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MCS-8M

Compact Audio Video Mixing Switcher

Compact Audio Video Mixing Switcher with Simple and Intuitive Operability

Sony introduces a new model to its switcher lineup, the MCS-8M Compact Switcher with a built-in audio mixer and frame synchronizer.

Equipped with a variety of interfaces as standard, the MSC-8M in HD mode can accept sources from HD SDI, HDMI and DVI-I input. Plus with 3ch AUX output, this switcher can be easily integrated into a wide-range of production systems.

In addition, this user-friendly switcher has many preset DME wipe patterns, P in P, a built-in multi-viewer, one-channel frame memory output, an Input Freeze function for each source, the ability to import still images via a USB port, a 3D Mode function, a six-channel audio mixer, and more.

Designed to be simple with intuitive operability, the MCS-8M reduces the learning curve time and provides ideal functionality for a wide range of small live production applications. Affordable and powerful, it is well-suited for applications from fly packs, weddings, houses of worship productions, music videos to conferencing.

Versatile Capability

The MCS-8M is a powerful production tool, with Sony's state-of-the-art switcher technology packed into its compact body. The internal video-processing technology comes from Sony's popular and trusted Sony MVS Series switchers.

Based on the production needs, a signal can be selected from either HD or SD mode for processing. This switcher offers an ideal performance for small live productions.

HD Mode: 1080i/59.94/50, 720p/59.94/50,
SD Mode: 480i/59.94, 576i/50

Inputs

HD Mode: HD-SDI (x 4), HDMI (x 3), DVI-I (x 1)
SD Mode: SD-SDI (x 4), Analog Composite (x 3), DVI-I (x 1)
* Frame synchronizer function is available for all inputs.

Outputs

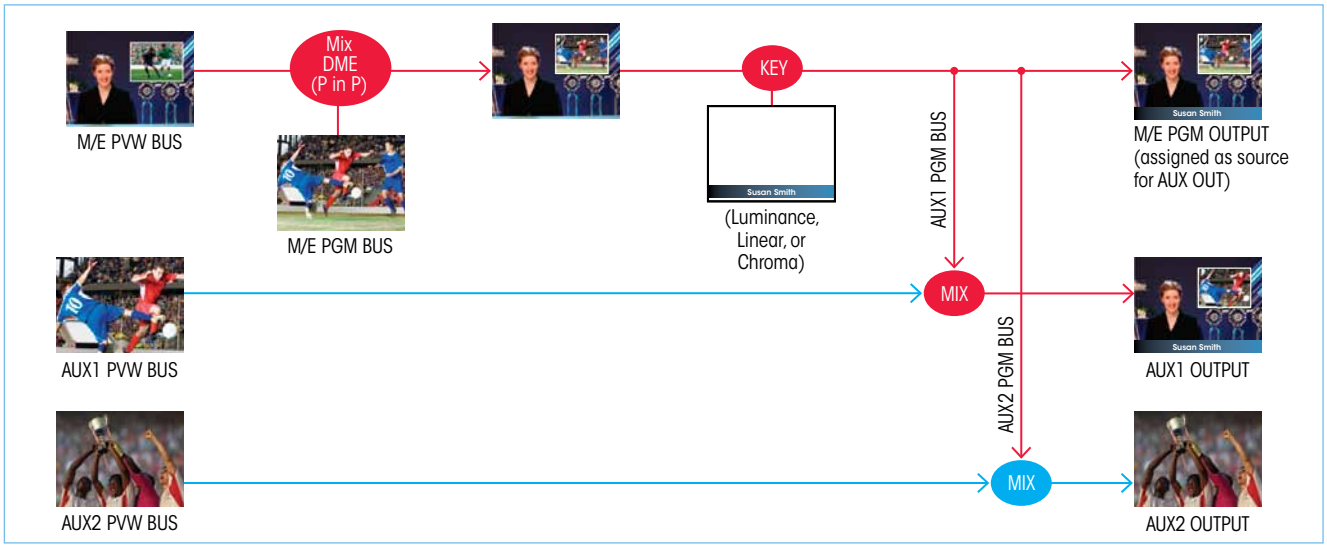
HD Mode: PGM (HD-SDI), AUX1 (HD-SDI),
AUX2 (HD-SDI and DVI-D),
Multi-viewer (DVI-D and HD-SDI)
SD Mode: PGM (SD-SDI), AUX1 (SD-SDI),
AUX2 (SD-SDI and Analog Composite),
Multi-viewer (DVI-D and SD-SDI)



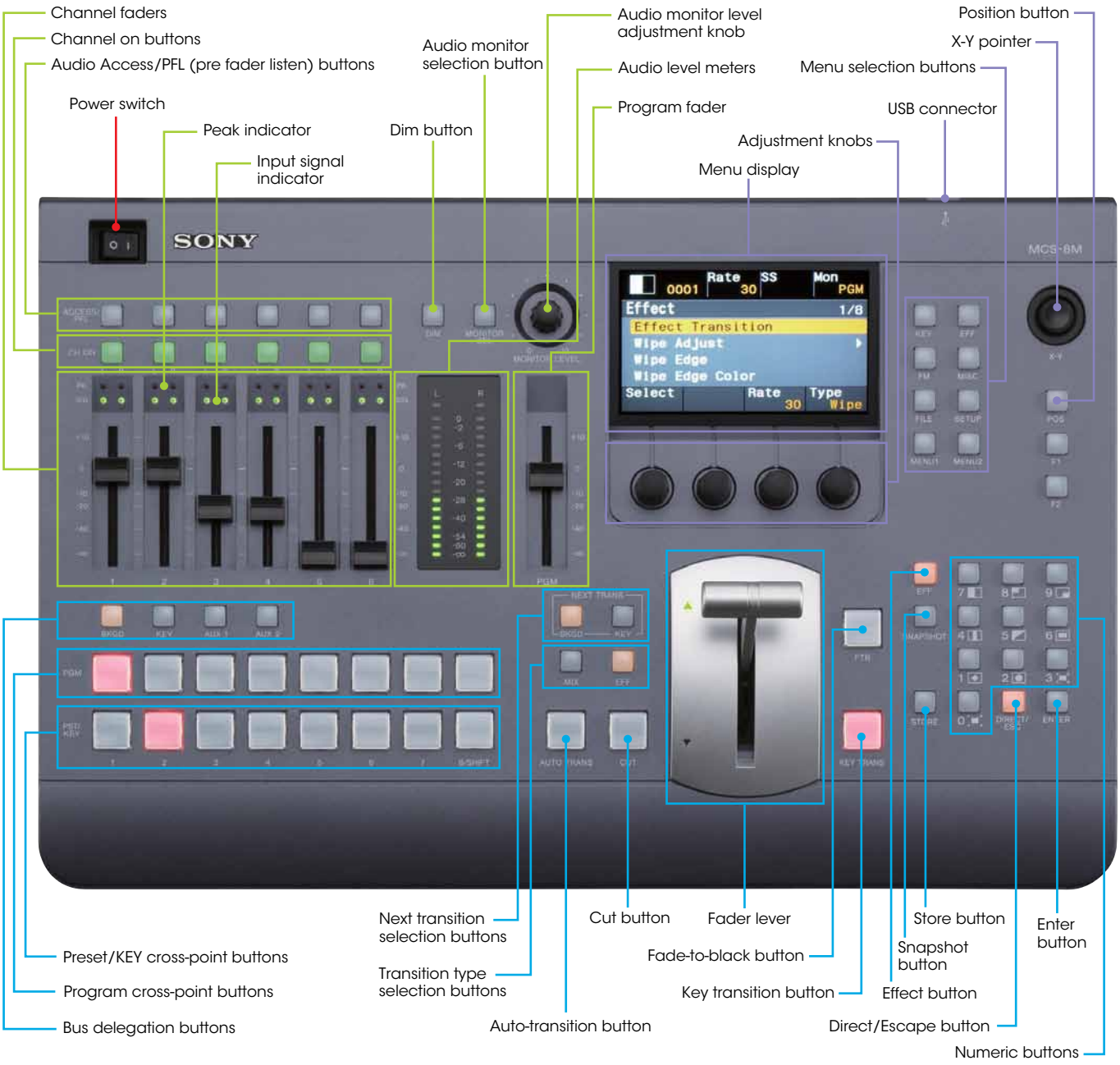

Unique and Creative AUX MIX Function

Not only can you make a mix transition within AUX1 or AUX2, but you can prepare the program video on M/E by setting parameters such as effects and keys before it is switched from AUX 1 and AUX2. Then make a mix transition from a source assigned to AUX1 PVW(AUX2 PVW) to the prepared program video. The performance is similar to that of integrating an additional M/E row, and the mix capability is available for both AUX1 and AUX2 outputs. With this flexibility, the MCS-8M allows you to choose AUX MIX function or 3 different program outs and apply to a wide range of system configurations and applications.

Application Examples:
- Presentation: Program out for speaker, AUX1 and AUX2 for PC sources and Video source.
- Live News: Switching Studio and Video feed from Field by AUX MIX.



Control Panel View



Built-in Six-channel Audio Mixer Function with Audio Delay Adjustment

For applications such as making music videos or multi-lingual programming, the MCS-8M supports six-channel audio assignable from any input. An excellent audio delay adjustment function is also provided for lip synchronization.

- **Audio Delay Adjustment Up To 7.5 Frames**
  Adjustment is separately applied to PGM, AUX1 and AUX2.
- **Audio Monitoring Function**
  – Selected audio channel
  – PGM, AUX1, AUX2, or MIX

Audio Input:

SDI (Embedded x 4), HDMI (Embedded x 3), MIC/LINE (XLR/TRS combo: Balance x 2), MIC/LINE (TRS phone: Balance x 4), LINE (Phono jack: Unbalance x 2)

Audio Output:

SDI (Embedded x 3), PGM (XLR: Balance x 2), AUX (TRS phone: Balance x 2), MON (TRS phone: Balance x 2), MIX (Phono jack: Unbalance x 2), Headphones (x 1)

Multi-viewing Function Reduces Total System Cost

The Multi-viewing function splits the screen into ten or four windows to show multiple sources on a single monitor. You can check sources on the same monitor at the same time.
The sub-screen with a red frame contains the video that is currently on air.
The multi-viewing video signal is output from SDI and DVI-D simultaneously.

Multi-viewing (10-split) Out

Multi-viewing (4-split) Out

Benefits for Live Production Operations

Frame Memory System

The MCS-8M provides one-channel frame memory.
Up to 12 still images can be stored.

Import Still Image Function Via a USB port

TIFF/TGA images with alpha channels and BMP images can be imported from USB memory.

Input Freeze Function for Each Source

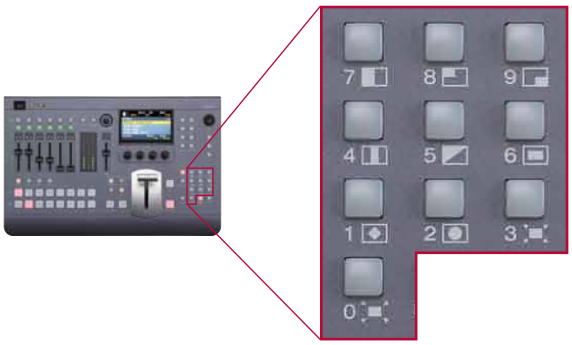
A freeze video can be assigned to any cross point to be used as a video input signal. It can be exported from a USB port.

Snapshot

The snapshot function allows you to save effect and key configurations for a specific scene. By saving frequently- used configurations as snapshots, you can quickly recall settings when necessary. Up to 20 snapshots can be saved.

Preset Effect Buttons

The following effect patterns are pre-assigned to the numeric buttons (0 to 9). These buttons make it easy for you to apply effects to the video.



Preset Effect Buttons

Background Transition:

Cut, Mix, Wipe, DME Wipe

1 Keyer:

Luminance key, Linear key, Chroma key

Keyer Transition:

Cut, Mix, Wipe, DME Wipe

■ Effect Pattern List

Wipe

1		2		3	
4		5		6	
7		8		9	
10		11		12	
13		14		15	
16		17		18	
19		20		21	
22		23		24	

Mix

900	MIX

NAM (non-additive mix)

901	NAM

Slide

1001		1002		1003	
1004		1005		1006	
1007		1008			

Squeeze

1021		1022		1023	
1024		1025		1026	
1027		1028		1029	
1030		1031			

Door (3D)

1041		1042		1043	
1044					

Frame In/Out

1201		1202		1203	
1204		1205		1206	
1207		1208		1221	FADE
1222	FADE	1223	FADE	1224	FADE

Flip Tumble[1)]

1101		1102	

PinP (picture-in-picture)[1)]

1251	

Mosaic[1)]

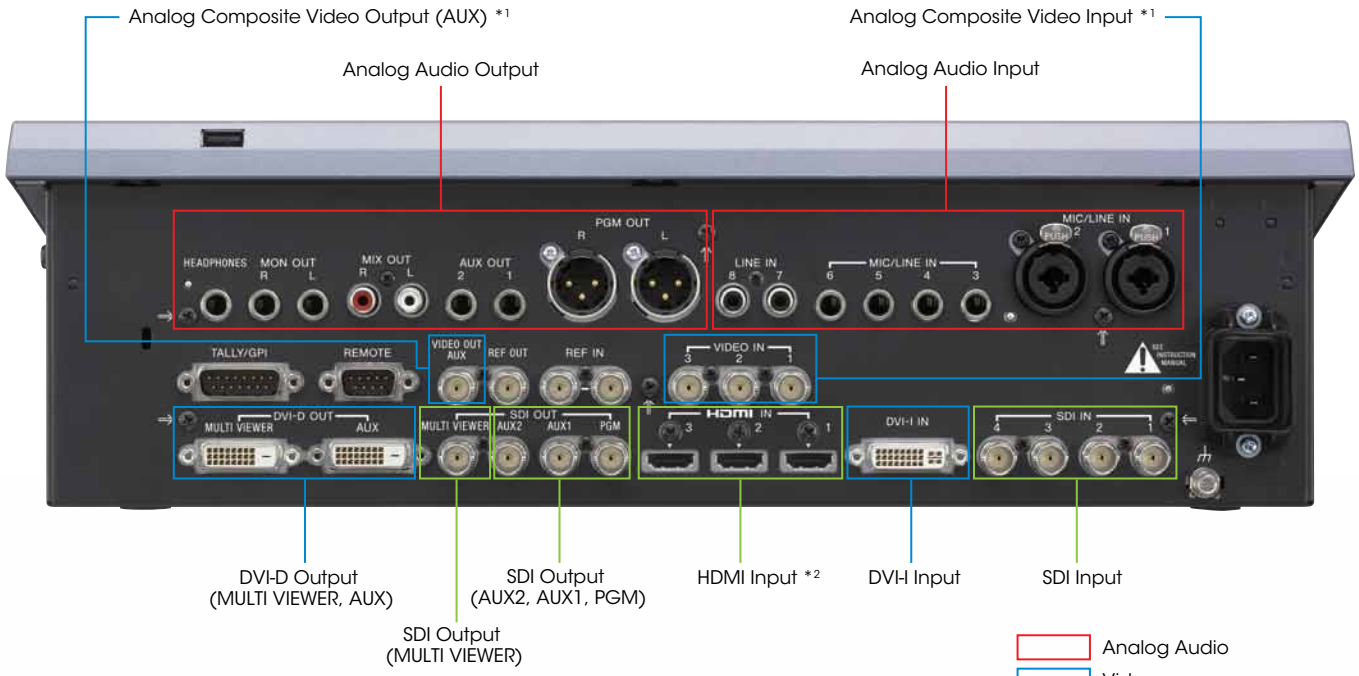
1701	MOSAIC

Defocus[1)]

1702	DEFOCUS

1) Can only be used for BKGD transitions.

Rear Panel View



*1 Available in SD mode.

*2 Available in HD mode.

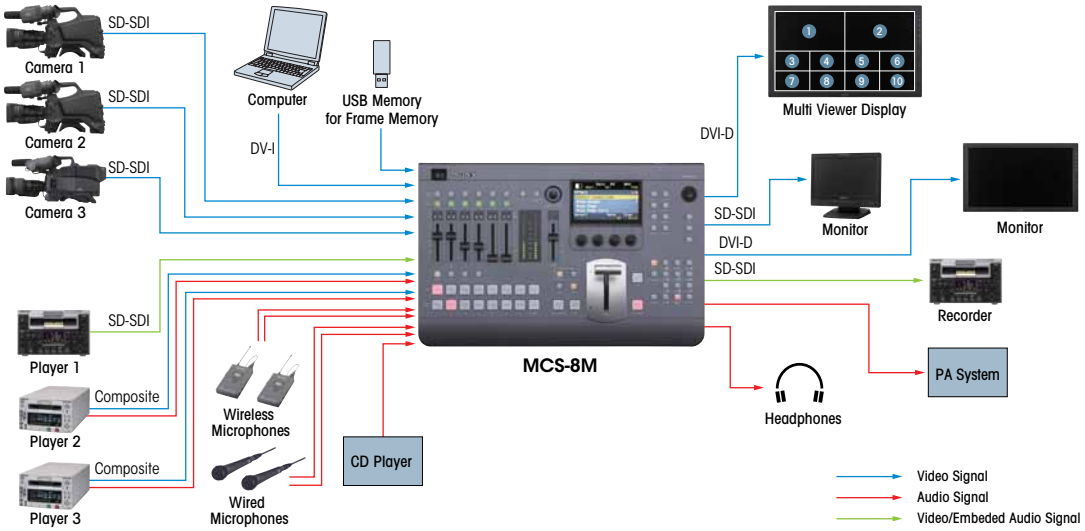
MCS-8M switcher shown with LMD-1530W monitor and HXC-D70K camera.

Simulated image.

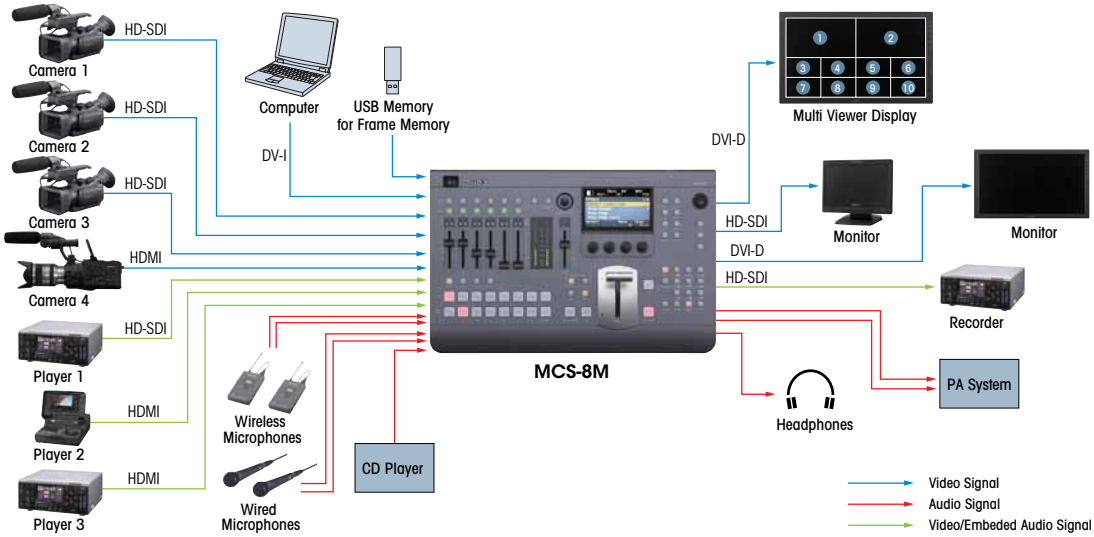
System Configuration Example:

The MCS-8M is effectively used in combination with other leading Sony products including HD/SD system cameras (the HXC Series), SD system cameras (the DXC Series), and camcorders (the XDCAM EX™ Series and NXCAM® Series). Setting up a system with these various elements, you can easily achieve solutions for small-scale production right up to full-scale live production.

SD Studio System Example

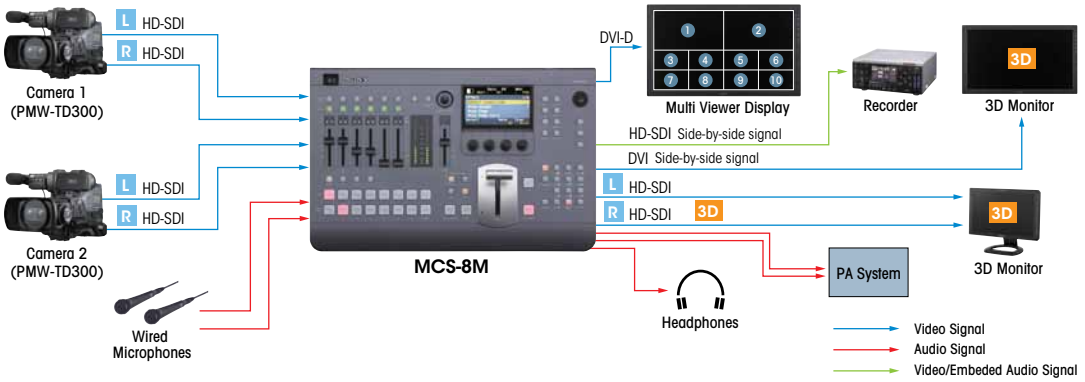


HD Studio System Example



3D Mode (L/R-linked Cut or Mix, Side-By-Side Output)

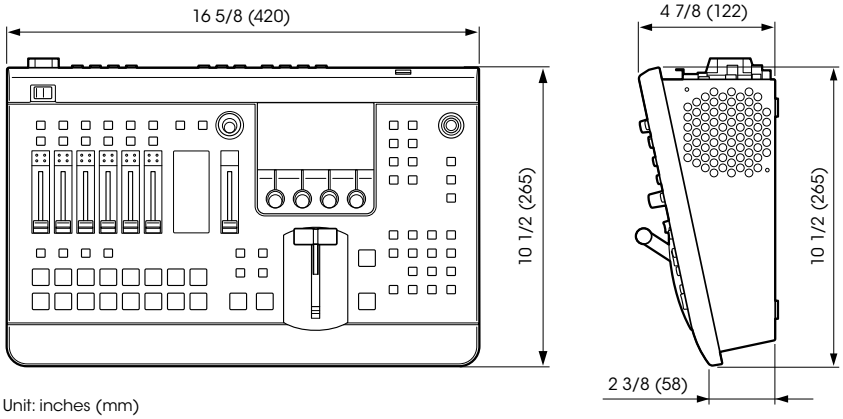
In 3D mode, CUT or MIX functions are available as a background transition of right-eye and left-eye signals. 3D images can be output as side-by-side signals.



Specifications

MCS-8M		
General		
Power requirement		100 V AC to 240 V AC ±10%, 50/60 Hz
Power consumption		100 V : 0.7 A, 240 V : 0.3 A
Dimensions (W x H x D)		16 5/8 x 4 7/8 x 10 1/2 inches (420 x 122 x 265 mm)
Weight		13 lb 4 oz (5 kg)
Operating temperature		41 °F to 104 °F (5 °C to 40 °C)
Supported format		1080i/50, 1080i/59.94, 720p/50, 720p/59.94, 480i/59.94, 576i/50
Input/output		
Video input	SDI	BNC (x4), SMPTE-292M, 299M, 259M-C, 272M-A
	HDMI	HDMI (Type A) (x3)
	DVI-I	DVI (x1) (DVI-IN)
	Composite	BNC (x3)
	Reference	BNC (x2), loop through 75 Ω, analog black burst or tri-level sync signal
Video output	SDI	BNC (x4), SMPTE-292M, 299M, 259M-C, 272M-A
	DVI-D	DVI (x2) (AUX, MULTI VIEWER)
	Composite	BNC (x1)
	Reference	BNC (x1), 75 Ω, black burst signal
Audio input	Analog input 1 and 2	XLR/TRS combo (x2) (MIC/LINE 1 and 2), male
	Analog input 3 to 6	TRS phone (x4) (MIC/LINE 3 to 6)
	Analog input 7 and 8	Phono jack (x2) (LINE 7 and 8)
Audio output	Analog output 1 and 2	XLR (x2) (PGM OUT L and R), female
	Analog output	TRS phone (x4) (AUX 1/AUX 2/MON L/MON R)
	Analog output	Phono jack (x2) (MIX L/MIX R)
	Headphones output	Standard stereo phone (x1)
Other Interfaces		
USB		Type A (x1)
Remote		D-sub 9-pin (x1), male, RS-232C
TALLY/GPI		D-sub 15-pin (x1), male
Supplied accessories		
75-ohm termination resistor (1), Operating instructions for basic operation (Japanese and English, 1 each), CD-ROM operating instructions for basic/advanced operation (Japanese, English, French, German, Italian, Spanish, Simplified Chinese, Korean, and Portuguese) (1)		

Dimensions



Unit: inches (mm)

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