datavideo®

MOBILE VIDEO STUDIOS
OCT-NOV 2011 | www.datavideo.us

Mobile Studios
Monitors
Video Recorders
A/V Converters
Accessories
Switchers
Time Base Correctors
Chromakey
Distribution Amplifier
Character Generators
Teleprompters
Intercoms

HS-2000
Five-Input HD Hand-Carried
Mobile Studio

DAC-9
HDMI to HD/SD-SDI
Converter

DN-60
DV/HDV Field Recorder

VP-445
HD/SD-SDI Distribution
Amplifier

TABLE OF CONTENTS

The HS-2000 is a hand-carried, mobile studio that simplifies the workflow of any HD-SDI production venue.

The HS-2000 combines 1 or 2 DVI-D sources and 3 or 4 HD-SDI sources. Based on the SE-2000 switcher, it also features a 17" LCD (LED Backlit) monitor to display a multi-view output. The built-in 4 channel audio mixer comes with a 5 channel wired intercom, complete with headsets, tally lights, and intercom belt packs for 4 users. Operating the HS-2000 is easy and time-efficient because every control is right on the work surface. Program output may be recorded on a digital video recorder, such as the Datavideo HDR-40/50 (not included), then monitored on the LCD screen. Powerpoint presentations or Character generation software (like Datavideo's CG-350) can be added to your live production via your computer through the DVI-D input.

With mobility in mind from start to finish, the aluminum case is a good combination of light weight and protective strength. The HS-2000 can go almost anywhere.

17" LCD (LED Backlit monitor)

ITC-50 Intercom

LCD Monitor Controls

SE-2000 Switcher

Features

- Designed to be "live-in-seconds" with easy setup, breakdown and storage at any location
- 1920x1080i and 1280x720p
- Built in digital clock and 2 logo stores
- Lumakey function for text overlay
- Picture-in-Picture function
- Built in TBC and frame synchronizers on all video inputs for glitch free switching
- A multi view including each source, picture-in-picture preview, preview and program. It also includes 28 pre-stored logos -14 per each logo, five operator setup memories, title overlay and DVI-D input ideal for use with presentation software

Specifications

Video
- Inputs: 4x HD-SDI & 1x DVI-D or 3x HD-SDI & 2x DVI-D
- Outputs: 2x HD-SDI & 1x HD-YUV
- Processing: 10-bit internal processing

Audio
- 4x XLR microphones or line audio inputs with 48v phantom power

Monitor
- 17-inch LED video monitor displays each source, picture-in-picture preview, preview, and program

Intercom
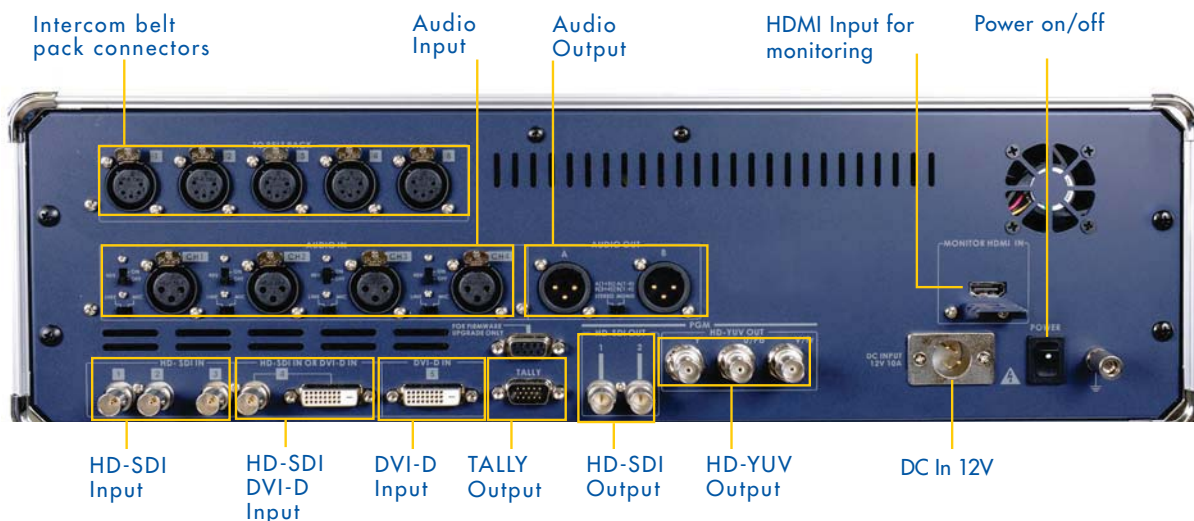- Built-in intercom system with 4 camera operator belt packs and camera mounted, dual color tally lights (5th ITC-100SL headset optional)

Power
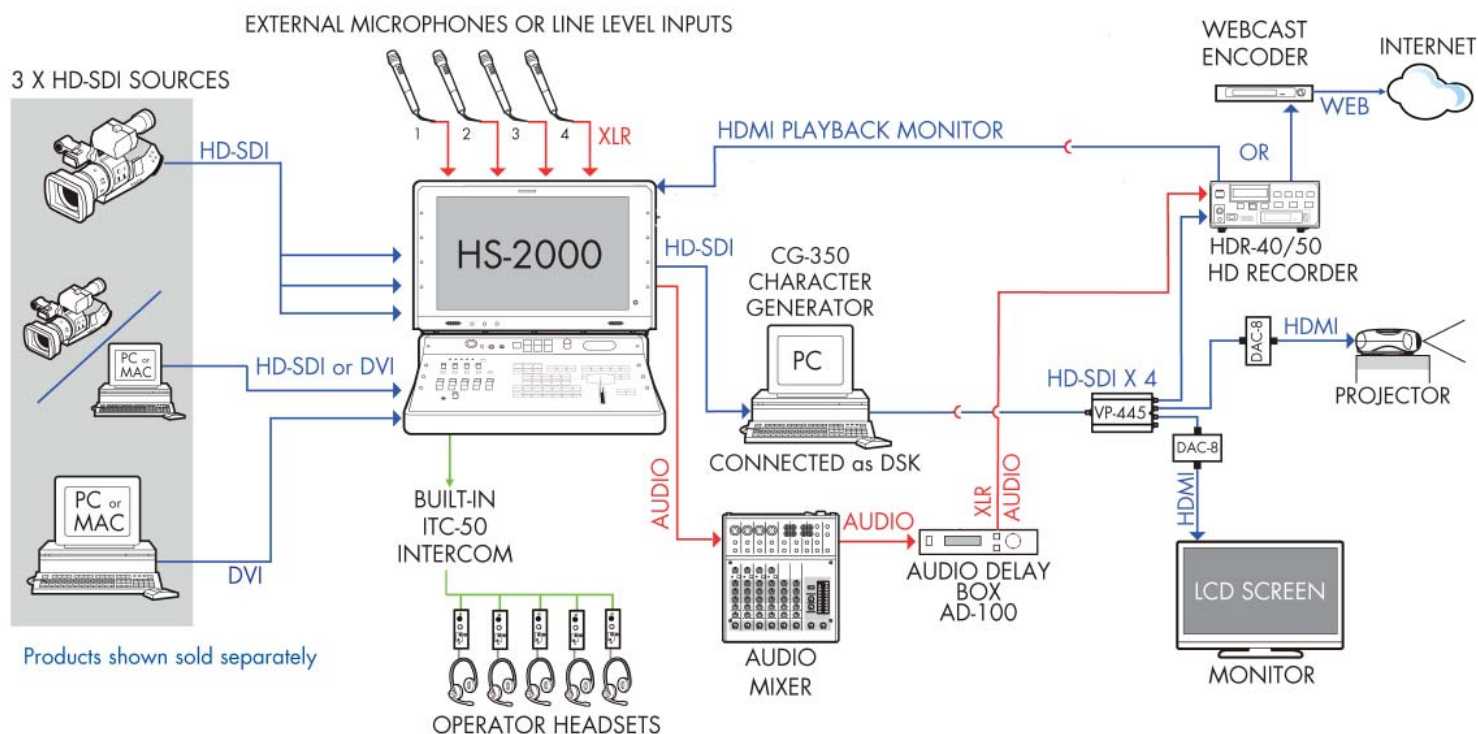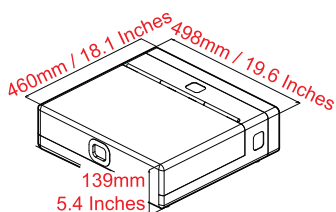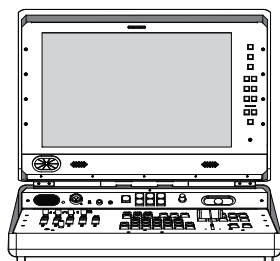- DC 12V input with 110/222 supply included

Rear View

Intercom belt pack connectors

Audio Input

Audio Output

HDMI Input for monitoring

Power on/off

HD-SDI Input

HD-SDI DVI-D Input

DVI-D Input

TALLY Output

HD-SDI Output

HD-YUV Output

DC In 12V

Example Setup Diagram

EXTERNAL MICROPHONES OR LINE LEVEL INPUTS

3 X HD-SDI SOURCES

HD-SDI

HD-SDI or DVI

DVI

Products shown sold separately

HS-2000

HDMI PLAYBACK MONITOR

HD-SDI

CG-350 CHARACTER GENERATOR

CONNECTED as DSK

BUILT-IN ITC-50 INTERCOM

AUDIO

AUDIO MIXER

AUDIO DELAY BOX AD-100

OPERATOR HEADSETS

WEBCAST ENCODER

INTERNET

WEB

OR

HDR-40/50 HD RECORDER

HD-SDI X 4

VP-445

DAC-8

HDMI

PROJECTOR

HDMI

LCD SCREEN

MONITOR

Dimensions

460mm / 18.1 Inches
498mm / 19.6 Inches
139mm 5.4 Inches

Width: 19.6 inches (498mm)
Depth: 18.1 inches (460mm)
Height: 5.4 inches (139mm)
Weight: 33.6lb (15.2kg)
Power:110-240V AC 60 Hz / 50 Hz 3A 36W Max

Included

4x MC-1
Headsets

4x ITC-100SL
Belt Packs

4x CB-3
65ft / 20m 5pin Cable

Suggested Accessories

CG-300 / 350 Software

An advanced windows based Character Generator for SD &HD productions. Software requires HD Extreme Card orAJA Video Capture Card acting as a down stream keyer (DSK).

PCR-350HD Workstation with Software / Decklink HD Extreme
This is an all inclusive workstation that comes with installed CG-350 in an HP/Compaq 6000 Pro Micro tower PC. Includes: 19" wide screen LCD monitor and a Decklink HD extreme card.

HDR 40 / 50
An HD/SD-SDI hard drive video recorder with HDMI output and XLR inputs. The HDR 50 comes with the rackmount casing.

DAC-8
A converter that takes the HD/SD-SDI video and audio sources and converts to HDMI.

VP-445
1x input, 4x output SDI distribution amplifier which works in either SD-SDI or HD-SDI setting.

AD-100
Audio delay box that allows synchronization of video and audio. Additional features also include traditional RCA connectors and professional XLR connectors.

The MS-900 is a portable, eight input SD mobile studio that speeds the workflow of any SD or travelling studio.

The shock mounted case of the MS-900 houses the SE-900 switcher, which can accept a variety of input boards for DV, SDI, DVI , YUV, as well as S-Video and composite video. It can store up to two logos for output display and also features a CG (Character Generator) overlay channel. You can use a CG (like Datavideo's CG-100) as a DSK and retain access to the multiple outputs of the SE-900 switcher. It also has a built-in 17" monitor for multi-view output, which folds down into a one rack-unit space for travel.

Some card options include external sync and a chromakey card that allows cuts between two cameras and two backgrounds. Additionally, it has an eight channel wired intercom with belt-packs and tally lights.

Features

- Virtual studio with up to eight live camera inputs. Requires optional chromakey card
- Built in frame synchronizer and TBC for each channel, no external gen-lock is required for flicker free switching between all 8 inputs – in any format
- Designed to be "live-in-seconds" with easy setup, breakdown and storage at any location
- Anti shock padding protects the MS-900 during transit
- Each input card offers a composite Video Preview Output, irrespective of the input type
- Each DV and SDI video input has an audio de-embedder which provides dual channel balanced audio output

Specifications

Video

- Inputs: up to 8 inputs with a choice of SDI, DV, DVI, component (Y:U:V), S-Video (Y/C) & composite
- Outputs: optional SDI, DV, YUV, S-Video and/or composite
- Inputs: both balanced XLR and RCA with audio delay for perfect sync with DV or SDI video sources
- Outputs: one balanced XLR +/- 12Vp-p, 1 RCA stereo

Control

- RS-232 or RS-422 control interface

Monitor

- Advanced multi-screen monitor to preview each source with next source/effect preview and program output – with overlay tally indicator

Recorder

- Built-in DN-500 hard disk recorder for video recording or playback

Intercom

- Keeping communication open between the camera crew, the producer, lighting, floor manager, etc. is vital in any live production. ITC-100 is an 8 channel talkback/intercom system that comes supplied complete with 8x camera man belt packs with headset/microphone & tally box indicator

Power Distribution Center

- Integrated Datavideo PD-1 power distribution center provides a simple and secure solution for connecting power in the studio or in the field from a 12V source, such as a generator

I/O Cards
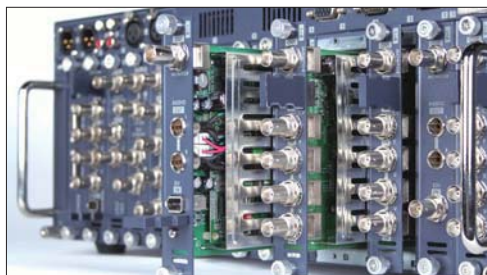
Easy installation of optional I/O cards including SDI, DVI, Down Stream Keyer, Genlock and more.

All inputs are synchronized internally, so no genlock is required, even between consumer camcorders/players and computer equipment.

Rear View

RP-31

PD-1

SE-900

Included Cards

External Control Card
RS-232, RS-422 & GPI control interface board allows easy integration with existing equipment that can be controlled such as tape recorders and players or presentation control panels.

Multi-image preview output card

I/O Cards

SDI Input Card
For users who work with SDI. Also includes audio de-embedding to a balanced pair. Features a useful composite monitor output for easy connection to an external preview monitor

DVI-D & VGA Input Card
Connect a computer and switch between live video and popular computer applications such as presentation and more. Perfect for live events like worship and company presentations. Features a composite monitor output, for easy connection to an external preview monitor.

Four-Channel Chromakey Function Card (Optional)
Create a virtual chromakey video studio with glitch-free switching between up to four video inputs. You can pair 4 fore-grounds (e. g. talent/actor in front of the camera) and backgrounds (like 3D backgrounds). The internal TBC takes care of synchronizing, even non-genlock equipment, like consumer camcorders can be used.

SDI Overlay Card
A down stream keyer (DSK) board that offers both Internal and External keying options. Perfect for integration with character generator hardware/software such as Datavideo CG-100 or CG-350.
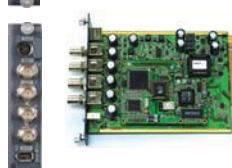
Analog & DV Output Card
Output card for a range of popular video formats – DV (with embedded audio from the audio delay circuit), composite video, S-Video (Y/C) and component (Y:U:V).
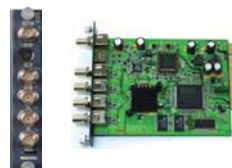
Analog Video Input Card
For users who require input from a range of popular analog video formats including composite video, S-Video (Y/C) and component (Y:U:V). Built-in TBC syncs each input, enabling non-genlock gear to be used without glitches. Features a useful composite Video monitor output, for easy connection to an external preview monitor.

DV Input Card
For users who work with digital video (DV). The DV input board also de-embeds the audio to a pair of balanced outputs.

SDI Output Card
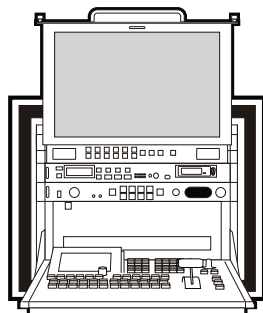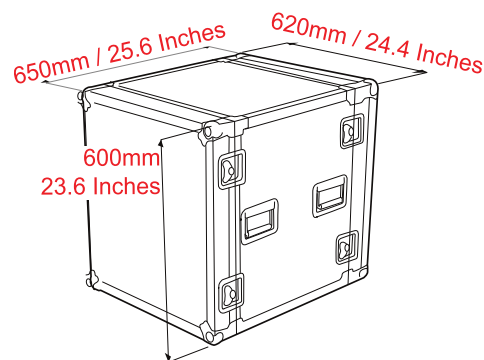For users who work with SDI. The SDI Output board also features a useful composite Video monitor output, for easy connection to an external preview monitor.
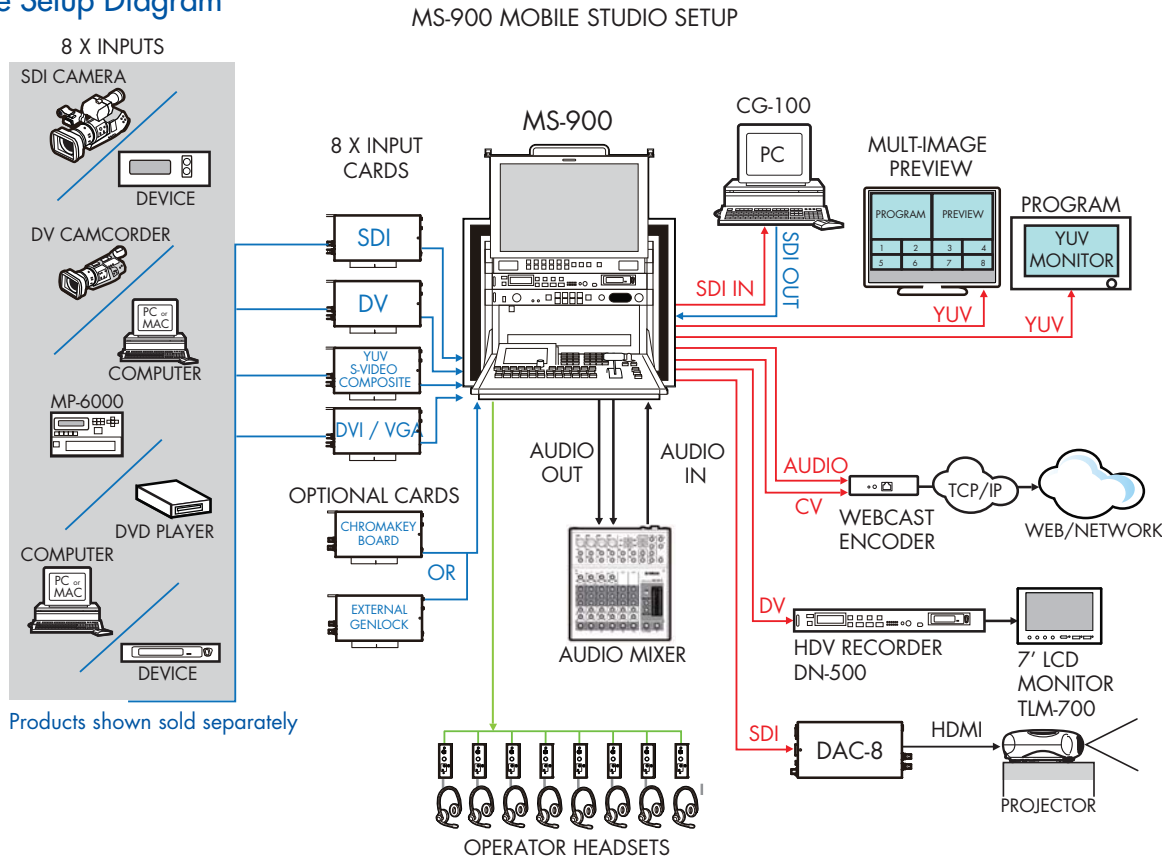
Dimensions

Width: 24.4inches (620mm)
Depth: 25.6 inches (650mm)
Height: 23.6inches (600mm)
Weight: 150lb (68kg)
PD1 Power Distribution Center:
AC 100-240VAC 50/60HZ or DC 12V 300W 25 Amps

650mm / 25.6 Inches

620mm / 24.4 Inches

600mm 23.6 Inches

Example Setup Diagram

MS-900 MOBILE STUDIO SETUP

Products shown sold separately

<table>
<tr>
<td rowspan="6" valign="top">Available Options and Accessories</td>
<td valign="top">MS-900 MOBILE STUDIO - NTSC / PAL
MS-900 includes Datavideo's SE-900 switcher with a pull-out, flip-up monitor that displays all incoming sources, preview and program outputs using the SE-900's multi-image output.</td>
<td valign="top">CB-3 / CB-4 / CB-76
These are 5 pin intercom and tally cables that comes in the following length: CB-3 is a 20M (65ft), CB-4 is a 50M (164ft), CB-76 is a 76M(250ft).</td>
</tr>
<tr>
<td valign="top">MS-900 DV
Includes 6x DV input cards, 2x YUV, CV, S, input cards, and 8 input SD switcher with RS-232/422 interface; and analog audio inputs on motherboard. In addition, keyboard, multi image preview card, SDI CG overlay card; and CV, YUV, S, DV video output cards, and 1 Chromakey card.</td>
<td valign="top">HD-40 / 50
A HD/SD-SDI recorder with 250 GB removable HDD and two hard drive enclosures included.</td>
</tr>
<tr>
<td valign="top">MS-900 STD
Includes 4x DV input cards, 4x YUV, CV, S, input cards, and 8 input SD switcher with RS-232/422 interface; and analog audio inputs on motherboard. In addition, keyboard, multi image preview card, SDI CG overlay card; and CV, YUV, S, DV video output cards, and 1 Chromakey card.</td>
<td valign="top">TB-5
A tally box that comes with 4 indicators compatible with both the Datavideo SE-500 and SE-900.</td>
</tr>
<tr>
<td valign="top">MS-900 SDI
Includes 6x SDI input cards, 8 input SD switcher, RS-232/422 interface; and analog audio inputs on motherboard. In addition, keyboard, multi image preview card, SDI CG overlay card; CV, YUV, S, DV video output cards, and 1 Chromakey card</td>
<td valign="top">PCR-100SDI Workstation with CG Software / Decklink SDI
PC Workstation with software for CG-100SDI installed in a HP Compaq 6000 Pro Micro tower PC ; includes a HP Compaq 19" widescreen LCD monitor and Decklink SDI card.</td>
</tr>
<tr>
<td valign="top">MS-900 YUV
Includes 8x YUV, CV, S, input cards, 8 input SD switcher with RS-232/422 interface; analog audio inputs on motherboard. Keyboard, multi image preview card, SDI CG overlay card; and CV, YUV, S, DV video output cards, and 1 Chromakey card are also included.</td>
<td valign="top">CA-SDI 50 / 100 / 150
A male to male BNC cable for 50 foot, 100 foot or 150 foot correspondingly to the model number above.</td>
</tr>
<tr>
<td valign="top">MS-900 BROADCASTER
TLM-170M, 2x TB-5, NVS-10, DN-400 or DN-500, 1x Chromakey Card. Pick from 6x YUV, CV, S Input Card and 6x DV Input Cards, assembled in a 8U aluminum case.</td>
<td valign="top">DAC-8
A converter that takes the HD/SD-SDI video and audio sources and converts to HDMI.</td>
</tr>
</table>

DVD Player
For Illustration Only

Rack Shelf

ITC-100
Talkback/Intercom

TLM-702
2 x 7" TFT LCD
Monitor Bank

SE-500

The MS-500 is a straight forward solution for transporting and using a Datavideo SE-500 switcher and a dual screen TLM-702 monitor as one unit.

The dual screen TLM-702 monitor is pre-wired to use one screen for selectable quad-view of each source and the other screen for program output. It's perfect for applications within education, houses of worship, internet streaming, live events, conferences and more. It also includes the Datavideo PD-1 and ITC-100 Intercom, for complete production versatility.

Outputs include: component (YUV) which could be connected to a DVD recorder or projector.

Rear View

RP-17

RP-18

PD-1

Features

- Designed to be "live-in-seconds" with easy setup, breakdown and storage at any location
- Anti shock padding protects the MS-500 during transit
- Can be operated from DC as well as AC power

Specifications

Video
- Inputs: 4x composite and S-Video
- Outputs: 2x composite and 1x S-Video

Audio
- Inputs: 2x unbalanced RCA and ¼" mic
- Outputs: 2x unbalanced RCA

Control
- RS-232 remote control interface

Monitor
- TLM-702 utilizes the SE-500 unique quad preview output on one of the high quality 7" TFT LCD monitors, while displaying the program output on the second 7" TFT LCD monitor

Intercom
- Keeping communication open between the camera crew, the producer, lighting, floor manager, etc. is vital in any live production. ITC-100 is an eight-channel talkback/intercom system that comes supplied complete with 4x camera man belt packs with headset/microphone & tally box indicator. Additional belt packs and extension cables available

Power Distribution Center
- Integrated Datavideo PD-1 power distribution center provides a simple and secure solution for connecting power in the studio or in the field from a 12V source, such as a generator. PD-1 also provides two power outlets

Dimensions

2U
1U
3U
2U

620mm / 24.4 inches

600mm / 23.6 inches

475mm
18.7 inches
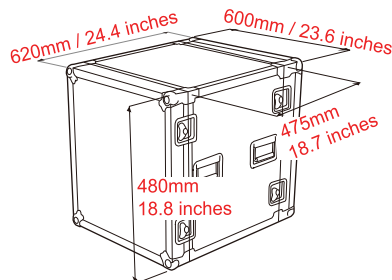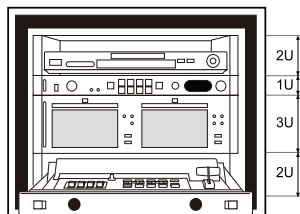
480mm
18.8 inches

Width: 23.6 inches (600mm)
Depth: 24.4 inches (620mm)
Height: 18.9 inches (480mm)
PD-1 Power Distribution Center:
AC 100-240VAC 50/60HZ or DC 12V 300W
Weight: 110lb (50kg.)

The HS-500 is a light weight hand-carried solution for transporting and using a Datavideo SE-500 switcher and a dual screen TLM-702 monitor as one unit.

The dual screen TLM-702 monitor is pre-wired to use one screen for selectable quad-view of each source and the other screen for program output. It's perfect for applications within education, houses of worship, internet streaming, live events, conferences and more.

CG (Character Generation) can be applied by using our Datavideo CG-100 and a Blackmagic Design Decklink ® card that overlays text and graphics on the program output (via a computer).

Outputs include: component (YUV) which could be connected to a DVD recorder or projector.

Aluminum Carrying Case:

Rear View

Features

- Easy adjustment of the viewing angle of the high quality TLM-702 TFT LCD monitor
- Fully integrated with cable loom and power supply. Connection to video sources (such as camcorders) is made easy with the quick release pivoting back panel
- Designed to be "live-in-seconds" with easy setup, breakdown and storage at any location
- Housed in a stylish and light aluminum carrying case for easy and secure transport

Specifications

Video
- Inputs: 4x composite and S-Video
- Outputs: 2x composite and 1x S-Video OR 2x composite 1x component

Audio
- Inputs: 2x unbalanced RCA and ¼" mic
- Outputs: 2x unbalanced RCA

Control
- RS-232 remote control interface

Monitor
- TLM-702 utilizes the SE-500 unique quad preview output on one of the high quality 7" TFT LCD monitors, while displaying the program output on the second 7" TFT LCD monitor

Dimensions

430mm / 16.9 Inches
555mm / 21.9 Inches
155mm 6.1 Inches
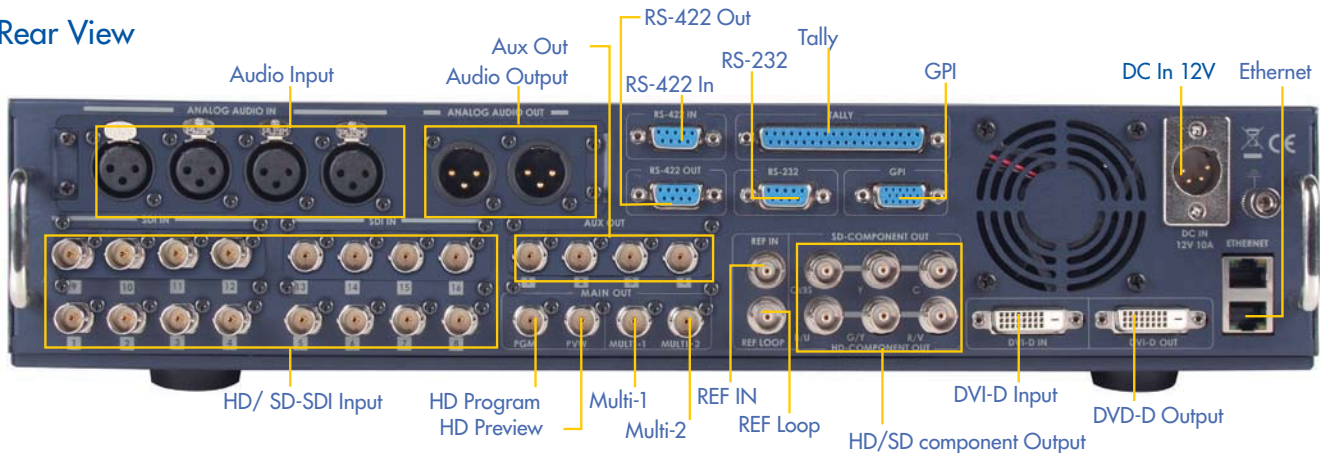
Width: 21.9 inches (555mm)
Depth: 16.9 inches (430mm)
Height: 6.1 inches (155mm)
Power: 12V 4.2A DC 110/220 power supply included
Weight: 29lb (50kg.)

The SE-3000 is a versatile, easy-to-use 16 input HD/ SD live production switcher filled with an impressive number of features and functions.

Not only does it boast a touch screen menu to select EFX, stills, and balance colors, it has dual multi-view outputs, chromakey, dual PiP, 3D functions, multi language support and a full size keyboard.

The processing unit is compact and conveniently designed to accommodate mobile applications.
An interesting and powerful feature added to the SE-3000 in the "Flex Source®" component, which is similar to having a second M/E. (See the next page for a connection schematic.)
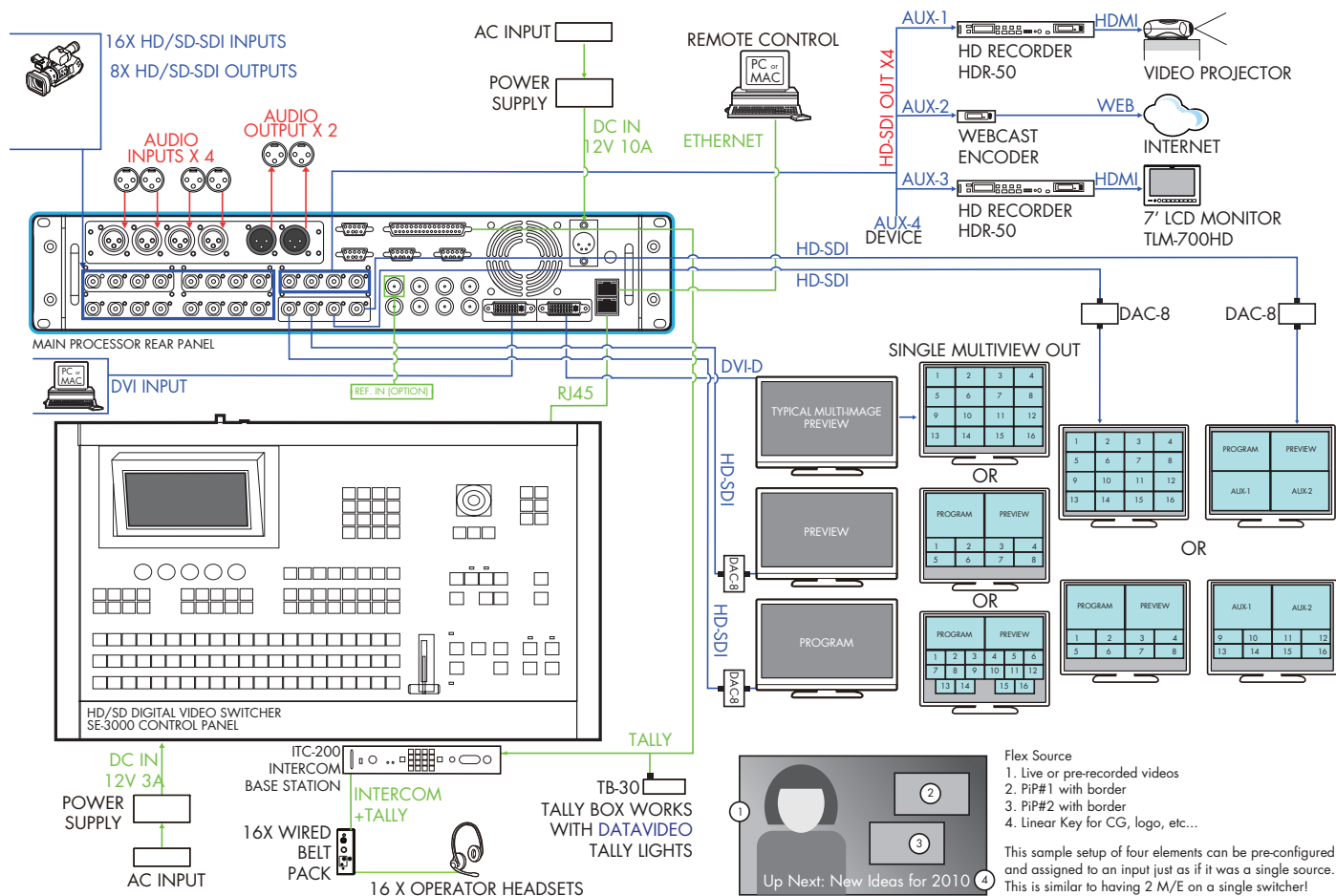
USB

Rear View

RS-422 Out
RS-422 In
Aux Out
Audio Output
Audio Input
RS-232
Tally
GPI
DC In 12V
Ethernet

HD/ SD-SDI Input
HD Program
HD Preview
Multi-1
Multi-2
REF IN
REF Loop
HD/SD component Output
DVI-D Input
DVD-D Output

DETAILS	
Video Format	HD (1080/59.94i,60i,50i) - (720/59.94p, 60p, 50p) - SD (525/60NTSC,625/50 PAL)
Video Processing	4:2:2:4, 10 bit digital component
Video Input	16x HD/SD-SDI inputs (included)
Video Output	1 HD-SDI (PGM), 1 HD-SDI (PVW), 1 DVI-D(MV), 2 HD-SDI (MV 1, MV 2) ,1 HD-YUV, 4 AUX
M/E	1x M/E with Flex Source®
Flexsource	Powerful Flex Source® feature allows 2x PiP images with background & linear keyer
Monitor	Built in 7" 800x480 touch screen LCD
Keyer (in M/E)	2x Linear, Luminance, Chroma
Transition Effects	40+ Wipe patterns, single/dual colored & video borders
	80+ DVE transitions including slides, pushes, 3D spins, page turns and page rolls
DSK	2x DSK - Linear & Luminance
PiP	2x channel in Flex Source®
Still Store	2x built in still stores, with internal storage for up to 100 uncompressed HD images
AUX Bus	4x AUX outputs
Input Functions	16x inputs with 8x SD-to-HD up converter built in
Output Functions	Dual channel multiviewer, 20x sources split on two monitors, HD-SDI, DVI & HD component
Ergonomic Touch Screen Control	Ergonomic LCD touch screen on the control panel with multi language support
Memory Function	Internal Storage for up to 999 user memories, 8x button shot box for instant access
Interface	Panel: RJ45, Editor: D-sub 9pin, Tally D-sub 37-pin, GPI D-sub 15-pin, PC: RJ45
Power Supply	12V DC operation 110/220 power supply and cord included

Specifications on the SE-3000 are subject to change without notice due to continual improvements.

Example Setup Diagram

16X HD/SD-SDI INPUTS
8X HD/SD-SDI OUTPUTS

AC INPUT
POWER SUPPLY
DC IN 12V 10A

REMOTE CONTROL
PC or MAC
ETHERNET

AUDIO INPUTS X 4
AUDIO OUTPUT X 2

AUX-1 — HD RECORDER HDR-50 — HDMI — VIDEO PROJECTOR
AUX-2 — WEBCAST ENCODER — WEB — INTERNET
AUX-3 — HD RECORDER HDR-50 — HDMI — 7' LCD MONITOR TLM-700HD
AUX-4 DEVICE
HD-SDI OUT X4

MAIN PROCESSOR REAR PANEL

PC or MAC
DVI INPUT
REF. IN (OPTION)
RJ45

HD-SDI
HD-SDI
DAC-8
DAC-8

DVI-D
HD-SDI
HD-SDI

SINGLE MULTIVIEW OUT

TYPICAL MULTI-IMAGE PREVIEW
PREVIEW
PROGRAM

OR
OR
OR

PROGRAM
PREVIEW
AUX-1 AUX-2

DAC-8
DAC-8

HD/SD DIGITAL VIDEO SWITCHER SE-3000 CONTROL PANEL

DC IN 12V 3A
POWER SUPPLY
AC INPUT

ITC-200 INTERCOM BASE STATION
INTERCOM +TALLY
16X WIRED BELT PACK
16 X OPERATOR HEADSETS

TALLY
TB-30
TALLY BOX WORKS WITH DATAVIDEO TALLY LIGHTS

Flex Source
1. Live or pre-recorded videos
2. PiP#1 with border
3. PiP#2 with border
4. Linear Key for CG, logo, etc…

This sample setup of four elements can be pre-configured and assigned to an input just as if it was a single source. This is similar to having 2 M/E on a single switcher!

Up Next: New Ideas for 2010

Products shown sold separately

Suggested Accessories

HDR-40 / 50
Hard drive video recorder comes equipped with a 250GB removable hard disk drive and enclosure. HDR-50 comes with an additional rack mount.

TLM-700HD
This is a one unit; 7" TFT HD LCD monitors that comes with an on screen display features and HD-SDI inputs.

ITC-200 (Coming Soon)
An intercom that accommodates up to 16 remote users. This set includes: case station, 20M (65ft) cables, headsets, belt packs and tally lights for 8 users.

CA-SDI 50/100/150
A male to male BNC cable for 50 foot, 100 foot or 150 foot correspondingly to the model number.

CG-350 - Software Only
This is a Windows based character generator for SD & HD productions. Software requires Decklink HD Extreme Card or AJA Video Capture Card acting as a downstream keyer (DSK).

DAC-8
A converter that takes the HD/SD-SDI video and audio sources and converts to HDMI.

PCR-350HD Workstation with Software / Decklink HD Extreme
Workstation with software for SD or HD CG-350 in a 3 RU rackmount computer with Decklink Extreme that can be used HD-SDI or SD-SDI.

CA-SDI 50/100/150
A male to male BNC cable for 50 foot, 100 foot or 150 foot correspondingly to the model number.

TB-30 (Coming Soon)
A tally box thats compatible with the Datavideo SE-3000 switcher.

PD-2 (Coming Soon)
A dual DC12V power supply with two AC inputs and UPS function. If one power supply fails, the other takes over.

The SE-2000 is a HD-SDI switcher ideal for small live production venues that use up to 5 inputs.

By combining 1 or 2 DVI-D sources and 3 or 4 HD-SDI sources, any user can make the most of this flexible unit.

The HD-SDI inputs may be HD cameras or small HDMI output cameras that can be used with a Datavideo DAC-9 HDMI to HD-SDI converter (not included). With Datavideo's CG-350 software, CG (character generation) may be added to any live production via computer, through the DVI-D input. PowerPoint® presentation can also be used via the computer as a source or overlaid using the luminance key.

The SE-2000's multi-display output includes each source, preview display, program display, PiP, and a digital clock display. In addition, the system will store and recall 14 different logos. It has memory settings (user-defined) and title overlay.

The SE-2000's built-in audio mixer has four audio-follows-video inputs (microphone or line), and two audio outputs. Operating the SE-2000 is easy and time-efficient because every control is right on the work surface.

Features

- Logo insertion - 28 pre-stored logos -14 per each logo (max 128 x 96 pixels) inserted via luminance key
- Luminance key, PIP, Freeze Image, Black
- Five individual speed keys, T-bar and TAKE key
- Five user preset memories
- 13 transitions with adjustable border width
- Multi preview monitor output (DVI Out)

Resolution
- Input 1920x1080i & 1280x720p
- Output 1080i - 720p

Specifications

Video
- Inputs: 4x HD-SDI & 1x DVI-D or 3x HD-SDI & 2x DVI-D
- Outputs: 2x HD-SDI, 1x HD-YUV & DVI (Multi-view)
- Processing: 10-bit internal processing

Audio
- 4x XLR microphone or line audio inputs

Power
- DC 12V input with 110/220 supply included

Multi-Image PVW out and clock display

Preview   Clock   Program

RKM-2000 Monitor & Intercom Holder

ITC-100 Intercom

SE-2000 Switcher

Optional Accessories

ITC-100
(4 users)

RKM-2000

ITC-100 Intercom System

SE-2000 Monitor/Intercom Holder

Rear View

Audio Input   Audio Output   Power Switch

HD-SDI Input   HD-SDI In/ DVI-D In input   DVI-D Input   Tally   HD-SDI Output   HD-YUV Output   Preview Output   DC In 12V

Example Setup Diagram

3 X HD-SDI SOURCES

EXTERNAL MICROPHONES

MULTI-IMAGE PREVIEW

7' LCD MONITOR

WEBCAST ENCODER

INTERNET

HD-SDI

DVI OUT

HD-SDI TO YUV

HD RECORDERS

HD-SDI

DAC-50   YUV

DVD RECORDER

HDR-40/50

HD-SDI or DVI

HD-SDI

CG-350 CHARACTER GENERATOR

PC

HDMI

HD-SDI X 4

VP-445

VIDEO PROJECTOR

PC or MAC

SE-2000 CONTROL PANEL

CONNECTED AS DSK

DAC-8

PC or MAC

DVI-D

ITC-100

INTERCOM +TALLY

AUDIO

AUDIO RCA

AUDIO

XLR AUDIO

HDMI

Products shown sold separately

OPERATOR HEADSETS

AUDIO MIXER

AUDIO DELAY BOX AD-100

LCD SCREEN

MONITOR

Suggested Accessories

SE-2000 KIT ITC
The kit includes the SE-2000, 8-channel ITC-100 intercom with 5 operator headsets, and RKM-2000 holder.

SE-2000 KIT HDR
The kit includes the SE-2000, HDR-50 SD/HD-SDI Hard Drive Video Recorder and RKM-2000 holder.

RKM-2000
Holder for SE-2000, ITC-100, and space for monitor (monitor not included).

ITC-100
An intercom that accommodates up to 8 remote users. This set includes: case station, 20M (65ft) cables, headsets, belt packs and tally lights for 4 users.

CG-350 - Software Only
This is a Microsoft Window based character generator for SD & HD productions. Software requires Decklink HD Extreme Card or AJA Video Capture Card acting as a downstream keyer (DSK).

PCR-350HD Workstation with Software / Decklink HD Extreme
Workstation with software for SD or HD CG-350 in a 3 RU rackmount computer with Decklink Extreme that can be used HD-SDI or SD-SDI.

CB-10
This is a YUV cable with sync of 4 BNC to 4 BNC (component to genlock) of 9.8 ft or 3 meter cable.

AD-100
Audio delay box that allows better synchronization of video and audio output. This unit permits traditional RCA connectors but also accommodates professional XLR connectors.

TLM-700HD
This is a one unit; 7" TFT HD LCD monitors that comes with on screen display features and HD-SDI inputs.

TLM-170
A 17" monitor that comes with a 1440 x 900 high resolution, 16:9 aspect ratio, and built-in speakers with SDI inputs.

DAC-8
A converter that takes the HD/SD-SDI video and audio sources and converts to HDMI.

DAC-9
A converter that takes the HDMI source and converts it to HD/SD-SDI video and audio sources.

VP-445
A HD/SD-SDI distribution amplifier that comes with mounting brackets.

CA-SDI 50 / 100 / 150
A male to male BNC cable for 50 foot, 100 foot or 150 foot correspondingly to the model number.

Dimensions
Width: 12.9 inches (330mm)
Depth: 16.9 inches (430mm)
Height: 3.3 inches (85mm)
Power: 12V 5A DC 110/220 power supply included

Multi-image Preview Output

The SE-900 is a two-piece eight input SD switcher designed for flexibility and ease-of-use.

The SE-900 accepts any combination of up to eight input boards for DV, SDI, DVI, YUV, S-Video and composite video. It can also store 2 logos for output display, and has a CG(Character Generation) overlay channel. A user can apply CG software (like the Datavideo CG-100) as a DSK and still retain access to the multiple outputs of the SE-900 switcher.

The rack mounted processing unit of the SE-900 is connected to the control panel by an RS-232 cable. Datavideo has prepared several SE-900 "kits" with various input cards included, but you may choose any configuration that you prefer for the eight slots available.

Card options include external synch and a chromakey card that allows cuts between two cameras and two backgrounds.

Features

- Built in frame synchronizer and TBC for each channel, no external gen-lock is required for flicker free switching between all 8 inputs – in any format
- Voice sync - audio delayed to minus 17 frames
- Picture-in-Picture (two fixed sizes, able to move from off-screen to off-screen)
- Joystick control can work with either RGB color correction (white balance), position control for the PIP or Mosaic effect
- Multi-image preview panel allows the producer to monitor all live sources as well as Program & Next source
- SDI overlay card pre-installed – use with any SDI-based character generator with a downstream keyer (DSK) (Upgrade card)
- Easy titling with an optional CG-100 Character Generator
- Digital effects – Over 50 digital effects (including 15 transitions with borders) with six speeds, plus 6 special effects
- Logo overlay included – use 24-bit RGB 96x24 bitmap image or input source
- Eight tally outputs, red/yellow LED tally lights included
- Audio may be embedded in the SDI stream
- GPI input trigger controls up to 10 pre-programmed effects in sequence
- Optional chromakey card - can accept four foreground inputs, four background inputs and four chromakey settings. Internal chromakey switcher allows for glitch-free switching between the four sources and backgrounds. Background and foreground selection is through the inputs to the switcher
- Separate control panel and 19" rack-mountable main unit

- Each input card offers a composite video preview output, irrespective of the input type
- Includes an audio delay function as well as a DV/SDI audio embedder for output. Additionally, each DV and SDI video input has an audio de-embedder which provides dual channel balanced audio output

Specifications

Video
- Inputs: up to 8 inputs with a choice of SDI, DV, DVI, component (Y:U:V), S-Video (Y/C) & composite
- Outputs: SDI, DV, YUV, S-Video and/or composite Video. (2) multi-image preview outputs. (1) Normal is the next source preview. Pressing the "Preview" key shows the next effect. (2) Multi-image output - composite and component video.

Audio
- Inputs: stereo balanced XLR's and RCA with audio delay for perfect sync with DV or SDI video sources
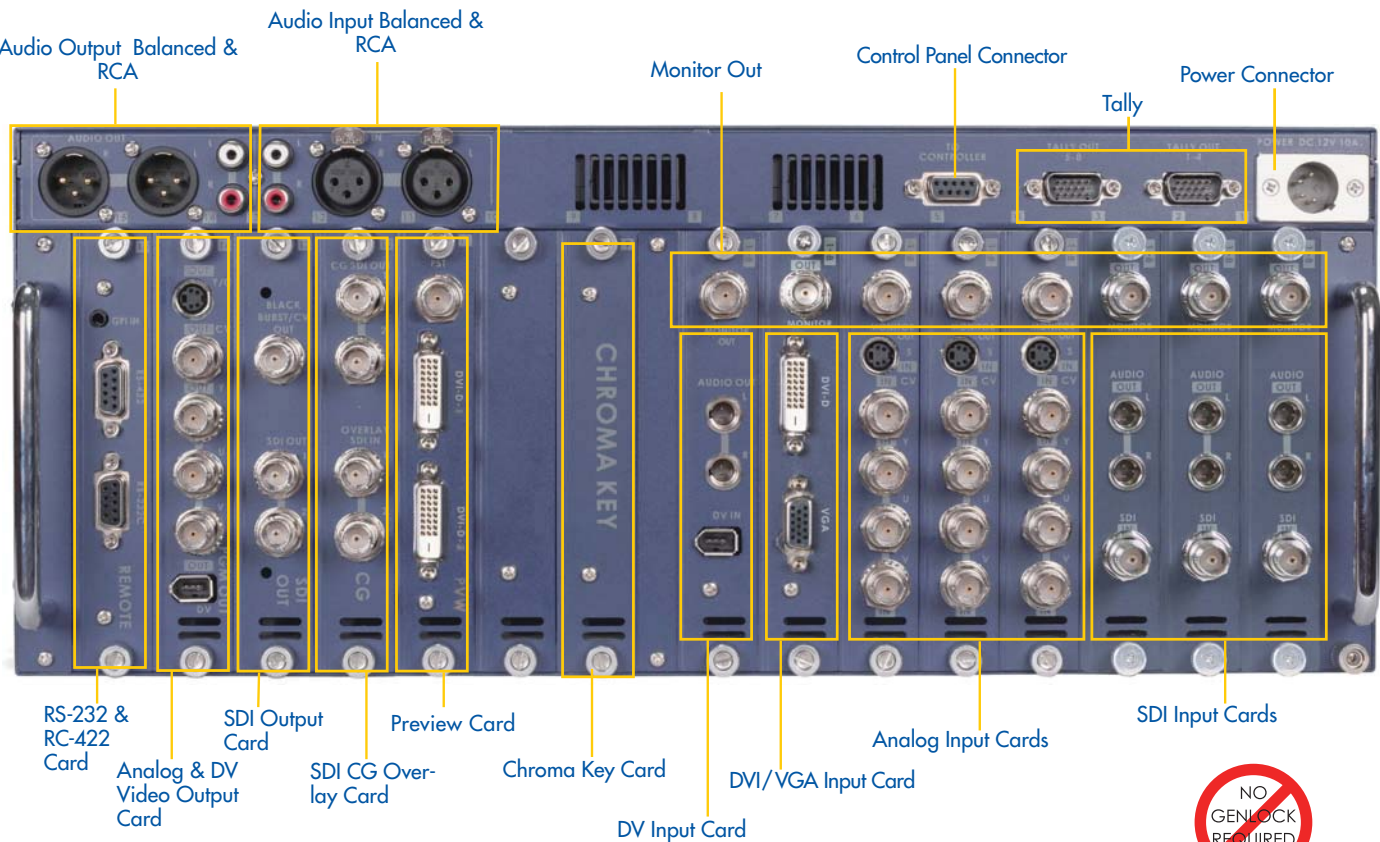- Outputs: stereo balanced XLR +/- 12Vp-p, 1 RCA stereo

Control
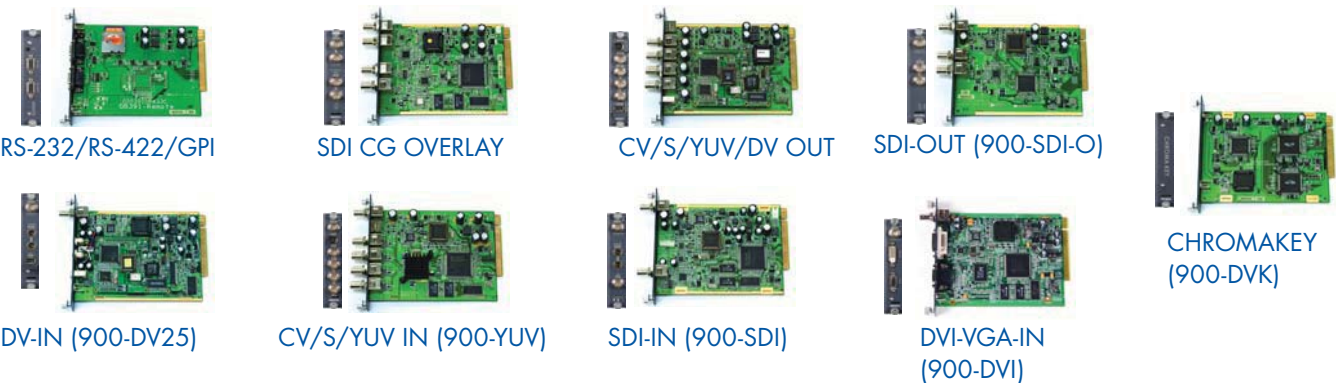- GPI and RS-232/RS-422 control interface

Power
- Main unit: 12V 10A power supply included
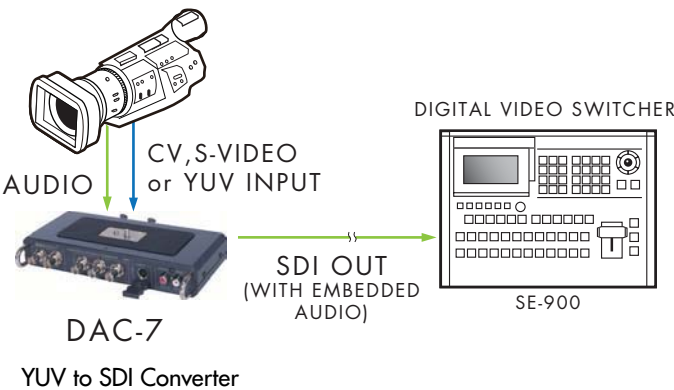- Control panel: 12V 1.2A DC operation 110/220 powersupply and cord included
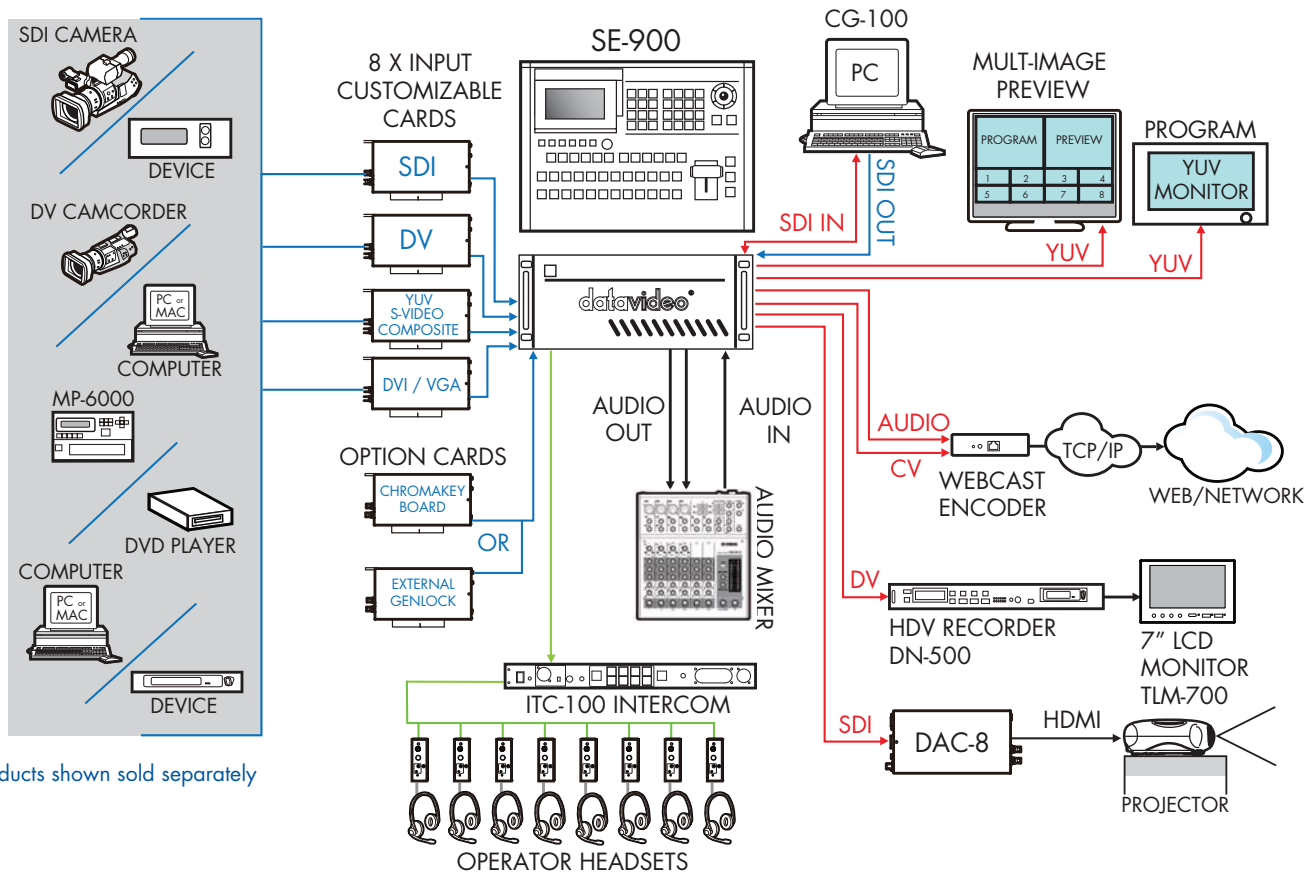
Rear View

Audio Output Balanced & RCA

Audio Input Balanced & RCA

Monitor Out

Control Panel Connector

Tally

Power Connector

RS-232 & RC-422 Card

Analog & DV Video Output Card

SDI Output Card

SDI CG Over-lay Card

Preview Card

Chroma Key Card

DV Input Card

DVI/VGA Input Card

Analog Input Cards

SDI Input Cards

NO GENLOCK REQUIRED

I/O Cards

RS-232/RS-422/GPI

SDI CG OVERLAY

CV/S/YUV/DV OUT

SDI-OUT (900-SDI-O)

CHROMAKEY (900-DVK)

DV-IN (900-DV25)

CV/S/YUV IN (900-YUV)

SDI-IN (900-SDI)

DVI-VGA-IN (900-DVI)

Optional Converters

AUDIO

CV,S-VIDEO or YUV INPUT

DIGITAL VIDEO SWITCHER

SDI OUT (WITH EMBEDDED AUDIO)

SE-900

DAC-7

YUV to SDI Converter

Example Setup Diagram

SDI CAMERA
DEVICE
DV CAMCORDER
COMPUTER
MP-6000
DVD PLAYER
COMPUTER
DEVICE

8 X INPUT CUSTOMIZABLE CARDS
SDI
DV
YUV S-VIDEO COMPOSITE
DVI / VGA

OPTION CARDS
CHROMAKEY BOARD
OR
EXTERNAL GENLOCK

SE-900

CG-100
PC

MULT-IMAGE PREVIEW
PROGRAM / PREVIEW
1 2 3 4
5 6 7 8

PROGRAM
YUV MONITOR

SDI IN
SDI OUT
YUV
YUV

AUDIO OUT
AUDIO IN
AUDIO MIXER

AUDIO
CV
WEBCAST ENCODER
TCP/IP
WEB/NETWORK

DV
HDV RECORDER DN-500
7" LCD MONITOR TLM-700

SDI
DAC-8
HDMI
PROJECTOR

ITC-100 INTERCOM

OPERATOR HEADSETS

Products shown sold separately

Available Options and Suggested Accessories

SE-900 DV KIT 6x DV Input Cards, 2x YUV, CV,S Input Card +8 Input SD Switcher & Analog Audio inputs on Motherboard . Keyboard, Multi Image Preview card, SDI CG Overlay card & CV,YUV,S, DV Video Out card.1x Chromakey Card.	**DAC-7** A converter that swaps analog to SDI. DAC-7L is an individual unit without the tri-pod mount.
SE-900 STD KIT 4x DV Input Cards, 4x YUV, CV,S Input Card+8 Input SD Switcher & Analog Audio inputs on Motherboard. Keyboard, Multi Image Preview card, SDI CG Overlay card & CV,YUV,S, DV Video Out card.1x Chromakey Card.	**TB-5** A tally box that comes with 4 indicators compatible with both the Datavideo SE-500 and SE-900.
SE-900 SDI KIT 6x SDI in Cards,+8 Input SD Switcher & Analog Audio inputs on Motherboard . Keyboard, Multi Image Preview card, SDI CG Overlay card & CV,YUV,S, DV Video Out card.1x Chromakey Card, 1x SDI out Card	**HDR-40 /50** Hard drive video recorder comes equipped with a 250GB removable hard disk drive and enclosure. The HDR-50 is a rack mount unit.
SE-900 YUV KIT 8x YUV, CV, S Input Cards, +8 Input SD Switcher & interface & Analog Audio inputs on Motherboard . Keyboard, Multi Image Preview card, SDI CG Overlay card & CV,YUV,S, DV Video Out card.1x Chromakey Card.	**TLM-404H** 4 units of 4" TFT LCD composite monitor on a 19" rack mount; that is made from steel and aluminum.
SE-900 BROADCASTER TLM-170M, 2x TB-5, NVS-10, DN-400 or DN-500, 1x Chromakey Card. Pick from 6x YUV, CV, S Input Card and 6x DV Input Cards.	**TLM-170** A 17" monitor that comes with a 1440x900 high resolution, 16:9 aspect ratio, and built-in speakers with SDI inputs.
ITC-100KF900 An intercom that accommodates up to 8 remote users. This set includes: case station, 20M (65ft) cables, headsets, belt packs and tally lights for 4 users.	**VP-314** This is an inline DV repeater that comes with 6-pin outputs.
DN-400 / DN-500 This is a DV/HDV hard drive disk recorder that comes with a removable 250GB hard drive disk and two hard drive enclosures. The DN-500 is a rack mount unit.	**CA-SDI 50 / 100 / 150** A male to male BNC cable for 50 foot, 100 foot or 150 foot correspondingly to the model number.

TLM-702 / 2 x 7" TFT LCD
Optional Monitor Bank

The SE-500 is a compact, light weight, 4-channel analog video switcher with built-in Time Base Correction.

The SE-500 accepts S-Video (Y/C) and composite video signals, making it ideal for small churches, schools, clubs, or pubs – anywhere that you want a low cost, extremely reliable video switcher. In addition to S-Video and composite Video, the SE-500 also provides component (Y:U:V) output. Features include dissolves, flicker free cuts, wipes, splits, PiP and a color processor. It also has built-in TBC for each channel for seamless switching.

The SE-500 has a selectable quad-view output of the four inputs. You only need two video monitors — one for the source and one for program output.

The SE-500 can be manually operated or controlled via RS-232 & MIDI interface.

Features

- Monitor output: preview may be displayed as PIP or Quad preview
- With the included breakout cable, one composite output and one S-Video output can be combined and converted into a component output
- Built in audio mixer with two microphone channels, one auxiliary video source output
- Digital processor - high image quality
- Digital effects - split, PIP, wipe, fade and quad display effect
- Illuminated backlit control buttons
- 5-pin MIDI control interface
- Headphone monitor with volume control
- NTSC or PAL video standards (not a dual standard device)

Specifications

Video
- Inputs: 4x composite, 4x S-Video
- Outputs: 3x composite and 1x S-Video or 2x composite 1x component

Audio
- Inputs: 2x unbalanced RCA and ¼" mic
- Outputs: 2x unbalanced RCA

Control
- RS-232 control interface

Power
- 12V 1.5A DC 110/220 power supply included

Included Components

SE-500
SE-500 model is a 4 input analog video and audio switcher that comes with a quad preview.

TB-5
A tally box that comes with 4 indicators compatible with both the Datavideo SE-500 and SE-900.
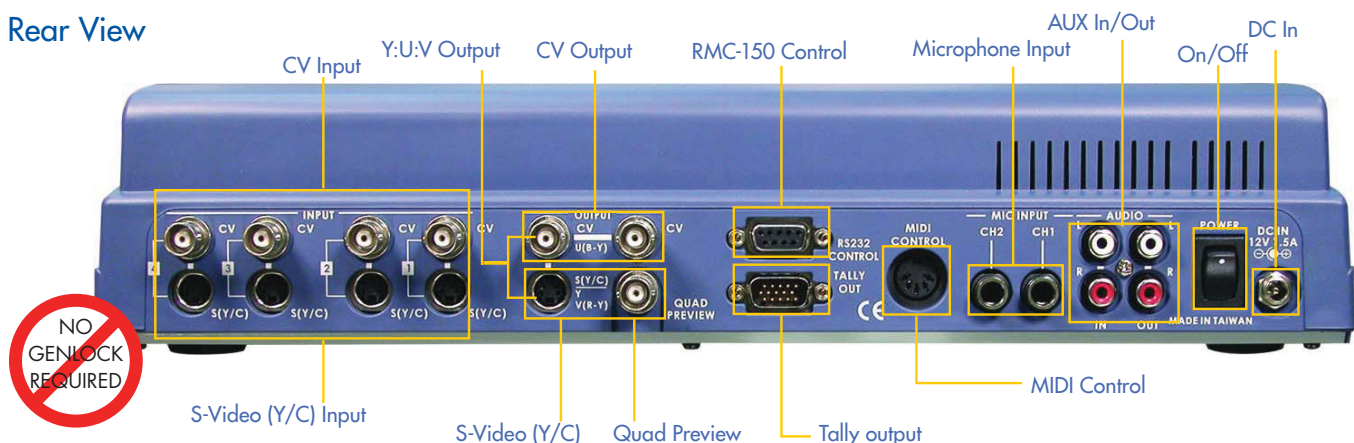
TLM-702
This is a 2 unit; 7" TFT LCD unit that comes with on screen display features and HD-SDI inputs.

RKM-572
This is a holder for the SE-500; also includes space to hold TLM-702.

Rear View

Optional Accessories

Ethernet Remote Controller

The RMC-150 is a PC/Network control box. Allows full control of SE-500 using our free software (Available on-line)

System Requirements

- CPU: Pentium 4 © , 2.4GHz
- RAM: 512MB RAM
- Screen Resolution: 1024x768
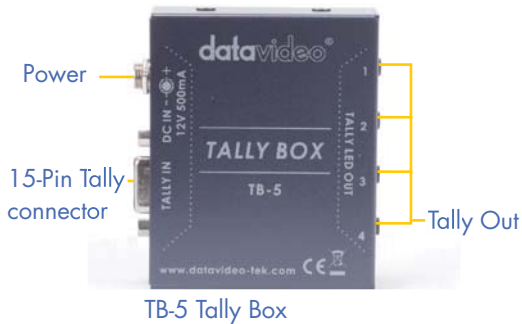- OS: Windows XP or higher ©

Remote control software

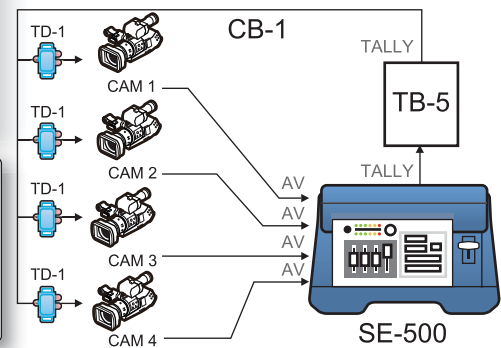Connect the SE-500 directly to a RS-232 port on an computer and control the switcher using special computer software.

Connection Diagram

TB-5 Tally Box & Indicators

Power

15-Pin Tally connector

Tally Out

TB-5 Tally Box

TB-5 Tally Box & Indicators

TD-1
Tally Indicator

Dimensions

Width: 15.7 inches (400mm)
Depth: 10.3 inches (262mm)
Height: 3.3inches (84mm)
Weight: 5lb (2.3kg)

4x MC-1

4x ITC-100SL

4x TD-1

The ITC-100 is a practical base station intercom system for up to eight remote-users, and comes complete with tally lights, belt-packs, cables and headsets for 4 users.

Users are connected to the base station via belt packs and 20 meter 5-pin XLR audio cables that may be extended up to 200 meters.

Included Accessories

Features

- 1 RU high chassis
- Supplied with gooseneck microphone and LED light
- External headset and microphone interface
- Enables clean and vital communication between the camera crew and the director
- Communication distance up to 200 meters
- Each operator package includes:
- Beltpack
- 20m communications cable with 5pin XLR cables
- Headset
- Tally light (Red/Yellow, camera mounted)

The ITC-100 is available as a standalone product or in a kit for specific switchers:

- SE-500 or SE-800:
  includes 4 belt packs with tally lights, headsets and 20m cables

- ITC-100KF900 (Use with the SE-900):
 Includes 8 belt-packs with tally lights, headsets, and 20m cables

Specifications

Power
- 12V 2.5A DC 110/220 power supply included

Intercom Beltpack ITC-100SL

Call Button

Tally

Talk Button

Headset

Headset with microphone

TD-1

Dimensions

Width: 19.0 inches (483mm)
Depth: 5.0 inches (127mm)
Height: 1.5 inches (38mm)
Weight: 5lb (2.3kg)

Intercom / Tally Output 1-8

Tally B Input

DC in 12V 2.5A
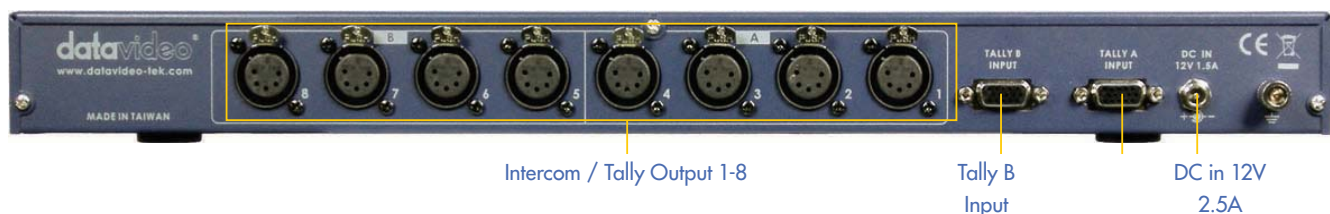
The DVK-200 is a Standard Definition, stand-alone chromakey solution designed for education, small studios, wedding videographers and smaller production companies.

The DVK-200 can help create live virtual studio effects using one camera and the DVI output of your computer. You can play clips, create still backgrounds, or embed people into a PowerPoint® presentation that you webcast. The DVK-200 has switchable DVI, S-Video and composite video foreground and background inputs. The YUV input is reserved for foreground use only. It supports either PAL or NTSC video standards.

Features

- Key out backgrounds - select blue, green or luminance
- Key out level adjustment - reduce the shadow after keying
- Crop/adjust window - select areas of screen window to be keyed
- Built in shrink function - reduces white or black edges on a subject
- Built in TBC (Time Base Corrector)
- Adjustable color processor, brightness, contrast, color and tint (tint is only NTSC)
- Spill adjustment – removes unwanted color cast on the subject
- Subject density – makes the subject become more or less defined
- Perfect accessory - the CKL-200 dual color light ring and retro reflective cloth (not included)

Specifications

DVK-200 Video

- Foreground Inputs: DVI, YUV, S-Video, and CV (composite)
- Background Inputs: DVI, S-Video, and CV (composite)
(Single DVI can be used as a foreground or background source)
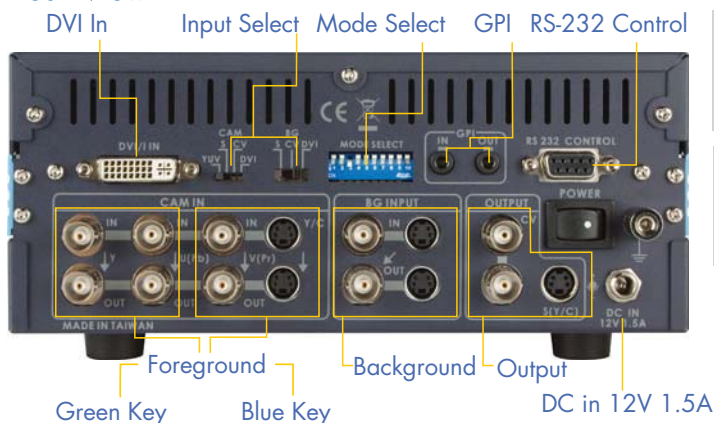- Outputs: 2x CV (composite) and S-Video

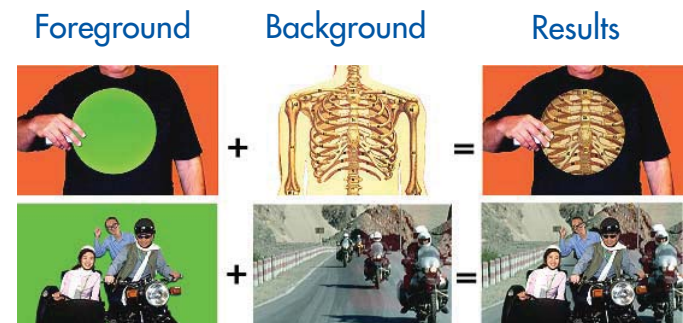### Control

- RS-232 remote control interface

Power

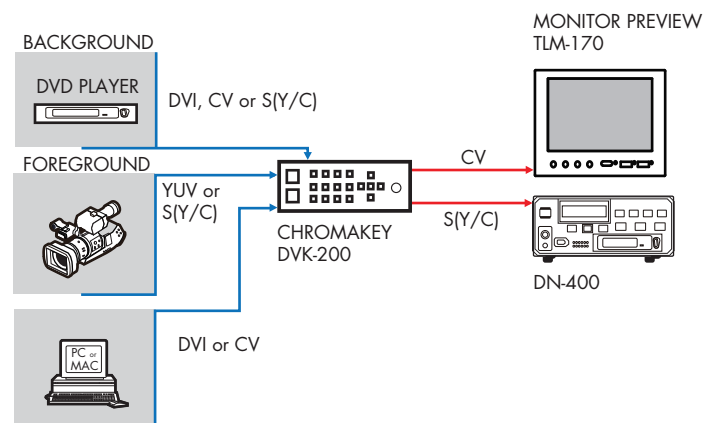- 12V 1.5A DC 110/220 power supply included

Rear View

DVI In   Input Select Mode Select   GPI RS-232 Control

Green Key   Blue Key   Foreground   Background Output   DC in 12V 1.5A

Preview Output

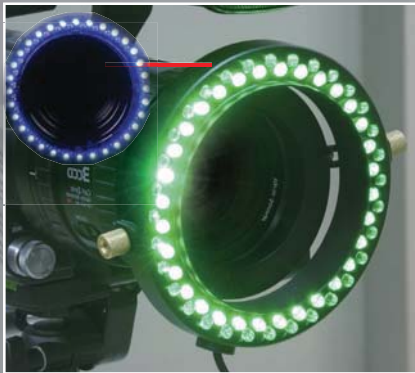| Foreground	Background	Results

Example Setup Diagram

LD-1+RF-1025FP
Single Dual Color (Green & Blue) LED ring

With the highly retro-reflective material,

You can switch between Blue or Green!

The CKL-300 is a combination of a dual-color (green & blue) LED ring, and a unique retro-reflective backdrop cloth.

The LED light ring is mounted on the lens of your camera, and projects a highly directional green or blue light on the backdrop cloth. The backdrop cloth is embedded with glass beads. Light is then projected back to the camera creating a perfect green or blue background, providing you with an excellent SD keying result with very little effort.

Change chromakey setup from Green to Blue with a flick of a switch on the supplied LD-1 controller

Features

- RS-232 remote control interface

CKL-300 kit includes

- LD-1 Dual green/blue LED light ring with control unit for switching colors and controlling LED brightness
- 82mm, 72mm (pre-installed in light ring) and 58mm adapter rings
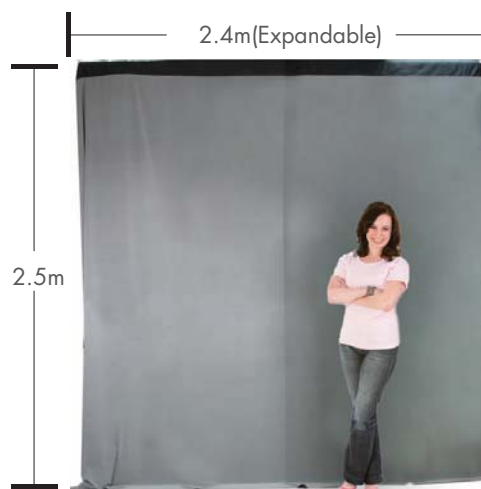- Power supply

Included

RF-1025FP
2 Fire-retardant) 4.1' x9.8' retro-reflective screens for creating your blue or green backdrop.

LD-1
LED rings, power supply, camera adaptor rings(82mm, 72mm, and 58mm) plus
x 9.8' (1.25m x 2.5m) retro-reflective screens.

Specifications

- Input: two camcorder inputs for foreground and one background input. S-video and composite video input
- Output: S-video and composite output
- Power supply comes with built-in dimmer control switch,
- GPI In/Out interface and External blue / green button
- LED lights effective range – 10 meters
- Dual Color LED – Green & Blue
- LED light ring lens size 72 mm (additional stepping rings from 52mm to 82mm available from your reseller)• Two retro-reflective cloths (2.5m x 1.2m each)
- Perfect light return up to 75° off axis
- DC power AC100~240V
- AC or DC 12V 1.5A
- Recommended for Standard Definition remote control

Retro-Reflective Screen

2.4m(Expandable)

2.5m

RF-1025FP
Expandable

Thanks to the retro-reflective material, light from the LED light ring is projected back to the camera (up to 75 degrees axis).

It's expandable in many ways with the use of its velcro edges or with its grommet and pole sleeves, connections.

The HDR-40 & HDR-50 are hard drive based video recorders designed for studio desktop applications, recording in both Standard and High Definition video via SDI. They have HDMI output, and conveniently include SDI loop through.

The recorders come with a 250GB removable hard drive and provide a choice of 1080i, 720p, 576i and 480i recording formats. You can record HD in either IBP or Intra-frame (I-frame), and in SD/IBP.

The recorded .M2T files are compatible with a wide range of NLE and play-out solutions on the market. Once recording is completed, the hard drive enclosure simply ejects and can connect via USB-2 to a PC or MAC based NLE system. (USB 2.0 to mini-USB cable provided).

You can work directly from the removable drive, or copy video files into the NLE's video drives. The remote control interface includes RS-422, RS-232, and GPI for easy integration with other equipment. The only difference between the two recorders is the HDR-50 is rack mounted.

Features
- Embedded audio via SDI
- Variable recording bitrates – records SD at 25Mbps and HD at 20-60Mbps
- 4:20:0 color sampling
- Audio monitor function
- 2U height fits in 19" standard rack mounts
- Records audio as MPEG-1 Layer 2 format at 48KHZ, 384Kbps
- Hard drive enclosure includes convenient USB 2.0

Specifications

Video
- Input: HD-SDI and SD-SDI
- Output: HD-SDI, SD-SDI, and HDMI

Audio
- Input: Balanced stereo XLR

Video Recording Format
- SD: 5Mbps to 15Mbps
- HD: 20Mbps to 60Mbps
- 4:2:0 color sampling
- M2T recording format (compatible with most NLE systems)

Audio Recording Format
- MPEG-1 Layer 2
- Sampling rate: 48kHz
- Bitrate: 384Kbps

Control
- GPI, RS-232, and RS-422 control interface (Sony control protocol compatible)

Power
- 12V 4.2A DC operation 110/220 power supply and cord included

Native HDV (.m2t)

Removable hard drive | USB & E-SATA interfaces HDD25
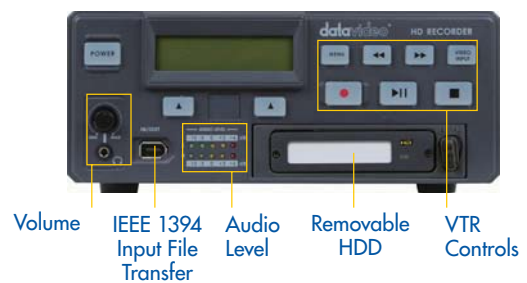
Dimensions
Width: 8.3 inches (210mm)
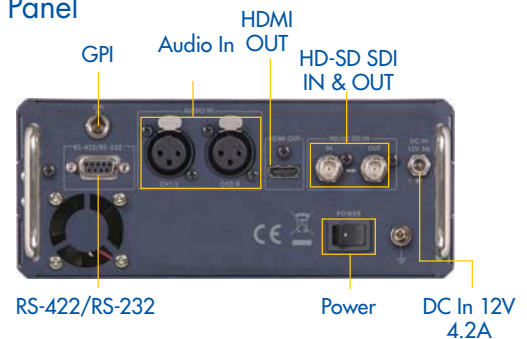Depth: 11.3 inches (286mm)
Height: 3.9 inches (99mm)
Weight: 6lb (2.8kg)
Power: 12V 4.2A DC 110/220 power supply included.

Front Panel

Volume | IEEE 1394 Input File Transfer | Audio Level | Removable HDD | VTR Controls

Rear Panel

GPI | Audio In | HDMI OUT | HD-SD SDI IN & OUT
RS-422/RS-232 | Power | DC In 12V 4.2A

HDR-50 (Rack Mounted)

HDR-50 has the same specifications as the HDR-40.

Front Panel

Audio Levels | Volume | IEE 1394 Input File Transfer | Removable Drive

Power | LCD Screen | VTR controls

Rear Panel

DC In 12V 3A | Power

GPI | RS-422 RS-232 | Audio In | HDMI Out | HD/SD-SDI IN & OUT

Dimensions
Width: 18.8 inches (478mm)
Depth: 9.4 inches (239mm)
Height: 1.6 inches (41mm)
Weight: 7lb (3.5kg)
Power: 12V 4.2A DC 110/220 power supply included

DN-60 HDV/DV Solid State CF Card Recorder

The DN-60 uses today's solid state high-capacity CF memory cards to provide hours of continuous HD recording. This enables you to record in even the most challenging of environments.

The DN-60 is powered by using four traditional or rechargeable AA batteries. Standard AA batteries should offer approximately 2 hours of continuous recording.

It connects directly to the existing DV or HDV camcorder through a single FireWire cable. Once you are done capturing video with the DN-60, use a CF reader to transfer your media files onto a Mac or PC.

Features

- Portable and shockproof
- Removable CF card, compatible with FAT32 or NTFS file systems.
- Use four standard AA batteries for more than two hours continuous recording or use the included external power adapter
- 8 seconds pre-record buffer, useful in recording unexpected events especially in science research, outdoor recording or security applications
- Tripod and hot shoe mountable
- Can be "triggered" to record by the camera

Specifications

Video
- Input: IEEE 1394 Firewire
- Output: IEEE 1394 Firewire

Audio
- Inputs: IEEE 1394 Firewire
- Outputs: IEEE 1394 Firewire

Video Recording Format
- 8GB: 37 minutes
- 16GB: 1:14 minutes
- 32GB: 2:28 minutes
- File support includes: AVI, MOV, MXF-OP1A, M2T format, QuickTime HDV and MXF-OP1A through MAC or PC software conversion program

Audio Recording Format
- MPEG-1 Layer 2
- Sampling rate: 48kHz
- Bitrate: 384Kbps

Control
- Control Interface RS-232 compatible with Sony Protocol

Dimensions

Width: 2.9 inches (74mm)
Depth: 1.1 inches (28mm)
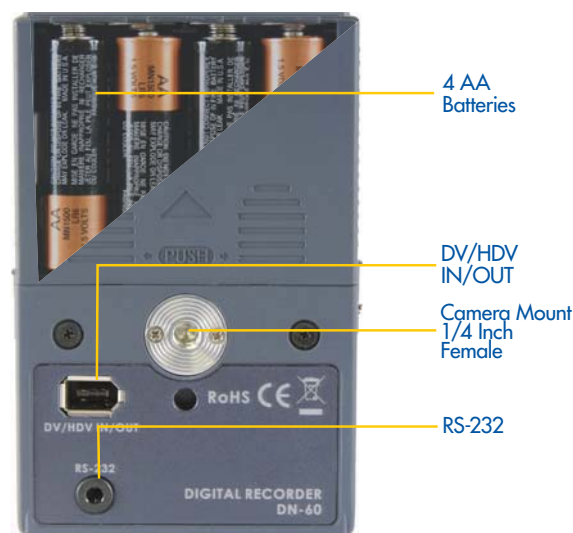Height: 4.4 inches (112mm)
Weight: 5.7 oz (160g)

Removable CF Card (not included)

DN-60BH Shoe to ball head (not included)

Rear View

4 AA Batteries

DV/HDV IN/OUT

Camera Mount 1/4 Inch Female

RS-232

The DN-200 is a portable recorder capable of extended recording times. It comes with a built-in, large capacity hard drive 250GB (HDD) that stores the video.

The DN-200 comes with a 250GB HDD that can record a minimum of 19 hours of video depending on the format you select (DV or HDV). It is an ideal replacement for tape recording. You can drag and drop the video files directly into the time-line of your video editing program. It is also ideal for applications within Broadcast TV, Education, Science, Medical, and Security applications.

Features

- Small size, easy to carry, high capacity hard drive recorder
- Built-in 2.5" 250 GB HDD, record over 19 hours of DV or HDV footage
- Set record date
- Comprehensive backlit LCD display for recording status
- 8 seconds pre-record buffer, useful in recording unexpected events especially in science research, outdoor recording or security applications
- Tripod and hot shoe mountable
- Manually triggered single frame recording
- Play last video feature

Specifications

Video
- Inputs: DV and HDV, composite video
- Outputs: DV and HDV, composite video via (A/V out)

Audio
- Inputs: composite, IEEE 1394 Firewire
- Outputs: IEEE 1394 Firewire, composite output via (A/V out)

Video Recording Format
- File support includes AVI, MOV, MXF-OP1A and M2T format, QuickTime HDV and MXF-OP1A through quick utility program

Audio Recording Format
- MPEG-1 Layer 2
- Sampling rate: 48kHz
- Bitrate: 384Kbps

Control
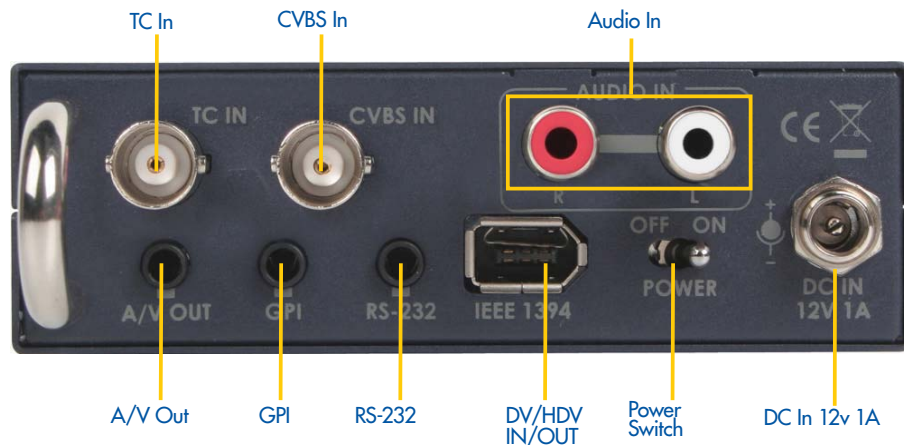- RS-232 and GPI control interface

Power
- 12V 1A DC 110/220 power supply included

Dimensions

Width: 3.9 inches (100mm)
Length: 7.8 inches (199mm)
Height: 1.3 inches (34.1mm)
Weight: 21.2 oz (600g)

Rear View

TC In   CVBS In   Audio In

A/V Out   GPI   RS-232   DV/HDV IN/OUT   Power Switch   DC In 12v 1A

The DN-400 and DN-500 video recorders allow for file-based tapeless solutions, saving you hours of capturing time.

The DN-400 comes with a 250GB HDD and a removable hard drive enclosure. One additional enclosure is included, if you would like to purchase another HDD. Once you have completed your recording, simply eject the hard drive enclosure and use USB 2.0 to connect to a PC or MAC based NLE system. The USB port provides power to the unit. It's perfect for use with laptops in the field. You can work directly from the removable drive, or copy video files to your NLE's video drives.

Native
DV (.dv)
HDV (.m2t)

USB & E-SATA interfaces
HDD25

Features

- 2.5" 250GB removable hard drive & extra enclosure included
- Embedded audio via HD-SDI
- IEEE-1394 port for connection to PC, MAC, and HDV device
- Hard drive enclosure includes convenient USB 2.0 connector and SATA connection
- 1U height fits standard 19" rack mount
- Audio monitor function
- Includes the FC-01 software utility to "wrap" file formats.

Specifications

Video

- Inputs: HDV, DV, composite, SD component, and S-Video
- Outputs: HDV, DV, composite, SD component, and S-Video

Note: Only the analog sources can be monitored during playback

Audio

- Inputs: balanced stereo mini XLR
- Outputs: balanced stereo mini XLR

Video Recording Format

- SD: 5Mbps to 15Mbps
- HDV: 20Mbps to 60Mbps
- 4:2:0 color sampling
- M2T recording format (compatible with most NLE systems)

Audio Recording Format

- MPEG-1 Layer 2
- Sampling rate: 48kHz
- Bitrate: 384Kbps

Control

- GPI, RS-232 (for firmware update only), and RS-422 control\ interface (Sony control protocol compatible)

Power

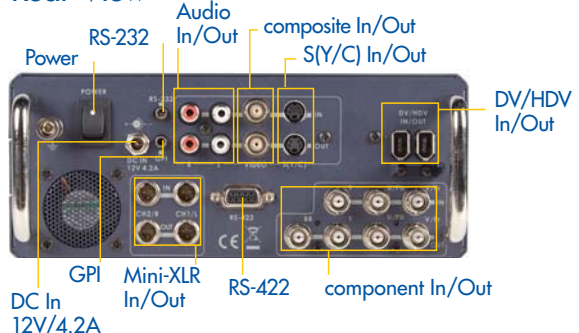- 12V 4.2A DC 110/220 power supply included

Dimensions

Width: 8.3 inches (210mm)
Depth: 11.3 inches (286mm)
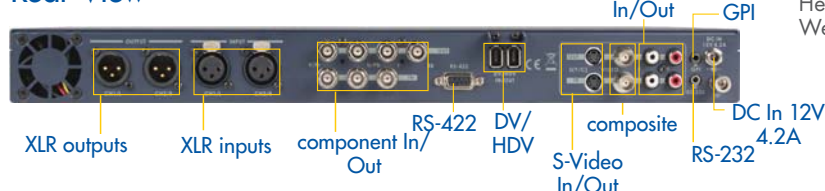Height: 3.9 inches (99mm)
Weight: 11.5lb (5.2kg)

Front View

VTR controls

Removable drive

DV I/O

Audio level

Headset Volume

Rear View

Power

RS-232

Audio In/Out

composite In/Out

S(Y/C) In/Out

DV/HDV In/Out

DC In 12V/4.2A

GPI

Mini-XLR In/Out

RS-422

component In/Out

DN-500 (Rack Mounted)

Front View

Power

LCD Screen

VTR Controls

Audio Level

Volume

DV/HDV In/Out

Removable Drive

DN-500 has the same specifications as the DN-400

Dimensions

Width: 18.8 inches (477mm)
Depth: 9.4 inches (23.87mm)
Height: 1.6 inches (40mm)
Weight: 7 lb (3.5kg)

Rear View

RCA Audio In/Out

GPI

XLR outputs

XLR inputs

component In/Out

RS-422

DV/HDV

S-Video In/Out

composite

RS-232

DC In 12V 4.2A

iPhone
(not included)

TP-100

iPhone App

Wired Remote

Turn your iPad or iPhone into a teleprompter that can go anywhere you take your camera.

You can easily load scripts, adjust speed, character size and colors. The wired remote let's you control speed and direction for a more professional result.
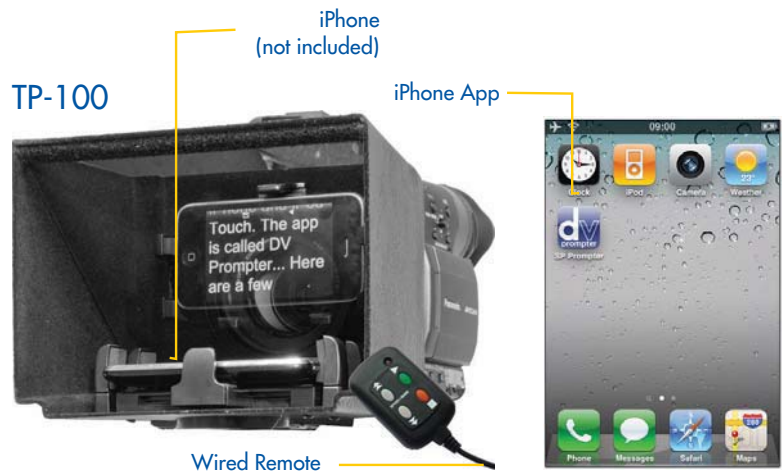
TP-100/200 Features

- Comes with 9.8 feet (3 meters) long, wired remote control
- The teleprompter software app can be downloaded from the iTunes app store for free
- Uses 60/40 beamsplitter glass for bright words with minimal light loss to the camera
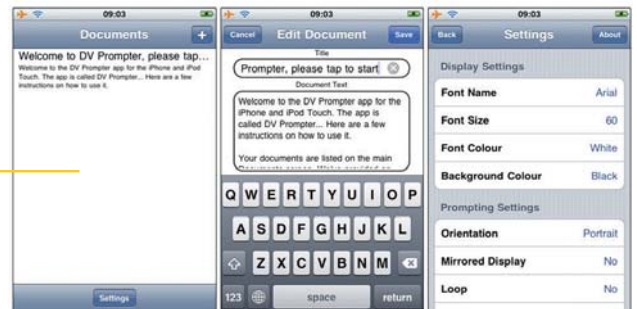
iPhone Script Software

TP-100 Features

- Supplied hood and stepping rings from 30.5 mm to 94 mm allows compatibility with a wide range of existing cameras
- Device cradle in the prompter hood adapts to grip devices of various sizes (application software for other smart phones is in development)

TP-200 Features

- Versatile for stand alone, in front of camera or below lens prompting
- Includes a light absorbing "sock-cloth" to shield the front of the camera and the back of the prompter
- Includes a simple to use bracket system for secure iPad installation
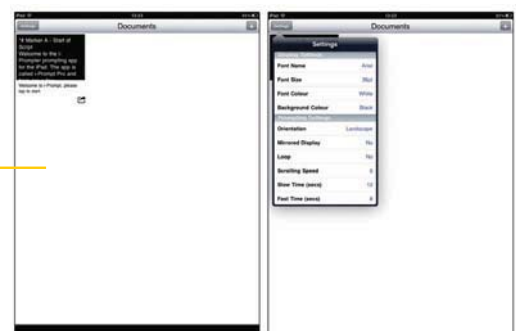
Sock Cloth

TP-200

iPad
(not included)

iPad App

iPad Script Software

The MP-1000 is a versatile digital media player with LAN and Internet Connectivity.

The MP-1000 stores its media and settings on the included 2 GB Compact Flash™ card, and can be easily updated via a network connection using the built-in Ethernet port. DVD quality content can then be scheduled remotely or locally.

Support for RSS enables automatically updated scrolling text, like news bulletins from leading broadcasters, with customizable colors and opacity.

The MP-1000 supports the most popular media formats, such as JPEG (for slideshows), MPEG-1, -2 and -4, AVI and DIVX movie files and MP3 and WAV sound files.

The MP-1000 is rugged and stands up to the rigorous challenges of today's most demanding digital media applications. The compact design also makes MP-1000 ideal for kiosks, digital signage advertising and other small-footprint installations.

Features

- File formats supported: MP3, MPG1, MPG2, MP4, JPG, AVI, DIVX, WAV, TXT, and RSS

- Video Codecs supported: MPEG-1, MPEG-2, MPEG-4 (must be .avi extension), DivX and Cinepak

- Scheduled or menu-controlled auto-playback

- Uses easily-available CompactFlash for storage – upgrade or replace quickly and affordably. Supports up to 16GB in FAT32 format

- Hundreds of units can be controlled and maintained remotely using the included software

- Scheduled content uploads

Specifications

Video

- Input: all files uploaded through compact flash card or ethernet port
- Output: composite, S-Video, component, and VGA

Audio

- Output: unbalanced stereo RCA

Power

- 12V 0.5A DC 110/220 power supply included

Rear View

RS-232   YUV Out   S-Video Out
DC In 12V 0.5A   VGA Out   composite In   Audio Out   Ethernet

Setup Example

Specifications

Output:
- CV x 1 (BNC connector)
- S-Video x 1 (S-Video connector)
- YUV x 1 (BNC connector)
- VGA x 1(D-Sub 15 pins)
- Unbalanced audio, stereo x 1 (RCA connector)

Video:
- NTSC / PAL
- BW= 5.0M <3dB
- S/N > 50
- Over or less Amplitude in Color bar <5%

Input:
- RJ-45

Audio:
- Maximum 6V p-p input without distortion
- Bandwidth: 20Hz ~ 20kHz
- S/N Ratio: >65 dB, THD: <0.1%

Media format support:
- Photo
- JPEG (.jpg, .jpeg), up to to 5120 x 3840 resolution (output resolution: 640x480)
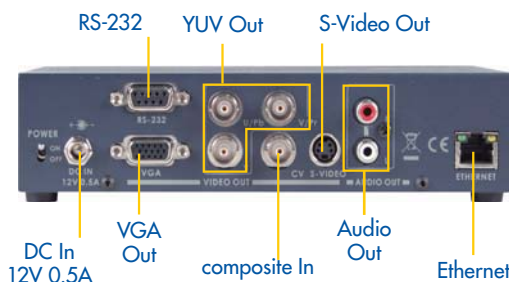
Audio
- MP3 (.mp3) from 32K to 256K bps
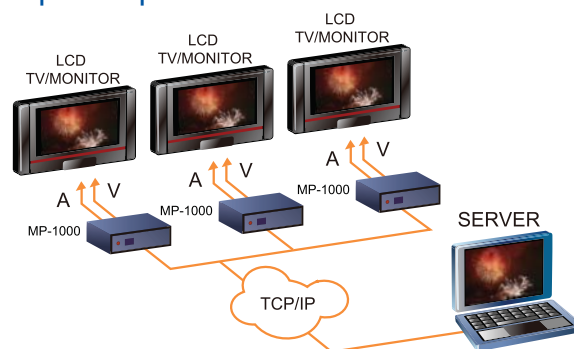
- PCM wave (.wav)

Video
- MPEG-1 (.mpg, .dat)
- MPEG-2 (.mpg, .vob, .avi)
- MPEG-4 SP, ASP* (.avi, .asf, .divx)
- Motion-JPEG (.avi)
- Video output: NTSC 640 x 480 or PAL 720 x 576
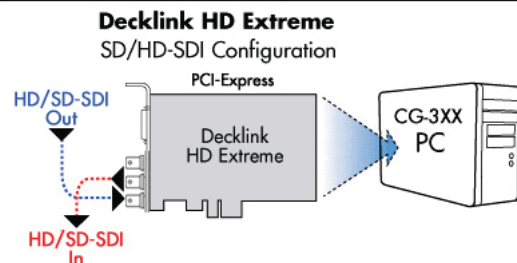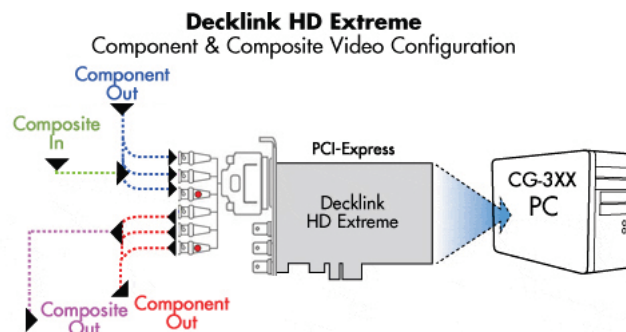 * SP is simple profile, ASP is Advanced SP

Decklink HD Extreme
Component & Composite Video Configuration

Decklink HD Extreme
SD/HD-SDI Configuration

FREE DEMO DOWNLOAD: Visit www.datavideo.us and click on "Character Generators".

The CG-300 and CG-350 are PC-based Character Generators designed for live and post production.

Both packages will work with a Blackmagic Design Decklink or AJA® Kona® LHe card as a downstream keyer. It can also be used to key and fill sources (depending on the card). Please note: Key and fill is only available via SDI or HD-SDI. The CG-300 is a modest version of the CG-350. The CG-350 includes Banner Crawl (continuously scrolling text) and Snyper (corner graphics, station IDs, and "coming up next" animation) functions, and the CG-300 doesn't. However, it is still a robust program for professional standard character generations.

Specifications

Graphics Output
- Supports resolutions from 320x240 to 1080i HD
- Anti-aliased characters with leading, kerning and tracking, with two edge and three shadow styles for each character.
- 32-bit color support (with transparency). Color can be selected by adjusting RGB or HLS levels.
- Create smooth gradients between any 2 colors in the characters, edges, shadows, and shapes.
- Character attributes can be drawn with custom textures (marble, wood grain, etc). 16 different textures can be used on each page.
- Up to 32 shapes per page. Each shape can be set to a solid color, semi-transparent color, a color gradient, or a texture. The shapes can be edged, colored, sized, italicized, and rotated just like text characters.
- Up to 16 full-color logos can fine-positioned, overlapped, sized, etc. just like characters.
- 1,000 Layers - Text, logos, and shapes can be placed on multiple layers, each independent of the others. Layers can be named.
- Support for BMP, JPG, GIF, PCX, TIF and TGA images.
- Text Style Gallery - 1 button access to your 64 user-defined text styles and each typefaces can use up to 25 Truetype different typefaces.
- Character height, width, angle and rotation all customizable, and independent from letter to letter.
- Variable character and edge blurs, independent of each other.

System Requirements
- CPU: Pentium® 4 2.0 GHz or higher
- Ram: 1 GB or higher
- Required Min. Disk Space: 15 MB
- Screen Resolution: VGA, XGA
- Network: 10/100/1000 Base T NIC
- OS: Windows® XP/7 SP2 (with Direct X 9.0c)

Title Composer
- Create static and animated title pages using editable text, layers, graphic placements and shapes.

Hardware Support
- Datavideo CG-300/350 utilizes the latest technology from Blackmagic Design® and AJA to maximize quality and affordability.*

Available Options

PCR-300HD Workstation with Software & Decklink HD Extreme
Workstation with software for SD or HD CG-300 installed in a HP Compaq 6000 Pro Micro tower PC which includes 19" wide screen LCD monitor and inclusive of a Decklink HD extreme card.

CG-300 KIT Software / Decklink HD Extreme
A kit that comes with the advanced window based character generator CG-300 software for SD & HD productions and Declink HD Extreme Card; used as a downstream keyer (DSK).

PCR-350HD Workstation with Software / Decklink HD Extreme
This is an all inclusive workstation that comes with installed CG-350 in an HP/Compaq 6000 Pro Micro tower PC includes: 19" wide screen LCD monitor and a Decklink HD extreme card.

CG-350 KIT Software / Decklink HD Extreme
A kit that comes with the advanced window based character generator CG-350 software for SD & HD productions and Declink HD Extreme Card; used as a downstream keyer (DSK).

CG-300 OR 350 - Software Only
This is a Microsoft Window based character generator for SD & HD productions. Software requires Decklink HD Extreme Card or AJA Video Capture Card acting as a downstream keyer (DSK).

* Blackmagic Design® does not support the use of Decklink® cards on the Dell computers, due to past incompatibilities. However, the CG-300/350 software can also be used with an AJA Kona LHi card or AJA® Kona® LHe card, if you intend to use a Dell® computer.

CG-300/350 SD/ HD Character Generators

Decklink HD Extreme
Component & Composite Video Configuration

Decklink HD Extreme
SD/HD-SDI Configuration

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- Ram: 1 GB or higher
- Required Min. Disk Space: 15 MB
- Screen Resolution: VGA, XGA
- Network: 10/100/1000 Base T NIC
- OS: Windows® XP/7 SP2 (with Direct X 9.0c)

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Available Options

PCR-300HD Workstation with Software & Decklink HD Extreme
Workstation with software for SD or HD CG-300 installed in a HP Compaq 6000 Pro Micro tower PC which includes 19" wide screen LCD monitor and inclusive of a Decklink HD extreme card.

CG-300 KIT Software / Decklink HD Extreme
A kit that comes with the advanced window based character generator CG-300 software for SD & HD productions and Declink HD Extreme Card; used as a downstream keyer (DSK).
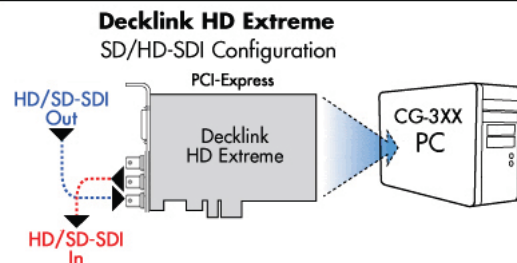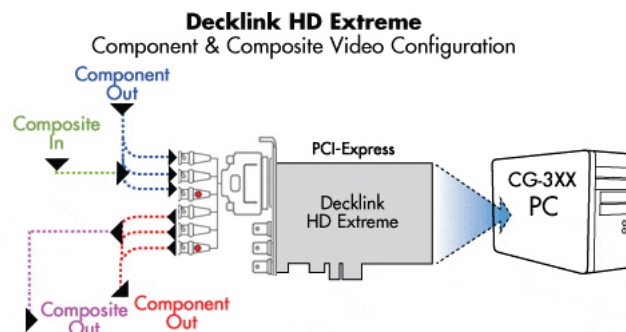
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TLM-170/H

TLM-170HR/HM

MONITOR	TLM-700	TLM-700HD	TLM-700PD	TLM-170 SERIES
System	Standalone Unit	Standalone Unit	Standalone Unit	Rack Mountable 1U
Panel	7" TFT LCD	7" TFT LCD	7" TFT LCD	17.3" TFT LCD
Resolution (Pixel)	480 x 234	800 x 480	800 x 480	1600 x 900
Backlight	CCFL	LED	LED	CCFL / LED (TLM-170H Only)
View Angle (Deg)	T: 40, B: 60, L/R:60	T: 60, B: 40, L/R: 60	T: 60, B: 40, L/R: 60	T: 40, B: 60, L/R:60
Brightness/Contrast	500cd/m² - 300	300cd/m² - 500	300cd/m² - 500	220cd/m² - 700
Color Temp Adjust	N/A	Yes	Yes	N/A
VIDEO				
CV, YUV, S-Video HD-SDI, HDMI, VGA By pass CV Out AUX RGB DV/IEEE1394port	2x CV	1x CV, 1x YUV 1x HD/SD-SDI, 1x HDMI	1x CV, 1x YUV 1x HD/SD-SDI, 1x HDMI	2x CV 2x HD-SDI 2x HDMI
AUDIO				
Headphone	No	1	1	1
Volume Control	No	Yes	Yes	Yes
Speaker	No	No	No	2
CONNECTIONS				
Over/Underscan	No	No	No	Yes
Tally LED Indicator	No	2 Color	2 Color	2 Color
Tally Input	No	15-Pin	15-Pin	3.5mm Jack
Aspect	4:3 / 16:9	4:3 / 16:9	4:3 / 16:9	4:3/16:9/16:10
Flip/Mirror effect	No	Yes	Yes	No
SPECIFICATIONS				
Depth	1.5 in / 38mm	1.5 in / 38mm	1.5 in / 38mm	2 in / 51 mm
Width	7.3 in / 127mm	7.3 in / 184mm	7.3 in / 184mm	19 in / 483 mm
Height	5 in / 184 mm	5 in / 127mm	5 in / 127mm	13.3 in / 338 mm
Weight	1.5 lbs / 0.8 kg	2 lbs / 0.9 kg	2 lbs / 0.9 kg	3.3 lbs / 1.5 kg
Power	6W	18W	18W	15W
OPTIONS				
			50,000 hours panel life	TLM-170H: Desktop - LED backlit TLM-170HM:1U rack-mounted shelf
				TLM-170HR: HD-SDI, 7U
				rack-mounted shelf
REAR VIEW				

- All Datavideo monitors auto-detect NTSC/PAL signal standard, and have adjustments for brightness, contrast color and tint. (Note: TLM-433 does NOT include tint adjustments.)

- Candela per square metre = cd/m² View angle abbreviation : T=Top. B=Bottom, L=Left .

- All monitors shown have a power input of DC12V. They do not include unbalanced audio input, output or DV audio.

TLM-702	TLM-702HD	TLM-434H	TLM-433	TLM-404H
Rack Mountable 3U	Rack Mountable 3U	Rack Mountable 19" 2U	Rack Mountable 19" 2U	Rack Mountable 19" 2U
7" TFT LCD	7" TFT LCD	4"x 4 TFT LCD	4" x 3 TFT LCD	4" x 4 TFT LCD
480 x 234	800 x 480	480 x 272	480 x 272	960 x 240
CCFL	LED	LED	CCFL	CCFL
T: 40, B: 60, L/R: 60	T: 40, B: 60, L/R: 60	T: 40, B: 60, L/R: 60	T: 80, B: 80, L/R: 80	T: 10, B: 30, L/R: 60
500cd/m² - 300	500cd/m² - 400	500cd/m² - 300	240cd/m² - 400	350cd/m²150
N/A	Yes	Yes	N/A	N/A
4x CV, 4x CV Out.	1x Y.U.V., 1x HDMI 1x CV, 1x component 1x HD/SD-SDI	4x HDMI 4x SDI Loop - Through 4x HD/SD-SDI	3x CV, 3x CV Out	4x CV, 4x Cv Out, 4X AUX RGB
No	No	No	No	No
No	No	No	No	No
No	No	No	No	No
No	Yes	Yes	Yes	No
2 Color	2 Color	1 per Monitor	1 Color	3 Color
3.5mm Jack	15-Pin	15-Pin	15-Pin	15-Pin
4:3/ 16:9	4:3 / 16:9 / 15:9	4:3 / 16:9 Selectable	4:3 / 16:9 Selectable	4:3
No	YES	No	No	No
2.5 in / 64 mm	2.5 in / 64 mm	2.5 in / 64 mm	3 in / 76 mm	3 in / 76 mm
19 in / 483 mm	19 in / 483 mm	19 in / 483 mm	19 in / 483 mm	19 in / 483 mm
5.3 in / 133 mm	5.3 in / 133 mm	5.3 in / 133 mm	3.5 in / 89 mm	3.5 in / 89 mm
5 lbs / 2.3 kg	5 lbs / 2.3 kg	5 lbs / 2.3 kg	3.3 lbs / 1.5 kg	4 lbs / 1.8 kg
30W	30W	15W	15W	50W

MODEL	DAC-7	DAC-8	DAC-9	DAC-50	VP-445
Type	Converter	Converter	Converter	Converter	Distribution Amplifier
Power Consumption	DC 12v 1.0A	DC 12v 1.0A	DC 12v 1.0A	DC 12v 1.0A	DC 12v 500mA
Product Description	Designed to convert analog video and audio to SD-SDI, allowing transmission of high quality video over distances of up to 200 meters.	Converts from HD/SD-SDI video and audio sources to HDMI. Quickly connect to LCD and Plasma televisions as well as video projectors.	Connect HDMI devices to professional SDI equipment, like video switchers or recorders, up to 200 meter.	A HD/SD-SDI to Y:U:V component & composite Video signal converter with built in up/down scaling	Four way HD/SD SDI Distribution Amplifier with Embedded Audio
VIDEO CONNECTIONS					
	Input: composite BNC, S-Video, component Output: 2x BNC connector for SDI signal	Input: 2x BNC Connectors for HD/SD-SDI Output: HDMI	Input: HDMI Output: 2x BNC connectors for HD/SD-SDI	Input: HD-SDI/SD-SDI Output: Y:U:V / component or composite signal	Input: 1x SDI (HD or SD) Output: 4x SDI (HD or SD)
AUDIO CONNECTIONS					
	Input: 2x balanced, XLR connector. 2x unbalanced stereo audio, RCA connector	2x unbalanced audio, RCA connector			
OPTIONS					
	The DAC-7 mounts between camera and tripod while the DAC-7L is a stand alone unit.	The DAC-8 also embeds the HDMI audio in the SDI stream.	The DAC-9 also embeds the HDMI audio in the SDI stream	Cross convert from 1080i to 720p Up/down scale resolution	
MODE					
NTSC or PAL	Only NTSC or PAL. Not a dual standard device.	Only NTSC or PAL. Not a dual standard device.	Only NTSC or PAL. Not a dual standard device. The DAC-9 is not compatible with the HDMI output from the Sony camera only.	Only NTSC or PAL. Not a dual standard device.	Does not up or down convert HD or SD.
REAR VIEW					

| AD-100	VP-299	TBC-1000	TBC-5000
Audio Delay	Distribution Amplifier	Time Base Corrector	Time Base Corrector
DC 12v 2.5A	DC 12V 0.5A	DC 12V 1.2A	DC 12V 1.5A
Allows you to synchronize video and audio. The unit features traditional RCA connectors as well as professional XLR connectors.	One in, four out S-Video and composite video distribution amplifier. Has a built-in video amplifier. Used to distribute one signal into many.	Used to improve video signal quality for better, cleaner video captures. Most video camcorders produce relatively unstable, poorly-synchronized signals.	A compact and flexible 4 channel Time Base Corrector and Matrix Switcher.
	Input: S-Video and composite Output: S-Video and composite	Input: S-Video and composite Output: S-Video and composite	Input 4x composite & 4 S-Video with genlock TBC.
Input: unbalanced RCA and balanced XLR Output: unbalanced RCA and balanced XLR	Input: unbalanced RCA Output: unbalanced RCA	Input: unbalanced RCA Output: unbalanced RCA	
Low power consumption. It can be powered by Datavideo PD-1 power distribution center.	4:2:2 sampling rate, 13.5MHz 8-bit video resolution	Built-in distribution amplifier (4 outputs)	
NTSC or PAL	Auto Detection NTSC or PAL	Auto Detection NTSC or PAL	Supports both NTSC and PAL. 8-bit internal processing

PD-1

Power Distribution Center

TB-5

For SE-500

Tally Box with Tally Indicator

CAD-01

Balanced to Unbalanced (XLR to RCA) audio attenuator (set of 2)
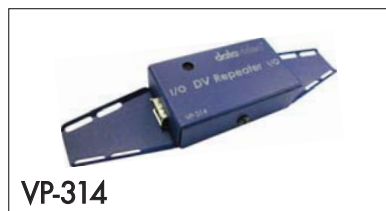
VP-314

DV Repeater 1 to 1

ITC-100SL

Intercom Belt-pack

HDD-25

Removable Hard drive carrier

CA-64

4-pin to 6-pin Adapter

CB-7

GPI Cable 3.9ft

CB-10

7.9ft HD-YUV Cable

CB-15D

1ft DV Cable

CB-2

S-Video-to-BNC Splitter Cable

RMC-180

Panasonic PTZ Camera Controller

CB-3

66.4ft 5-Pin ITC-100 Intercom cable

CB-4

164ft 5-Pin ITC-100 Intercom cable

CB-21

5.11ft DVI-I to VGA Cable

CB-76

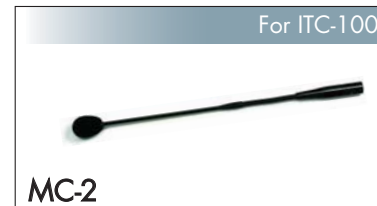250.3ft 5-Pin ITC-100 Intercom cable

CB-15U

1ft DV Cable

datavideo®

For SE-800 / SE-800AV

RMC-120

IP / Internet Control Box

For SE-800

RMC-140

Next Source & Tally box

DN-60BH

Shoe to ball head

TD-1

Tally Light Indicator

For ITC-100

MC-2

Intercom Gooseneck Microphone

For ITC-100

LP-1
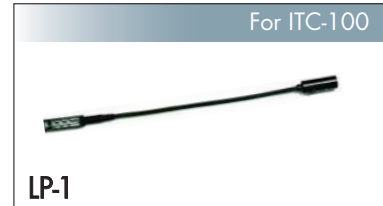
Intercom Gooseneck Light

BAC-03

Balanced / Unbalanced Audio Converter

CA-2266

5.4ft 6-pin to 6-pin DV Cable

CB-20

5.11ft DVI-HDMI Cable

MC-1

Microphone Headset

CA-1066

32.3ft DV cable

CA-2264

5.4ft 6-pin to 4-pin DV Cable

CA-2066

64.10ft DV cable

BH-05

Ball & socket head for mounting LCD monitors or similar to a tripod

CB-19

5.4ft DVI-D Cable

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