



8CH MULTI-FORMAT VIDEO SWITCHER MS-8

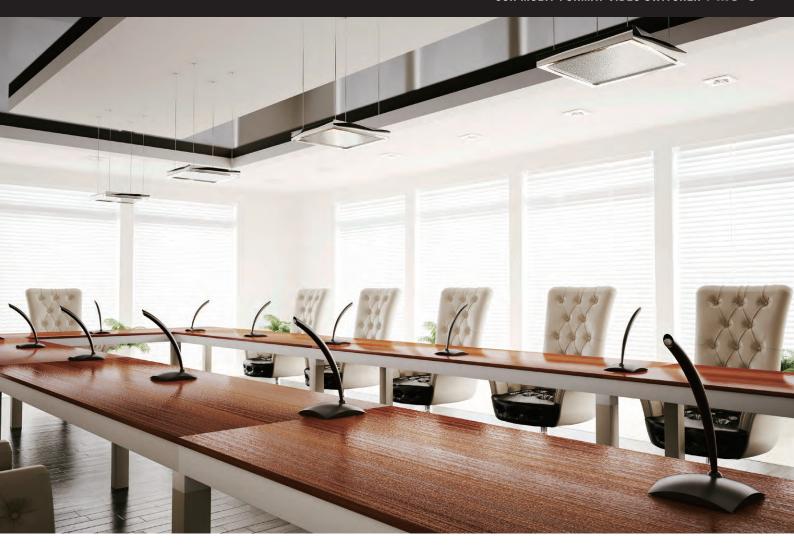
For Video Conference & Presentation



The introduction of an unparalleled switchable converter.







Pick a video you want to watch - anytime.

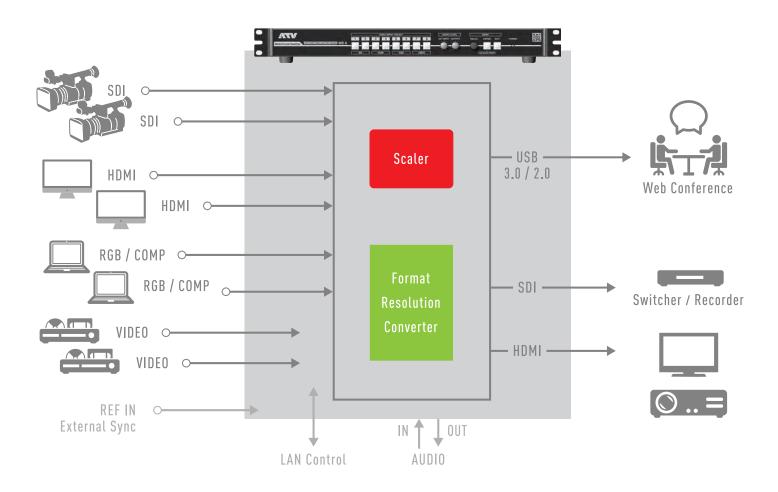
For a teleconference or a presentation, you may need to handle video outputs from PCs of different resolutions as well as audio-visual contents from cameras.

On such occasions, poor practices such as taking an inordinately long time to connect/disconnect cables or failure to show an intended video promptly could give a negative impression to, for example, business partners or potential customers. MS-8, a simple switcher equipped with the same built-in scaler as an A-PRO-4, can eliminate such potential situations.

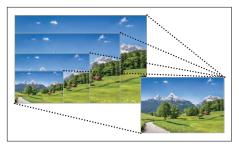
All you have to do is to connect all the video sources to the MS-8 unit and then you can switch between them just by pressing respective buttons as needed. Even if connected video sources are of heterogeneous formats, the built-in scaler optimally manages them to present all the visual contents. The unit is equipped with two-channel stereo inputs for external audio input. The USB terminals can output streams for live video streaming.



MS-8 SYSTEM CONCEPT

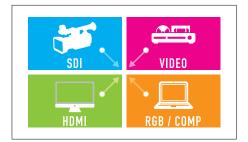


MS-8 FEATURES & PERFORMANCE



Multi-format support

The built-in scaler converts all video input signals into an optimal format.



Diverse input terminals

Two inputs are provided for SDI, HDMI, analog RGB, analog and composite connectivity, respectively.



USB 3.0 output

USB 3.0 terminals are ready for high-definition video and audio stream output suited for live streaming.



10-bit/4:4:4 processing for up to 2K/60P

Resolutions up to 2048x1080/60P are supported for video input.Processing at 10-bit/4:4:4 realizes clear video output with no color bleeding.



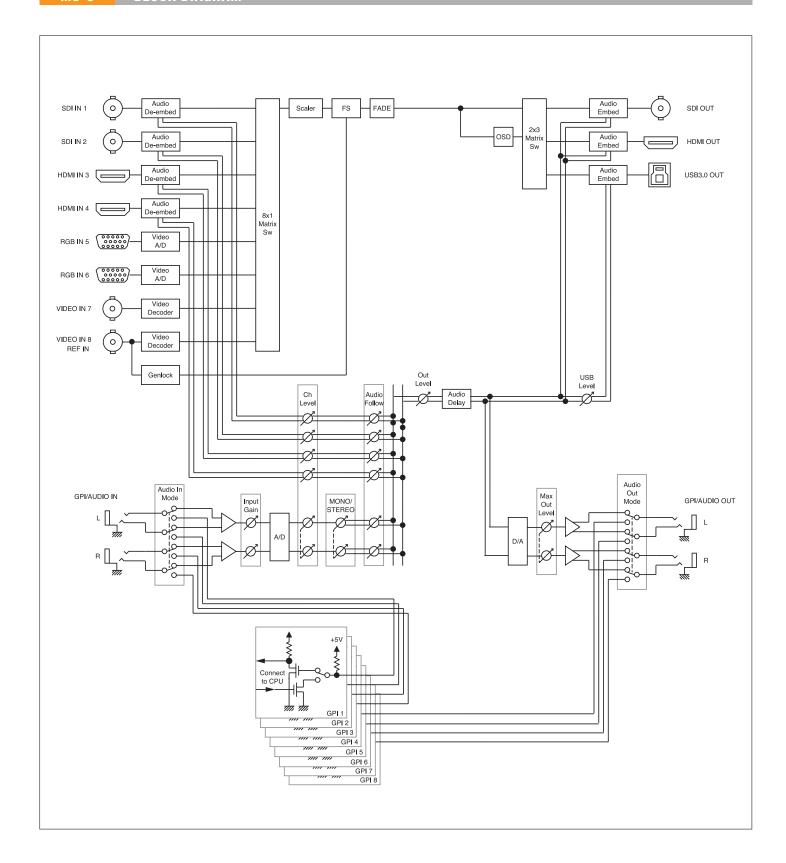
External synchronization support

The unit can be integrated into an existing system as a subswitcher via a reference input.



Supporting a wide range of external controls

You can modify parameters through a web browser interface on your PC/Mac. GPI IN/OUT is also supported.



^{*} In the interest of product improvement, the specifications and/or appearance of this unit are subject to change without prior notice.



MS-8

SPECIFICATION

Connector	BNC type x 2
Signal Standards	SMPTE ST2081 SMPTE ST424 (SMPTE ST425-AB) SMPTE ST292 SMPTE ST259-C
Video Format	2048x1080/60p/59.94p/50p/48p/47.95p/30p/29.97p/25p/24p/23.98p/
	30PsF/29.97PsF/25PsF/24PsF/23.98PsF (Conforms to SMPTE ST2048)
	1920x1080/60p/59.94p/50p/30p/29.97p/25p/24p/23.98p/
	60V59.94V50V30PsF/29.97PsF/25PsF/24PsF/23.98PsF (Conforms to SMPTE ST274)
	1280x720/60p/59.94p/50p/30p/29.97p/25p/24p/23.98p (Conforms to SMPTE ST296)
	720x480/59.94i, 720x576/50i (Conforms to BT.656-3/5)
Color Format	10 bits YCC4:2:2, 12 bits YCC/RGB4:4:4, 10 bits RGBA/YCCA4:4:4, 12 bits YCCA4:2:2:4
Audio Format	Linear PCM, 24/20 bits, 48 kHz, 16 ch (Conforms to SMPTE ST299, ST272-C)
Input Connectors	: HDMI IN
Connector	Type A (19 pins) x 2
Signal Standards	HDM1.4
Video Format	2048x1080/60p/59.94p/50p/48p/47.95p/30p/29.97p/25p/24p/23.98p
video i dimai	(SMPTE ST2048 Timings)
	1920x1080/60p/59.94p/50p/60/59.94i/50i/30p/29.97p/25p/24p/23.98p, 1280x720/60p/59.94p/50p,720x480/59.94p, 720x576/50p, 720(1440)x480/59.94i, 720(1440)x576/50
	128/0X/20/00/p/59:94p;70/p,720X450/59:94p;720X576/50/p,720(1440)X450/59:94l;720(1440)X576/50 (Conforms to CEA-861-F)
	640x480/60/72/75/85, 800x600/56/60/72/75/85, 1024x768/60/70/75/85, 1152x864/75, 1280x768/60/75/85, 1280x800/60/75/85, 1280x960/60/85,
	1152X804/75, 1280X/68/00/75/85, 1280X800/60/75/85, 1280X900/60/75/85, 1600X1200/60, 1280X1024/60/75/85, 1360X768/60, 1400X1050/60/75, 1440X900/60/75/85, 1600X1200/60,
Color Format	1680x1050/60,1920x1200/60 Reduced Blanking(Conforms to VESA DMT)
Color Format Audio Format	10/12 bits YOC4:2:2, 8/10/12 bits YCC/RGB4:4:4 Linear PCM, 1624 bits, 3248 kHz, 28 ch
Input Connectors	: RGB COMPONENT IN
Connector	HD-15 type x 2
Signal Standards	VESA VSIS, SMPTE ST274/ST296, ITU-R BT.1358-1, EBU N10
	1920x1080/60p/59.94p/50p/60i/59.94i/50i/30PsF/29.97PsF/25PsF/24PsF/
Video Format	
Video Format	
Video Format	23.98PsF (Conforms to SMPTE ST274),
Video Format	23.98PsF (Conforms to SMPTE ST274), 1280x720/60p/59.94p/50p (Conforms to SMPTE ST296),
Video Format	23.98PsF (Conforms to SMPTE ST274), 1280x720/60p/59.94p/50p (Conforms to SMPTE ST296), 720x480/59.94p, 720x576/50p (Conforms to ITU-R BT.1358-1),
Video Format	23.98PsF (Conforms to SMPTE ST274), 1280x720/60p/59.94p/50p (Conforms to SMPTE ST296), 720x480/59.94p, 720x576/50p (Conforms to ITU-R BT.1358-1), 720x480/59.94i, 720x576/50i (Conforms to EBU N10),
Video Format	23.98PsF (Conforms to SMPTE ST274), 1280x720/60p/59.94p/50p (Conforms to SMPTE ST296), 720x480/59.94p, 720x576/50p (Conforms to ITU-R BT.1358-1), 720x480/59.94i, 720x576/50i (Conforms to EBU N10), 640x480/60/72/75/85, 800x600/56/60/72/75/85, 1024x768/60/70/75/85,
Video Format	23.98PsF (Conforms to SMPTE ST274), 1280x720/60p/59.94p/50p (Conforms to SMPTE ST296), 720x480/59.94p, 720x576/50p (Conforms to ITU-R BT.1358-1), 720x480/59.94i, 720x576/50i (Conforms to EBU N10), 640x480/60/72/75/85, 800x800/56/60/72/75/85, 1024x768/60/70/75/85, 1152x864/75, 1280x768/60/75/85, 1280x800/60/75/85, 1280x960/60/85,
Video Format	23.98PsF (Conforms to SMPTE ST274), 1280x720/60p/59.94p/50p (Conforms to SMPTE ST296), 720x480/59.94p, 720x576/50p (Conforms to ITU-R BT.1358-1), 720x480/59.94i, 720x576/50i (Conforms to EBU N10), 640x480/60/72/75/85, 800x600/56/60/72/75/85, 1024x768/60/70/75/85, 1152x864/75, 1280x768/60/75/85, 1280x800/60/75/85, 1280x960/60/85, 1280x1024/60/75/85,1380x768/60, 1400x1050/60/75, 1440x900/60/75/85, 1600x1200/60,
Video Format	23.98PsF (Conforms to SMPTE ST274), 1280x720/60p/59.94p/50p (Conforms to SMPTE ST296), 720x480/59.94p, 720x576/50p (Conforms to ITU-R BT.1358-1), 720x480/59.94i, 720x576/50i (Conforms to EBU N10), 640x480/60/72/75/85, 800x800/56/60/72/75/85, 1024x768/60/70/75/85, 1152x864/75, 1280x768/60/75/85, 1280x800/60/75/85, 1280x960/60/85,
Video Format Nideo Format	23.98PsF (Conforms to SMPTE ST274), 1280x720/60p/59.94p/50p (Conforms to SMPTE ST296), 720x480/59.94p, 720x676/50p (Conforms to ITU-R BT.1358-1), 720x480/59.94i, 720x676/50i (Conforms to EBU N10), 640x480/60/72/75/85, 800x600/56/60/72/75/85, 1024x768/60/70/75/85, 1152x864/75, 1280x768/60/75/85, 1280x800/60/75/85, 1280x960/60/85, 1280x1024/60/75/85,1360x768/60, 1400x1050/60/75, 1440x900/60/75/85, 1600x1200/60, 1680x1050/60,1920x1200/60 Reduced Blanking (Conforms to VESA DMT)
Input ConnectorsConnector	23.98PsF (Conforms to SMPTE ST274), 1280x720/60p/59.94p/50p (Conforms to SMPTE ST296), 720x480/59.94p, 720x676/50p (Conforms to ITU-R BT.1358-1), 720x480/59.94i, 720x676/50i (Conforms to EBU N10), 640x480/60/72/75/85, 800x600/56/60/72/75/85, 1024x768/60/70/75/85, 1152x864/75, 1280x768/60/75/85, 1280x800/60/75/85, 1280x960/60/85, 1280x1024/60/75/85,1360x768/60, 1400x1050/60/75, 1440x900/60/75/85, 1600x1200/60, 1680x1050/60,1920x1200/60 Reduced Blanking (Conforms to VESA DMT)
Input ConnectorsConnectorSignal Standards	23.98PsF (Conforms to SMPTE ST274), 1280x720/60p/59.94p/50p (Conforms to SMPTE ST296), 720x480/59.94p, 720x576/50p (Conforms to ITU-R BT.1358-1), 720x480/59.94i, 720x576/50i (Conforms to EBU N10), 640x480/60/72/75/85, 800x600/56/60/72/75/85, 1024x768/60/70/75/85, 1152x864/75, 1280x768/60/75/85, 1280x800/60/75/85, 1280x960/60/85, 1280x1024/60/75/85,1360x768/60, 1400x1050/60/75, 1440x900/60/75/85, 1600x1200/60, 1680x1050/60,1920x1200/60 Reduced Blanking (Conforms to VESA DMT)
Input ConnectorsConnector	23.98PsF (Conforms to SMPTE ST274), 1280x720/60p/59.94p/50p (Conforms to SMPTE ST296), 720x480/59.94p, 720x576/50p (Conforms to ITU-R BT.1358-1), 720x480/59.94l, 720x576/50l (Conforms to EBU N10), 640x480/60/72/75/85, 800x600/56/60/72/75/85, 1024x768/60/70/75/85, 1152x864/75, 1280x768/60/75/85, 1280x800/60/75/85, 1280x960/60/85, 1280x1024/60/75/85,1360x768/60, 1400x1050/60/75, 1440x900/60/75/85, 1600x1200/60, 1680x1050/60,1920x1200/60 Reduced Blanking (Conforms to VESA DMT) SREF IN BNC type x 1
Input ConnectorsConnectorSignal Standards	23.98PsF (Conforms to SMPTE ST274), 1280x720/60p/59.94p/50p (Conforms to SMPTE ST296), 720x480/59.94p, 720x576/50p (Conforms to ITU-R BT.1358-1), 720x480/59.94i, 720x576/50i (Conforms to EBU N10), 640x480/60/72/75/85, 800x600/56/60/72/75/85, 1024x768/60/70/75/85, 1152x864/75, 1280x768/60/75/85, 1280x800/60/75/85, 1280x960/60/85, 1280x1024/60/75/85,1360x768/60, 1400x1050/60/75, 1440x900/60/75/85, 1600x1200/60, 1680x1050/60,1920x1200/60 Reduced Blanking (Conforms to VESA DMT) : REF IN BNC type x 1 B.B. (SMPTE ST318), Bi-Level (ITU-R BT.1358-1), HD Tri-Level (SMPTE ST274, ST296)
Input ConnectorsConnectorSignal Standards	23.98PsF (Conforms to SMPTE ST274), 1280x720/60p/59.94p/50p (Conforms to SMPTE ST296), 720x480/59.94p, 720x576/50p (Conforms to ITU-R BT.1358-1), 720x480/59.94i, 720x576/50i (Conforms to IEU N10), 640x480/60/72/75/85, 800x600/56/60/72/75/85, 1024x768/60/70/75/85, 1152x864/75, 1280x768/60/75/85, 1280x800/60/75/85, 1280x960/60/85, 1280x1024/60/75/85,1360x768/60, 1400x1050/60/75, 1440x900/60/75/85, 1600x1200/60, 1680x1050/60,1920x1200/60 Reduced Blanking (Conforms to VESA DMT) : REF IN BNC type x 1 B.B. (SMPTE ST318), Bi-Level (ITU-R BT.1358-1), HD Tri-Level (SMPTE ST274, ST296) 1920x1080/59.94p/50p/59.94l/50i (Conforms to SMPTE ST274)
Input ConnectorsConnectorSignal Standards	23.98PsF (Conforms to SMPTE ST274), 1280x720/60p/59.94p/50p (Conforms to SMPTE ST296), 720x480/59.94p, 720x576/50p (Conforms to ITU-R BT.1358-1), 720x480/59.94i, 720x576/50i (Conforms to IEU N10), 640x480/60/72/75/85, 800x600/56/60/72/75/85, 1024x768/60/70/75/85, 1152x864/75, 1280x768/60/75/85, 1280x800/60/75/85, 1280x960/60/85, 1280x1024/60/75/85,1360x768/60, 1400x1050/60/75, 1440x900/60/75/85, 1600x1200/60, 1680x1050/60,1920x1200/60 Reduced Blanking (Conforms to VESA DMT) : REF IN BNC type x 1 B.B. (SMPTE ST318), Bi-Level (ITU-R BT.1358-1), HD Tri-Level (SMPTE ST274, ST296) 1920x1080/59.94p/50p/59.94l/50i (Conforms to SMPTE ST274) 1280x720/59.94p/50p (Conforms to SMPTE ST296)
Input ConnectorsConnectorSignal Standards	23.98PsF (Conforms to SMPTE ST274), 1280x720/60p/59.94p/50p (Conforms to SMPTE ST296), 720x480/59.94p, 720x576/50p (Conforms to ITU-R BT.1358-1), 720x480/59.94i, 720x576/50i (Conforms to EBU N10), 640x480/60/72/75/85, 800x600/56/60/72/75/85, 1024x768/60/70/75/85, 1152x864/75, 1280x768/60/75/85, 1280x800/60/75/85, 1280x960/60/85, 1280x1024/60/75/85,1360x768/60, 1400x1050/60/75, 1440x900/60/75/85, 1600x1200/60, 1680x1050/60,1920x1200/60 Reduced Blanking (Conforms to VESA DMT) : REF IN BNC type x 1 B.B. (SMPTE ST318), Bi-Level (ITU-R BT.1358-1), HD Tri-Level (SMPTE ST274, ST296) 1920x1080/59.94p/50p/59.94t/50i (Conforms to SMPTE ST274) 1280x720/59.94p/50p (Conforms to SMPTE ST296) 720x480/59.94p, 720x576/50p (Conforms to SMPTE ST318)
 Input Connectors Connector Signal Standards Video Format 	23.98PsF (Conforms to SMPTE ST274), 1280x720/60p/59.94p/50p (Conforms to SMPTE ST296), 720x480/59.94p, 720x576/50p (Conforms to ITU-R BT.1358-1), 720x480/59.94i, 720x576/50i (Conforms to EBU N10), 640x480/60/72/75/85, 800x600/56/60/72/75/85, 1024x768/60/70/75/85, 1152x864/75, 1280x768/60/75/85, 1280x800/60/75/85, 1280x960/60/85, 1280x1024/60/75/85,1360x768/60, 1400x1050/60/75, 1440x900/60/75/85, 1600x1200/60, 1680x1050/60,1920x1200/60 Reduced Blanking (Conforms to VESA DMT) : REF IN BNC type x 1 B.B. (SMPTE ST318), Bi-Level (ITU-R BT.1358-1), HD Tri-Level (SMPTE ST274, ST296) 1920x1080/59.94p/50p/59.94t/50i (Conforms to SMPTE ST274) 1280x720/59.94p/50p (Conforms to SMPTE ST296) 720x480/59.94p, 720x576/50p (Conforms to SMPTE ST318)
Input Connectors Connector Signal Standards Video Format Input Connectors	23.98PsF (Conforms to SMPTE ST274), 1280x720/60p/59.94p/50p (Conforms to SMPTE ST296), 720x480/59.94p, 720x576/50p (Conforms to ITU-R BT.1358-1), 720x480/59.94i, 720x576/50i (Conforms to EBU N10), 640x480/60/72/75/85, 800x600/56/60/72/75/85, 1024x768/60/70/75/85, 1152x864/75, 1280x768/60/75/85, 1280x800/60/75/85, 1280x960/60/85, 1280x1024/60/75/85,1360x768/60, 1400x1050/60/75, 1440x900/60/75/85, 1600x1200/60, 1680x1050/60,1920x1200/60 Reduced Blanking (Conforms to VESA DMT) EREF IN BNC type x 1 B.B. (SMPTE ST318), Bi-Level (ITU-R BT.1358-1), HD Tri-Level (SMPTE ST274, ST296) 1920x1080/59.94p/50p/59.94l/50i (Conforms to SMPTE ST274) 1280x720/59.94p/50p (Conforms to SMPTE ST296) 720x480/59.94p, 720x576/50p (Conforms to SMPTE ST318) : VIDEO IN
 ▶ Input Connectors ■ Connector ■ Signal Standards ■ Video Format ◆ Input Connectors ■ Connector 	23.98PsF (Conforms to SMPTE ST274), 1280x720/60p/59.94p/50p (Conforms to SMPTE ST296), 720x480/59.94p, 720x576/50p (Conforms to ITU-R BT.1358-1), 720x480/59.94i, 720x576/50i (Conforms to EBU N10), 640x480/60/72/75/85, 800x600/56/60/72/75/85, 1024x768/60/70/75/85, 1152x864/75, 1280x768/60/75/85, 1280x800/60/75/85, 1280x960/60/85, 1280x1024/60/75/85,1360x768/60, 1400x1050/60/75, 1440x900/60/75/85, 1600x1200/60, 1680x1050/60,1920x1200/60 Reduced Blanking (Conforms to VESA DMT) : REF IN BNC type x 1 B.B. (SMPTE ST318), Bi-Level (ITU-R BT.1358-1), HD Tri-Level (SMPTE ST274, ST296) 1920x1080/59.94p/50p/59.94l/50i (Conforms to SMPTE ST274) 1280x720/59.94p/50p (Conforms to SMPTE ST296) 720x480/59.94p, 720x576/50p (Conforms to SMPTE ST318) : VIDEO IN BNC type x 2
 ▶ Input Connectors ■ Connector ■ Signal Standards ■ Video Format ◆ Input Connectors ■ Connector ■ Signal Standards 	23.98PsF (Conforms to SMPTE ST274), 1280x720/60p/59.94p/50p (Conforms to SMPTE ST296), 720x480/59.94p, 720x576/50p (Conforms to ITU-R BT.1358-1), 720x480/59.94i, 720x576/50i (Conforms to IEU N10), 640x480/60/72/75/85, 800x600/56/60/72/75/85, 1024x768/60/70/75/85, 1152x864/75, 1280x768/60/75/85, 1280x800/60/75/85, 1280x960/60/85, 1280x1024/60/75/85,1360x768/60, 1400x1050/60/75, 1440x900/60/75/85, 1600x1200/60, 1680x1050/60,1920x1200/60 Reduced Blanking (Conforms to VESA DMT) : REF IN BNC type x 1 B.B. (SMPTE ST318), Bi-Level (ITU-R BT.1358-1), HD Tri-Level (SMPTE ST274, ST296) 1920x1080/59.94p/50p/59.94l/50i (Conforms to SMPTE ST274) 1280x720/59.94p/50p (Conforms to SMPTE ST296) 720x480/59.94p, 720x576/50p (Conforms to ITU-R BT.1358-1) 720x480/59.94i, 720x576/50i (Conforms to SMPTE ST318) : VIDEO IN BNC type x 2 ITU-R BT.470-6 NTSC, NTSC-J, PAL
Dinput Connectors Connector Signal Standards Video Format Dinput Connectors Connector Signal Standards Video Format	23.98PsF (Conforms to SMPTE ST274), 1280x720/60p/59.94p/50p (Conforms to SMPTE ST296), 720x480/59.94p, 720x576/50p (Conforms to ITU-R BT.1358-1), 720x480/59.94i, 720x576/50i (Conforms to IEU N10), 640x480/60/72/75/85, 800x600/56/60/72/75/85, 1024x768/60/70/75/85, 1152x864/75, 1280x768/60/75/85, 1280x800/60/75/85, 1280x960/60/85, 1280x1024/60/75/85,1360x768/60, 1400x1050/60/75, 1440x900/60/75/85, 1600x1200/60, 1680x1050/60,1920x1200/60 Reduced Blanking (Conforms to VESA DMT) : REF IN BNC type x 1 B.B. (SMPTE ST318), Bi-Level (ITU-R BT.1358-1), HD Tri-Level (SMPTE ST274, ST296) 1920x1080/59.94p/50p/59.94l/50i (Conforms to SMPTE ST274) 1280x720/59.94p/50p (Conforms to SMPTE ST296) 720x480/59.94p, 720x576/50p (Conforms to ITU-R BT.1358-1) 720x480/59.94i, 720x576/50i (Conforms to SMPTE ST318) : VIDEO IN BNC type x 2 ITU-R BT.470-6 NTSC, NTSC-J, PAL
Input Connectors Connector Signal Standards Video Format Input Connectors Connector Signal Standards Video Format Input Connectors Input Connectors Input Connectors Input Connectors	23.98PsF (Conforms to SMPTE ST274), 1280x720/60p/59.94p/50p (Conforms to SMPTE ST296), 720x480/59.94p, 720x576/50p (Conforms to ITU-R BT.1358-1), 720x480/59.94i, 720x576/50i (Conforms to EBU N10), 640x480/60/72/75/85, 800x600/56/60/72/75/85, 1024x768/60/70/75/85, 1152x864/75, 1280x768/60/75/85, 1280x800/60/75/85, 1280x960/60/85, 1280x1024/60/75/85,1360x768/60, 1400x1050/60/75, 1440x900/60/75/85, 1600x1200/60, 1680x1050/60,1920x1200/60 Reduced Blanking (Conforms to VESA DMT) : REF IN BNC type x 1 B.B. (SMPTE ST318), Bi-Level (ITU-R BT.1358-1), HD Tri-Level (SMPTE ST274, ST296) 1920x1080/59.94p/50p/59.94t/50i (Conforms to SMPTE ST274) 1280x720/59.94p/50p (Conforms to SMPTE ST296) 720x480/59.94p, 720x576/50p (Conforms to ITU-R BT.1358-1) 720x480/59.94i, 720x576/50i (Conforms to SMPTE ST318) : VIDEO IN BNC type x 2 ITU-R BT.470-6 NTSC, NTSC-J, PAL
Input Connectors Connector Signal Standards Video Format Input Connectors Connector Signal Standards Video Format Input Connectors Connector Connector	23.98PSF (Conforms to SMPTE ST274), 1280x720/60p/59.94p/50p (Conforms to SMPTE ST296), 720x480/59.94p, 720x576/50p (Conforms to ITU-R BT.1358-1), 720x480/59.94i, 720x576/50i (Conforms to EBU N10), 640x480/60/72/75/85, 800x600/56/60/72/75/85, 1024x768/60/70/75/85, 1152x864/75, 1280x768/60/75/85, 1280x800/60/75/85, 1280x960/60/85, 1280x1024/60/75/85,1360x768/60, 1400x1050/60/75, 1440x900/60/75/85, 1600x1200/60, 1680x1050/60,1920x1200/60 Reduced Blanking (Conforms to VESA DMT) EREF IN BNC type x 1 B.B. (SMPTE ST318), Bi-Level (ITU-R BT.1358-1), HD Tri-Level (SMPTE ST274, ST296) 1920x1080/59.94p/50p/59.94l/50i (Conforms to SMPTE ST274) 1280x720/59.94p/50p (Conforms to SMPTE ST296) 720x480/59.94p, 720x576/50p (Conforms to ITU-R BT.1358-1) 720x480/59.94i, 720x576/50i (Conforms to SMPTE ST318) EVIDEO IN BNC type x 2 ITU-R BT.470-6 NTSC, NTSC-J, PAL

*	0dBi	J=0.	77	5V	ms

^{*} In the interest of product improvement, the specifications and/or appearance of this unit are subject to change without prior notice.

0	Output	Connectors	: SDI OUT
---	--------	------------	-----------

Connector	BNC type x 1
Signal Standards	SMPTE ST2081 SMPTE ST424 (SMPTE ST425-AB)
	SMPTE ST292 SMPTE ST259-C
Video Format	2048x1080/59.94p/50p/29.97p/25p/24p/23.98p
	(Conforms to SMPTE ST2048)
	1920x1080/59.94p/50p/29.97p/25p/24p/23.98p/59.94i/50i
	(Conforms to SMPTE ST274)
	1280x720/59.94p/50p (Conforms to SMPTE ST296)
	720х480/59.94i, 720х576/50i (Conforms to ПU-R ВТ.656-5))
Color Format	10bit YCC4:2:2, 12bit YCC/RGB4:4:4 (Valid bits are 10 bits)
Audio Format	Linear PCM, 24/20 bits, 48 kHz, 2 ch
	(Conforms to SMPTE ST299, ST272-C)

Output Connectors : HDMI OUT

Connector	Type A (19 pins) x 1
Signal Standards	HDMI1.4
Video Format	2048x1080/59.94p/50p/29.97p/25p/24p/23.98p
	(SMPTE ST2048 Timings)
	1280x720/59.94p/50p,720x480/59.94p,720x576/50p,
	720(1440)x480/59.94i, 720(1440)x576/50i (Conforms to CEA-861-F)
Color Format	10 bits YCC4:2:2, 8/10 bits YCC/RGB4:4:4
Audio Format	Linear PCM, 24 bits, 48 kHz, 2 ch

Output Connectors : USB3.0 OUT

Connector		USB Type B (Super Speed USB) x 1
Standards USB 3.0 Super Speed (SS) / USB 2.0 High Speed (HS)		USB 3.0 Super Speed (SS) / USB 2.0 High Speed (HS)
Video Format		USB Video Class 1.1, USB Audio Class 1.0
	(SS)	2048x1080/59.94p/50p/29.97p/25p/24p/23.98p,
		1920x1080/59.94p/50p/29.97p/25p/24p/23.98p/59.94i/50i,
		1280x720/59.94p/50p,720x480/59.94p, 720x576/50p,
	(HS)	720x480/59.94i, 720x576/50i
Color Format		720x480/59.94i, 720x576/50i
Audio Format		8 bits YCC4:2:2
		Linear PCM, 16 bits, 48 kHz, 2 ch

Output Connectors : AUDIO OUT

Į	Connector	1/4" TRS phone type (balanced) x 2
į	Output Level	-20+4 dBu
ļ	Max Output Level	+24 dBu
į	Min Load Impedance	20k ohms

Processing

Video Processing	10 bits YCC4:4:4
Audio Processing	24 bits 48 kHz

Other Connectors

USB2.0 Connector	Micro USB Type B (Hi-Speed USB) x 1	
Standards	USB 2.0 High Speed (HS)	
LAN Connector	RJ45 (10/100 Base-T)	
DC IN	Power Voltage: 1220 V, Power Consumption: 35 W	

Others

Dimensions	16-13/16 (W) x 9 (D) x 2-3/16 (H) inches
Weight	2.7 kg, 6 lbs (without AC adaptor & AC cord & Rack mount brackets & Screws)
Operation Temperature	+0+40 degrees Celsius, +41+104 degrees Fahrenheit
Accessories	AC adaptor, Startup Manual,
	Rack mount brackets x 2, Screws x 6,
	Electrical power cords x 5 (for Japan, North America, UK, EU and Australia)