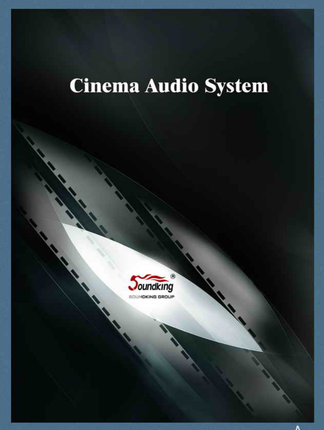
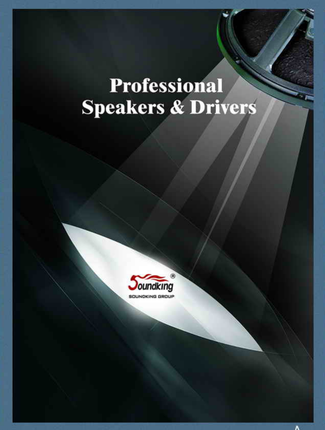
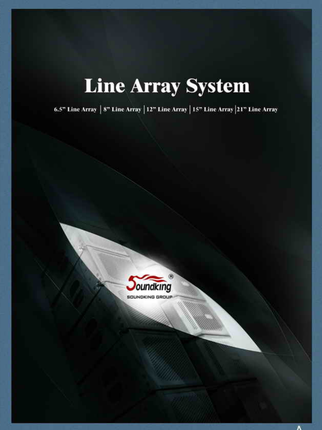
New Product Catalog



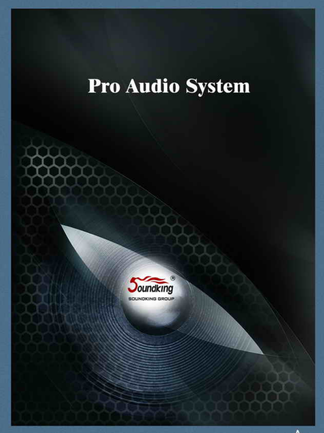
NO.1
Cinema Audio System



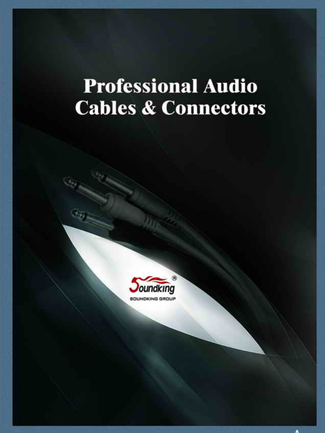
NO.2
Professional Speakers & Drivers



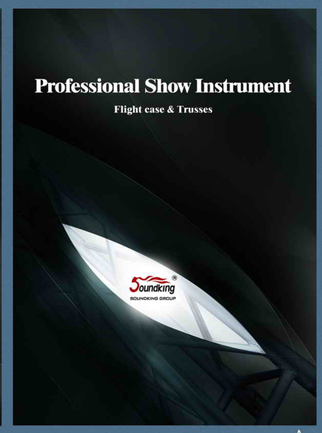
NO.3
Line Array System



NO.4
Pro Audio System



NO.5
Professional Audio
Cables & Connectors



NO.6
Professional Show Instrument

SOUNDKING GROUP CO.,LTD.

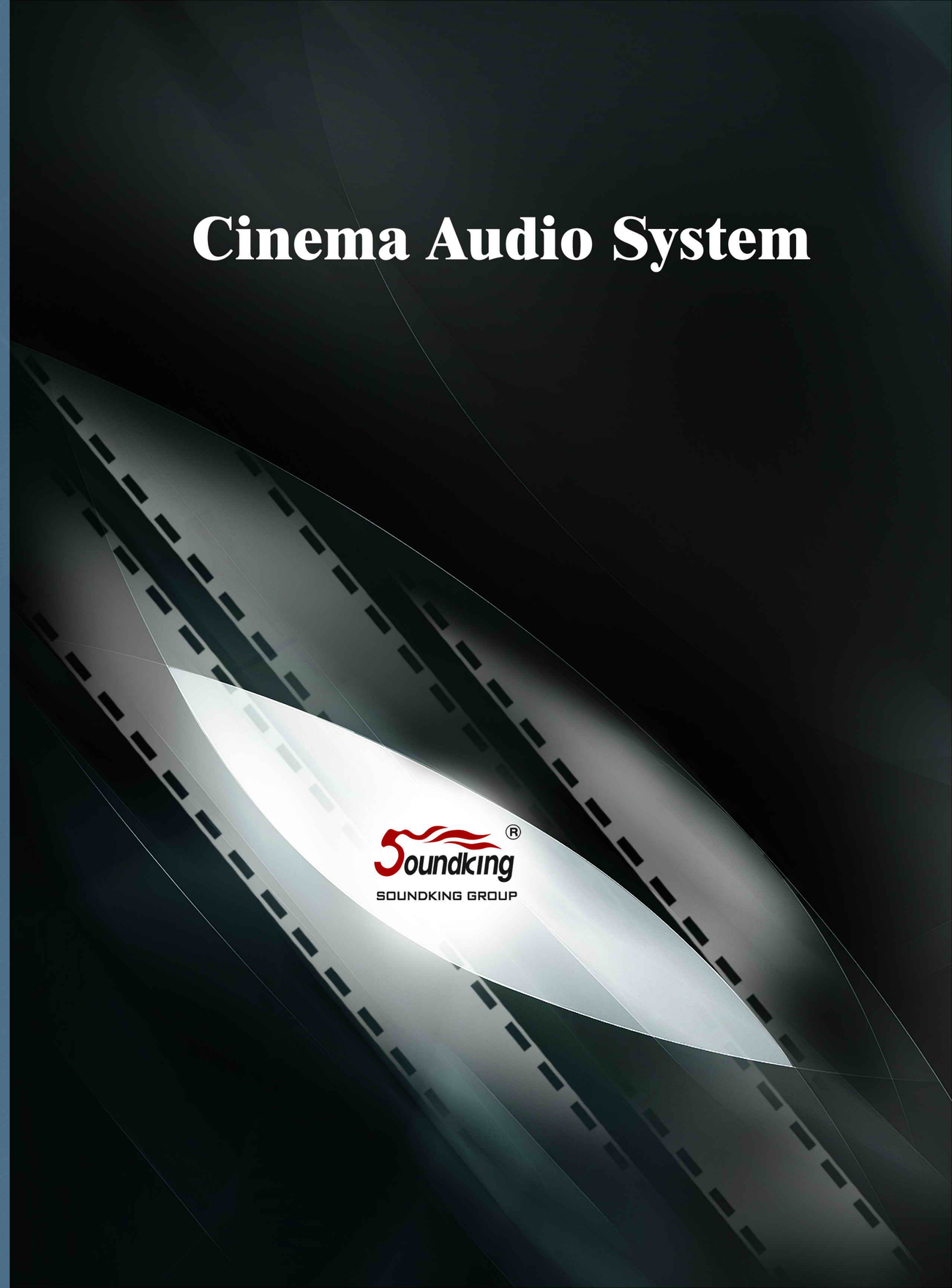
818# Chengxin Road Yinzhou Investment Industry Park, Ningbo, China

Tel: +86-574 88235195 88237437

Fax: +86-574 88235763 P.C.: 315104

www.soundking.com Email: sales@soundking.com

Cinema Audio System



PRODUCTS

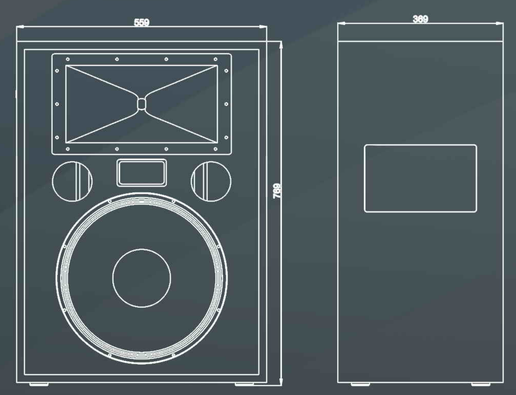
SPEAKER SERIES	1-18
POWER AMPLIFIER	19-21
POWER SEQUENCER	22-25
Cabinet	26
Fixed Cinema Recommend Configuration	27-29

FC215

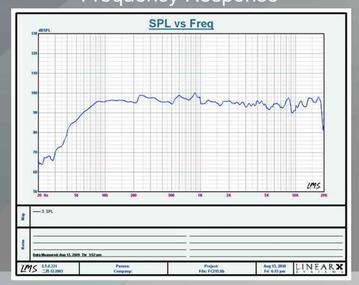
- 2–way cinema loudspeaker system
- 1” compression driver equipped with a 1.75” voice coil and 15” woofer with 3” voice coil
- High efficiency, low distortion, high performance price ratio and easy assembly and tuning
- Designed for small scale cinema applications

SPECIFICATION

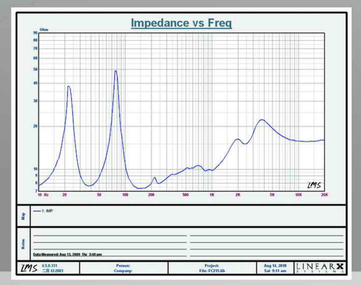
Model	FC215
Type	2–way Speaker System
Freq Response	40 Hz–20kHz
Impedance	8Ω
Power	350W
Sensitivity	98dB (1w@1m)
Max SPL peak	129dB
Coverage	90° × 40° (H × V)
Crossover	2.0 kHz
Speaker type	15” ×1 + 1.75” ×1
Dimension (H × W × D)	769 × 559 × 369(mm)
Weight	30 kg



Frequency Response



Impedance curve



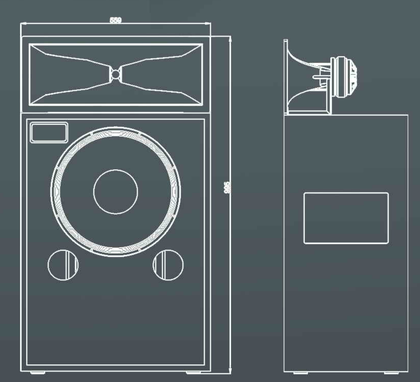
FC215H

- 2–way cinema loudspeaker system
- 1” compression driver equipped with a 1.75” voice coil and 15” woofer with 3” voice coil
- High efficiency, low distortion, clear and accurate sound reproduction
- Designed for small scale cinema appli cations

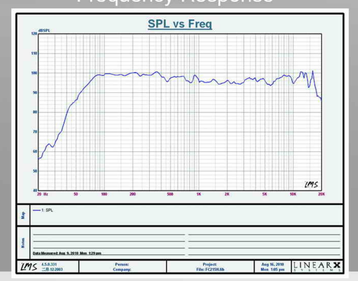
NEW

SPECIFICATION

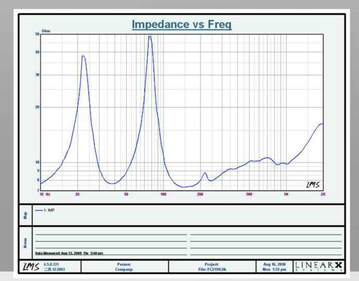
Model	FC215H
Type	2–way Speaker System
Freq Response	37 Hz–20kHz
Impedance	8Ω
Power	400W
Sensitivity	98dB (1w@1m)
Max SPL peak	130dB
Coverage	90° × 40° (H × V)
Crossover	1.5 kHz
Speaker type	15” ×1 + 1.75” ×1
Dimension (H × W × D)	995 × 559 × 369(mm)
Weight	31.5 kg



Frequency Response

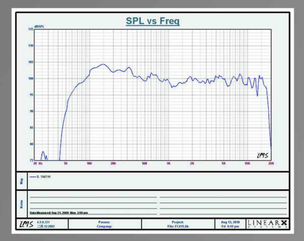


Impedance curve

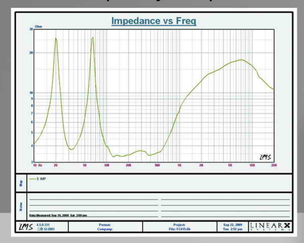


FC415
FC415A

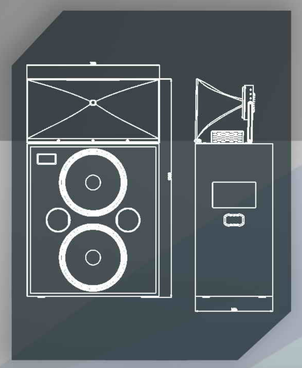
- 2–way biamplified cinema loudspeaker system, FC415 features built–in crossover, FC415A requires an external crossover.
- 1.5” neodymium compression driver equipped with a 3” voice coil, and two 15” woofers with 3” voice coil
- High sensitivity, optimum directivity, high power, low distortion, true sound
- Designed for small and medium cinema environments



Frequency Response



Impedance curve



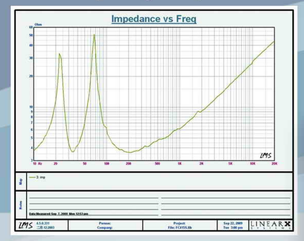
SPECIFICATION

Model	FC415A	FC415
Type	External 2–way Speaker System	Internal 2–way Passive Speaker System
Freq Response	35Hz ~ 20KHz	35Hz ~ 20KHz
Impedance	4Ω/8Ω	4Ω(4Ω/8Ω)
Power	LF 800W / HF 80W	800W
Sensitivity	101dB/112dB	101dB(101dB/112dB)
Max SPL peak	136dB/137dB	136dB
Coverage	80° x40°	80° x40°
Crossover	800Hz	800Hz
Speaker type	15” x2+3” x1	15” x2+3” x1
Dimension（H×W×D）	1280x700x450(mm)	1268x769x451(mm)
Weight	73kg	74.5kg

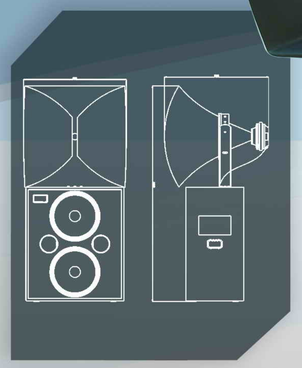
FC415S

- 2–way biamplified cinema loudspeaker system requires an external crossover.
- HF section is a constant directivity horn loaded to a 2” compression driver equipped with 4” voice coil. The low frequency is two 15” woofers with 4” voice coil.
- High SPL, high sound resolution, high dynamic range
- Designed for medium cinema environments

Frequency Response



Impedance curve



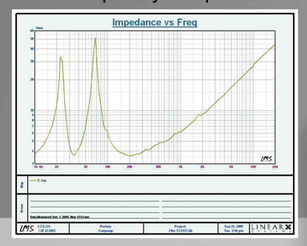
SPECIFICATION

Model	FC415S
Type	External 2–way Speaker System
Freq Response	35Hz ~ 18KHz
Impedance	4Ω/8Ω
Power	1000W / 100W
Sensitivity	101dB/112dB
Max SPL peak	137dB/138dB
Coverage	90° x40°
Crossover	600Hz
Speaker type	15” x2+4” x1
Dimension（H×W×D）	1674x764x812(mm)
Weight	95kg

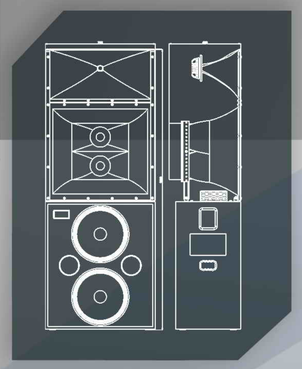
FC315A

- 3–way triamplified cinema loudspeaker system, FC315A features built–in crossover, FC315A requires an external crossover.
- 1.5” neodymium compression driver equipped with a 3” voice coil, two 6.5” midrange speakers with 2” voice coil and two 15” woofers with 4” voice coil
- High sensitivity, optimum directivity, full and punchy sound
- Designed for medium cinema environments

Frequency Response



Impedance curve

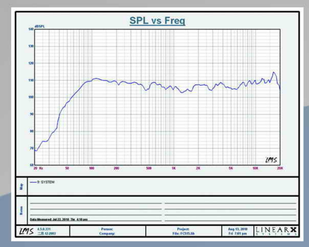


SPECIFICATION

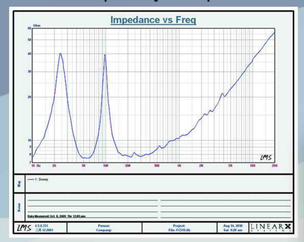
Model	FC315A
Type	3–way Speaker System
Freq Response	35Hz–20KHz
Impedance(L/M/H)	4Ω/8Ω/8Ω
Power(L/M/H)	1000W/240W/80W
Sensitivity(L/M/H)	101 dB /106 dB /110dB
Max SPL peak(L/M/H)	137dB /136dB /135 dB
Coverage	80° × 45° (H × V)
Crossover	350Hz /1.2kHz
Speaker type(L/M/H)	15” ×2 + 6.5” ×2+3” ×1
Dimension (H × W × D)	1950 × 765 × 498(mm)
Weight	95.5 kg

FC515

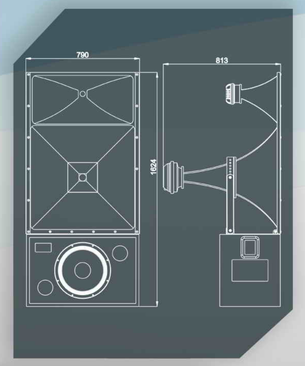
- 3–way triamplified cinema loudspeaker system requires an external crossover.
- 1.5” neodymium compression driver equipped with a 3” voice coil, 2” midrange speaker with 4” voice coil and 15” woofer with 4” voice coil
- High sensitivity, high power, low distortion, true sound and optimum directivity
- Designed for small and medium cinema environments



Frequency Response



Impedance curve

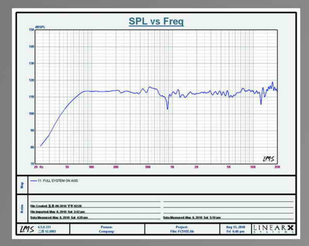


SPECIFICATION

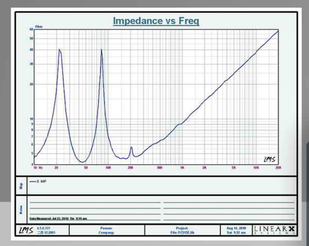
Model	FC515
Type	3–way Speaker System
Freq Response	40Hz ~ 20KHz
Impedance(L/M/H)	8Ω/8Ω/8Ω
Power(L/M/H)	500W/100W/80W
Sensitivity(L/M/H)	98/113/110dB
Max SPL peak(L/M/H)	131dB/139dB/137dB
Coverage	90° x50°
Crossover	500Hz/2.3KHz
Speaker type(L/M/H)	15” x1+4” x1+3” x1
Dimension (H × W × D)	1624x790x813mm
Weight	78kg

FC515E

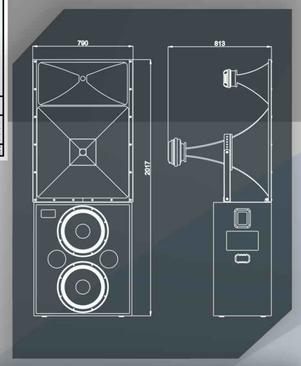
- 3–way triamplified cinema loudspeaker system requires an external crossover
- 1.5” neodymium compression driver equipped with a 3” voice coil, 2” midrange speaker with 4” voice coil and two 15” woofers with 4” voice coil
- High sensitivity, high power, low distortion, clear sound and optimum directivity
- Designed for medium cinema environments



Frequency Response



Impedance curve

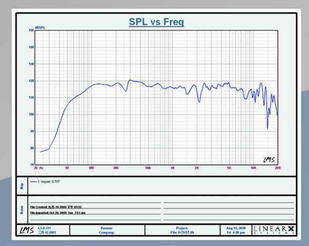


SPECIFICATION

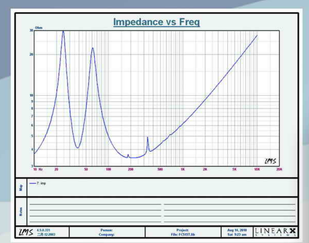
Model	FC515E
Type	3–way Speaker System
Freq Response	35Hz–15KHz
Impedance(L/M/H)	4Ω/8Ω/8Ω
Power(L/M/H)	1000W/100W/80W
Sensitivity(L/M/H)	101 dB /113 dB /112dB
Max SPL peak(L/M/H)	137dB /139 dB /137 dB
Coverage	90° × 50° (H × V)
Crossover	500Hz /2.3kHz
Speaker type(L/M/H)	15” ×2 + 4” ×1+3” ×1
Dimension (H × W × D)	2017 × 790 × 813(mm)
Weight	102 kg

FC515T

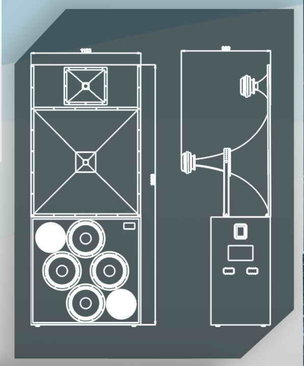
- 3–way triamplified cinema loudspeaker system requires an external crossover
- 2” compression driver equipped with a 4” voice coil, 2” midrange speaker with 4” voice coil and four 15” woofers with 4” voice coil
- High sensitivity, high power, ultra low distortion, clear and true sound, optimum constant directivity.
- Designed for large cinema environments



Frequency Response



Impedance curve



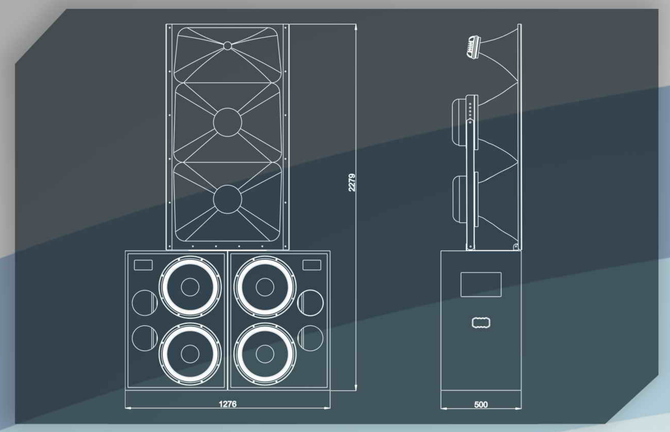
SPECIFICATION

Model	FC515T
Type	3–way Speaker System
Freq Response	35Hz ~ 16KHz
Impedance(L/M/H)	2x4 Ω /8 Ω /8 Ω
Power(L/M/H)	2000W/100W/100W
Sensitivity(L/M/H)	103/114/112dB
Max SPL peak(L/M/H)	142dB/140dB/138dB
Coverage	90° x50° (H × V)
Crossover	500Hz/2.3KHz
Speaker type(L/M/H)	15” x4+4” x1+4” x1
Dimension (H × W × D)	2653x1123x909mm
Weight	204kg

FC615T

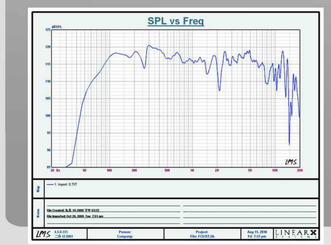
- 3-way triamplified cinema loudspeaker system requires an external crossover
- 2” compression driver equipped with a 4” voice coil, two 10” midrange speaker with 3” voice coil and four 15” woofers with 4” voice coil
- High sensitivity, high power capability, low distortion, high dynamic range, optimum directivity and accurate sound reproduction
- Designed for large cinema environments

NEW

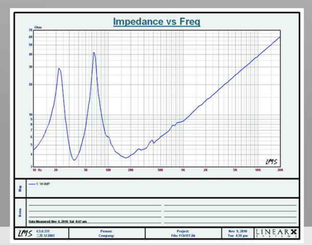


SPECIFICATION

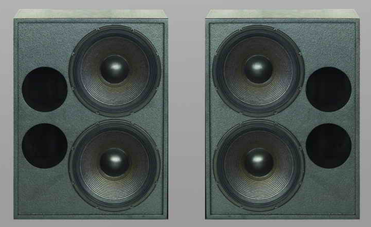
Model	FC615T
Type	3-way Speaker System
Freq Response	35Hz –18KHz
Impedance(L/M/H)	2x4Ω/4Ω/8Ω
Power(L/M/H)	2800W /600W / 100W
Sensitivity(L/M/H)	102 / 110 / 112 dB
Max SPL peak(L/M/H)	143dB / 144dB / 138dB
Coverage	90° x 50°
Crossover	250Hz / 2.3KHz
Speaker type(L/M/H)	15″ x 4+10″ x 2+ 3″ x 1
Dimension（H × W × D）	2279x1276x500mm
Weight	158kg



Frequency Response

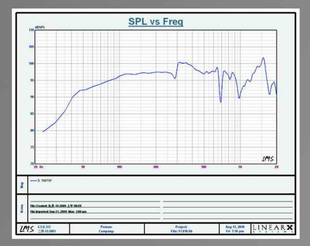


Impedance curve

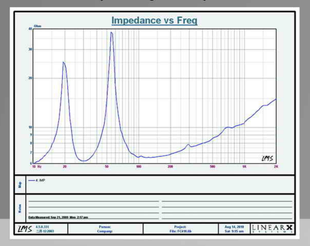


FC418

- High quality subwoofer system
- 18” woofer equipped with 4” voice coil
- Excellent enclosure design to provide extended low frequency to 28Hz, high power, low distortion
- Designed for small and medium cinema environments



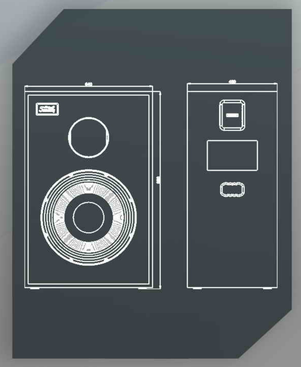
Frequency Response



Impedance curve

SPECIFICATION

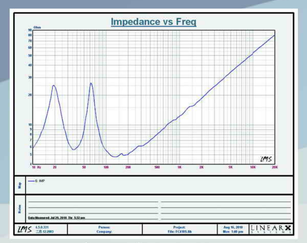
Model	FC418
Type	1 × 18” Woofer System
Freq Response	28Hz ~ 500Hz
Impedance	8 Ω
Power	800W
Sensitivity	97dB
Max SPL peak	132dB
Coverage	---
Crossover	80 ~ 150Hz
Speaker type	18” x1
Dimension (H × W × D)	980x640x450(mm)
Weight	50kg



FC418S

- High quality subwoofer system
- 18” woofer equipped with 4” voice coil
- Ultra high power reaches 1600W, excellent enclosure design to provide extended low fre quency to 28Hz, high power, low distortion and deep sound.
- Designed for medium and large cinema environments

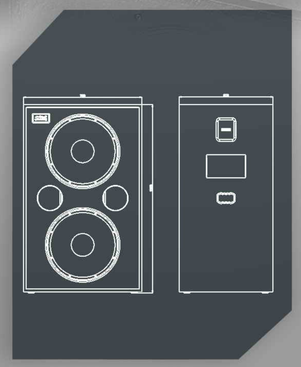
Frequency Response



Impedance curve

SPECIFICATION

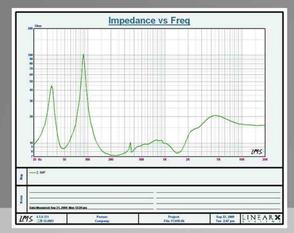
Model	FC418S
Type	2 × 18” Woofer System
Freq Response	26Hz ~ 500Hz
Impedance	4 Ω
Power	1600W
Sensitivity	101dB
Max SPL peak	139dB
Coverage	--
Crossover	80 ~ 100Hz
Speaker type	18” x2
Dimension (H × W × D)	1200x760x600(mm)
Weight	98kg



FCE410H

- 10” stereo surround speaker system
- High sensitivity, high power, small distortion and true reduction of movies
- Suitable for the reinforcement of large and middle size luxury cinema

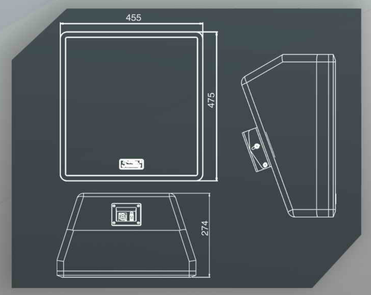
Frequency Response



Impedance curve

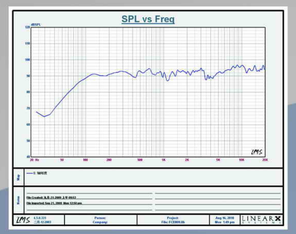
SPECIFICATION

Model	FCE410H
Type	10” Surround Speaker System
Freq Response	40Hz ~ 18KHz
Impedance	8Ω
Power	250W
Sensitivity	96dB
Max SPL peak	126dB
Coverage	100° x80°
Crossover	2.5KHz
Speaker type	10” x1+1.75” x1
Dimension（H×W×D）	475x455x274(mm)
Weight	15kg

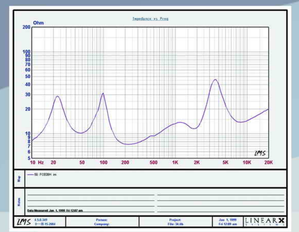


FCE08H

- 8” stereo surround speaker system
- High sensitivity, high power, small distortion and true reduction of movies
- Suitable for the reinforcement of middle and small–size luxury cinema



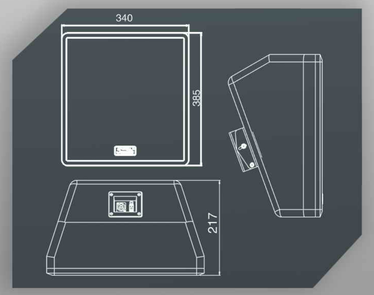
Frequency Response



Impedance curve

SPECIFICATION

Model	FCE08H
Type	8” Surround Speaker System
Freq Response	48Hz ~ 20KHz
Impedance	8Ω
Power	100W
Sensitivity	93dB
Max SPL peak	119dB
Coverage	100° x80°
Crossover	3.5kHz
Speaker type	8” x1+1.35” x1
Dimension（H×W×D）	385x217x340(mm)
Weight	8.5kg

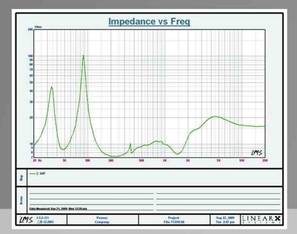


FCE410P

- 10” stereo surround speaker system
- High sensitivity, high power, small distortion and true reduction of movies
- Suitable for the reinforcement of large and middle size luxury cinema

NEW

Frequency Response

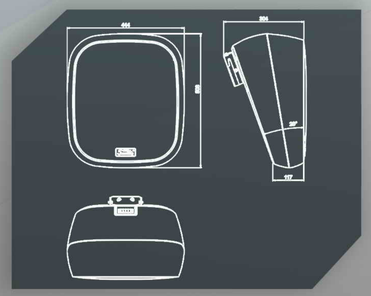


Impedance curve

Network Rail board

SPECIFICATION

Model	FCE410P
Type	10” Surround Speaker System
Freq Response	40Hz ~ 18KHz
Impedance	8Ω
Power	250W
Sensitivity	96dB
Max SPL peak	126dB
Coverage	100° x80°
Crossover	2.5KHz
Speaker type	10” x1+1.75” x1
Dimension（H×W×D）	444x508x304(mm)
Weight	15kg

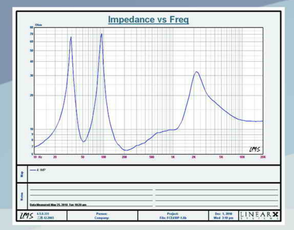


FCE410P-I

- 10” stereo surround speaker system
- High sensitivity, high power, small distortion and true reduction of movies
- Suitable for the reinforcement of large and middle size luxury cinema

NEW

Frequency Response

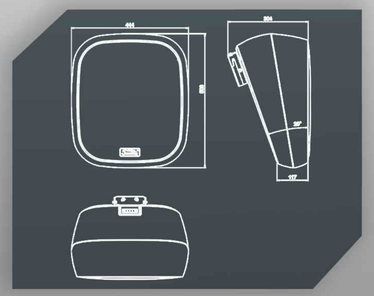


Impedance curve

Mesh

SPECIFICATION

Model	FCE410P-1
Type	10” Surround Speaker System
Freq Response	36Hz ~ 18KHz
Impedance	8Ω
Power	200W
Sensitivity	94dB
Max SPL peak	123dB
Coverage	100° x80°
Crossover	2.5KHz
Speaker type	10” x1+1.75” x1
Dimension（H×W×D）	444x508x304(mm)
Weight	15kg

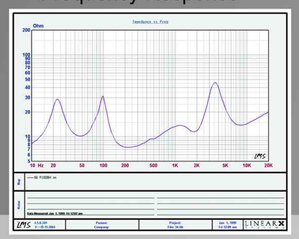


FCE08P

- 8” stereo surround speaker system
- High sensitivity, high power, small distortion and true reduction of movies
- Suitable for the reinforcement of middle and small–size luxury cinema

NEW

Frequency Response

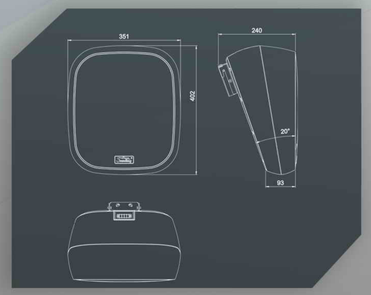


Impedance curve

Network Rail board

SPECIFICATION

Model	FCE08P
Type	8” Surround Speaker System
Freq Response	55Hz ~ 20KHz
Impedance	8Ω
Power	150W
Sensitivity	95dB
Max SPL peak	123dB
Coverage	100° x80°
Crossover	3.5kHz
Speaker type	8” x1+1.35” x1
Dimension（H×W×D）	351x402x240(mm)
Weight	8.5kg

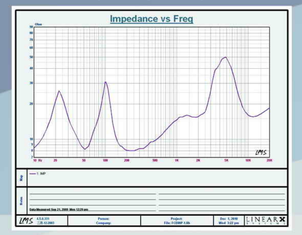


FCE08P-I

- 8” stereo surround speaker system
- High sensitivity, high power, small distortion and true reduction of movies
- Suitable for the reinforcement of middle and small–size luxury cinema

NEW

Frequency Response

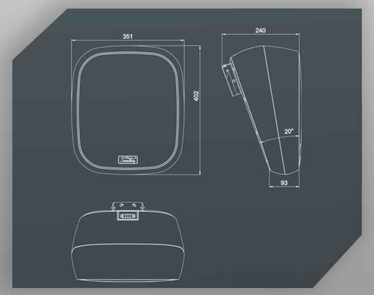


Impedance curve

Mesh

SPECIFICATION

Model	FCE08P–1
Type	8” Surround Speaker System
Freq Response	48Hz ~ 20KHz
Impedance	8Ω
Power	100W
Sensitivity	93dB
Max SPL peak	119dB
Coverage	100° x80°
Crossover	3.5kHz
Speaker type	8” x1+1.35” x1
Dimension（H×W×D）	351x402x240(mm)
Weight	8.5kg



POWER AMPLIFIER HB1000|HB1600|HB2200|HB4000

HB1000|HB1600|HB2200 REAR PANEL

HB4000 REAR PANEL

This series of products HB1000/1600/2200/4000 are specially designed hi-power amplifier used for touring and installation. Their unique design and powerful output can meet the requirement of any sound reinforcement project.

FEATURES

- CLASS H circuit to improve the power amplifier efficiency &stability and decrease temperature in operation;
- Comprehensive protection, e.g. short-circuit protection, Thermal protection, DC protection;
- Cooling fan with variable speed;
- Built-in Limiter function to prevent the power amplifier from distortion of over input;
- 30Hz hi-pass filter, ground lift switch;
- Stereo/mono/bridge selector, switch for -3dB,0dB,+3dB.

SPECIFICATION

Model	HB1000	HB1600	HB2200	HB4000
Stereo Mode 8Ω	350W ×2	500W ×2	700W ×2	1200W ×2
Stereo Mode 4Ω	500W ×2	800W ×2	1100W ×2	2000W ×2
Bridge 8Ω	1000W	1600W	2200W	4000W
Damping factor	300	300	400	400
THD (%)	<0.05% Rated 8Ω/1KHz	<0.05% Rated 8Ω/1KHz	<0.05% Rated 8Ω/1KHz	<0.05% Rated 8Ω/1KHz
Freq Response	20Hz--20KHz ±0.5dB	20Hz--20KHz ±0.5dB	20Hz--20KHz ±0.5dB	20Hz--20KHz ±0.5dB
Input Sensitivity	32dB/26dB/1.414V	32dB/26dB/1.414V	32dB/26dB/1.414V	32dB/26dB/1.414V
Input impedance (Bal/Unbal)	20KΩ/10KΩ	20KΩ/10KΩ	20KΩ/10KΩ	20KΩ/10KΩ
Channel separation	>70 Rated 8Ω	>70 Rated 8Ω	>70 Rated 8Ω	>70 Rated 8Ω
S/N ratio	102	105	108	110
Power	220V/50HZ	220V/50HZ	220V/50HZ	220V/50HZ
Height	2U	2U	2U	3U

POWER AMPLIFIER HC900|HC1500|HC2200|HC4000

REAR PANEL

FEATURES

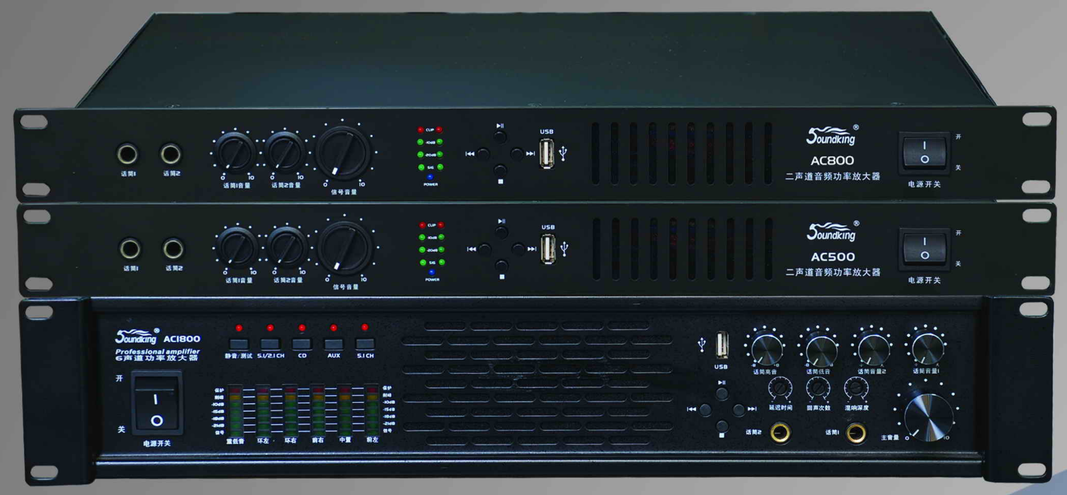
- Standard 2U height, compact and solid appearance;
- SIGNAL LED, CLIP LED and POWER LED for each channel
- Class H circuit, low temperature, high efficiency, stable performance;
- Professional protection: DC protection, short circuit protection, thermal protection, over load protection, CLIP/LIMIT protection
- Variable speed fan for cooling, low noise;
- 30Hz high pass filter
- Stereo, mono, bridge mode for selection;
- low weight, convenient for installation and transportation

SPECIFICATION

Model	HC900	HC1500	HC2200	HC4000
Stereo Mode 8Ω	300W x2	500W x2	700W x2	1000W x2
Stereo Mode 4Ω	450W x2	750W x2	1100W x2	1500W x2
Bridge 8Ω	900W	1500W	2200W	3000W
Damping factor	⩾200	⩾200	⩾200	⩾300
THD (%)	⩽0.05%(1kHz)	⩽0.05%(1kHz)	⩽0.05%(1kHz)	⩽0.1%
Freq Response	20Hz~20KHz, ±0.3dB	20Hz~20KHz, ±0.3dB	20Hz~20KHz, ±0.3dB	20Hz~20KHz, ±0.3dB
Input Sensitivity	1.4V 32dB 26dB	1.4V 32dB 26dB	1.4V 32dB 26dB	1.4V 32dB 26dB
Input impedance (Bal/Unbal)	20KΩ/10KΩ	20KΩ/10KΩ	20KΩ/10KΩ	20KΩ/10KΩ
S/N ratio	⩾100 dB	⩾100 dB	⩾100 dB	⩾100 dB
Power	AC 220V / 50Hz	AC 220V / 50Hz	AC 220V / 50Hz	AC 220V / 50Hz
Height	2U	2U	2U	3U

POWER AMPLIFIER

AC800|AC500|AC1800



This series of power amplifiers have three models: AC1800/800/500. Switch power and Class H amp make the amplifier compact, light-weighted, convenient for move. With MIC input and Line input, they can meet the requirement of cinema application.

Features

- Standard 2U（AC1800）/1U（AC800/500）for rack mounting, compact structure, solid surface;
- Concise front panel / rear panel; AC500/AC800 have input and output ports on the side;
- Signal and clip LED;
- USB port and built–in MP3;
- Professional speakon port;
- Class H circuit for higher efficiency, lower temperature, higher stability;
- Professional protection (DC protection, short circuit protection, thermal protection, over load protection, clip/limit protection);
- Variable speed fan ensures reliable operation in demanding environment;
- Light weighted, easy installation and move.

SPECIFICATION

Model	AC1800	AC800	AC500
Height	2U	1U	1U
Power	250W(8Ω)x5/400W(4Ω)x1	320W(8Ω) x 2	250W(8Ω) x 2
Freq Response	Line 25Hz—25KHz，+0/–1dB	Line 25Hz—25KHz , +0/–1dB	Line 20Hz—20KHz , +0/–1dB
THD(%)	<0.5%	<0.5%	<0.5%
Damping factor	>300	>300	>300
S/N Ratio(dB)	Line>88 dB(A weighted)	Line>88 dB(A weighted)	Line>88 dB(A weighted)
Impedance(bal/unbal)	Line：47KΩ	Line：47KΩ	Line：47KΩ
Input Sensitivity	20mv ± 2mv(Mic)/300mv ± 30mv(Line)	20mv ± 2mv(Mic)/(Line)	–48dBu（Mic）/–6 dBu（Line）
Power	160 ~ 240VAC/50Hz	160 ~ 240VAC/50Hz	160 ~ 240VAC/50Hz
Dimension（HxWxD）	88.8x483x405（mm）	44.4x483x300（mm）	44.4x483x300（mm）
Weight	21.5 kg	5.8 kg	5.8 kg

LOUDSPEAKER CONTROLLER

SPS8

SPECIFICATION

Model	**SPS8**
Output current	16A
Power supply	8 way
Delay time	2”
illumination power	2 × 1.2W
Dimension（LxWxH）	483x265x66(mm)
Weight	4.8kg

Introduction

The SPS8 employs intelligent MCU to control the output voltage, mainly use to connect or disconnect each channel by sequence, with voltage display to indicate the input voltage, prevent the electronic devices from the electronic shock or damage

Features

- 1.5U standard rack height
- Normal/bypass switch features sequence mode and sync mode
- Input voltage LCD monitor
- Built–in filter
- Multifunction power outputs

Applications

Stereo appliance, computer, TV,broadcast system, etc.

SPS8 Rear

ELECTRONIC CROSSOVER

SCX236

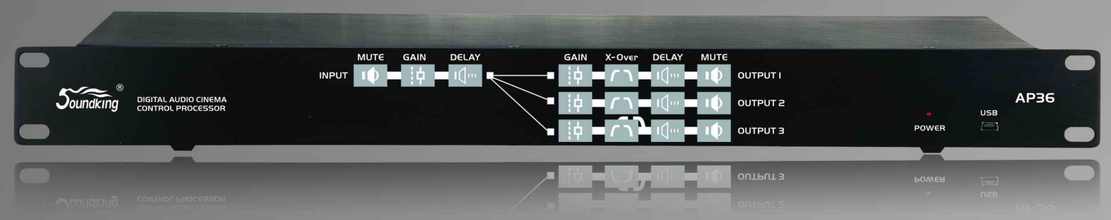
SPECIFICATION

Model	SCX236
Octave slope	24dB/oct range：44Hz–9700Hz
Input	XLR(BAL)，Input impedance：20kΩ，Max level：+21dB，gain：off~+6dB
Output	XLR(BAL)，Output impedance：100Ω
Max level	+20dB
Gain range	off~–60dB
Freqency Resoponse	20Hz–40KHz
S/N ratio	94dB
Dimension(W×H×D)	483 × 44 × 205 (mm)
Weight	2.53kg

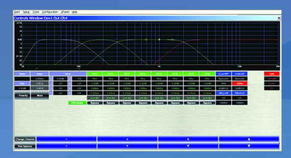
This product has the function of cutting off sub-bass, gain control and mute. The crossover is adjustable. The product can operate in stereo 2 way, mono 3 way. Low cut 25Hz/-12dB; frequency octave: 10 times of the frequency on the knob. Octave selector (44Hz-9700Hz)/(16Hz-370Hz)；The product features HF/LF output gain control, mute knob.

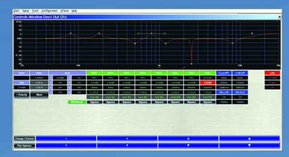
SCX236 Rear

AUDIO PROCESSOR AP36



Model	AP36
Input connector qty	3
Output connector qty	6
Connector	XLR
Signal communication	RS232/USB
Control panel	yes
Series connection of controls	yes
Level meter	Software/Hardware display
Panel control	key
User saved file	50
Code protectionl	yes
EQ/Crossover sharing	NO
Filter/Crossover type	BesselButterworthLinkwitz-Riley
Crossover/Filter slope	-6、-12、-18、-24、-36、-48
Input delay(total)	122.50ms
Output delay per channel	177.64ms
Phase adjustment	in sequence or converse
Compressor/limiter	1 pcs per output channel
Sample frequency	48k
Frequency response	20～20kHz, ±0.25dB
System delay	1.16ms
Input impedance	10kΩ
Output impedance	100Ω
Input level	+13.8dBu
Output level	+13.5dBu
Voltage	100VAC - 240VAC
Power	20W





Digital cinema monitor specification and requirement DCAIO

SYSTEM REQUIREMENT

Be applicable for cinema audio processing device, and can realize whole performance in the following and necessary electrical properties.

FUNCTION REQUIREMENT

> through USB port real-time control software
> can adjust the type and slope of crossover
> can configure 2 way, 3 way and 4 way.
> D type features AES/EBU and simulating input
> user self-defined auxiliary output signal
> combines monitoring and crossover in one unit
> system set time is short(especially be applicable for multiple halls cinema of similar rooms)
> peculiar “loaded fault” detection, which can indicate speaker system mistakes or wiring mistakes.
> can adjust crossover through computer; and it needs password to access into system to make adjustment.
> system cost is lower than current 4 way scheme.
> be compatible with all current sound formats; 3-5 screen main sound channel, 5.1-7.1

> Input
input type：active balance
input impedance：10 KΩ
max simulate input level：+14.2dBu (4.0Vrms)
Analog-to-Digital Converter：24 bit Δ-Σ convert，128times sam pling.

> Data output –screen channel
Output level scope：+6 db to–18 db，each scale 0.1 db
Dynamic scope：>103 db
THD+N,20 Hz to 20KHz，input level+12dBu，filter flat：<0.002%
Frequency response：20 Hz – 20KHz (no filter)
Analog-to-Digital Converter：24 bit Δ-Σ convert，128 times sam pling
Filter configuration：24 bit digital IIR filter
Crossover filter：from 20 Hz to 20KHz, Linkwitz-Riley digital filter of each octave 24 db

> Emergency bypass crossover
crossover type：two scale active Butterworth，2 way or 3 way
attenuation scope（trimming potentiometer）：0 db to -20 db
crossover frequency：1000 Hz (2 way), 500 Hz and 1500 Hz (3 way)

> Monitor speaker output
PA output power：10 watt，D class PA
frequency response：142 Hz – 15KHz (±2 db)
dynamic scope：compression ratio: 1.4：1

> Hearing damage output
Output stage type：single-end（balanced impedance）
Output impedance： 50 Ohms
Standard output level：-11.8dBu (200mVrms)
loaded requirement：R min=2 KΩ，C max=4nF

> Contact closure input
input stage type： be compatible with TTL and dry contact closure
operating mode：through 1.3 KΩ Impendence grounding, select HF equalization.

> Build-in monitoring speaker: system interface
- main stimulate input：25 pin D-sub female interface
- surround input：25 pin D-sub female interface
- digital signal input（only D sub：25 pin D-sub female interface）
- PA data interface：15 pin D-sub high density female interface
- control interface：USB port
- hearing impairment： positive/negative spiral binding post
- active bass line output： positive/negative/ground--3 poles spiral binding post
- external monitoring speaker output： positive/negative spiral binding post
- auxiliary line level input： positive/negative spiral binding post
- tweeter EQ contact closure input： positive/negative spiral binding post

Digital cinema audio processor specification and requirement

APC950

SYSTEM REQUIREMENT

Be applicable for cinema audio processing device, and can realize whole performance in the following and necessary electrical properties.

FUNCTION REQUIREMENT

> 4 way digital audio input
> 8 channels simulate audio input
> 8 channels simulate audio output
> non-synchronous dual channel stereo input
> auxiliary stereo output
> hearing impairment mode output
> mutual transferring of each input signal, all have the function of fade-in and fade-out.
> equips with volume gain adjustment
> 8 channel 1/3 octave adjusting EQ
> 8 output channels equips with gain control and delay adjusting
> update, monitor and control through network remote
> USB local software update

> Ttechnical specification

1) AES digital audio input
   Input impedance：110Ω
   Output interface type：balanced
   Sampling：32kHz、44.1kHz、48kHz和96kHz
   Input level：0.2V～5Vpp
2) Fiber optical digital audio
   input impedance：75Ω
3) Simulate 8channel input
   impedance：10K differential input impedance
   output interface type：balanced simulating
   input level：300mV
4) Non-synchronous input
   input impedance：21K
   reference level：300mV
5) MIC input：
   Input impedance：10K
   reference level：20mV
6) 8 channel main output
   Output impedance：100Ω（differential output impedance）
   reference level：300 mV
   gain adjust：-22dB～+8Db
7) auxiliary output
   Output impedance：100Ω
   reference level：200 mV

> Audio processing specification

S/N ratio：105 dB weighted（20～20kHz）
EQ：1/3 octave adjust
distortion：0.005%
Crosstalk： < -100dB
common-mode rejection ratio（CMMR）： > 60dB (50 to 10kHz)
dynamic scope： 115dB type (unweighted)
frequency response：+/- 0.1dB (20 to 20kHz)
input adjust delay scope：0～250 ms
gain adjust scope：—22dB～+5dB
phase: +/- optional
each channel 6 band parameter EQ
filter type: Butterworth, Bessel, Linkwitz Riley

> Digital audio

PCM, sampling ratio: 32kHz、44.1kHz、48kHz and 96kHz
sampling supports bits :16-，20 and 24-bit
processor: 32/40-bit Floating-point Processing
realize Dolby（AC3）5.1 channel

> DSP algorithm realization

Dolby Pro Logic，realize Left, Center, Right, Surround (Subwoofer optional)
Dolby Pro Logic II，realize Left, Center, Right, Left surround, Right surround (Subwoofer optional)
Dolby digital surrounding EX technology，realize Left, Center, Right, Left surround, Back surround, Right surround, Subwoofer
Realize NonsyncLeft, Right, Surround (Subwoofer optional)
mixing
gain
delay
Equalizing
filter
pressure companding
limiting

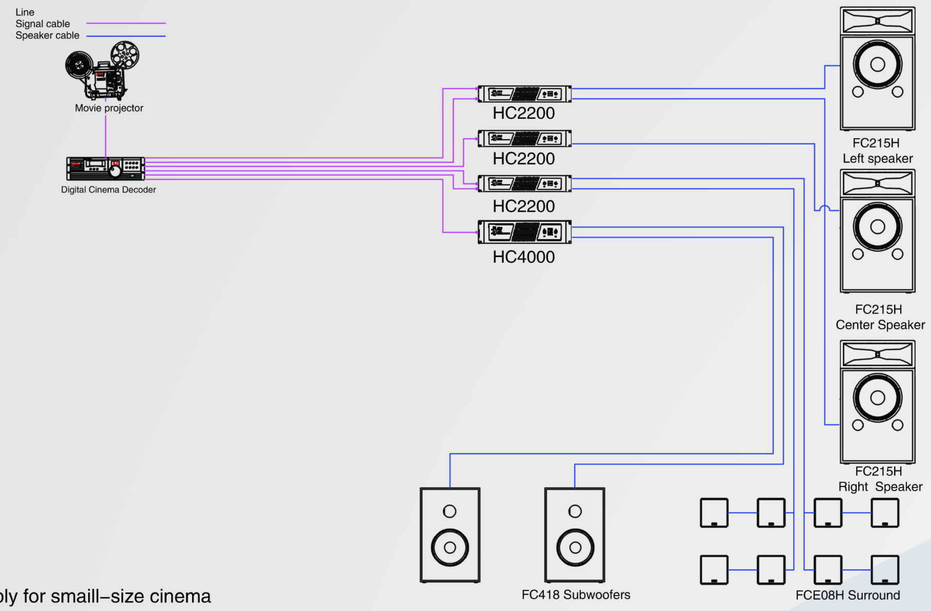
> System interface

Digital 1 input：4*AES 25 pin D-sub female interface supplies 4 way AES/EBU channel pair input
Digital 2 and 3 input：1*AES positive BNC plug
Digital 4 input：fiber optical interface
Simulate 8channel input：25 pin D-sub female interface
non-synchronous input：RCA plug
Mic input：XLR interface， standard cannon interface
Main output：25 pin D-sub male interface
Output impedance：RCA interface
hearing impairment mode output：RCA interface
Ethernet interface：RJ-45
crosstalk：9 pin D-sub female interface
USB port：A-sub female interface
Autonomic interface：25 pin D-sub female interface

19” JJD Series Cabinet

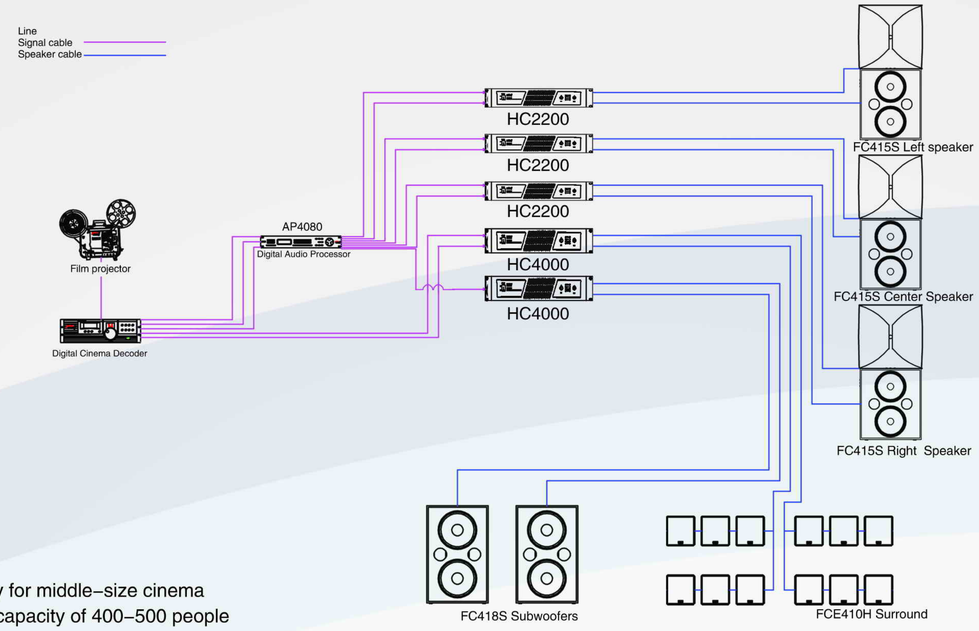
19"JJD series cabinet
from 16U to 24U, the series cabinet has 6 models (16.20.24.30.36.42) , which all adopt good quality cold rolled sheet to joint together. please note if need front door or side door etc when make orders. and if the order has large batch, can choose transition in loose packing. when arrive to destination, please make self-assembly. self-assembly is easy and cheap, and it can save large freight and decrease cost.

Fixed Cinema Recommend Configuration

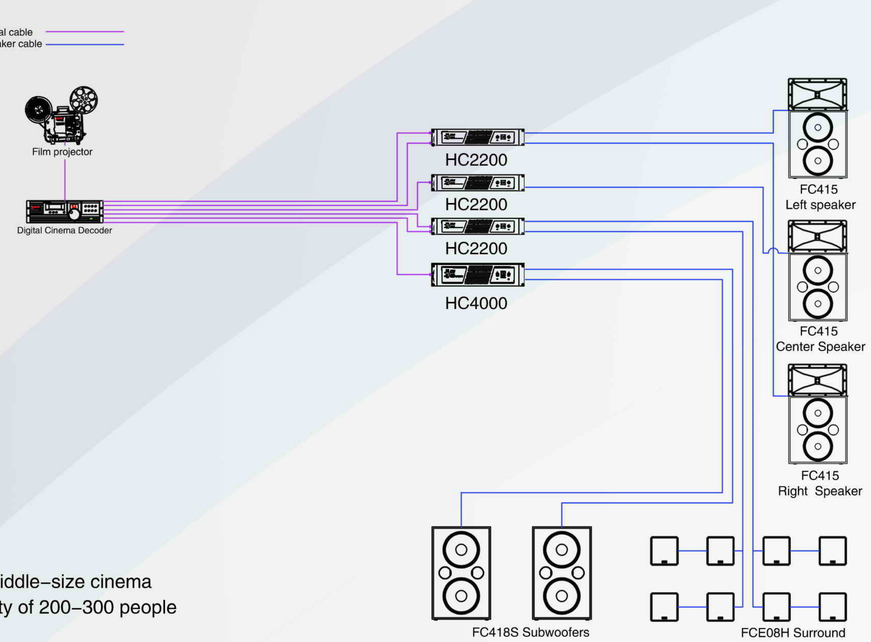


Apply for smaill–size cinema

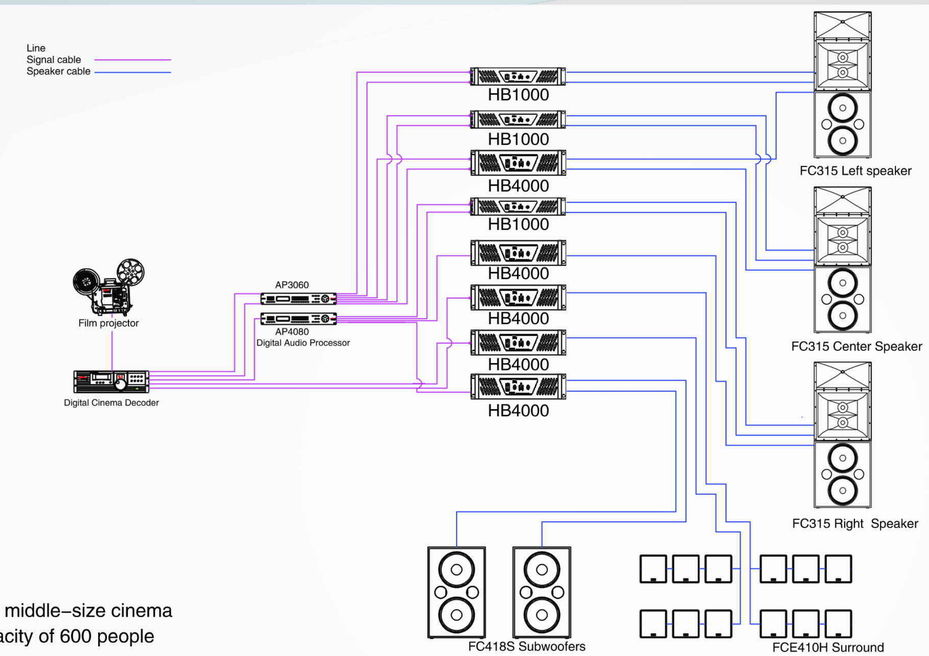
Fixed Cinema Recommend Configuration



Apply for middle–size cinema
with capacity of 400–500 people

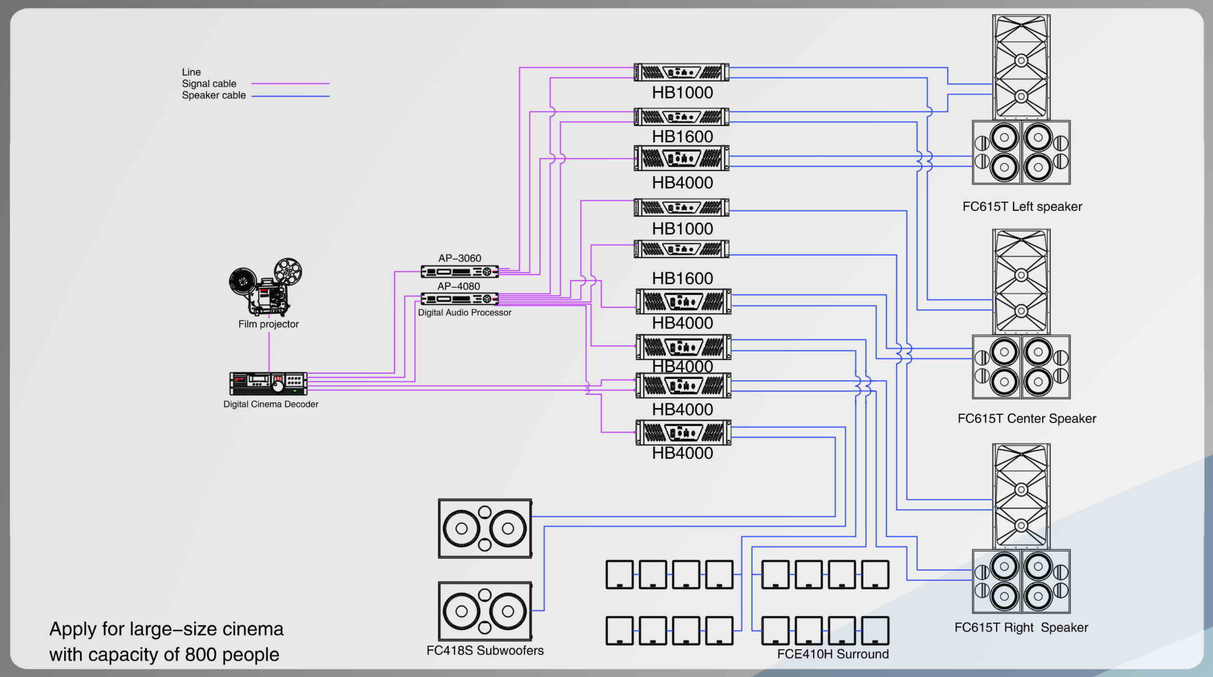


Apply for middle–size cinema
with capacity of 200–300 people

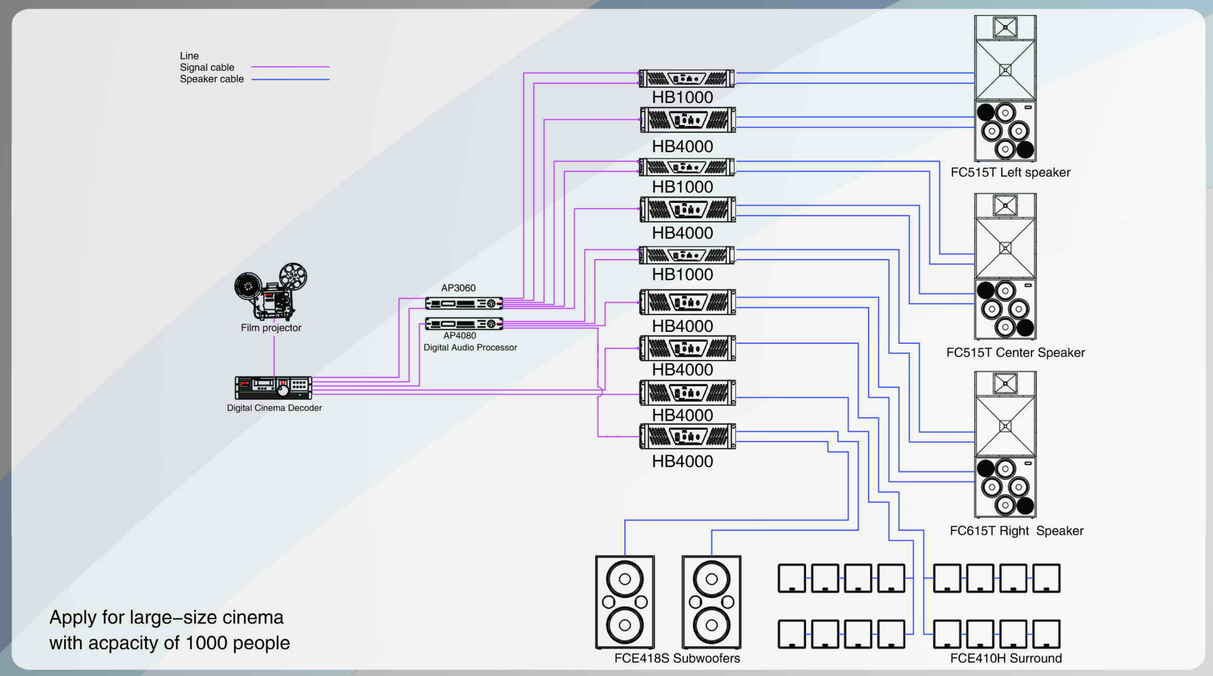


Apply for middle–size cinema
with capacity of 600 people

Fixed Cinema Recommend Configuration



Apply for large–size cinema
with capacity of 800 people



Apply for large–size cinema
with acpacity of 1000 people

NOTES

NOTES