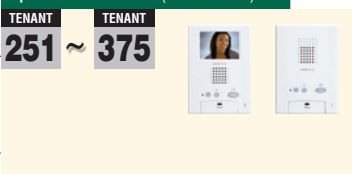
Tenant Stations Up to 125 stations (Sub Trunk 1b)



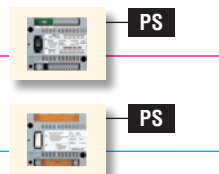
See Sub Trunk 1a above for details



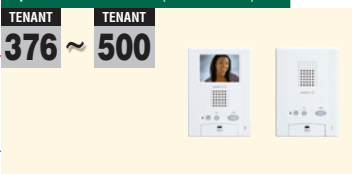
Tenant Stations Up to 125 stations (Sub Trunk 2a)



See Sub Trunk 1a above for details



Tenant Stations Up to 125 stations (Sub Trunk 2b)



Unit Dimensions

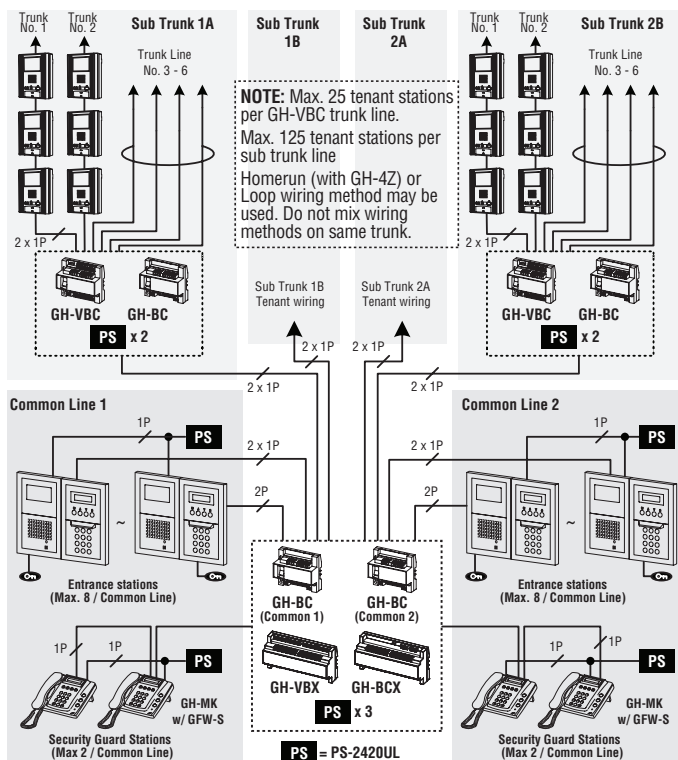
See p.88 & p.90 ~ p.91

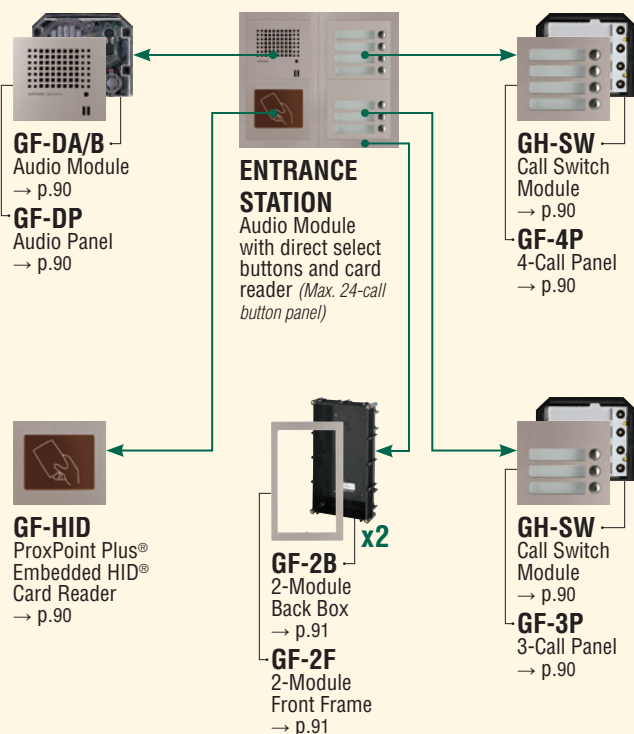
Features - Includes same as Standard System plus:

- Up to 16 entrance panels, 4 guard/concierge stations and 500 tenant stations
- 2 talkpaths when using Sub Trunk 1 & 2

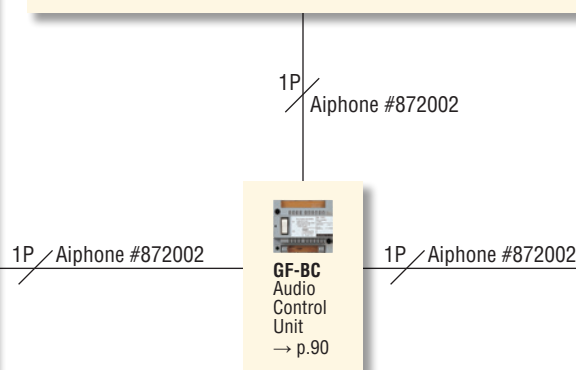
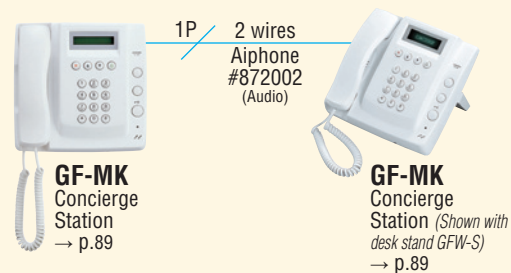
Wiring

GH Expanded Configuration Sample

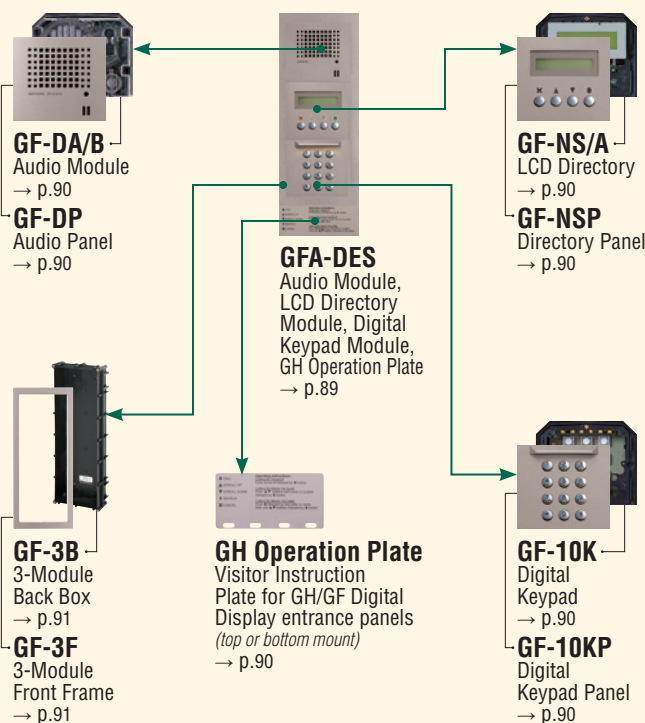


Entrance Station: MIX & MATCH up to 5 TOTAL GF entrance stations**Audio Direct Select - Sample Configuration****Guard/Concierge - Up to 2 units**

GUARD 1 & 2



1P / Aiphone #872002

Entrance Station: MIX & MATCH up to 5 TOTAL GF entrance stations**Audio Digital Display - Sample Configuration**

NOTE: Maximum cumulative audio wire distance = 8,200 ft. If exceeded, add GFW-LD. Contact Technical Support for system configuration assistance.

Tenant Stations - Up to 100 (Direct Select) / up to 250 stations (Digital Display)

(Max. 2 per tenant)



GF-1DK
Tenant Station
with concierge call
(Panic call option available
when used with GFK-PS)
→ p.89



GF-1DKS
Tenant Station with
concierge call and
service button
→ p.89

Options & Accessories

 GH-AD Address Module → p.90 GF-AP Address Panel → p.90	 GH-SW Call Switch Module → p.90 GF-1P 1-Call Panel → p.90	 GF-HID ProxPoint Plus® Embedded HID® Card Reader → p.90	 GF-HID-I iCLASS™ Embedded HID® Card Reader → p.90	 GF-AC Access Control Keypad Module → p.90	 GF-BP Blank Panel → p.90
 GF-nHBA Hooded Box for surface mounting → p.91	 GF-nHA Rain Hood → p.91	 GF-OP2 2 Frame Postal Lock Module → p.91	 GF-OP3 3 Frame Postal Lock Module → p.91	 GH Operation Plate Visitor Instruction Plate for GH/GF Digital Display entrance panels (Included with GHV-DES/A and GHA-DES/A) → p.90	
 GF-C 30" Internal Connector for expanded direct select panels → p.91	 MAW-B Auxiliary Light Control Relay → p.117	 GFK-PS Panic Switch with pullcord			
 GFW-S Desk Stand for GH-MK → p.118	 GFW-LD Long Distance Audio Adaptor → p.90	 W-DIN11 DIN Mounting Rail for control units → p.91			

Features

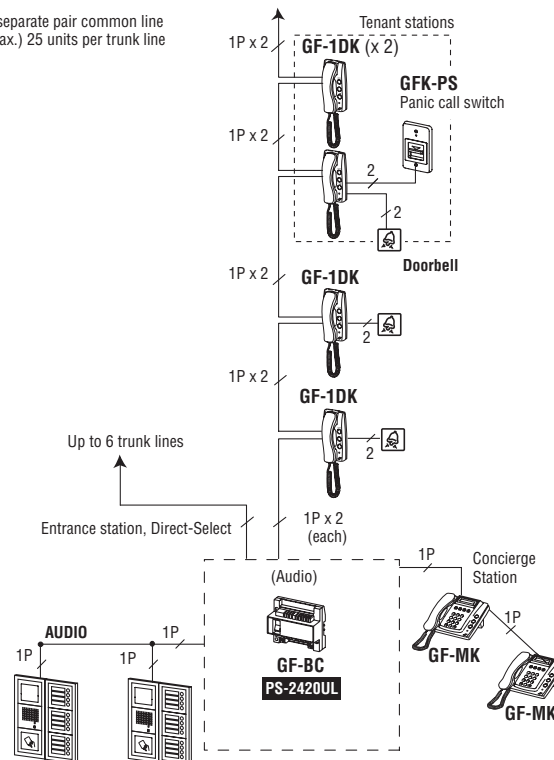
- Up to 5 entrance panels and 100 (Direct Select) or 250 (Digital Display) tenant locations
- Simple wiring with only 2 common wires
- Entrance panels with individual call buttons are modular, allowing panel to be configured with the appropriate number of buttons
- Up to two inside stations per tenant for easy communication with visitor
- Access control from inside station to calling entrance (door release)
- Optional individual doorbell to ring handset stations
- Door release timer (momentary ~ 20 seconds)
- Security guard or concierge station can be included to provide communication between office/lobby and tenants
- Optional panic call switch for emergency calling to guard/concierge
- Optional postal lock module, allowing easy entry for postal and delivery workers

Unit Dimensions

See p.89 ~ p.91

Wiring

1 separate pair common line
(Max.) 25 units per trunk line



GH Series - Entrance Stations



GH-10VS-2
Camera Module, Audio Module, VFD Directory Module, Digital Keypad Module, Stainless Steel Cover



GH-10AS
Audio Module, VFD Directory Module, Digital Keypad Module, Stainless Steel Cover



GHV-DES/A
Camera Module, Audio Module, VFD Directory Module, Digital Keypad Module, GH Operation Plate

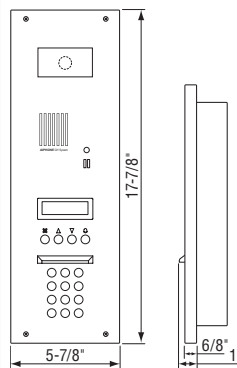


GHA-DES/A
Audio Module, VFD Directory Module, Digital Keypad Module, GH Operation Plate

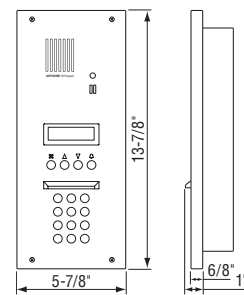
NOTE: To build a customized system see modular components p.90 ~ 91

Features (See p.83)

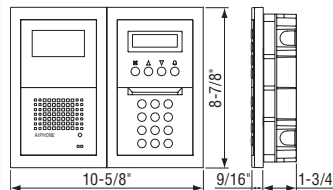
GH-10VS-2



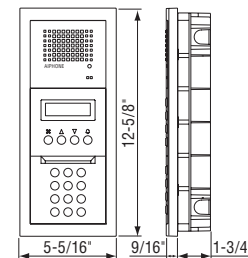
GH-10AS



GHV-DES/A



GHA-DES/A



GH Series - Tenant Stations

GH-HS
Optional Handset
(Shown with GH-1KD)



GH-1KD
Hands-free Video Monitor Tenant Station
GH-1KD-SW
Hands-free Video Monitor Tenant Station with service button



GH-1AD
Hands-free Audio Only Tenant Station
GH-1AD-SW
Hands-free Audio Only Tenant Station with service button

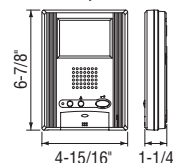
Features

- Hands-free or Push-to-Talk
- Call tone from entrance and doorbell are differentiated
- Monitor entry by pushing key button
- Call button to call Guard/Concierge
- Door release to calling entrance

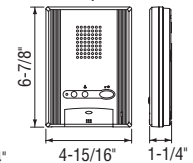
Specifications

Power Source	24V DC, 9mA - Supplied by GH-BC (GH-1AD) 24V DC, 9mA - Supplied by GH-BC, GH-VBC (GH-1KD/1KD-SW)
Housing	Fire-retardant ABS plastic
Ambient Temp.	32°F ~ 104°F
Video Monitor	3.5" Color LCD (GH-1KD/1KD-SW)
Mounting	Wall mounting or desk mount with MCW-S/A
Electrical Box	2-3/8" or 3-5/16" guided, 1-gang box
Wiring	2-cond., solid, non-shielded, PE insulation
Distance	See table
Wire Type	Audio signal: Aiphone #872002 Video signal: Aiphone #871802

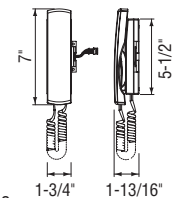
GH-1KD/KD-SW



GH-1AD/AD-SW



GH-HS



GH Series - Concierge Station



GH-MK
Concierge Station

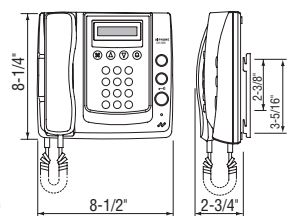
Features

- For either audio or audio/video systems
- Call entrance or tenant stations
- Reception Mode intercepts visitor calls for screening by guard/concierge
- Door release

Specifications

Power Source	24V DC, 200mA - Use PS-2420UL
Housing	Fire-retardant ABS plastic
VFD Display	Max. 16 letters for names
Mounting	Wall or desk mount (for desk mount use GFW-S)
Wiring	2-cond., solid, non-shielded, PE insulation
Wire Type	Audio signal: Aiphone #872002

GH-MK



GH Series - CCTV Input Module



GH-CCTV
CCTV Input Module for GH-MK

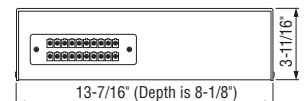
Features

- Interfaces with a CCTV camera
- Tenants can visually identify visitors from calls originated at the concierge/guard station (GH-MK)

Specifications

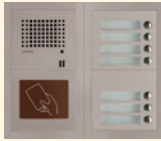
Power Source	24V DC, 9mA - Supplied by GH-BC and GH-VBC
Video Signal	NTSC 1V peak-to-peak, 75Ω
Mounting	Wall or desk mount

GH-CCTV



GF Series - Entrance Stations

Direct Display



ENTRANCE STATION

Audio Module with direct select buttons and card reader

Digital Display



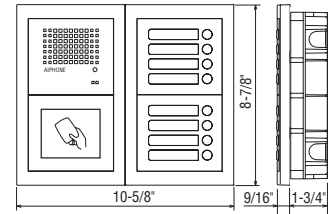
GFA-DES

Audio Module, LCD Directory Module, Digital Keypad Module, GH Operation Plate

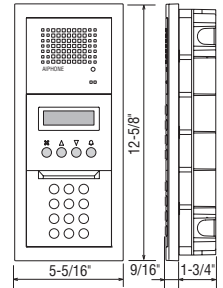
Features

- Up to 5 entrance panels and 100 (Direct Select) or 250 (Digital Display) tenant locations
- Simple wiring with only 2 common wires for audio
- Entrance panels with individual call buttons are modular, allowing panel to be configured with the appropriate number of buttons
- Up to two inside stations per tenant for easy communication with visitor
- Access control from inside station to calling entrance (door release)
- Optional individual doorbell to ring handset stations
- Door release timer (momentary - 20 seconds)
- Security guard or concierge station can be included to provide communication between office/lobby and tenants
- Optional panic call switch for emergency calling to guard / concierge
- Optional postal lock module, allowing easy entry for postal and delivery workers

ENTRANCE STATION CONFIGURATION



GFA-DES



GF Series - Tenant Stations



GF-1DK

Audio Only Tenant Station with concierge call

GF-1DKS

Audio Only Tenant Station with concierge call and service button

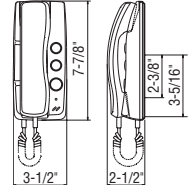
Features

- Door release to calling entrance station
- Call guard/concierge station
- Optional service button for elevator call-up
- Panic call option available when used with GFK-PS

Specifications

Power Source	24V DC, 16mA - Supplied by GF-BC (GF-1DK, GF-1DKS)
Housing	Fire-retardant ABS plastic
Ambient Temp.	2°F ~ 104°F
Mounting	Wall mounting only
Electrical Box	2-3/8" or 3-5/16" guided, 1-gang box (GF-1DK, GF-1DKS)
Wiring	2-cond., solid, non-shielded, PE insulation
Distance	See Components Table on p.91
Wire Type	Audio signal: Aiphone #872002

GF-1DK, GF-1DKS



GF Series - Concierge Station



GF-MK

Concierge Station

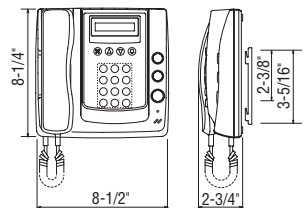
Features

- Call entrance or tenant stations
- Door release

Specifications

Power Source	Supplied by system
Housing	Fire-retardant ABS plastic
Ambient Temp.	32°F ~ 104°F
LCD Display	Max. 16 letters for names
Mounting	Wall or desk mount (for desk mount use GFW-S)
Electrical Box	2-3/8" or 3-5/16" guided
Wiring	2-cond., solid, non-shielded, PE insulation
Wire	Type Audio signal: Aiphone #872002

GF-MK



GH & GF Series - Shared Components

Entrance Station Modules

■ - for use with GH Series ■ - for use with GF Series ■ - Interchangeable

Specifications

Power Source GH(GF)-DA, GH(GF)-VA, GH-VAX, GH(GF)-10K, GH(GF)-SW, and GH(GF)-AD: Supplied by system
GH(GF)-NS: PS-2420UL
GF-AC: PS-2420UL

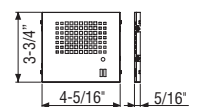
Housing Fire-retardant ABS plastic

Wiring 2-cond., solid, non-shielded, PE insulation

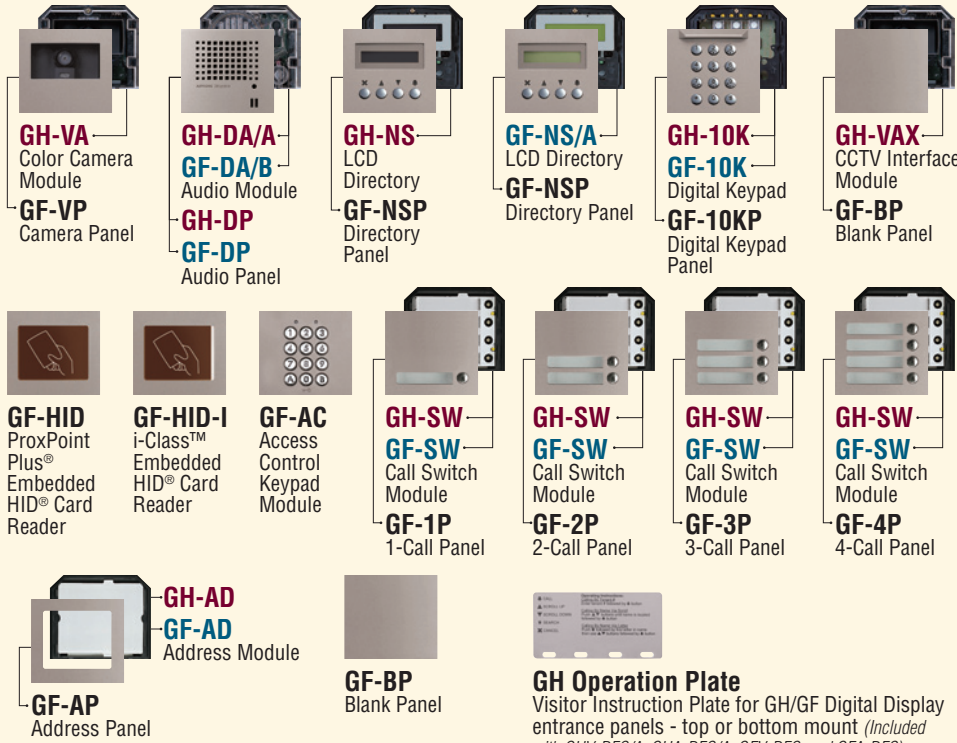
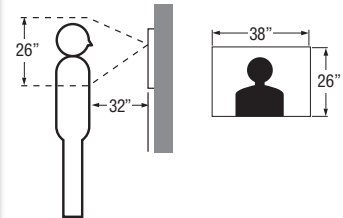
Wire Type Audio signal: Aiphone #872002 Video signal: Aiphone #871802

Temp. Rating GH-VA, GH(GF)-DA/A, GH-NS, GF-NS/A, GH(GF)-10K, GF-HID(I), GF-AC, GH(GF)-SW, and GH(GF)-AD: 14° - 140°F
GH-VAX: 32° - 104°F

All GH & GF Panels



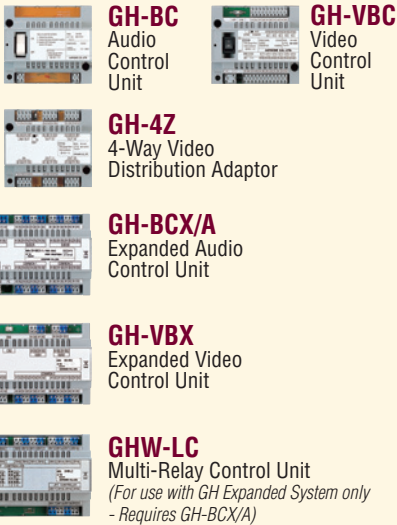
Camera View Area



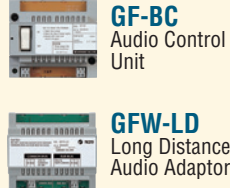
GH Operation Plate
Visitor Instruction Plate for GH/GF Digital Display entrance panels - top or bottom mount (Included with GHV-DES/A, GHA-DES/A, GFV-DES, and GFA-DES)

Bus & Video Control Units

GH Only



GF Only



Specifications

Power Source GH-BC/GF-BC: 24V DC, 900mA - Use PS-2420UL
GH-VBC: 24V DC, 1.1A - Use PS-2420UL
GF-W-LD: Supplied by system

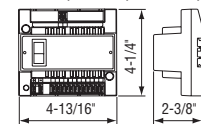
Mounting DIN rail

Wiring 2-cond., solid, non-shielded, PE insulation

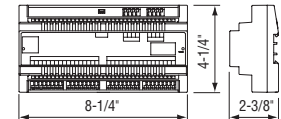
Distance See table

Wire Type Audio signal: Aiphone #872002 Video signal: Aiphone #871802

GH-BC, GH-4Z, GH-VBC, GF-W-LD



GH-BCX/A, GH-VBX, GHW-LC



GH Wiring Distance	22AWG	20AWG	18AWG
GH-BC to distribution point	8'	16'	16'
Distribution point to Entrance Station	980'	980'	980'
Distribution point to GH-MK	-	980'	-
Distribution point to farthest GH-1AD (Audio line)	980'	980'	980'
GH-VBC to farthest monitor (Video line) 1 monitor/tenant	330'	500'	500'
GH-VBC to farthest monitor (Video line) 2 monitors/tenant	165'	330'	500'
GH-VBC (STD) to GH-VBC (EXP)	330'	500'	500'
GH-BC, GH-VBC to each power supply	8'	16'	16'
GF-NS / GF-AC to power supply	500'	980'	980'
GH-MK to Power Supply	500'	980'	980'
Total cumulated wiring per audio trunk line (max. 4)	8,200'	8,200'	8,200'

GF Wiring Distance	22AWG	20AWG	18AWG
GF-BC to distribution point	-	16'	-
Distribution point to entrance station	-	980'	-
Distribution point to GF-1DK (farthest)	-	980'	-
GF-NS / GF-AC to power supply	-	980'	980'
MAW-B to entrance station	-	980'	-
Total cumulative wire distance	-	8,200'	-
GF-BC to power supply	-	16'	16'

GH & GF Series - Shared Components (Continued)

Postal Lock Modules



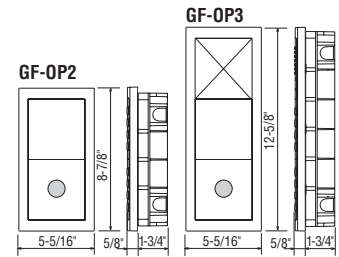
GF-OP2
2 Module
Postal Lock



GF-OP3
3 Module
Postal Lock
(1 open module
position)

Specifications (GF-OP2 & GF-OP3)

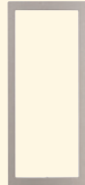
Power Source 24V DC - Use PS-2420UL
N/O Output Rating 5A at 30V DC
 10A at 125V DC
 3A at 250V DC
N/C Output Rating 3A at 30V DC or 125V AC
Wiring 2-cond., non-shielded
 from 24V DC power supply
 to GF-OP panel, 2-cond.,
 non-shielded from GF-OP
 panel to strike, with power
Wire Type Aiphone #872002



Mounting Accessories



GF-2F
2-Module
Front Frame



GF-3F
3-Module
Front Frame



GF-2B
2-Module
Back Box



GF-3B
3-Module
Back Box



GF-nHA
Rain Hood
(GF-203HA shown)



GF-C
30" Internal Connector for
expanded direct select panels

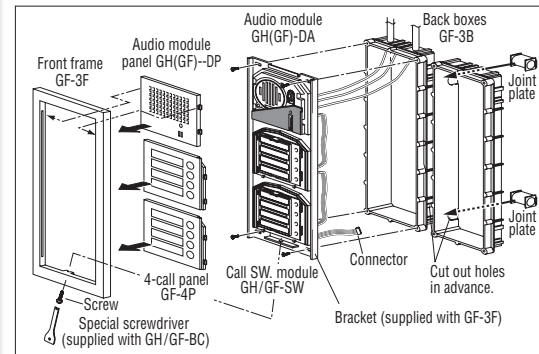


GF-nHBA
Hooded Box for
surface mounting
(GF-203HBA shown)



W-DIN11
DIN Mounting Rail for
GH/GF control units

Mounting



Rain hood & Hooded box

GF-nHA	GF-nHBA
W: 1-5/8"	W: 3-3/8"
H: 7/8"	H: 2-9/16"
GF-102HA / HBA	H: 9-9/16" W: 6-1/8"
GF-202HA / HBA	H: 9-9/16" W: 11-7/16"
GF-103HA / HBA	H: 13-5/16" W: 6-1/8"
GF-203HA / HBA	H: 13-5/16" W: 11-7/16"
GF-2F	H: 8-7/8" W: 5-5/16"
GF-3F	H: 12-5/8" W: 5-5/16"

Back box

Two-module back boxes (x2)	Three-module back boxes (x3)	Back box total width
Joint pipe (2)	Joint pipe (2)	
7-7/8"	11-5/8"	
1-3/4"	1-3/4"	
Do not recess back box more than 9/16".	Do not recess back box more than 9/16".	
		Back boxes
		W (inch)
		1 row 4-1/2"
		2 rows 9-3/4"
		3 rows 15"
		4 rows 20-1/2"
		5 rows 25-5/8"
		6 rows 31"
		7 rows 36-1/2"
		8 rows 42"
		9 rows 47"

Components Table

Audio systems

	4-Call Direct Select	8-Call Direct Select	12-Call Direct Select	16-Call Direct Select
Audio Section	GH(GF)-DA GH(GF)-DP	GH(GF)-DA GH(GF)-DP	GH-DA/GF-DA GH(GF)-DP	GH-DA/GF-DA GH(GF)-DP
Call Switch Section	GH(GF)-SW GF-4P	GH(GF)-SW x 2 GF-4P x 2	GH(GF)-SW x 3 GF-4P x 3	GH(GF)-SW x 4 GF-4P x 4
Front Frame & Back Box	GF-2F GF-2B	GF-3F GF-3B	GF-2F x 2 GF-2B x 2	GF-3F x 2 GF-3B x 2
Option				GF-BP, GH(GF)-AD, GF-AP, GF-HID or GF-HID-I

	20-Call Direct Select	30-Call Direct Select	40-Call Direct Select	Digital Display
Audio Section	GH(GF)-DA, GH(GF)-DP	GH(GF)-DA, GH(GF)-DP	GH(GF)-DA, GH(GF)-DP	GH(GF)-DA, GH(GF)-DP
Call Switch Section	GH(GF)-SW x 5 GF-4P x 5	GH(GF)-SW x 6* GF-4P x 7 GF-2P x 1	GH(GF)-SW x 10* GF-4P x 10	GH(GF)-NS, GF-NSP, GH(GF)-10K, GF-10KP
Front Frame & Back Box	GF-3F x 2 GF-3B x 2	GF-3F x 3 GF-3B x 3	GF-3F x 4 GF-3B x 4	GF-3F x 1 GF-3B x 1
Option			GF-BP, GH(GF)-AD, GF-AP, GF-HID or GF-HID-I	

*GH Series cannot support more than 6 GH-SW in an entry panel without modification.

Video systems

	4-Call Direct Select	8-Call Direct Select	12-Call Direct Select	16-Call Direct Select
Audio/Camera Section	GH-VA, GF-VP, GH-DA, GH-DP	GH-VA, GF-VP, GH-DA, GH-DP	GH-VA, GF-VP, GH-DA, GH-DP	GH-VA, GF-VP, GH-DA, GH-DP
Call Switch Section	GH-SW/GF-SW GF-4P	GH-SW/GF-SW x 2 GF-4P x 2	GH-SW/GF-SW x 3 GF-4P x 3	GH-SW/GF-SW x 4 GF-4P x 4
Front Frame & Back Box	GF-3F GF-3B	GF-2F x 2 GF-2B x 2	GF-3F x 2 GF-3B x 2	GF-3F x 2 GF-3B x 2
Option			GF-BP, GH-AD, GF-AP, GF-HID or GF-HID-I	

	20-Call Direct Select	30-Call Direct Select	40-Call Direct Select	Digital Display
Audio/Camera Section	GH-VA, GF-VP, GH-DA, GH-DP	GH-VA, GF-VP, GH-DA, GH-DP	GH-VA, GF-VP, GH-DA, GH-DP	GH-VA, GF-VP, GH-DA, GH-DP
Call Switch Section	GH-SW x 5 GF-4P x 5	GH-SW x 8* GF-4P x 7 GF-2P x 1	GH-SW x 10* GF-4P x 4	GH-NS/GF-NS, GF-NSP, GH-10K/GF-10K, GF-10KP
Front Frame & Back Box	GF-3F x 3 GF-3B x 3	GF-3F x 4 GF-3B x 4	GF-3F x 4 GF-3B x 4	GF-2F x 2 GF-2B x 2
Option	GF-BP, GH-AD, GF-AP, GF-HID or GF-HID-I	GF-BP, GF-AP, GF-HID or GF-HID-I		

Diagrams are for illustrative purposes only. System wiring may vary by installation. Refer to instructions for actual installation directions. 91

Entrance Station

DOOR
1

DA-2DS
2-Call
Entrance Station

DA-4DS
4-Call
Entrance Station

Tenant Station

TENANT
1

DB-1MD
Hands-free
Tenant Station

TENANT
2 ~ 4

DB-1MD
Hands-free
Tenant Station

Sub Station (optional)

Sub stations 2-5

DB-1SD
Hands-free
Sub Station

Sub stations 2-5

DB-1SD
Hands-free
Sub Station

Options & Accessories

EL-12S
Electric Door Strike,
12V AC/DC, 200mA
→ p.108

RY-ES
External
Signaling
Relay
→ p.110

IER-2
Call Extension
Speaker
→ p.108

MCW-S/A
Desk Stand
→ p.118

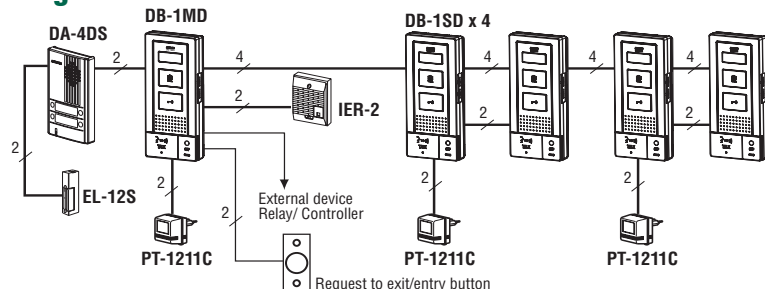
Features

- Door strike powered by door station without the need of an additional transformer or wiring
- Hands-free tenant station
- Service button to control an external device
- Call tone volume control with mute indicator
- All Call between tenant stations with room to room hands-free communication
- Backlit directory on door station

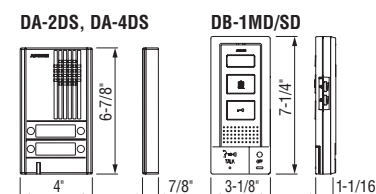
Specifications

Power Source	15V AC - Use AC transformer PT-1211C, 120V (1 required per master station and 1 required per 2 sub stations)
Communication	Hands-free or PTT
Door Release	Voltage available: 9.5~20V AC, 70Ω or more resistance use EL-12S
Wiring	Door to master: 2-conductor Master to Sub: 4-conductor Between subs: 4-conductor + 2-conductor when sharing power
Distance	Door to master: 360'(22AWG) 1,020'(18AWG) Door strike to power supply: 360'(22AWG) 1020'(18AWG) Master to farthest sub: 330' maximum
Wire	Type Door to master: Aiphone #822202 or Aiphone #871802 Between masters/subs: Aiphone #812205 or Aiphone #871804

Wiring



Unit Dimensions



ACCESSORIES



TABLE OF CONTENTS

Options & Accessories

AC-10F	110
AC-10S	110
AD-1210P	116
AH-108	115
AH-16TN	115
AH-32TN	115
AS-3N	115
AX-A	97
AX-AN	97
AX-B	97
AX-BN	97
AX-DM	96
AX-DV	96
AX-DVF	96
AX-DVF-P	96
AX-DVF-XP	96
AX-DV-P	96
AX-DV-XP	96
AX-SS	97
AXW-AVR	111
AXW-AVT	111
AXW-AZ	111
AXW-PA1	113
BA-1	113
BA-1P	113
BBX-1E	106
BBX-3E	106
BG-10C	117
DAK-2S	118
DAR-1	108
DMA2060	114
DMA2120	114
EL-12S	108
GFW-S	118
HID-SS	109
IAX-100	118
ICP-AB	108
ICP-BR	108
IE-DC	102
IE-JA	102
IER-2	108
IE-SS	102
IE-SSR	102
IE-SSV	102
IF-DA	102
IME-100	118
IME-150	118
ISE-100	118
JA-D	101

JA-DAC	98
JA-DGC	98
JA-DGV	98
JAW-AZ	111
JBW-BA	110
JBW-M	111
JF-D	101
JF-DA	99
JF-DV	99
JF-DVF	99
JF-DVF-HID	99
JF-DVF-HID-I	99
JF-DVF-XP	99
JK-DA	100
JK-DV	100
JK-DVF	100
JK-DVF-AC	100
JK-DVF-HID	100
JK-DVF-XP	100
JKW-BA	110
KA-DGR Panel	101
KA-FSH	101
KAW-D	107
KB-DAR	101
KB-DAR-M	101
KBW-M	112
KC-DAR	101
KCW-D/B	112
KMB-45	107
LE-D	103
LE-DA	103
LE-SS	103
LE-SS-1G	103
LE-SSR	103
LE-SSV	103
LS-NVP/C	103
MAW-B	117
MC-A/A	113
MCW-S/A	118
MCW-2S	118
MKW-DK/A	117
MKW-P	118
NB-L	115
NB-U	112
NBX-2	106
NBZ-M	115
N-EA	115
NE-DA	104
NE-JA	104

NE-NVP/C	104
NE-NVP-RA	104
NE-SS	104
NE-SS-1G	104
NE-SSR	104
NEW-5	112
PD-1	113
PD-2	113
PS-12225UL	116
PS-1820UL	116
PS-2420UL	116
PT-1210N	108
PT-1211C	116
RY-18L	109
RY-24L	109
RY-3DL	108
RY-AC/A	110
RY-ES	110
RY-PA	108
SA-1	117
SBX-2BH	105
SBX-2BV	105
SBX-1G	105
SBX-2G	105
SBX-3G	106
SBX-ACE	105
SBX-AXDV30	107
SBX-AXDVF	106
SBX-DGV	106
SBX-DV30	107
SBX-DVF	106
SBX-DVF-P	106
SBX-LSE	107
SBX-LSP	107
SBX-NVP	106
SKK-620B	116
SP-20N	114
SP-2570N	114
SSB-2	114
T3115BGM	114
T3130BGM	114
TAR-3	117
XP-KIT	109
XP-SS	109

AX Series Fixed Video Door Stations

Weather & Vandal Resistant Video Door Stations – surface mount



AX-DV
Fixed Video Door Station, aluminum die cast, surface mount



AX-DV-P
Fixed Video Door Station with an embedded HID® ProxPoint® Plus Proximity Card Reader, aluminum die cast, surface mount



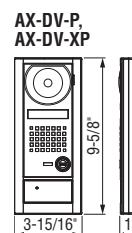
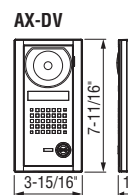
AX-DV-XP
Fixed Video Door Station with an embedded Stand-Alone Proximity Card Reader and host controller, aluminum die cast, surface mount
(Requires XP-KIT for programming - See p.109)

Features

- CAT-5e wired to CEU (980' Max)
- Lexan lens cover
- Embedded stand-alone card reader (AX-DV-XP)
- Embedded HID® ProxPoint® Plus card reader (AX-DV-P)
- Fixed angle color video camera
- Employs 1/4" color CCD camera
- LED illumination automatically turns on in low light conditions

Specifications

Power Source	Supplied by CEU
Communication	Hands-free when answered
Camera	CCD camera with white LED's 250,000 Pixels
Camera View Area	2'1" vert. x 3'1" horiz. at 20"
Programming	AX-DV-XP: Requires XP-KIT (See p.109)
Faceplate	Aluminum die cast
Mounting	Direct to wall surface
Wiring	Door to CEU: CAT-5e
Distance	Door to CEU: 980'

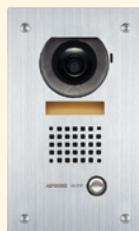


NOTES:

- 1) HID® stations require a 3rd party host
- 2) Card reader and door strike power require additional wire
- 3) AX-DV-XP requires XP-KIT for programming - See p.109

Used for:
AX Series

Weather & Vandal Resistant Video Door Stations – flush mount



AX-DVF
Fixed Video Door Station, stainless steel, flush mount



AX-DVF-P
Fixed Video Door Station with an embedded HID® ProxPoint® Plus Proximity Card Reader, stainless steel, flush mount



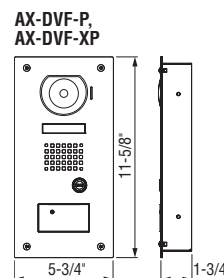
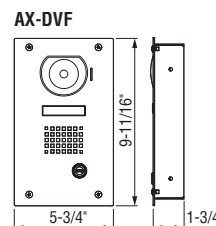
AX-DVF-XP
Fixed Video Door Station with an embedded Stand-Alone Proximity Card Reader and host controller, stainless steel, flush mount
(Requires XP-KIT for programming - See p.109)

Features

- CAT-5e wired to CEU (980' Max)
- Lexan lens cover
- Embedded stand-alone card reader (AX-DVF-XP)
- Embedded HID® ProxPoint® Plus card reader (AX-DVF-P)
- Fixed angle color video camera
- Employs 1/4" color CCD camera
- LED illumination automatically turns on in low light conditions

Specifications

Power Source	Supplied by CEU
Communication	Hands-free when answered
Camera	CCD camera with white LED's 250, 000 Pixels
Camera View Area	2'1" vert. x 3'1" horiz. at 20"
Programming	AX-DVF-XP: Requires XP-KIT (See p.109)
Faceplate	Stainless Steel
Mounting	Supplied back box
Wiring	Door to CEU: CAT-5e
Distance	Door to CEU: 980'



NOTES:

- 1) HID® stations require a 3rd party host
- 2) Card reader and door strike power require additional wire
- 3) AX-DVF-XP requires XP-KIT for programming - See p.109

Used for:
AX Series

AX Series Audio Only Door Stations

Audio Only Door Station – mullion surface mount



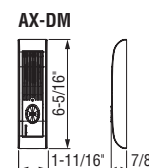
AX-DM
Audio Door Station, plastic cover, mullion surface mount

Features

- Mullion mounted door station
- Connected using CAT-5e wiring
- Constructed of sturdy ABS Plastic
- Weather resistant

Specifications

Power Source	Supplied by CEU	Material	ABS Plastic
Communication	Hands-free when answered	Mounting	Surface mount
Terminations	Color-coded pre-wired pigtails	Wiring	Door to CEU: CAT-5e
Temp. Rating	14° to 140°F	Distance	Door to CEU: 980'



Used for:
AX, IE Series,
and IPW-1A

AX Series Audio Only Door Stations (continued)

Weather & Vandal Resistant Audio Only Door Station – flush mount



AX-SS
Amplified
Door Station,
stainless steel,
flush mount

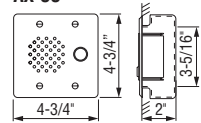
Features

- Greater volume for noisy areas/street locations
- Weather and vandal resistant
- Stainless steel, mechanical call button
- Moisture and puncture resistant speaker
- 3-layer steel baffle protects speaker from tampering
- Hands-free communication when master answers
- Screw terminals wires for connection to master station

Specifications

Power Source	Supplied by AX-084C, AX-248C or master
Communication	Hands-free when answered
Speaker	20Ω, 2-1/2" diameter, water and puncture resistant, 2.5 oz. ceramic magnet
Call Button	Mechanical SPST switch, stainless steel
Faceplate	12AWG stainless steel
Mounting	2-gang or SBX-2G for surface mount
Mounting Hardware	Tamper proof screws
Terminations	Unlabeled wire connector
Temp. Rating	14° to 140°F
Wiring	Door to CEU: CAT-5e
Distance	Door to CEU: 980'

AX-SS



Used for:
AX Series

AX Series Sub Stations

Sub Stations – surface mount



AX-A
Sub Station,
surface mount



AX-AN
Privacy Sub Station,
surface mount

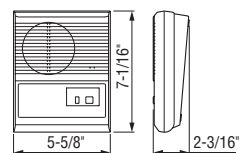
Features

- Connected using CAT-5e wiring
- Hands-free communication when master answers
- Desk or wall mount
- Mounts to 1-gang box or ring (wall mount)
- Privacy feature blocks unwanted monitoring from master (AX-AN)
- Constructed of sturdy ABS Plastic

Specifications

Power Source	Supplied by CEU
Communication	Hands-free at sub
Material	ABS Plastic
Color	White with gray nameplate
Mounting	Surface mount
Wiring	Subs to CEU: CAT-5e
Distance	Subs to CEU: 980'

**AX-A,
AX-AN**



Used for:
AX Series

Sub Stations – semi-flush mount



AX-B
Sub Station,
semi-flush
mount



AX-BN
Privacy Sub
Station, semi-
flush mount

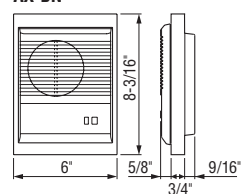
Features

- Connected using CAT-5e wiring
- Hands-free communication when master answers
- Semi-flush mount design
- Optional rough-in box for new construction (BBX-1E)
- Privacy feature blocks unwanted monitoring from master (AX-BN)
- Constructed of sturdy ABS Plastic

Specifications

Power Source	Supplied by CEU
Communication	Hands-free at sub
Mounting	Semi-Flush Mount
Material	ABS Plastic
Color	White with gray nameplate
Mounting	Semi-flush mount
Wiring	Subs to CEU: CAT-5e
Distance	Subs to CEU: 980'

**AX-B,
AX-BN**



Used for:
AX Series

JA Series PanTilt Video Door Stations

Weather Resistant Video Door Station - surface mount



JA-DAC

PanTilt Video Door Station, plastic cover, surface mount, 1-gang

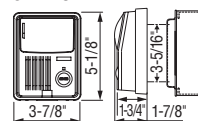
Features

- Color CCD camera
- Mounts to 1-gang box or ring
- PanTilt control from inside station allows a viewing range of 2'11"H x 5'10"W at 20"
- LED illumination automatically turns on in low light conditions

Specifications

Power Source	Supplied by master station
Communication	Hands-free when answered
Camera	CCD camera with white LED's
Scanning Lines	525 lines
Min. Illumination	5 Lux at 1' from camera
Camera View Area	2'11" vert. x 5'10" horiz. at 20"
Wiring	Door to master: 2-cond., mid cap, non-shielded
Distance	Door to master: 165'(22AWG) 330'(18AWG)
Wire Type	Door to master: Aiphone #871802

JA-DAC



Used for:
JA Series

Weather & Vandal Resistant Video Door Station - semi-flush mount



JA-DGC

PanTilt Video Door Station, aluminum panel, semi-flush mount, 3-gang

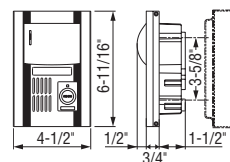
Features

- Color CCD camera
- Mounts to 3-gang box or ring
- PanTilt control from inside station allowing a viewing range of 2'11"H x 5'10"W at 20"

Specifications

Power Source	Supplied by master station
Communication	Hands-free when answered
Camera	CCD camera with white LED's
Scanning Lines	525 lines
Min. Illumination	5 Lux at 1' from camera
Camera View Area	2'11" vert. x 5'10" horiz. at 20"
Wiring	Door to master: 2-cond., mid cap, non-shielded
Distance	Door to master: 165'(22AWG) 330'(18AWG)
Wire Type	Door to master: Aiphone #871802

JA-DGC



Used for:
JA Series

Weather & Vandal Resistant Video Door Station - flush mount



JA-DGV

PanTilt Video Door Station, stainless steel faceplate, flush mount

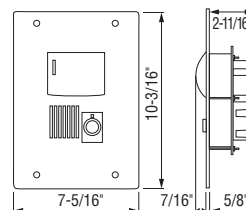
Features

- Color CCD camera
- PanTilt control from inside station allowing a viewing range of 2'11"H x 5'10"W at 20"

Specifications

Power Source	Supplied by master station
Communication	Hands-free when answered
Camera	CCD camera
Scanning Lines	525 lines
Min. Illumination	5 Lux at 1' from camera
Camera View Area	2'11" vert. x 5'10" horiz. at 20"
Wiring	Door to master: 2-cond., mid cap, non-shielded
Distance	Door to master: 165'(22AWG) 330'(18AWG)
Wire Type	Door to master: Aiphone #871802

JA-DGV



Used for:
JA Series

JF Series Fixed Video Door Stations

Weather Resistant Video Door Station - surface mount



JF-DA
Fixed Video Door Station, plastic cover, surface mount

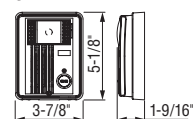
Features

- Fixed angle color video camera
- Employs 1/4" color CCD camera
- Mounts to 1-gang box or ring
- LED illumination automatically turns on in low light conditions

Specifications

Power Source	Supplied by master in use	Wiring	Door to master: 2-cond., mid cap, non-shielded
Communication	Hands-free when answered	Distance	Door to master: 165'(22AWG) 330'(18AWG)
Camera	CCD camera with white LED's	Wire Type	Door to master: Aiphone #871802
Scanning Lines	525 lines		
Min. Illumination	5 Lux at 1' from camera		
Camera View Area	2'1" vert. x 3'1" horiz. at 20"		

JF-DA



Used for:
JF Series

Weather & Vandal Resistant Video Door Station - surface mount



JF-DV
Fixed Video Door Station, zinc die cast, surface mount

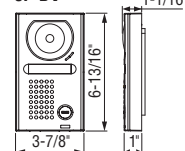
Features

- Fixed angle color video camera
- Employs 1/4" color CCD camera
- Locator LED backlight on CALL button
- LED illumination automatically turns on in low light conditions

Specifications

Power Source	Supplied by master in use	Wiring	Door to master: 2-cond., mid cap, non-shielded
Communication	Hands-free when answered	Distance	Door to master: 165'(22AWG) 330'(18AWG)
Camera	CCD camera with white LED's	Wire Type	Door to master: Aiphone #871802
Scanning Lines	525 lines		
Min. Illumination	5 Lux at 1' from camera		
Camera View Area	2'1" vert. x 3'1" horiz. at 20"		

JF-DV



Used for:
JF Series

Weather & Vandal Resistant Video Door Stations - flush mount



JF-DVF
Fixed Video Door Station, stainless steel, flush mount



JF-DVF-XP
Fixed Video Door Station with an embedded Stand-Alone Proximity Card Reader and host controller, stainless steel, flush mount
(Requires XP-KIT for programming - See p.109)



JF-DVF-HID
Fixed Video Door Station with an embedded HID® ProxPoint® Plus Proximity Card Reader, stainless steel, flush mount



JF-DVF-HID-I
Fixed Video Door Station with an embedded HID® iCLASS™ Smart Card Reader, stainless steel, flush mount

Features

- Fixed angle color video camera
- Employs 1/4" color CCD camera
- LED illumination automatically turns on in low light conditions

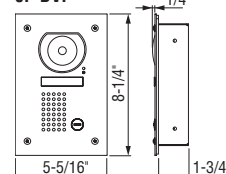
NOTES:

- 1) HID® stations require a 3rd party host
- 2) Card reader and door strike power require additional wire
- 3) JF-DVF-XP requires XP-KIT for programming - See p.109

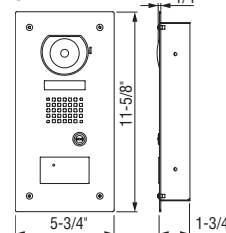
Specifications

Power Source	Supplied by master station
Communication	Hands-free when answered
Camera	CCD camera with white LED's
Scanning Lines	525 lines
Min. Illumination	5 Lux at 1' from camera
Camera View Area	2'1" vert. x 3'1" horiz. at 20"
Programming	JF-DVF-XP: Requires XP-KIT (See p.109)
Wiring	Door to master: 2-cond., mid cap, non-shielded
Distance	Door to master: 165'(22AWG) 330'(18AWG)
Wire Type	Door to master: Aiphone #871802

JF-DVF



JF-DVF-HID, JF-DVF-HID-I, JF-DVF-XP



Used for:
JF Series

JK Series Digital PanTilt & Zoom Video Door Stations

Weather Resistant Video Door Station - surface mount



JK-DA
Wide Angle Digital PanTilt and Zoom Video Door Station, plastic cover, surface mount

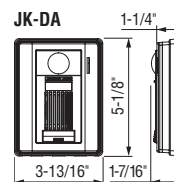
Features

- Employs 1/4" color CMOS camera
- Locator LED backlit on CALL button
- LED illumination automatically turns on in low light conditions
- Wide angle camera allows user to view up to 170° of the entire entry

- Entry can be monitored without alerting visitors they are being viewed, even at night
- Camera position and zoom can be set for call-in
- Camera can be manually adjusted to compensate for bright illumination
- Mounts to 1-gang box or ring

Specifications

*See specifications for JK-DV (below)



Used for:
JK Series

Weather & Vandal Resistant Video Door Station - surface mount



JK-DV
Wide Angle Digital PanTilt and Zoom Video Door Station, zinc die cast, surface mount

Features

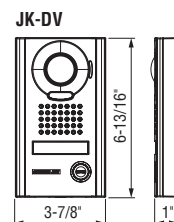
- Employs 1/4" color CMOS camera
- LED illumination automatically turns on in low light conditions
- Wide angle camera allows user to view up to 170° of the entire entry

- Entry can be monitored without alerting visitors they are being viewed, even at night
- Camera position and zoom can be set for call-in
- Camera can be manually adjusted to compensate for bright illumination

Specifications

Power Source	Supplied by master station
Communication	Hands-free when answered
Camera	Complementary metal oxide semiconductor (CMOS)
Scanning Lines	525 lines
Min. Illumination	5 Lux at 1' from camera
Camera View Area	170° horizontal
Temp. Rating	14° to 140° F

Wiring	Door to master: 2-cond., mid cap, non-shielded
Distance	Door to master: 165'(22AWG) 330'(18AWG)
Wire Type	Door to master: Aiphone #871802



Used for:
JK Series

Weather & Vandal Resistant Video Door Stations - flush mount



JK-DVF
Wide Angle Digital PanTilt and Zoom Video Door Station, stainless steel, flush mount



JK-DVF-XP
Wide Angle Digital PanTilt and Zoom Video Door Station with an embedded Stand-Alone Proximity Card Reader and host controller, stainless steel, flush mount
(Requires XP-KIT for programming - See p.109)

Features

- Employs 1/4" color CMOS camera
- Locator LED backlit on CALL button
- LED illumination automatically turns on in low light conditions
- Wide angle camera allows user to view up to 170° of the entire entry
- Entry can be monitored without alerting visitors they are being viewed, even at night
- Camera position and zoom can be set for call-in
- Camera can be manually adjusted to compensate for bright illumination

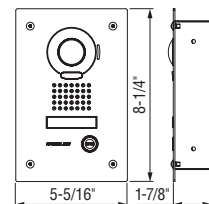
NOTES:

- 1) HID® stations require a 3rd party host
- 2) Card reader and door strike power require additional wire
- 3) JK-DVF-XP requires XP-KIT for programming - See p.109

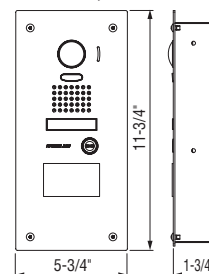
Specifications

Power Source	Supplied by master station
Communication	Hands-free when answered
Camera	Complementary metal oxide semiconductor (CMOS)
Scanning Lines	525 lines
Min. Illumination	5 Lux at 1' from camera
Camera View Area	170° horizontal
Temp. Rating	14° to 140° F
Programming	JK-DVF-XP: Requires XP-KIT (See p.109)
Wiring	Door to master: 2-cond., mid cap, non-shielded
Distance	Door to master: 165'(22AWG) 330'(18AWG)
Wire Type	Door to master: Aiphone #871802

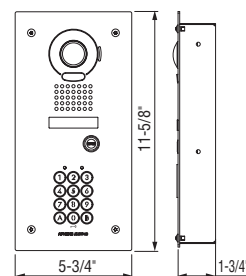
JK-DVF



JK-DVF-XP, JK-DVF-HID



JK-DVF-AC



Used for:
JK Series



JK-DVF-HID
Wide Angle Digital PanTilt and Zoom Video Door Station with an embedded HID® ProxPoint® Plus Proximity Card Reader, stainless steel, flush mount



JK-DVF-AC
Wide Angle Digital PanTilt and Zoom Video Door Station with an embedded access keypad, stainless steel, flush mount

KB & KC Tilt Video Door Stations

Weather Resistant Video Door Stations – surface mount



KB-DAR
Tilt Video Door Station, plastic cover, surface mount, 1-gang



KB-DAR-M
Tilt Video Door Station, motion detector interface, plastic cover, surface mount, 1-gang



KC-DAR
Tilt Video Door Station, plastic cover, surface mount, 1-gang

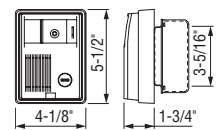
Features

- Tilt controlled camera
- Mounts to 1-gang box or ring
- Employs 1/4" color CCD camera
- Locator LED backlit on CALL button
- LED illumination automatically turns on in low light conditions

Specifications

Power Source	Supplied by master station
Communication	Hands-free when answered
Camera View Area	Approx. 2' horizontal, 3'8"-7'1" vertical at 4'3" high at 20" from camera
Night Viewing	Up to 20" from camera, with white LED projected, background scene beyond 20" cannot be seen
Wiring	Door to master: 2-cond., mid cap, non-shielded
Distance	Door to master (KB): 330'(22AWG) 650'(18AWG) Door to master (KC): 165'(22AWG) 330'(18AWG)
Wire Type	Door to master: Aiphone #871802

KB-DAR, KB-DAR-M, KC-DAR



Used for:

-KB door stations are only compatible with the KB Series
-KC door stations are only compatible with the KC Series

Stainless Steel Housings for KB-DAR, KB-DAR-M, and KC-DAR



KA-FSH
Housing Panel, stainless steel, flush mount
(Camera not included)

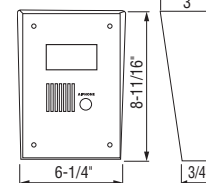


KA-DGR Panel
Housing Panel for KB-DAR, KB-DAR-M and KC-DAR, stainless steel, surface mount
(Camera not included)

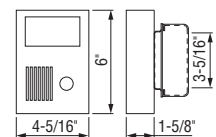
Features

- Stainless steel construction
- Weather resistant for outdoor use
- KA-FSH includes hood for greater protection from weather
- KA-FSH can be mounted without hood in order to be flush mounted (recommended for indoor installations only)
- Can be added to any existing KB-DAR, KB-DAR-M or KC-DAR color video door station

KA-FSH



KA-DGR Panel



Used for:

KB-DAR, KB-DAR-M, and KC-DAR

Audio Door Stations Compatible with Video Systems

Weather Resistant Audio Door Stations – surface mount



JF-D
Door Station, plastic cover, surface mount, 1-gang



JA-D
Door Station, plastic cover, surface mount, 1-gang

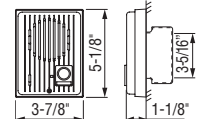
Features

- Weather resistant for outdoor use
- Push button to call master station(s)
- Hands-free communication when master answers
- Compact surface mount design
- Mounts to 1-gang box or ring
- Call button rings chime or tone at inside station

Specifications

Power Source	Supplied by master station
Communication	Hands-free when answered
Temp. Rating	14° to 140°F
Wiring	Door to master: 2-cond., overall shield
Distance	Door to master: 330'(18AWG)
Wire Type	Door to master: Aiphone #822202 or #821802

JA-D, JF-D



Used for:

JF-D – JF-2MED
JA-D – JA Series, JAW-AZ, and JBW-M

Audio Door Stations Compatible with Video Systems

Weather Resistant Audio Door Stations - surface mount



IF-DA
Door Station, plastic cover, surface mount, 1-gang



IE-DC
Door Station, plastic and aluminum cover, surface mount, 1-gang

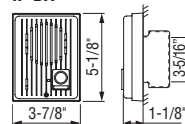
Features

- Weather resistant for outdoor use
- Push button to call master station(s)
- Hands-free communication when master answers
- Compact surface mount design
- Mounts to 1-gang box or ring
- Call button rings chime or tone at inside station

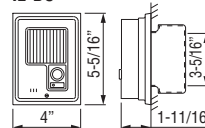
Specifications

Power Source	Supplied by master station
Communication	Hands-free when answered
Temp. Rating	14° to 140° F
Wiring	Door to master: 2-cond., overall shield
Distance	Door to master: 500'(22AWG) 1,200'(18AWG)
Wire Type	Door to master: Aiphone #822202 or #821802

IF-DA



IE-DC



Used for:

AX Series, IE-8MD, IPW-1A, KB Series, and TD-H/B

Weather Resistant Audio Door Station - flush mount



IE-JA
Door Station, stainless steel faceplate, flush mount, 2-gang

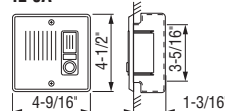
Features

- Weather resistant for outdoor use
- Push button to call master station(s)
- Hands-free communication when master answers
- Slim flush mount design with stainless steel faceplate
- Mounts to 2-gang box or ring

Specifications

Communication	Hands-free when answered
Speaker	20Ω
Material	Plastic case, stainless steel faceplate
Color	Stainless steel with black plastic
Temp. Rating	14° to 140° F
Wiring	Door to master: 2-cond., overall shield
Distance	Door to master: 500'(22AWG) 1,180'(18AWG)
Wire Type	Door to master: Aiphone #822202 or #821802

IE-JA



Used for:

AX Series, IE-8MD, IPW-1A, KB Series, and TD-H/B

Weather & Vandal Resistant Audio Door Stations - flush mount



IE-SS
Door Station, stainless steel, flush mount, 2-gang



IE-SSR
Door Station, stainless steel, red mushroom call button, flush mount, 2-gang



IE-SSV
Door Station with built-in CCTV camera, stainless steel, flush mount, 2-gang

Features

- Vandal and weather resistant
- Stainless steel, mechanical call button (IE-SS)
- Red mushroom call button (IE-SSR)
- Stainless steel, mechanical call button with backlit LED (IE-SSV)
- Moisture and puncture resistant speaker
- 3-layer steel baffle protects speaker from tampering
- Hands-free communication when master answers
- Pigtail wires for connection to master station

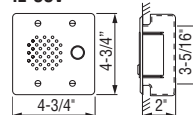
Specifications

Power Source	Supplied by master station
Communication	Hands-free when answered
Speaker	20Ω, 2-1/2" diameter, water and puncture resistant, 2.5 oz. ceramic magnet
Call Button	Mechanical SPST switch, stainless steel (IE-SS and IE-SSV), red mushroom SPST switch (IE-SSR)
Faceplate	12AWG stainless steel
Mounting	2-gang or SBX-2G for surface mount
Mounting Hardware	Tamper proof screws
Terminations	Color-coded pre-wired pigtails
Temp. Rating	14° to 140° F
Wiring	Door to master: 2-cond., overall shield
Distance	Door to master: 500'(22AWG) 1,180'(18AWG)
Wire Type	Door to master: Aiphone #822202 or #821802

Specifications (IE-SSV Only)

Camera Power Source	12V DC, 100mA
Video Output	75Ω / 1Vp-p composite video
Iris Control	Auto
Min. Illumination	1 Lux
Video Wiring	BNC connection to destination video device

IE-SS, IE-SSR, IE-SSV



Used for:

AX Series, IE-8MD, IPW-1A, KB Series (not IE-SSV), and TD-H/B Series

LE Audio Door Stations

Weather Resistant Audio Door Station - surface mount



LE-D
Door Station,
plastic cover,
surface mount,
1-gang

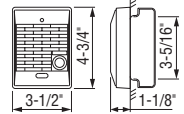
Features

- Weather resistant for outdoor use
- Push button to call master station(s)
- Hands-free communication when master answers
- Compact surface mount design
- Mounts to 1-gang box or ring

Specifications

Communication	Hands-free when answered	Temp. Rating	14° to 140°F
Speaker	20Ω	Distance	Doors to master: 650'(22AWG) 1,600'(18AWG)
Material	ABS Plastic		
Color	Black with white trim border		

LE-D



Used for:
LEF and LEM

Weather Resistant Audio Door Station - flush mount



LE-DA
Door Station,
stainless steel
faceplate, flush
mount, 2-gang

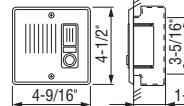
Features

- Weather resistant for outdoor use
- Push button to call master station(s)
- Hands-free communication when master answers
- Slim flush mount design with stainless steel faceplate
- Mounts to 2-gang box or ring

Specifications

Speaker	20Ω
Material	Plastic case, stainless steel faceplate
Color	Stainless steel with black plastic
Temp. Rating	14° to 140°F
Distance	Doors to master: 650'(22AWG) 1,600'(18AWG)

LE-DA



Used for:
LEF and LEM

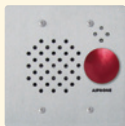
Weather & Vandal Resistant Audio Door Stations - flush mount



LE-SS-1G
Door Station,
stainless steel,
flush mount,
1-gang



LE-SS
Door Station,
stainless steel,
flush mount,
2-gang



LE-SSR
Door Station,
stainless steel,
red mushroom
call button, flush
mount, 2-gang



LE-SSV
Door Station
with built-in
CCTV camera,
stainless steel,
flush mount,
2-gang



LS-NVP/C
Door Station,
powder-coated
steel, flush
mount, 3-gang

Features

- Vandal and weather resistant
- Stainless steel, mechanical call button (LE-SS, LE-SSV, and LS-NVP/C)
- Red mushroom call button (LE-SSR)
- Moisture and puncture resistant speaker
- 3-layer steel baffle protects speaker from tampering
- Hands-free communication when master answers
- Pigtail wires for connection to master station

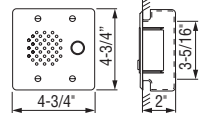
Specifications

Power Source	Supplied by master station
Communication	Hands-free when answered
Speaker	20Ω, 2-1/2" diameter, water and puncture resistant, 2.5 oz. ceramic magnet
Call Button	Mechanical SPST switch, stainless steel (LE-SS, LE-SSV, LS-NVP/C), red mushroom SPST switch (LE-SSR)
Faceplate	12AWG stainless steel (LE-SS-1G, LE-SS, LE-SSR, LE-SSV), 11AWG carbon steel with powder-coated white baked epoxy finish (LS-NVP/C)
Mounting	1-gang box or SBX-1G (LE-SS-1G) for surface mount 2-gang box or SBX-2G (LE-SS, LE-SSR, LE-SSV) for surface mount, 3-gang box or SBX-NVP (LS-NVP/C) for surface mount
Mounting Hardware	Tamper proof screws
Terminations	Color-coded pre-wired pigtails
Wiring	LEM, AP-M and MP-S (homerun): 2-cond., overall shield LEF (homerun): 3-cond., overall shield
Distance	LEF, LEM, LAF-C, AP-M and MP-S: 650'(22AWG) 1,600'(18AWG) AP-M: 490'(22AWG) 1,200'(18AWG) MP-S: 330'(22AWG) 720'(18AWG)
Wire Type	LEF, LEM, LAF-C, AP-M and MP-S (homerun): Aiphone #822202 or #821802 LEF (homerun): Aiphone #821803

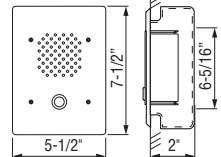
Specifications (LE-SSV Only)

Camera Power Source	12V DC, 100mA (included)
Video Output	75Ω / 1Vp-p composite video
Iris Control	Auto
Min. Illumination	1 Lux
Video Wiring	BNC connection to destination video device

LE-SS, LE-SSR, LE-SSV



LS-NVP/C



Used for:
LEF, LEM, AP-M,
and MP-S

NEM Door Stations

Weather Resistant Audio Door Station - surface mount



NE-DA
Door Station, plastic cover, surface mount, 1-gang

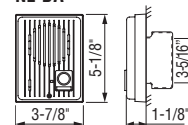
Features

- Weather resistant for outdoor use
- Push button to call master station(s)
- Hands-free communication when master answers
- Compact surface mount design and mounts to 1-gang box or ring
- Equipped with extra contact capability (RY-PA) to activate a remote device at the sub location from the time the call is placed until it's answered
- Corridor lamp (NBY-4A) can be included at each sub station location

Specifications

Power Source	Supplied by master station
Communication	Hands-free when answered
Temp. Rating	14° to 140°F
Wiring	Doors to master: 2-cond., overall shield
Distance	Doors to master: 420'(22AWG) 1,000'(18AWG)
Wire Type	Doors to master: Aiphone #822202 or #821802

NE-DA



Used for:
NEM Series

Weather Resistant Audio Door Station - flush mount



NE-JA
Door Station, stainless steel faceplate, flush mount, 2-gang

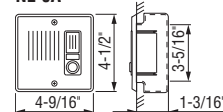
Features

- Weather resistant for outdoor use
- Push button to call master station(s)
- Hands-free communication when master answers
- Slim flush mount design and mounts to 2-gang box or ring
- Equipped with extra contact capability (RY-PA) to activate a remote device at the sub location from the time the call is placed until it's answered

Specifications

Power Source	Supplied by master station
Communication	Hands-free when answered
Temp. Rating	14° to 140°F
Wiring	Doors to master: 2-cond., overall shield
Distance	Doors to master: 360'(22AWG) 880'(18AWG)
Wire Type	Doors to master: Aiphone #822202 or #821802

NE-JA



Used for:
NEM Series

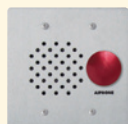
Weather & Vandal Resistant Audio Door Stations - flush mount



NE-SS-1G
Door Station, stainless steel, flush mount, 1-gang



NE-SS
Door Station, stainless steel, flush mount, 2-gang



NE-SSR
Door Station, stainless steel, red mushroom call button, flush mount, 2-gang



NE-NVP/C
Door Station, powder-coated steel, flush mount, 3-gang



NE-NVP-RA
Door Station, powder-coated steel, red mushroom call button, call status indicators, braille signage, flush mount, 3-gang

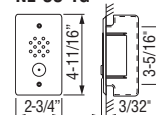
Features

- Vandal and weather resistant
- Stainless steel, mechanical call button (NE-SS, NE-NVP/C, and NE-NVP-RA)
- Red mushroom call button (NE-SSR)
- Moisture and puncture resistant speaker
- 3-layer steel baffle protects speaker from tampering
- Hands-free communication when master answers
- Call-in activates light and tone on master, remaining lit until call is answered at master
- Pigtail wires for connection to master station

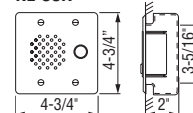
Specifications

Power Source	Supplied by master station
Communication	Hands-free when answered
Speaker	20Ω, 2-1/2" diameter, water and puncture resistant, 2.5 oz. magnet
Call Button	Mechanical SPST switch, stainless steel (NE-SS, NE-NVP/C, and NE-NVP-RA), Red mushroom SPST switch (NE-SSR)
Faceplate	12AWG stainless steel (NE-SS-1G, NE-SS, and NE-SSR), 11AWG carbon steel with powder-coated white baked epoxy finish (NE-NVP/C and NE-NVP-RA)
Mounting	1-gang box or SBX-1G for surface mount 2-gang box or SBX-2G for surface mount 3-gang box or SBX-NVP for surface mount
Mounting Hardware	Tamper proof screws
Terminations	Color-coded pre-wired pigtails
Wiring	Doors to master: 2-cond., overall shield
Distance	Doors to master: 420'(22AWG) 1,000'(18AWG)
Wire Type	Doors to master: Aiphone #822202 or #821802

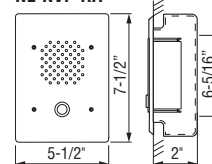
NE-SS-1G



NE-SS, NE-SSR



NE-NVP/C, NE-NVP-RA



Used for:
NEM Series

Door Station Components: *Surface Mount Boxes*

Surface Mount Box for flush mount 1-gang door stations



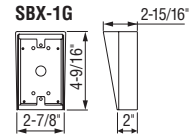
SBX-1G
Surface Mount Box

Features

- Weather resistant
- Includes space inside for wiring
- Mounts directly to wall surface

Specifications

Material	18AWG stainless steel
Color	Polished stainless steel
Mounting Hardware	8 x 32 with T-15 Torx head
Dimensions	4-9/16"H x 2-7/8"W x 2-15/16"D (top), 2"D (bottom)
Interior Depth	2-3/16"



Used for:
LE-SS-1G and NE-SS-1G

Surface Mount Box for 1-gang door stations



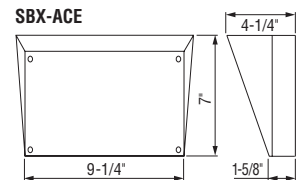
SBX-ACE
Surface Mount
Box for intercom
and access
control device

Features

- Vandal resistant
- Hood provides weather resistance
- Includes blank stainless steel faceplate for wide range of mounting options
- Openings at bottom allow for moisture drainage

Specifications

Material	18AWG stainless steel
Color	Brushed stainless steel
Mounting Hardware	8 x 32 with T-15 Torx head
Dimensions	7"H x 9-1/4"W x 4-1/4"D (top), 1-5/8"D (bottom)
Interior Depth	1-5/8"

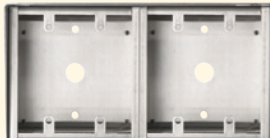


Used for:
Any Aiphone 1-gang audio only door station or audio/video door station with an access control device

Surface Mount Box for 2-gang door stations



SBX-2G
Surface
Mount Box



SBX-2BH
Horizontal
Mount Box



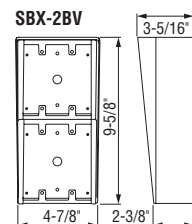
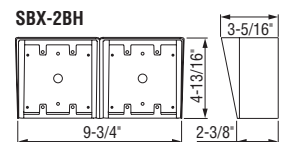
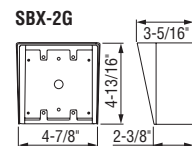
SBX-2BV
Vertical
Mount Box

Features

- Weather resistant
- Includes space inside for wiring
- Mounts to 1-gang box or ring
- Can mount directly to wall surface
- Includes hardware for mounting intercom

Specifications

Material	18AWG stainless steel
Color	Polished stainless steel (SBX-2G, SBX-2BH and SBX-2BV)
Mounting Hardware	8 x 32 with T-15 Torx head
Dimensions	SBX-2G: 4-13/16"H x 4-7/8"W x 3-5/16"D (top), 2-3/8"D (bottom) SBX-2BH: 4-13/16"H x 9-3/4"W x 3-5/16"D (top), 2-3/8"D (bottom) SBX-2BV: 9-5/8"H x 4-7/8"W x 3-5/16"D (top), 2-3/8"D (bottom)
Interior Depth	2-3/16"



Used for:
SBX-2G – AX-SS, IE-JA, IE-SS, IE-SSR, IE-SSV, LE-DA, LE-SS, LE-SSR, LE-SSV, NE-JA, NE-SS, and NE-SSR
SBX-2BH, SBX-2BV – HID-SS with one IE-SS, IE-SSR, IE-SSV, LE-SS, LE-SSR, IE-SSV, NE-SS, or NE-SSR

Door Station Components: *Surface Mount Boxes* (continued)

Surface Mount Box for 3-gang door stations



SBX-NVP
Surface Mount Box



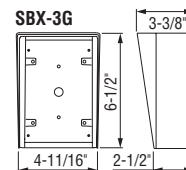
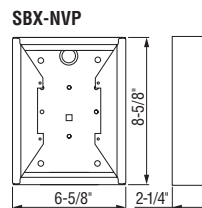
SBX-3G
Surface Mount Box

Features

- Weather resistant
- Includes space inside for wiring
- Mounts to 1-gang box or ring
- Can mount directly to wall surface
- Powder-coated white baked epoxy finish (SBX-NVP)

Specifications

Material	1/8" rolled steel (SBX-NVP) 18AWG stainless steel (SBX-3G)
Color	White, baked epoxy (SBX-NVP) Polished stainless steel (SBX-3G)
Mounting Hardware	8 x 32 with T-15 Torx head
Dimensions	SBX-NVP: 8-5/8"H x 6-5/8"W x 2-1/4"D SBX-3G: 6-1/2"H x 4-11/16"W x 3-3/8"D (top), 2-1/2"D (bottom)
Interior Depth	2" (SBX-NVP) 2-1/8" (SBX-3G)



Used for:

SBX-NVP – LS-NVP/C, NE-NVP/C, and NE-NVP-RA
SBX-3G – AN-8050DS, AN-8050DSW, AN-8540DS

Back Boxes for flush mounting LEF-C Units



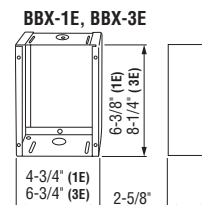
BBX-1E (Shown)
BBX-3E Back
Box for flush
mounting LEF-C units

Features

- Provides easy installation of LEF-C

Specifications

Dimensions	BBX-1E: 6-3/8"H x 4-3/4"W x 2-5/8"D BBX-3E: 8-1/4"H x 6-3/4"W x 2-5/8"D
Used for:	BBX-1E – LE-B, LE-BN, LE-C, LE-CN, LEF-1C and LEF-3C BBX-3E – LEF-5C and LEF-10C



Surface Mount Box for flush mount door stations



SBX-DGV
Surface
Mount Box



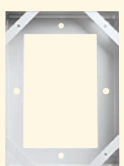
SBX-DVF
Surface
Mount Box



SBX-AXDVF
Surface
Mount Box



SBX-DVF-P
Surface
Mount Box



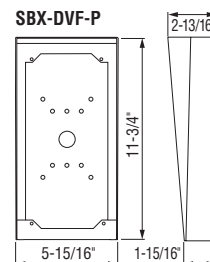
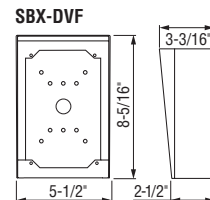
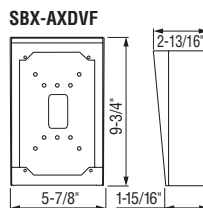
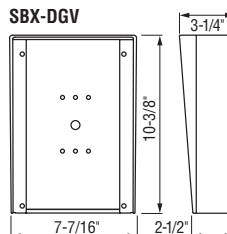
NBX-2
Surface
Mount Box

Features

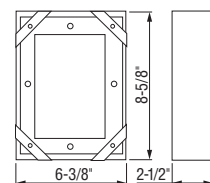
- Hood provides weather resistance
- Includes space inside for wiring
- Can mount directly to wall surface
- Openings at bottom allow for moisture drainage

Specifications

Material	SBX-DGV, SBX-DVF, SBX-AXDVF: 16AWG stainless steel (outer layer) 18AWG stainless steel (inner layer) SBX-DVF-P: 18AWG stainless steel NBX-2: 18AWG steel
Color	Brushed stainless steel
Mounting Hardware	8 x 32 with T-15 Torx head
Dimensions	SBX-DGV: 10-3/8"H x 7-7/16"W x 3-1/4"D (top), 2-1/2"D (bottom) SBX-DVF: 8-5/16"H x 5-1/2"W x 3-3/16"D (top), 2-1/2"D (bottom) SBX-AXDVF: 9-3/4"H x 5-7/8"W x 2-13/16"D (top), 1-15/16"D (bottom) SBX-DVF-P: 11-3/4"H x 5-5/16"W x 2-3/16"D (top), 1-15/16"D (bottom) NBX-2: 8-5/8"H x 6-3/8"W x 2-1/2"D



NBX-2



Used for:

SBX-DGV – JA-DGV
SBX-DVF – JF-DVF, JK-DVF
SBX-AXDVF – AX-DVF
SBX-DVF-P – AX-DVF-P, AX-DVF-XP, JF-DVF-XP/HID/HID-I, and JK-DVF-XP/HID
NBX-2 – NA-NE

Door Station Components: *Security Lock Boxes*

Security Lock Box for video door stations



SBX-LSE
Security Lock Box
(Lock not included)



SBX-LSP
Security Lock Box
(Lock not included)

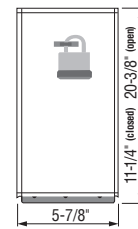
Features

- Lockable enclosure that gives added protection to video door stations after business hours
- Includes a mounting plate for JF-DV/JK-DV
- Able to secure in open position with included "L" bracket

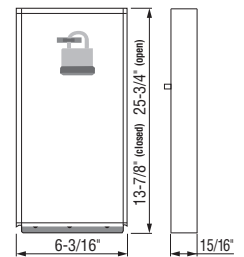
Specifications

Material	18AWG stainless steel
Color	Polished stainless steel
Mounting	1-gang box or mount directly to wall surface
Dimensions	SBX-LSE Closed: 11-1/4"H x 5-7/8"W x 1-9/16"D Open: 20-3/8"H x 5-7/8"W x 1-9/16"D SBX-LSP Closed: 13-7/8"H x 6-3/16"W x 15/16"D Open: 25-3/4"H x 6-3/16"W x 13/16"D
Interior Depth	SBX-LSE: 1-1/2" SBX-LSP: 3/4"

SBX-LSE



SBX-LSP



Used for:

SBX-LSE – JF-DV, JF-DVF, JK-DV, and JK-DVF
SBX-LSP – AX-DVF-P, AX-DVF-XP, JF-DVF-XP/HID/HID-I, and JK-DVF-XP/HID

Door Station Components: *Angle Boxes*

Angle Boxes for surface mount door stations



KAW-D
30° Angle Box



KMB-45
45° Mullion
Mounting Bracket



SBX-DV30
30° Angle Box



SBX-AXDV30
30° Angle Box

Features (KAW-D)

- Can be installed with any Aiphone 1-gang surface mount door station
- Angles 1-gang door stations outward by 30°
- Can mount to either right or left of door
- Hinged faceplate for mounting door station
- Provides a better viewing angle for the camera

Features (KMB-45)

- Can be installed with any Aiphone 1-gang surface mount door station
- Mullion mounts door stations outward by 45°
- Can mount to either right or left of door
- Provides a better viewing angle for the camera

Features (SBX-DV30)

- Designed for angle mounting the JF-DV and JK-DV outward by 30°
- Applicable for wide or double door entrances
- Provides a better viewing angle for the camera

Features (SBX-AXDV30)

- Designed for angle mounting the AX-DV outwards by 30°
- Applicable for wide or double door entrances
- Provides a better viewing angle for the camera

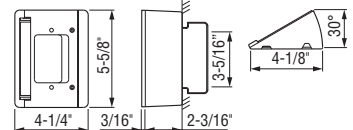
Specifications (KAW-D)

Material	ABS Plastic
Color	Charcoal gray
Mounting	1-gang box or mount directly to wall surface
Dimensions	5-5/8"H x 4-1/4"W

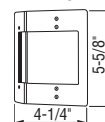
Specifications (SBX-DV30 & SBX-AXDV30)

Material	18AWG stainless steel
Color	Polished stainless steel
Mounting	1-gang box or mount directly to wall surface
Dimensions	SBX-DV30: 6-13/16"H x 3-5/8"W x 2-3/4"D (top) 3/4"D (bottom) SBX-AXDV30: 7-5/8"H x 3-7/8"W x 2-3/4"D (top) 5/8"D (bottom)

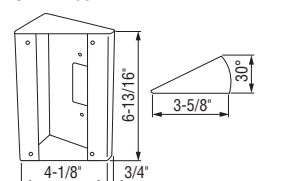
KAW-D



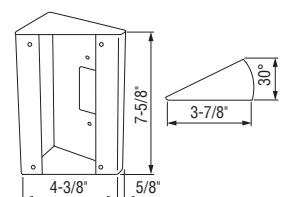
KMB-45



SBX-DV30



SBX-AXDV30



Used for:

KAW-D, KMB-45 – 1-gang audio and 1-gang audio/video door stations
SBX-DV30 – JF-DV and JK-DV
SBX-AXDV30 – AX-DV

Door Station Components: *Decorative Faceplates*

Decorative Faceplates



ICP-BR
Brass
Faceplate

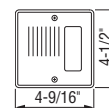


ICP-AB
Antique
Brass
Faceplate

Features

- Stainless steel brass plated (ICP-BR) or antique brass plated (ICP-AB)
- Replaces stainless steel cover on IE-JA, LE-DA and NE-JA

ICP-BR, ICP-AB



Used for:

IE-JA, LE-DA, and NE-JA

Call Extension

Call Extension Speakers



IER-2
Call Extension
Speaker



DAR-1
Call Extension
Sounder

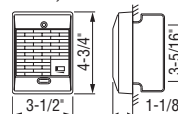
Features

- Announces chime tone only
- Adjustable volume (3 positions)
- Indoor mounting

Specifications

Wiring Single pair of wires, non-polarized
Dimensions 4-3/4"H x 3-1/2"W x 1-1/8"D

IER-2, DAR-1



Used for:

IER-2 –
DB Series, JA Series,
JF Series, JK Series,
KB Series, KC Series,
and NEM Series
DAR-1 – DA-1MD

Door Release Components

Electric Door Strike



EL-12S
Electric Door Strike,
12V AC/DC, 200mA
(Requires PT-1210N)*



PT-1210N
AC Transformer,
12V AC

*PT-1210N not required with DA & DB Series

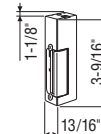
Features

- Door release activation, momentary or talk line-controlled
- Controlled by N/O contact

Specifications

Power Source 12V AC/DC, 200mA -
Use PT-1210N

EL-12S



Used for:

C-123L/A, C-123LW, DA-1DS, DA-2DS/4DS,
IE-8MD, JA Series, JF Series, JK Series, KB Series,
KC Series, LEF Audio, LEM-1DL, and LEM-1DLC

Door Release Relays



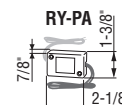
RY-PA
Door Release
Relay

Features

- Door release activation, momentary or talk line controlled
- Controlled by N/O contact

Specifications

Power Source 12V DC
Relay Contact Rating 24V DC, 1A



Used for:

LEF Series

Door Release Adaptor



RY-3DL
Selective Door
Release Adaptor

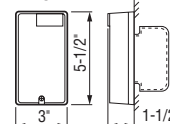
Features

- Selective door release with one button
- Door release contacts release the door where communication is established
- Normally open (N/O) contacts for electric strike
- Normally closed (N/C) contacts for magnetic locks

Specifications

Power Source 12-24V DC, 30mA, 12-16V AC, 60mA -
Use PS-2420UL or PS-1820UL
Relay Contact Rating N/O or N/C output: 1A @ 50V AC, 1A @ 30V DC
(for other types use matching relay)
Distance Master to RY-3DL: 165'(22AWG) 330'(18AWG)

RY-3DL



Used for:

JA Series, JF Series
and KB Series

Door Release Components (continued)

Form C Door Release Relay



RY-18L
Form C Door
Release Relay



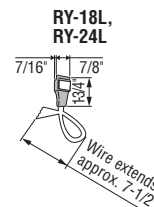
RY-24L
Form C Door
Release Relay

Features

- Normally open (N/O) contact with high current rating for door strikes
- Normally closed (N/C) contact with high current for mag lock
- Use RY-18L in place of RY-PA if N/C contact is required

Specifications

Power Source	Supplied by master station
Terminations	Color-coded pre-wired pigtails
Relay Input	RY-18L: 12~18V DC, red and gray wires, 22AWG RY-24L: 24~36V DC, red and black wires, 22AWG
Relay Output	Brown, orange and yellow wires, 18AWG
N/O Output Rating	5A @ 30V DC, 10A @ 125V AC, 3A @ 250V AC
N/C Output Rating	3A @ 30V DC or 125V AC
Wiring	2-cond. to door release, 2-cond. to strike with power for strike wired in series
Dimensions	1-3/4"H x 7/8"W x 7/16"D with wires extending approx. 7-1/2"

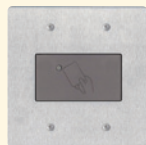


Used for:

RY-18L – JF Series, JK Series, LEM Series, and LEF Series
RY-24L – AX Series, JA Series, KB Series, and KC Series

Access Control Devices

HID® Proximity Card Reader



HID-SS
Accessory Station
with an embedded
HID® Proximity
Card Reader

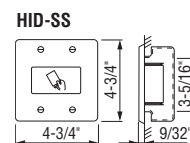
Features

- 2-gang stainless steel unit containing an HID ProxPoint® Plus Card Reader
- Installs next to any one of Aiphone's 2-gang stainless steel door stations, creating a unified look
- Horizontal (SBX-2BH) and vertical (SBX-2BV) boxes are available for mounting the HID-SS with a 2-gang stainless steel door station
- Provides electronic access to a building through the standard Access Control system (not supplied by Aiphone)

Specifications

Power Source	5~16V DC
Terminations	Pigtail cable, 18" (45cm)
Requirements	20mA avg., 75mA peak @ 12V DC

NOTE: HID® stations require a 3rd party host



Used for:

IE-JA, IE-SS, IE-SSR, IE-SSV, LE-DA, LE-SS, LE-SSR, LE-SSV, NE-JA, NE-SS, and NE-SSR

Stand-Alone Proximity Card Reader



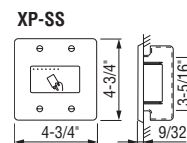
XP-SS
Accessory Station
with an embedded Stand-Alone
Proximity Card Reader
(Requires XP-KIT for programming - See below)

Features

- 2-gang stainless steel unit containing a stand-alone proximity card reader with host controller
- Installs next to any one of Aiphone's 2-gang stainless steel door stations, creating a unified look
- Horizontal (SBX-2BH) and vertical (SBX-2BV) boxes are available for mounting the XP-SS with a 2-gang stainless steel door station
- Provides electronic access to a building without the need for a 3rd party host controller or PC

Specifications

Power Source	12V DC
Terminations	Pigtail cable, 18" (45cm)
Programming	Requires XP-KIT (see below)



Used for:

IE-JA, IE-SS, IE-SSR, IE-SSV, LE-DA, LE-SS, LE-SSR, LE-SSV, NE-JA, NE-SS, and NE-SSR

XP Door Station Kit



XP-KIT*
Includes
keypad (XRP3),
programming
cards, and 10
blank entry
cards (XC4/9)

* (1) XP-KIT is
required per system

Features

- One XP-KIT may be used to program multiple XP Card Readers
- Required for any station with an XP Card Reader
- Wireless programming allows user to easily add and remove credentials
- Different security levels can be assigned so individuals have appropriate access
- All credentials have a unique 9-digit ID number for organization and logging
- A blank log sheet template is included to document card ID numbers, authorized users, access level, as well as additional notes
- Additional proximity cards can be ordered (P/N 289950)

Used for:

AX-DV-XP, AX-DVF-XP, JF-DVF-XP, JK-DVF-XP, and XP-SS Embedded Stand-Alone Card Reader Door Stations

Access Control (continued)

Access Control Keypads



AC-10S

Access Control Keypad, zinc die cast to match JF-DV and JK-DV, surface mount



AC-10F

Access Control Keypad, stainless steel, flush mount

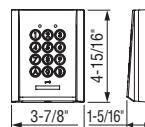
Features

- Access control with up to 100 unique user codes
- Can be used as a stand-alone access control device
- Compact size in a stylized design
- 12-digit backlit keypad
- Matches JF-DV and JK-DV (AC-10S)
- Easy to install

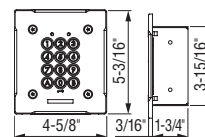
Specifications

Power Source	12-24V AC/DC
Output Rating	2 relays, N/O and N/C 3A (resistive), 1A (inductive) @ 24V
Dimensions	AC-10S: 4-15/16"H x 3-7/8"W x 1-5/16"D AC-10F: 3-15/16"H x 3-1/3"W x 1-3/4"D

AC-10S



AC-10F



Used for:

JF and JK Series or as a stand-alone unit

External Relays

External Signaling Relays



RY-AC/A
External
Signaling
Relay



RY-ES
External
Signaling
Relay

Features (RY-AC/A)

- RY-AC/A allows external device to be triggered when intercom is called
- External device will be activated momentarily as long as the call button on the door station is activated
- DAK-2S required when used with C-123LA/LW and LEM/LEM-1DL

Specifications (RY-AC/A)

Power Source	12V DC
Relay Contact Rating	240V AC, 0.3A 24V DC, 1A (bell, buzzer, chime, etc. must be AC operated or DC mechanical type only)

Features (RY-ES)

- RY-ES allows external device to be triggered when intercom is called
- External device will be activated when the door station calls in

Specifications (RY-ES)

Power Source	12-24V DC, 12-16V AC
Relay Contact Rating	125V AC, 1.0A 30V DC, 1.0A

**RY-AC/A,
RY-ES**



Used for:

RY-AC/A – C-123L/A, C-123LW, IE-8, LEF, LEM, LEM-1DL, and TD-H/B Series
RY-ES – AX, JK, JF, JA, KB, KC, NEM, DB and IE-8 Series

Long Distance Adaptors

Long Distance Adaptors for color video door stations



JBW-BA
Long Distance
Door Station
Adaptor



JKW-BA
Long Distance
Door Station
Adaptor

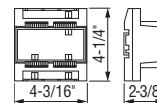
Features

- Extends wiring distance to video monitors up to 980' max (820' max. when used with JF Series)
- Functions with JA, JF, JK, and KC video door stations
- Requires low capacitance Aiphone cable #851602 or #851602DB

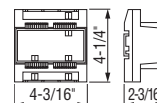
Specifications

Power Source	JBW-BA: 18-24V DC JKW-BA: 18V DC
Capacity	One adaptor unit for each video door station located beyond the standard specified wire distance
Mounting	Use W-DIN11
Dimensions	4-1/4"H x 4-3/16"W x 2-3/8"D (JBW-BA) 2-3/16"D (JKW-BA)
Distance	JBW-BA: 820' (JF Series), 980' (JA & KC Series) JKW-BA to Door: 650' (JK Series) JKW-BA to last monitor: 330' (JK Series)
Wire Type	Aiphone #851602 or #851602DB (direct burial)

JBW-BA



JKW-BA



Used for:

JBW-BA – JA Series, JF Series, and KC Series
JKW-BA – JK Series

Transmission and Reception Interface Units

Transmission & Reception Interface Units for AX Series



AXW-AVT
Door Station IP
or Fiber Optic
Transmission
Interface Unit

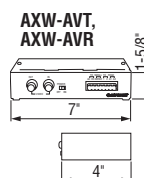


AXW-AVR
Door Station
Fiber Optic Reception
Interface Unit

Features

- Interfaces AX video door station with 3rd party alternate transmission methods for longer distances
- Fiber optic or IP connectivity

NOTE: For a list of approved devices visit our website at www.aiphone.com/products/alpha-list/detail/ax to download the AXW-AVT(R) Instructions or contact Aiphone Technical Support at (800) 692-0200/tech@aiphone.com



Specifications

Power Source	AXW-AVT: 24V DC, 500mA - Use Aiphone PS-2420UL AXW-AVR: Supplied by AX CEU
Video In & Out	Composite 1V Peak-to-Peak, NTSC
Video Connectors	BNC
Relay	N/O contact output, 30V DC, 1A
Sensor	N/C contact input
Dimensions:	AXW-AVT, AXW-AVR: 1-5/8"H x 7"W x 4"D
Distance	AXW-AVT to Door, AXW-AVR to CEU: Max. 980' (cumulative) AXW-AVT and AXW-AVR to 3rd party devices: Do not exceed 16'
Wire Type	CAT-5e, 24AWG UTP-4

Used for:
AX Series

Video Input Modulators

CCTV Input Module for AX, JA, and JF Series



AXW-AZ
CCTV Input
Module



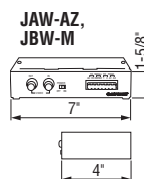
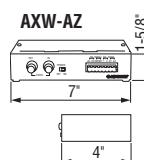
JAW-AZ
CCTV Input
Module



JBW-M
CCTV Input
Module

Features

- Allows CCTV camera to be viewed on Aiphone monitor
- Standard motion detector used to auto-activate camera
- Audio door station can be used for communication to camera location
- Relay output to trigger external device when CCTV camera is activated
- Video output for connection to standard CCTV monitor or recorder for full time video signal
- Sensor input to trigger CCTV automatically
- Video Output allows constant viewing of CCTV Camera



Specifications

Power Source	JAW-AZ & JBW-M: Supplied by master station AXW-AZ: Supplied by CEU
Video In/Out	75Ω composite video, 1V p-p
Video Connector	BNC
Video Monitoring	30 sec., controlled by master
Camera Activation	N/C sensor input, or by master
Dimensions	1-5/8"H x 7"W x 4"D
Distance	JAW-AZ/JBW-M to JA/JF Series master: 165' (22AWG) 330' (18AWG) AXW-AZ to AX Series CEU: 980' (CAT-5e) JA/JF Series: Aiphone #871802 AX Series: CAT-5e
Wire Type	

Used for:
AXW-AZ – AX Series
JAW-AZ – JA-2MCD and JA-2MECD
JBW-M – JF Series

Video Input Modulators (continued)

CCTV Input Module for KB Series



KBW-M
CCTV Input
Module

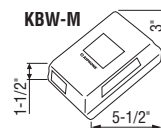
Features

- Allows CCTV camera to be viewed on Aiphone monitor
- Can be installed up to 650' away from KB-3MRD and wired with Aiphone #871802 (2-cond. mid cap wire)

- Motion detector with normally open (N/O) contact used to auto-activate the camera
- Small, easily installed and concealed
- BNC connector for CCTV camera

Specifications

Power Source	Supplied by KB-3MRD
Video Input	75Ω composite video, 1V p-p
Video Connector	BNC
Video Monitoring	30 sec., controlled by KB-3MRD
Camera Activation	N/O sensor input, or by master
Dimensions	5-1/2"H x 3"W x 1-1/2"D
Wire Type	Aiphone #871802



Used for:
KB-3MRD

Demodulator

CCTV Demodulator for Aiphone's Video Series



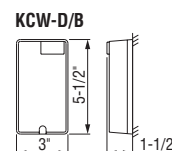
KCW-D/B
Video output
converter to
CCTV/DVR

Features

- Composite (1V peak-to-peak) video signal compatible with CCTV monitor or RF modulator to tie into cable distribution system
- Use to record video from entry system for security purposes
- Video out for the KC, GF, and GH Series
- Video signal present when Aiphone monitor is on
- Compact design, easy to install

Specifications

Power Source	Supplied by master station
Video Input	2-cond. for video and 2-cond. for power
Video Output	75Ω composite video, 1V p-p
Video Monitoring	30 sec., controlled by master
Camera Activation	Activated by master or door station call button
Dimensions	5-1/2"H x 3"W x 1-1/2"D
Distance	Master to KCW-D/B: 30'(18AWG)
Wire Type	Aiphone #871802



Used for:
KC Series, GF Series,
and GH Series

Adaptors

Dual Master Call Adaptor



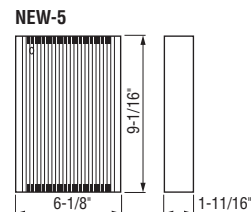
NEW-5
Dual Master
Call Adaptor

Features

- Parallel-call adaptor for use with Aiphone's NEM system
- Calls from sub stations (max. 5) connected to NEW-5 signal two master stations simultaneously
- One adaptor per 5 subs in a system

Specifications

Power Source	12V DC - Use PS-1225UL
Talk Channel	Separate communication channel for each master, but with the possibility of cross-talk
Wiring	2 cond., shielded between NEW-5 and subs 10 cond., homerun from NEW-5 to each NEM master
Dimensions	9-1/16"H x 6-1/8"W x 1-11/16"D



Used for:
NEM Series

Background Music Adaptor



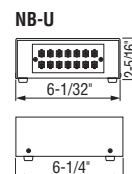
NB-U
Background
Music Adaptor

Features

- Background music interface for the NEM system (requires T3115BGM)
- Background music will automatically mute throughout the entire system during calling and communication
- Background music can not be switched off at sub station

Specifications

Power Source	Supplied by master station
Input	30W @ 25V (PA Amp)
Dimensions	2-5/16"H x 6-1/32"W x 6-1/4"D



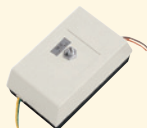
Used for:
NEM Series

Paging Accessories

Paging Adaptors for AP-M, AX, LEF, LEM, MC, MP-S, and NEM Series



AXW-PA1
Paging
Adaptor



BA-1
Paging
Adaptor



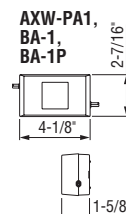
BA-1P
Paging
Adaptor



MC-A/A
Zone Paging
Adaptor

Features (AXW-PA1, BA-1 and BA-1P)

- Page from an intercom master station out to a PA system to make announcements or to locate a person
- Takes the place of a separate microphone for paging where there is an intercom
- School uses: page hallways, playground areas, cafeteria, etc.
- Medical facilities and/or office uses: Page waiting areas, hallways, break rooms, etc.



Specifications (AXW-PA1, BA-1 and BA-1P)

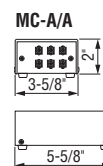
Power Source	Supplied by master station/CEU
Input	BA-1: 20KΩ BA-1P: 8KΩ AXW-PA1: Direct CEU connection
Output	BA-1, BA-1P: 10KΩ AXW-PA1: 600Ω
Output to Adaptor	0dB and -20dB, selectable
Requirements	AUX input (10KΩ) or 100mV for rated output
Dimensions	2-7/16"H x 4-1/8"W x 1-5/8"D
Wiring	2-cond. from master
Wire Type	Aiphone #822202

Used for:

AXW-PA1 – AX Series
BA-1 – LEF Series, LEM Series, and NEM Series
BA-1P – AP-M Series and MP-S Series

Features (MC-A/A)

- Separate music and paging controls: bass, treble and volume
- Paging pre-tone volume control
- Connects to standard paging amplifier
- Background music can be included and automatically mutes during page



Specifications (MC-A/A)

Power Source	24V DC - PS-2420UL
Input	AUX 10KΩ, 0.3V~0.5V
Music Output	Range 100mV~1.2V, 10KΩ or less
Dimensions	5-5/8"H x 3-5/8"W x 2"D

Used for (MC-A/A):
MC-60/4A

Paging Adaptors for TD-H Series



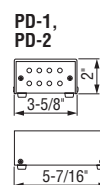
PD-1
Zone Paging
Adaptor



PD-2
Zone Paging/
Talkback Adaptor

Features

- Provides paging from TD-H handsets to an overhead PA system
- Single or multi-zones, one station capacity per zone
- PAGE button located in TD-H handsets
- Music source connection, automatically mutes when paging



Specifications

Power Source	PD-1: 12V DC, 300mA PD-2: 12V DC, 48mA (talkback) Use PS-1225UL of TD-H system
Output	5KΩ, 1.5V max.
Paging & Music Ctrls.	Treble 12dB at 10KHz, Bass 12dB at 100KHz
Amp. Input	AUX or PHONO 100K~500KΩ, 0.12V~0.5V
Music Input	17KΩ, 0.3V, 1KHz for full output
Tuner Output	Audio output range: 100mV~1.2V, 10KΩ or less
Talkback Gain	40dB, 1KHz at max. volume
Environmental Noise	Less than 80dB (phono)
Paging	Select an assigned selector number and page by pushing PAGE button and release to receive response
Dimensions	2"H x 3-5/8"W x 5-7/16"D
Wiring	3-cond. to TD-H/B via power supply

Used for:
TD-H Series

Paging Accessories (continued)

Paging Amplifiers



T3115BGM
15W Paging
Amplifier



T3130BGM
30W Paging
Amplifier



DMA2060
60W Paging
Amplifier



DMA2120
120W Paging
Amplifier

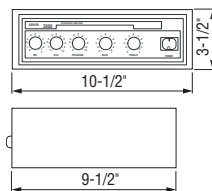
Features (T3115BGM and T3130BGM)

- 4 channel inputs, 2 zone outputs
- Wide frequency response - very low distortion
- Independent input controls (bass and treble)
- Direct muting or unmuting
- AC accessory outlet
- 8 Ω , 25V and 70V output impedance
- UL 6500 listed (US and Canada)

Specifications (T3115BGM and T3130BGM)

Power Source	120V AC, 60Hz
Output	T3115BGM: 15W RMS T3130BGM: 30W RMS
Input	Microphone: 250 Ω balanced Telephone: 600 Ω balanced, Auxiliary: 47K Ω Program: 10K Ω balanced
Distortion	Less than 0.5% THD
Dimensions	3-1/2"H x 10-1/2"W x 9-1/2"D

T3115BGM, T3130BGM



Used for:

MC-604/A, TD-H,
and paging systems

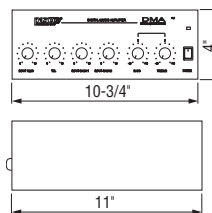
Features (DMA2060 and DMA2120)

- 4 channel inputs, 2 zone outputs
- High performance - high reliability design
- Wide frequency response - very low distortion
- Independent input controls (bass and treble)
- Direct muting or unmuting
- AC accessory outlet
- 8 Ω , 25V and 70V output impedance
- 24V DC, 250mA regulated power supply output
- UL 6500 listed (US and Canada)

Specifications (DMA2060 and DMA2120)

Power Source	120V AC, 60Hz
Output	DMA2060: 60W RMS DMA2120: 120W RMS
Input	Microphone: 1.5M 250 Ω Telephone: 100M 600 Ω balanced, Auxiliary 1: 100M 47K Ω Auxiliary 2: 100M 47K Ω
Distortion	Less than 0.01% THD at 1kHz rated output
Dimensions	4"H x 10-3/4"W x 11"D

DMA2060, DMA2120



Used for:

MC-604/A, TD-H,
and paging systems

Speaker Stations

Indoor Ceiling Speaker Stations - flush mount



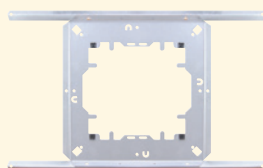
SP-20N

Ceiling Speaker,
20 Ω , 4W, flush
mount (Requires
NP-25V capacitor)

SP-2570N

Ceiling Speaker,
25/70V, 4W,
flush mount

NP-25V
Non-polarized
capacitor, 33 μ F, 25V



SSB-2

Ceiling Support
Bracket for SP-20N
and SP-2570N

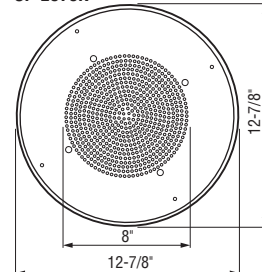
Features

- Ceiling flush mount
- 8" dual cone speaker with 12-7/8" white baffle
- Provides two-way communication (SP-20N only)
- Call button can be added to call master station (additional components required - SP-20N only)
- Excellent sound and voice reproduction
- Easy installation in a drop tile ceiling using the SSB-2

Specifications

Power Capacity	4 watts RMS
Impedance	SP-20N: 20 Ω direct SP-2570N: 8 Ω direct or 25/70V transformer
Frequency Response	65-17KHz
Wattage taps	SP-2570N: 25V - 0.325, 0.625, 1.25, 2.5, and 5 70V - 0.312, 0.625, 1.25, 2.5, and 5
Dimensions	8" diameter speaker with a 12-7/8" diameter white baffle

SP-20N, SP-2570N



Used for:

SP-20N - LEM Series
and LEF Series
SP-2570N - Any
Aliphone intercom
system with
paging ability

Speaker Stations (continued)

Indoor Ceiling Sub Speaker Stations

– flush mount with surface mount options



AS-3N
Ceiling Sub
Speaker
Station



NB-L
Ceiling Sub
Speaker
Station



NBZ-M
Square Frame for
AS-3N and NB-L,
flush mount



N-EA
Round Frame for
AS-3N and NB-L,
surface mount

Features (AS-3N)

- Overhead hands free communication with master station
- Remote push button to call master station (optional)
- Call-in activates tone and light at master
- Call-in LED remains activated for 20 seconds after call button is released (MP-3S, AP-5M, and AP-10M only)
- Flush mounts in ceiling with provided equipment

Specifications (AS-3N)

Call button	Optional NP-B (with NP-W surface box if required)
Mounting	Flush mount in ceiling
Dimensions	7-1/16" x 1-7/8" (Diameter x Depth)

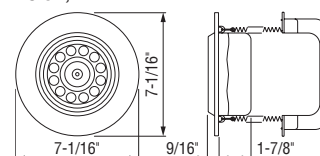
Features (NB-L)

- Overhead hands free communication with master station
- Remote push button to call master station (optional)
- Call-in activates tone and light at master
- Call tone and LED remain until call is answered
- Flush mounts in ceiling with provided equipment

Specifications (NB-L)

Call button	Optional NAR-6A (with NP-W surface box if required)
Mounting	Flush mount in ceiling
Dimensions	7-1/16" x 1-7/8" (Diameter x Depth)

AS-3N, NB-L



Used for:

AS-3N – MP-S Series
and AP-M Series
NB-L – NEM Series

Indoor & Outdoor Horn Speaker Stations

– surface mount



AH-108
8 Ω , 10W
Horn Speaker



AH-16TN
8 Ω , 25/70V, 16W
Horn Speaker
AH-32TN
25/70V, 32W
Horn Speaker

Features (AH-108)

- All metal weather proof construction for indoor or outdoor use
- Universal swivel mount base
- Beige baked enamel finish
- 8 Ω , 10W horn speaker with built-in, non-polarized capacitor

Features (AH-16TN)

- Built-in 25/70V transformer provides 1, 2, 4, 8 and 16 watt taps, plus 8 Ω direct
- High intelligibility, used for paging into large or high noise areas
- All metal weather proof construction for indoor or outdoor use
- Screwdriver selectable wattage taps
- Universal swivel mount base
- Beige baked enamel finish

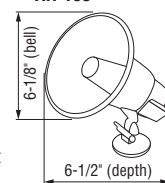
Features (AH-32TN)

- Built-in 25/70V transformer which provides 2, 4, 8, 16 and 32 watt taps
- High intelligibility, used for paging into large or high noise areas
- All metal weather proof construction for indoor or outdoor use
- Screwdriver selectable wattage taps
- Universal swivel mount base
- Beige baked enamel finish

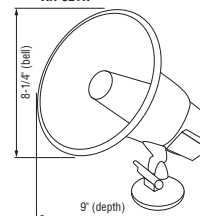
Specifications

Power Capacity	10/16/32 watts (continuous)
Impedance	Varies by model
Frequency Response	350~15,000KHz
Wattage Taps	AH-16TN: 8 Ω direct or 25V - 0.5, 1, 2, 4 and 8 70V - 1, 2, 4, 8 and 16 AH-32TN: 25V - 1, 2, 4, 8 and 16 70V - 2, 4, 8, 16 and 32
Dispersion Angle	Varies by model
Sound Pressure	AH-108: 110dB at rated output measured on a 4' axis AH-16TN: 119dB at rated output measured on a 4' axis AH-32TN: 124dB at rated output measured on a 4' axis
Sensitivity (Mic.)	-28dBm (Re: 10 dynes/cm ²)
Dimensions	AH-108: 6-1/8" bell x 6-1/2" deep AH-16TN & AH-32TN: 8-1/8" bell x 9" deep

AH-108



AH-16TN, AH-32TN



Used for (AH-108):

Mid-power (MP-S) system for two-way communication, can also be used with LEF and NEM systems with LT-1 (NEM requires additional equipment)

Used for (AH-16TN):

High-power (AP-M) system, set on 8 Ω tap for two-way communication (add NP-25V capacitor or NP-B call button when using with MP-S or AP-M systems) and Aiphone systems with a 70V paging ability

Used for (AH-32TN):

Aiphone systems with a 70V paging ability

UL Listed Class 2 Power Supplies and Transformers

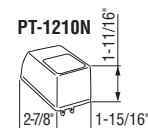
AC Transformer – 12V AC



PT-1210N
AC Transformer,
12V AC

Specifications

Model	PT-1210N
Input Voltage	120V AC, 60Hz
Output Voltage	12V AC, 10VA, 830mA



Used for:

CCS-1A, EL-12S,
IE-8MD, and LEM-1DL

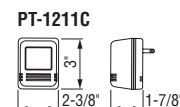
AC Transformer – 15V AC



PT-1211C
AC Transformer,
15V AC

Specifications

Model	PT-1211C
Input Voltage	120V AC, 60Hz
Output Voltage	15V AC



Used for:

DA-1DS, DA-4DS,
DB-1MD, DB-1SD,
and IPW-1A

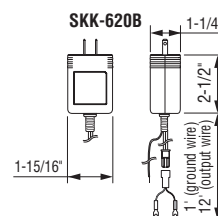
Power Supply – 6V DC



SKK-620B
Power Supply,
6V DC

Specifications

Model	SKK-620B
Input Voltage	120V AC, 60Hz
Output Voltage	6V DC, 200mA



Used for:

AT-406, C-123L/A,
C-123LW, LEM,
and TAR-3

Power Supplies – 12V DC



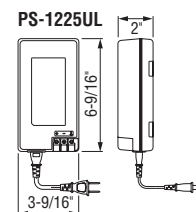
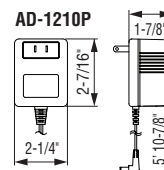
AD-1210P
Power Supply,
12V DC, 1A



PS-1225UL
Power Supply,
12V DC, 2.5A

Specifications (PS-1225UL)

Model	PS-1225UL
Input Voltage	100~240V AC, 50/60Hz, 37W, 65~82VA
Output Voltage	12V DC, 2.5A



Specifications (AD-1210P)

Model	AD-1210P
Input Voltage	120V AC, 60Hz
Output Voltage	12V DC, 1A

Used for:

AD-1210P – AN Series
PS-1225UL – LEF and
LEF-C, MP-S, TB-AD10,
TD-H/B, and NEW-5

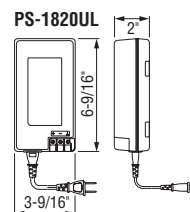
Power Supply – 18V DC



PS-1820UL
Power Supply,
18V DC, 2A

Specifications

Model	PS-1820UL
Input Voltage	100~240V AC, 50/60Hz, 45W, 75~95VA
Output Voltage	18V DC, 2A



Used for:

JF Series and JK Series

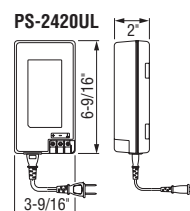
Power Supply – 24V DC



PS-2420UL
Power Supply,
24V DC, 2A

Specifications

Model	PS-2420UL
Input Voltage	100~240V AC, 50/60Hz, 60W, 100~125VA
Output Voltage	24V DC, 2A



Used for:

AX Series, GF Series,
GH Series, IM Series,
JA Series KB Series,
KC Series, MC-60/4A Series,
NEM Series, and NHX Series

Surge Arrestor

Surge Arrestor

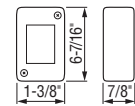


SA-1
Surge
Arrestor

Features

- A surge arrestor designed to protect Aiphone intercom systems from damage due to power surges and lightning strikes
- Can be used to protect power inputs to all Aiphone DC powered systems and intercom circuits by dispersing surges on the station wires
- Each SA-1 will protect two intercom station wires and discharge up to 180V of surge voltage

SA-1



Used for:

AP-M, C-123L/A, CCS-1A, GF Series, IE Series, KB Series, KC Series, LEF, LEM, MC-60/4A, MP-S, NEM, and Power Supplies

Miscellaneous Accessories

All Call, Music & Chime Adaptor

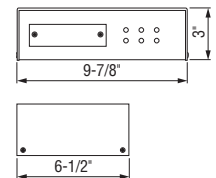


BG-10C
All Call, Music and
Chime Adaptor
(1 BG-10C is required for every 11 stations)

Features

- Music ON/OFF switch plus music and chime selector switch for each station
- Chime volume control plus music, bass and treble controls
- All Call pre-tone volume and speech volume controls
- Terminals for power supply, music and door station connection and LEF-C network (All Call and music receiving)
- Provides All Call and door chime for LEF-C and LEF-10S systems
- Background music input

BG-10C



Specifications

Power Source	12V DC, 2.5A (music max. output), 1.5A (All Call, music and chime), 0.1A (standby)
All Call Transmit	From LEF-1C, LEF-3C, LEF-5C, LEF-10C, and LEF-10S
All Call Receive	All LEF master stations plus LE-C and LE-CN
BGM Input	AUX R, E and AUX L, E
Controls	Music ON/OFF, 11 selector switches of music and chime (chime only or off)
Wiring	BG-10C to LEF-10C: 19 wires max. To each LE-D or LE-DA: 3 wires
Wire Type	Aiphone #822220

Used for:
LEF Series

Motion Detector Adaptor for video door stations



MKW-DK/A
Motion Detector
Adaptor for video
door station(s)

Features

- For enhanced security with Aiphone video entry systems, a standard motion detector (with N/O contacts) can be used to activate the camera automatically
- The MKW-DK/A can be used with JA, JF, and KC Series
- Connects to motion detector or remote activation device
- Small enough to be concealed behind the video door station (with the KB system use the KB-DAR-M)
- Only wiring needed is from the motion detector to the camera location

Used for:

JA, JF, and KC Series

Auxiliary Light Control Relays



MAW-B
Auxiliary Light
Control Relay



SKK-620B
Power Supply, 6V DC



TAR-3
External
Signaling Relay
(Requires SKK-620B)

Features (MAW-B)

- Used for turning on an auxiliary light to spotlight a caller at the entrance
- Light is illuminated when the door call button is pushed and during visual monitoring mode

Specifications (MAW-B)

Power Source	24V DC - Use PS-2420UL of system
Contact Rating	Dry closure contact for incandescent light for general lighting of less than 100W

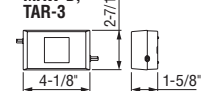
Features (TAR-3)

- Allows integration of a doorbell to intercom
- Device will be activated as long as chime is ringing

Specifications (TAR-3)

Power Source	6V DC - Use SKK-620B
Relay Contact Rating	240V AC, 0.3A, 24V DC, 1A (bell, buzzer, chime, etc. must be AC operated or DC mechanical type only)

MAW-B, TAR-3



Used for:

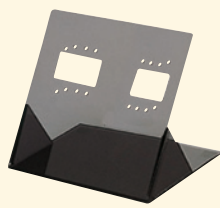
MAW-B - KB-3MRD and GF-DA
TAR-3 - AT-406 and GH Series

Miscellaneous Accessories (continued)

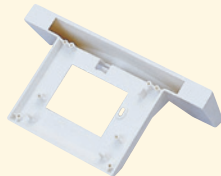
Desk Stands



MCW-S/A
Monitor Desk
Stand



MCW-2S
Monitor/Picture
Memory Unit
Desk Stand

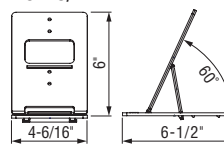


GFW-S
Desk
Stand

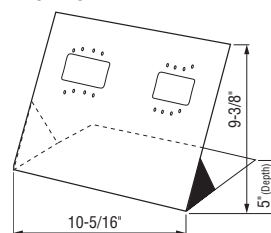
Features

- Allows desk mounting of monitor and/or handset
- Monitor and/or handset is propped up for easier viewing
- Pre-drilled mounting holes
- MCW-S/A is made of ABS plastic
- MCW-2S is made of plexiglass
- Adjustable to 45° or 60° angles (MCW-S/A)

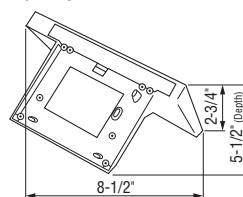
MCW-S/A



MCW-2S



GFW-S

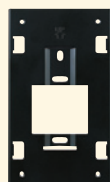


Used for:

MCW-S/A – AX-8M, AX-8MV, AX-8MV-W, DB-1MD, DB-1SD, GH-1KD, JA-2MCD, JA-2MECD, JF-2MED, JF-2HD, JK-1MD, JK-1HD, JK-1MED, KB-3MRD, KB-3HRD, KC-1GRD, KC-1HRD, KC-1MRD

MCW-2S – KB and KC monitors with KC-32EU
GFW-S – GF-MK and GH-MK

Mounting Plates

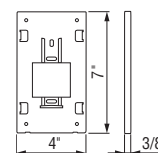


MKW-P
Mounting
Plate, 1-gang

Features

- Hardware included
- Adapts surface mount door stations to standard 1-gang box or ring

MKW-P



Used for: JF-DV and JK-DV

Dual Master Adaptor Kit



DAK-2S
Dual Master
Adaptor Kit

Features

- Allows second master station to be used in C-123L/A, LEM and MP-S systems
- Allows RY-AC/A to be used for external signaling in C-123L/A, LEM and MP-S systems
- Two component modules per kit
- Included with the C-123LW and C-ML/A

Used for:

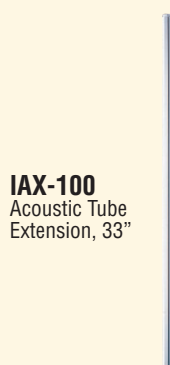
C-ML/A, LEM-1DL, MP-1S, and MP-3S

Gooseneck Microphone & Acoustic Tube

IME-100
Gooseneck
Microphone



IAX-100
Acoustic Tube
Extension, 33"



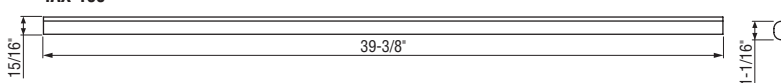
Specifications (IME-100)

Microphone Condenser microphone, omni-directional
Input Sensitivity -46dB
Weight Approx. 190g (0.42lbs.)

IME-100



IAX-100



Specifications (IAX-100)

Housing Aluminum
Weight Approx. 650g (1.43lbs.)

Used for:

IM Series

Optional Microphone & Sensor



IME-150
Optional
Microphone



ISE-100
Proximity
Sensor

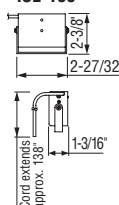
Specifications (IME-150)

Microphone Condenser microphone, omni-directional
Housing Aluminum
Weight Approx. 150g (0.31lbs.)
Wire Aiphone #821802

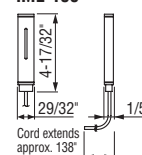
Specifications (ISE-100)

Power Source 24V DC - supplied by IMU-100
Housing Aluminum
Weight Approx. 120g (0.26lbs.)
Wire Aiphone #821802

ISE-100



IME-150



Used for:

IM Series

TERMINOLOGY

10/100Base-T: Most commonly used for the Ethernet/Fast Ethernet standards with cables based on two twisted wire pairs. The number “10/100” indicates the carrying capacity of 10/100 Mbit/sec.

All Call: On systems with this feature, by pushing the All Call button, then the Talk button, the announcement will be transmitted throughout inside intercom stations in the system. Some systems have this feature built in. All Call is provided through additional equipment on the LEF systems.

Call Tone: Mono electronic tone heard when a sub calls a master station. This tone can also be heard when a master calls a sub by pushing the designated buttons for calling by tone.

CCD: Charged Couple Device.

Chime Extension: Hearing the chime when a person calls from a door at a remote inside location.

Chime Tone (Door Chime): A multi-stroke chime heard through the system as it is designed. This feature is standard on some systems, and an option on other systems.

Composite Video Output: Standard 75Ω, 1 volt peak-to-peak video signal. Compatible with CCTV systems.

Daisy-chained Wiring: The wiring method where the wire path is in and out of each station from the first to the last location. Many Aiphone systems are designed to be wired in a daisy-chained fashion, unless otherwise specified.

Door Release: Activating an electric door strike or a magnetic lock from the inside intercom system.

Dry Contact Closure: A closure where no voltage is present. Commonly used for door release contacts, either directly out of a unit or the relay being used for interface between the intercom and door strike.

Ethernet: De-facto standard for local networks, developed by Xerox and advanced together by Xerox, Intel and DEC. Ethernet uses a bandwidth of 10 Mbit/sec. and can be used in multiple access with conflict detecting.

External Signaling: Activating a supplemental sounding device tied in with an intercom system for remote or louder indication of a call being received.

Hands-free Reply: Respond without touching the intercom station when called by a master station.

Instant-On: When a call is placed from a door station, the inside stations will automatically turn on and allow both audio and video monitoring.

IP (Internet Protocol): Network layer protocol used on the Internet and other computer networks. Provides transmission packets without the organization of connections and delivery guarantees.

LAN/WAN: Local Area Network / Wide Area Network. A local area network (LAN) supplies networking capability to a group of computers in close proximity to each other such as in an office building, a school, or a home. A WAN spans a large geographic area, such as a state, province or country.

LED Call Indicator: When a call is placed from a door or sub station, the corresponding LED station light will light up on the master(s) for approximately 20 seconds.

Master-to-Master Communication: When one master station calls another. Initiating master pushes TALK button, and responding station speaks hands-free.

Normally Closed Contact: A contact for door release that is in the closed position when not activated, and opens when the door release button is pushed. This type of contact is typically required to activate a magnetic lock device.

Normally Open Contact: A contact for door release that is in the open position when not activated, and closes when the door release button is pushed. This type of contact is typically required to activate an electric door strike.

Open Voice Communication: Speaker type communication without having to pick up a handset. One person pushes the TALK button on their intercom while the other person speaks hands-free.

PanTilt: The term used to describe Aiphone's video door stations with a movable camera built in. Pan indicates horizontal movement, and Tilt indicates vertical movement.

Power-Over-Ethernet: Power over Ethernet or PoE technology describes any system to transmit electrical power, along with data, to remote devices over standard twisted-pair cable in an Ethernet network. This technology is useful for powering IP telephones, wireless LAN access points, webcams, Ethernet hubs, computers, and other appliances where it would be inconvenient or infeasible to supply power separately.

Privacy: With the privacy feature engaged, a station can receive communication, but the response back to the calling station is blocked. Privacy is used to prevent eavesdropping.

Remote Control: Remote activation or deactivation of devices from an intercom station. Lights can be turned on, alarm contacts disarmed, surveillance cameras activated, video monitors turned on, and door releases activated.

Selective Calling: Calling a specific station in the system by pushing that station's selector button at a master station. Responding party speaks hands-free.

Talkpath: Circuits on which communication takes place. The number of talkpaths is generally one unless otherwise specified.

TCP/IP: Transmission Control Protocol (TCP) and Internet Protocol (IP) are two distinct network protocols, technically speaking. TCP and IP are so commonly used together, however, that TCP/IP has become standard terminology to refer to either or both of the protocols.

TFT LCD: Thin Film Transistor Liquid Crystal Display. Used in Aiphone's color video monitors.

Vandal Resistant: A unit made from steel or metal, able to withstand harsher environments and rough treatment than standard units.

VOX Communication: Communication over an intercom using a voice actuation circuit. This creates a hands-free 2-way communication system where each person talks without pushing buttons or using a handset.

QuikSpec PLUS

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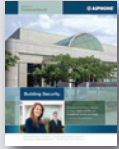
A screenshot of a web browser window displaying the Aiphone QuikSpec PLUS registration and login page. The browser's address bar shows "Aiphone". The page header includes the Aiphone logo and the tagline "The final piece of the security puzzle". A navigation menu contains links for HOME, MARKETS, PRODUCTS, SALES & SUPPORT, ABOUT AIPHONE, and QUIKSPEC. The main content area features the QuikSpec PLUS logo and two columns. The left column, titled "Not a member yet? Get Free Access", includes a "Register for QuikSpec Plus:" section with bullet points: "Save specs online" and "Print specs in multiple formats". Below this, it says "It's free and it only takes a minute!" and has a red "Register Now!" button. The right column, titled "Already a member? Log In Now", includes a "Username (email):" field, a "Password:" field, a "Forgot Your Password?" link, a "Remember me on this computer" checkbox, and a blue "Log In »" button.

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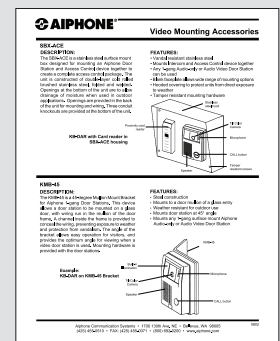
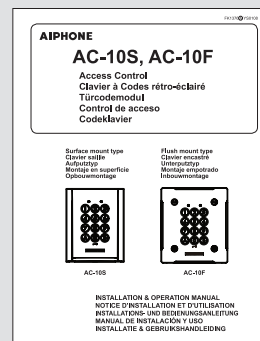


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INDEX

A..... Page	B..... Page	C..... Page	D..... Page	E..... Page	G..... Page	H..... Page
AC-10F..... 110	BA-1..... 56, 63, 74, 113	C-123L/A..... 64	DA-1AS..... 92	EL-12S..... 108	GF-102HA..... 91	HID-SS..... 109
AC-10S..... 110	BA-1P..... 72, 73, 113	C-123LW..... 64	DA-1DS..... 61, 92		GF-102HBA..... 91	
AD-1210P..... 116	BBX-1E..... 106	CC-1M..... 65	DA-1MD..... 92		GF-103HA..... 91	
AH-108..... 56, 72, 115	BBX-3E..... 106	CC-DA..... 65	DA-2DS..... 92, 93		GF-103HBA..... 91	
AH-16TN..... 70, 73, 79, 115	BG-10C..... 117	CCS-1A..... 65	DA-4DS..... 92, 93		GF-10K..... 86, 90	
AH-32TN..... 70, 79, 115		C-D..... 64	DAK-2S..... 62, 118		GF-10KP..... 82, 84, 86, 90	
AN-8000EX..... 33, 34		C-ML/A..... 64	DAR-1..... 108		GF-1DK..... 87, 89	
AN-8000MI..... 33, 34			DB-1MD..... 61, 93		GF-1DKS..... 87, 89	
AN-8000MS..... 32, 34			DB-1SD..... 61, 93		GF-1P..... 90	
AN-8010MS..... 32, 34			DBS-1A..... 61		GF-202HA..... 91	
AN-8011MS..... 32, 35			DE-UR..... 70		GF-202HBA..... 91	
AN-8020MS..... 32, 34			DMA2060..... 70, 79, 114		GF-203HA..... 91	
AN-8031MS..... 32, 35			DMA2120..... 70, 79, 114		GF-203HBA..... 91	
AN-8050DS..... 32, 35					GF-2B..... 82, 86, 91	
AN-8050DSW..... 32, 35					GF-3B..... 84, 91	
AN-8500MS..... 32, 34					GF-2F..... 82, 86, 91	
AN-8540DS..... 32, 35					GF-3F..... 84, 91	
AP-1M..... 73					GF-2P..... 90	
AP-5M..... 73					GF-3P..... 82, 86	
AP-10M..... 73						
AS-3A..... 72, 73						
AS-3N..... 72, 73, 115						
AT-206..... 69						
AT-306..... 69						
AT-406..... 69						
AT-406B/A..... 69						
AX-084C..... 40						
AX-16SW..... 41						
AX-248C..... 40						
AX-320C..... 40						
AX-8M..... 41						
AX-8MV..... 41						
AX-8MV-W..... 41						
AX-A..... 41, 97						
AX-AN..... 41, 97						
AX-B..... 41, 97						
AX-BN..... 41, 97						
AX-DM..... 31, 40, 48, 68, 70, 96						
AX-DV..... 40, 96						
AX-DVF..... 40, 96						
AX-DVF-P..... 40, 96						
AX-DVF-XP..... 40, 96						
AX-DV-P..... 40, 96						
AX-DV-XP..... 40, 96						
AX-SS..... 40, 97						
AXW-AVR..... 111						
AXW-AVT..... 111						
AXW-AZ..... 111						
AXW-PA1..... 113						

I..... Page

IAI-100	66
IAX-100.....	66, 118
ICP-AB	108
ICP-BR.....	108
IE-8HD	68
IE-8MD	68
IE-DC.....	31, 40, 48, 68, 70, 102
IE-JA.....	31, 40, 48, 68, 70, 102
IER-2.....	108
IE-SS	31, 40, 48, 68, 70, 102
IE-SSR.....	31, 40, 48, 68, 70, 102
IE-SSV	40, 68, 70, 102
IF-DA.....	31, 40, 48, 68, 70, 102
IM-1	66
IME-100	66, 118
IME-150	66, 118
IMU-100.....	66
IPW-1A	31
IS-CCU	22, 24, 26
IS-DV	22, 26
IS-DVF	22, 26
ISE-100.....	66, 118
IS-IPC.....	24, 26
IS-IPDV.....	25, 26, 30
IS-IPDVF.....	25, 26, 30
IS-IPMV	25, 27
IS-MV.....	23, 27
IS-PU-UL	27
IS-RCU.....	22, 26
IS-RS.....	22, 23, 27
IS-SCU.....	22, 26
IS-SOFT	25, 27, 30
IS-SS.....	22, 23, 27

J..... Page

JA-2HCD	47
JA-2MCD	46
JA-2MECD	46
JA-2SD.....	47
JA-D	46, 101
JA-DAC.....	46, 98
JA-DGC.....	46, 98
JA-DGV	46, 98
JAS-2MCD	47
JAS-2MECD	47
JAW-AZ.....	46, 111
JBW-BA	110
JBW-M	44, 111
JF-2HD	45
JF-2MED	44
JF-2SD	45
JF-D.....	44, 101

JF-DA.....	44, 99
JF-DV	44, 99
JF-DVF.....	44, 99
JF-DVF-HID.....	44, 99
JF-DVF-HID-I	44, 99
JF-DVF-XP	44, 99
JFS-2AED	45
JFS-2AEDF.....	45
JFS-2AEDV	45
JK-1HD	43
JK-1MD.....	28, 42
JK-1MED	28, 42
JK-1SD	43
JK-DA.....	28, 42, 100
JK-DV	28, 42, 100
JK-DVF.....	28, 42, 100
JK-DVF-AC.....	28, 42, 100
JK-DVF-HID.....	28, 42, 100
JK-DVF-XP	28, 42, 100
JKS-1AD	43
JKS-1ADV.....	43
JKS-1ADVF	43
JKS-1AED.....	43
JKS-1AEDV.....	43
JKS-1AEDVF.....	43
JKS-IPED	29
JKS-IPEF.....	29
JKS-IPEV.....	29
JKW-BA	110
JKW-IP	29

K..... Page

KA-DGR Panel	101
KA-FSH.....	101
KAW-D	107
KB-3HRD	49
KB-3MRD	48
KB-3SD.....	49
KB-DAR	48, 101
KB-DAR-M.....	48, 101
KBW-M	48, 112
KC-1GRD	51
KC-1HRD	51
KC-1MRD	50
KC-1SD	51
KC-DAR	50, 101
KCS-1ARD.....	50
KCW-D/B	112
KMB-45.....	107

L..... Page

LE-A	57, 58, 63
LE-A3.....	57, 58, 63

LE-AN	57, 58, 63
LE-AN3.....	57, 58, 63
LE-B.....	57, 59, 63
LE-BN.....	57, 59, 63
LE-C.....	57, 59
LE-CN.....	57, 59
LE-D.....	56, 62, 63, 103
LE-DA.....	56, 62, 63, 103
LEF-3	56, 58
LEF-5	56, 58
LEF-10.....	56, 58
LEF-1C.....	57, 59
LEF-3C.....	56, 58
LEF-5C.....	56, 58
LEF-10C	56, 58
LEF-3L.....	56, 58
LEF-10S.....	56, 58
LEM-1	63
LEM-1DL.....	62
LEM-1DLC	62
LEM-1DLS.....	62
LEM-3.....	63
LE-SS.....	56, 62, 63, 72, 73, 103
LE-SS-1G	56, 62, 63, 72, 73, 103
LE-SSR	56, 62, 63, 72, 73, 103
LE-SSV.....	56, 62, 63, 72, 73, 103
LEW-10	57
LEW-10S.....	57
LEW-5.....	57
LS-NVP/C.....	56, 62, 63, 72, 73, 103
LT-1	57

M..... Page

MAW-B	117
MC-60/4A	79
MC-60/4B	79
MC-A/A.....	79, 113
MC-S12.....	79
MC-S23.....	79
MCW-S/A	118
MCW-2S	118
MKW-DK/A	117
MKW-P	118
MP-1S	72
MP-3S	72
MU-100.....	66

N..... Page

NA-A	74
NA-AN	74
NA-NE	74
NAR-2A.....	74
NAR-6A.....	74

INDEX

(Continued)

NA-T/A.....	74
NB-L.....	74, 115
NBR-7AS.....	74
NBR-8A.....	74
NB-U.....	112
NBY-1A.....	74
NBY-4A.....	74
NBX-2.....	106
NBZ-M.....	115
N-EA.....	115
NE-DA.....	74, 104
NE-JA.....	74, 104
NEM-10/C.....	75
NEM-10A/C.....	75
NEM-20/C.....	75
NEM-20A/C.....	75
NEM-30/C.....	75
NEM-30A/C.....	75
NEM-40/C.....	75
NEM-40A/C.....	75
NE-NVP/C.....	74, 104
NE-NVP-RA.....	74, 104
NE-SS.....	74, 104
NE-SS-1G.....	74, 104
NE-SSR.....	74, 104
NEW-5.....	112
NH-1PA.....	77
NH-1SA/A.....	76, 78
NH-1SA-ACB.....	76
NH-2SA/A.....	76, 78
NH-50AC.....	77
NHR-30K.....	76, 78
NHR-3A-4.....	77, 78
NHR-3TS.....	77, 78
NHR-4A.....	77, 78
NHR-7A.....	77, 78
NHR-8A-L.....	76
NHR-8B.....	76, 78
NHR-DP.....	76, 78
NHR-SP.....	77, 78
NHX-30G.....	77, 78
NHX-50M.....	77, 78
NHX-80X.....	76, 78
NP-25V.....	57, 72, 73
NP-B.....	57, 72, 73
NP-W.....	72, 73

O.....	Page
OU-100.....	66

P.....	Page
PD-1.....	70, 113
PD-2.....	70, 113
PS-1225UL.....	116
PS-1820UL.....	116
PS-2420UL.....	116
PT-1210N.....	108
PT-1211C.....	116

R.....	Page
RS-191.....	35
RY-3DL.....	108
RY-18L.....	109
RY-24L.....	109
RY-AC/A.....	110
RY-ES.....	110
RY-PA.....	108

S.....	Page
SA-1.....	117
SBX-2BH.....	105
SBX-2BV.....	105
SBX-1G.....	105
SBX-2G.....	105
SBX-3G.....	106
SBX-ACE.....	105
SBX-AXDV30.....	107
SBX-AXDVF.....	106
SBX-DGV.....	106
SBX-DV30.....	107
SBX-DVF.....	106
SBX-DVF-P.....	106
SBX-LSE.....	107
SBX-LSP.....	107
SBX-NVP.....	106
SKK-620B.....	116
SP-20N.....	56, 59, 114
SP-2570N.....	70, 79, 114
SSB-2.....	114

T.....	Page
T3115BGM.....	70, 79, 114
T3130BGM.....	70, 79, 114
TAR-3.....	117
TD-1H/B.....	71
TD-3H/B.....	71
TD-6H/B.....	71
TD-12H/B.....	71
TD-24H/B.....	71
TD-1HL.....	71
TD-3HL.....	71

TD-6HL.....	71
TD-12HL.....	71
TDW-1H/B.....	71
TDW-3H/B.....	71
TDW-6H/B.....	71
TDW-12H/B.....	71
TDW-24H/B.....	71

W.....	Page
W-DIN11.....	91

X.....	Page
XP-KIT.....	109
XP-SS.....	109

Y.....	Page
YC-150.....	35
YC-241.....	35
YC-251.....	35
YC-280.....	35
YC-290.....	35
YS-13A.....	35

AIPHONE® WIRE BY STOCK NUMBER

STOCK #	LENGTH	AWG	DESCRIPTION	INSULATION	CAPACITANCE	LOOP RES.
81220550C	500'	22	5 conductor, non-shielded	PVC	23.60 pf/ft	17.50 ohm
81221050C	500'	22	10 conductor, non-shielded	PVC	23.60 pf/ft	17.50 ohm
81221650C	500'	22	16 conductor, non-shielded	PVC	23.60 pf/ft	17.50 ohm
82180210C	1000'	18	2 conductor, overall shield	PVC	47.00 pf/ft	6.92 ohm
82180310C	1000'	18	3 conductor, overall shield	PVC	47.00 pf/ft	6.92 ohm
82220250C	500'	22	2 conductor, overall shield	PVC	44.65 pf/ft	17.50 ohm
82220210C	1000'	22	2 conductor, overall shield	PVC	44.65 pf/ft	17.50 ohm
82220350C	500'	22	3 conductor, overall shield	PVC	44.62 pf/ft	17.50 ohm
82220650C	500'	22	6 conductor, overall shield	PVC	44.65 pf/ft	17.50 ohm
82221050C	500'	22	10 conductor, overall shield	PVC	44.65 pf/ft	17.50 ohm
82221250C	500'	22	12 conductor, overall shield	PVC	44.65 pf/ft	17.50 ohm
82221550C	500'	22	15 conductor, overall shield	PVC	44.65 pf/ft	17.50 ohm
82222050C	500'	22	20 conductor, overall shield	PVC	44.65 pf/ft	17.50 ohm
83220410C	1000'	22	2 twisted pair, non-shielded	PVC	23.60 pf/ft	17.50 ohm
85160210C	1000'	16	2 conductor, low cap, PE, solid, non-shielded	PE	12.50 pf/ft	4.02 ohm
851602DB10C	1000'	16	2 conductor, low cap, PE, solid, non-shielded, direct burial	PE	12.50 pf/ft	4.00 ohm
85220710C	1000'	22	7 conductor, low cap, PE, non-shielded	PE	16.50 pf/ft	17.50 ohm
86220810C	1000'	22	4 twisted pair, low cap, PE, overall shield	PE	15.28 pf/ft	10.15 ohm
86221025C	250'	22	5 twisted pair, low cap, PE, overall shield	PE	15.28 pf/ft	10.15 ohm
87180250C	500'	18	2 conductor, low cap, PE, solid, non-shielded	PE	11.05 pf/ft	6.39 ohm
87180210C	1000'	18	2 conductor, low cap, PE, solid, non-shielded	PE	11.05 pf/ft	6.39 ohm
871802P10C	1000'	18	2 conductor, low cap, PVC, solid, non-shielded, plenum rated	FEP	13.00 pf/ft	6.52 ohm
87180450C	500'	18	4 conductor, low cap, PE, solid, non-shielded	PE	13.60 pf/ft	6.39 ohm
871804P50C	500'	18	4 conductor, low cap, PE, solid, non-shielded, plenum rated	FEP	23.60 pf/ft	6.80 ohm
87200250C	500'	20	2 conductor, mid cap, PE, solid, non-shielded	PE	20.96 pf/ft	10.15 ohm
87200210C	1000'	20	2 conductor, mid cap, PE, solid, non-shielded	PE	20.96 pf/ft	10.15 ohm
872002P10C	1000'	20	2 conductor, mid cap, PE, solid, non-shielded, plenum rated	FEP	18 pf/ft	10.15 ohm

WIRE NUMBER CODING:

1st digit: 8 = Aiphone approved wire

2nd digit: Type of Wire → 1 = non-shielded 5 = low capacitance
2 = shielded 6 = twisted pair/shielded
3 = twisted pair 7 = solid PE, low/mid capacitance

3rd & 4th digits: Gauge → 22 = 22 AWG 20 = 20 AWG 18 = 18 AWG 16 = 16 AWG

5th & 6th digits: Number of conductors → 02 = 2 conductors 12 = 12 conductors

7th & 8th digits: Length of wire → 10 = 1,000' box 50 = 500' box 25 = 250' box

9th digit: "C" indicates new wire

DB = Direct Burial

P = Plenum

WIRE NUMBER CODING EXAMPLE:

1st: Aiphone Approved	2nd: TYPE - Shielded	3rd & 4th: GAUGE - 22 AWG	5th & 6th: CONDUCTORS 02=2 Conductors	7th & 8th: WIRE LENGTH 10=1,000' Box	9th: "C" is New Wire
8	2	22	02	10	C

WIRE INFORMATION

All wire is stranded unless otherwise indicated.

Non-plenum wires have a gray jacket. Plenum wires have natural jacket.

All wire meets the following standards: UL, C(UL), UL 444, CA Fire Marshal

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