

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
- 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

Specifications

Video Input	4 inputs in the following video formats (Mixed input, asynchronous acceptable)	Interface	For title settings and remote control over the unit
3G-SDI	3Gbps, 75Ω BNC Color format: YCbCr (4:2:2) Quantization: 10-bit	RS-232C	9-pin, D-sub (male) x 1 Baud rate: 38,400bps, Data length: 8-bit, Stop bit: 1-bit, Parity: NONE
HD-SDI	1.485Gbps or 1.485/1.001Gbps, 75Ω BNC Color format: YCbCr (4:2:2) Quantization: 10-bit	Temperature / Humidity	0°C to 40°C / 30% to 90% (no condensation)
SD-SDI	270Mbps 75Ω BNC Color format: YCbCr (4:2:2) Quantization: 10-bit	Power	12 V DC (DC jack) * AC adaptor can be separately purchased. Use an AC adaptor that meets the following requirements. Output voltage: 12 V DC, Output ampere: 2 A, Inrush current: 30 A, Connector: JEITA RC-5320A Standard Voltage Class4 * The MV-42HSA connector is HOSIDEN-produced HEC3800-01-010. Center positive voltage.
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 1920 x 1080 only.	Power Consumption	22 VA (11 W) (at 100 V), 27 VA (12 W) (at 200 V) With MV-42IFA* 25 VA (12 W) (at 100 V), 28 VA (12 W) (at 200 V) With MV-42AI* 26 VA (14 W) (at 100 V), 30 VA (14 W) (at 200 V) With MV-42IFA/AI* 29 VA (14 W) (at 100 V), 32 VA (15 W) (at 200 V) * Used with the optional AC adaptor.
Audio Input	SDI embedded - Sampling frequency: 48 kHz (syncd to input video) - Bit depth: 16-bit to 24-bit - 16 channels (4 groups, 8 stereo pairs) per SDI input	Dimensions / Weight	212 (W) x 44 (H) x 161 (D) mm / 1.16 kg
Video Output		Accessories	Quick Setup Guide, and CD-ROM (Operation manuals)
HD-SDI	1.485Gbps or 1.485/1.001Gbps, 75Ω BNC x 1 Color format: YCbCr (4:2:2) Quantization: 10-bit * Embedded audio is unsupported	Consumables	Cooling fan: P1472 Replace every 3 years (at room temp.)
DVI-D	DVI-D connector x 1 Color format: RGB Quantization: 8-bit * HDCP is unsupported	Options	AC adaptor Rack mount brackets (single or dual mount) MV-42AI: Analog Composite Input Card MV-42IFA: Interface Card
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.	BTO Options	DC connector replace (to 4-pin Canon connector) AC Adaptor (for 4-pin Canon connector)
Audio Output	SDI embedded audio - Sampling frequency: 48 kHz - Bit depth: 24-bit - 16 channels (4 groups, 8 stereo pairs)		
I/O Delay	FS MODE set to FIELD: 1 to 2 fields (0.5 to 1.0 frame) FS MODE set to FRAME: 2 to 4 fields (1 to 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		

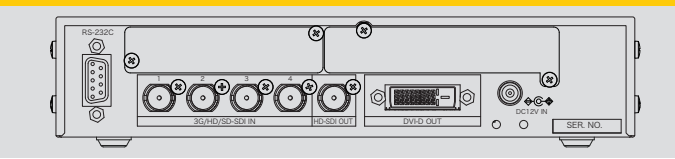
MV-42AI (Analog Composite Input Card) Option

Video Input	4 inputs (Select analog composite or SDI input for each input channel in the menu.)
Analog composite	1.0 Vp-p, 75Ω BNC Color format: YCbCr (4:2:2) Quantization: 8-bit
Video Format	NTSC, PAL

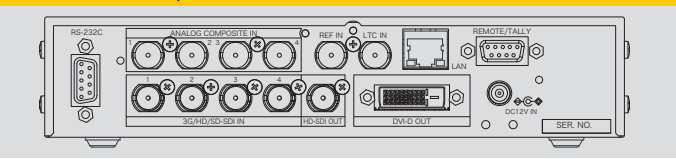
MV-42IFA (Interface Card) Option

Interfaces	
Genlock Input	BB: NTSC 0.429 Vp-p / PAL 0.45 Vp-p or Tri-level sync: 0.6 Vp-p, 75Ω BNC x 1
LTC Input	BNC x 1, high-impedance SMPTE time code: 1.0 Vp-p, within ±6 dB
REMOTE/TALLY Input	9-pin D-Sub (female) x 1: max. 8 inputs Red/green tally inputs 1 to 4 (Negative logic level signal or Make-contact)
Date/Time Display	Date and time display using internal clock or LTC input * Accuracy to within ± 10 sec/month (at 25°C)
LAN	10Base-T/100BASE-TX RJ-45 (Category 5) x 1
Consumables	Backup battery (internal clock): Replace every 5 years (at room temp.)

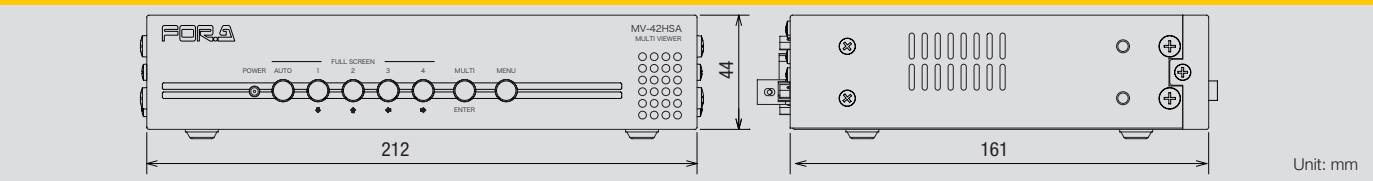
Rear Panel



Rear Panel (Full Options)



External Dimensions



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ISO 9001 and 14001 certified (Sakura R&D)

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