

HD/SD Multi Viewer
 4K (QFHD) Monitoring Down Converter

MV-42HSA

Enables monitoring 4K footage on an HD or PC monitor.
 Supports quad-split screen of 3G-SDI input.



The MV-42HSA is perfect for use as a down-converter that supports 3G-SDI input. Its is also a 4-channel multi viewer that supports 3G-SDI (Level-A/B), HD-SDI, SD-SDI and analog composite inputs.

As a 4K (QFHD) Monitoring Down Converter

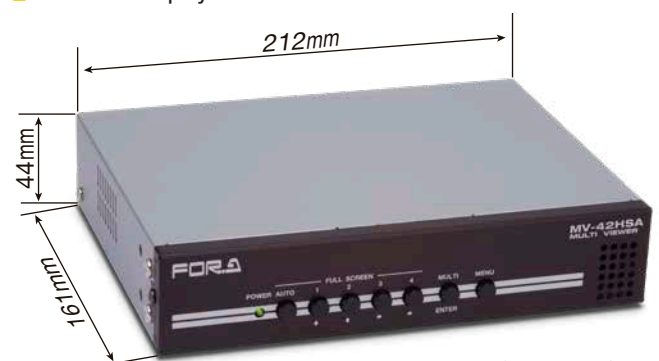
- Outputting QFHD (3G-SDI x 4) as HD-SDI and DVI-D (1920 x 1080i or 1280 x 720p) allows signal monitoring on an HD or PC monitor
- 4K (QFHD) mode: Able to undisplay each window frame and QFHD inputs can be displayed seamlessly
- One of four signal inputs can be displayed full-screen, allowing you to examine the footage on a dot-by-dot basis

Features

- Supports mixed 3G-SDI (Level A/B), HD-SDI and SD-SDI signal input (Mixed and asynchronous input supported)
- Supports mixed analog composite input (MV-42AI)
- Outputs high-definition HD-SDI and DVI-D (1920 x 1080 or 1280 x 720) images
- Video loss detection
- Full screen, 2-split (right, left), and quad screen output selectable
- Audio level metering for 3G/HD/SD-SDI embedded audio signals (Up to 8-channel display)
- Displays ancillary time code (ATC) embedded on 3G/HD/SD-SDI input signals
- Supports HD-SDI embedded audio output (16-channel)
- Max. 16-character title displays for each input (alphanumeric and symbols)

MV-42IFA Option

- RS-232C/LAN interface remote control and/or title settings
- RS-232C/LAN/GPI tally-input frame displays for individual channels
- Remote control and tally inputs via GPI
- Genlock for external sync signal and HD-SDI/DVI-D output
- Date/time display



Compact Size

MV-42HSA Datasheet

1. Specifications

Basic specifications

Temperature	0°C to 40°C
Humidity	30% to 90% (no condensation)
Power	12V DC (DC jack) * AC adaptor can be separately purchased. Use an AC adaptor that meets the following requirements. Output voltage: 12V DC, Output ampere: 2A, Inrush current: 30A, Connector: JEITA RC-5320A Standard Voltage Class4 * The MV-42HSA connector is HOSIDEN-produced HEC3800-01-010. Center positive voltage.
Consumption	22 VA (12 W) (at 100V), 26 VA (12 W) (at 200V) With MV-42IF/IFA option: 23 VA (12 W) (at 100V), 27 VA (12 W) (at 200V)* With MV-42AI option: 26 VA (14 W) (at 100V), 32 VA (15 W) (at 200V)* With MV-42IF/IFA and MV-42AI options: 27 VA (15 W) (at 100V), 33 VA (16 W) (at 200V)* * Used with the optional AC adaptor.
Dimensions	212 (W) x 44 (H) x 161 (D)mm EIA 1 RU Half Rack 480 (W) (Including single or dual rack mount brackets)
Weight	1.16 kg
Consumables (at room temp.)	Cooling fan: P1472 Replace every 3 years

Technical specifications

Video format	1080/60p, 1080/59.94p, 1080/50p (Level A/B) * 1080/60i, 1080/59.94i, 1080/50i, 1080/30p, 1080/30PsF, 1080/29.97p, 1080/29.97PsF, 1080/25p, 1080/25PsF, 1080/24p, 1080/24PsF, 1080/23.98p, 1080/23.98PsF, 720/60p, 720/59.94p, 720/50p, 720/24p, 720/23.98p, 525/60(NTSC) , 625/50(PAL) * 3G-SDI (Level B) support for 1920x1080 only.
Video Input	4 inputs in the following video formats (Mixed input, asynchronous acceptable)
3G-SDI	3Gbps, 75Ω BNC Color format: YCbCr (4:2:2) Quantization: 10-bit
HD-SDI	1.485Gbps or 1.485/1.001Gbps, 75Ω BNC Color format: YCbCr (4:2:2) Quantization: 10-bit
SD-SDI	270Mbps, 75Ω BNC Color format: YCbCr (4:2:2) Quantization: 10-bit
Audio Input	SDI embedded - Sampling frequency: 48kHz (syncd to input video) - Bit depth: 16-bit to 24-bit - 16 channels (4 groups, 8 stereo pairs) per SDI input

Video Output	
HD-SDI	1 output, 1.485Gbps or 1.485/1.001Gbps, 75Ω BNC Color format: YCbCr (4:2:2) Quantization: 10-bit
DVI-D	1 output, DVI-D connector Color format: RGB Quantization: 8-bit * HDCP is unsupported.
Video Format	1080/59.94i, 1080/50i, 720/59.94p, 720/50p * No input/output frame rate converter. A frame rate difference between the input and output may result in a repeat frame or drop frame.
Audio Output	SDI embedded audio - Sampling frequency: 48kHz - Bit depth: 24-bit - 16 channels (4 groups, 8 stereo pairs)
I/O Delay	FS MODE is set to FIELD: 1-2 fields (0.5-1.0 frame) FS MODE is set to FRAME: 2-4 fields (1-2 frames)
Screen Display	Full screen, 2-split screen, Quad-split screen
Audio Level Metering	Audio level metering for 3G/HD/SD-SDI input signal embedded audios (Up to 8 channels) * 3G-SDI (Level B) audio level metering support for Link A only. Link B unsupported.
Time Code Display	Embedded time code display for 3G/HD/SD-SDI signals
Title Display	Max. 16 characters x 1 line for each input channel Character types: Alphanumeric characters and symbols
Data Backup	Stores the setting data to EEPROM
Interface	For title settings and remote control over the unit
RS-232C	9-pin, D-sub male, x1 Baud rate: 38,400bps, data length: 8-bit, stop bit: 1-bit, Parity: NONE

Options

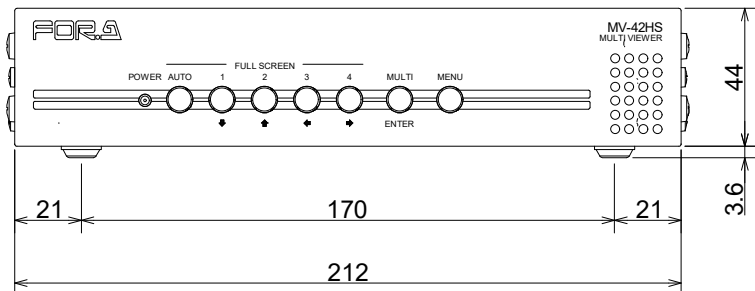
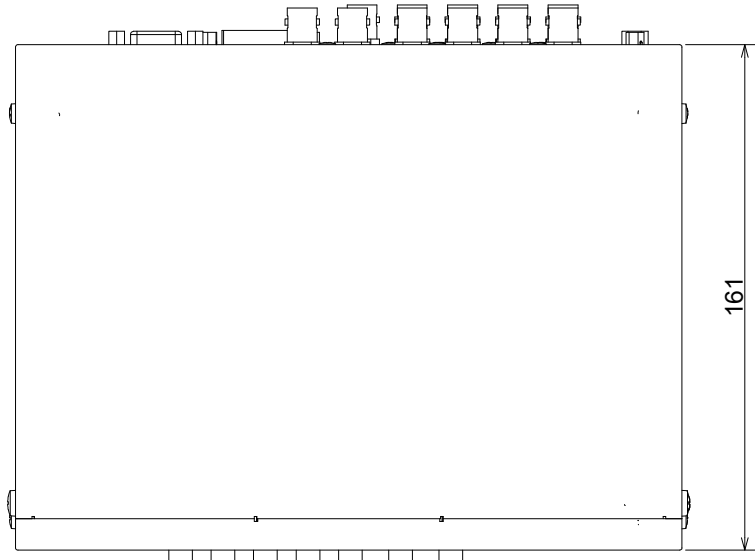
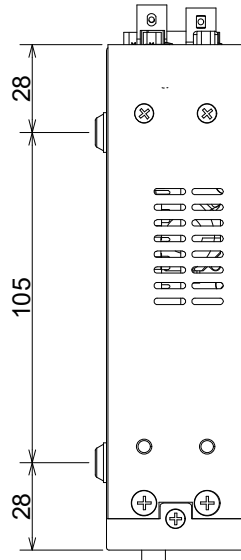
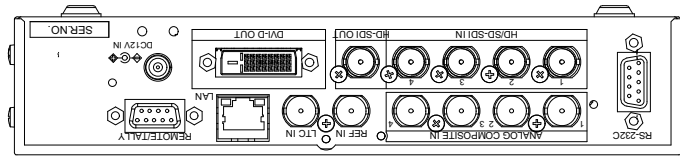
MV-42AI	Analog Composite Input Card
MV-42 IF/IFA	Interface Card
AC adaptor	Including AC cord and DC cord retaining clip

Accessories

CD-ROM and Quick setup guide

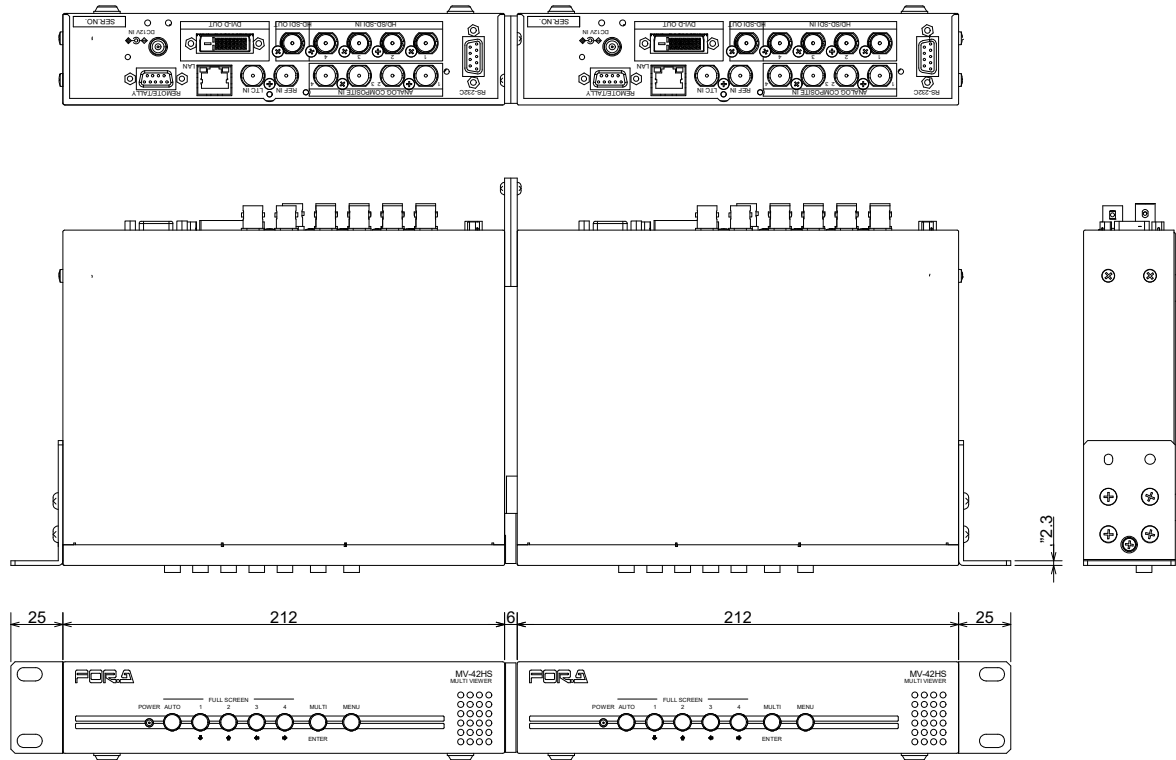
2. External Dimensions

(All dimensions in mm.)

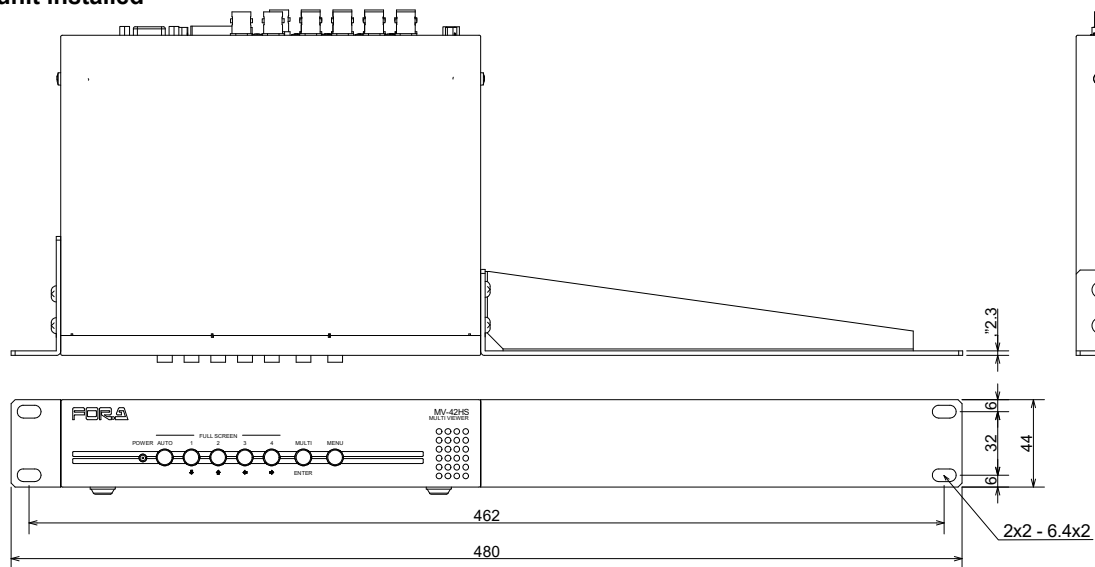


Rack Mounted

◆ **2 units installed**



◆ **1 unit installed**





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