

MV-3240IP Datasheet

1. Specifications

Basic specifications

Temperature	0°C to 40°C
Humidity	30% to 90% (no condensation)
Power	100 V AC to 240 V AC $\pm 10\%$, 50/60 Hz
Consumption	196 VA (190 W) at 100V AC to 120V AC 229 VA (183 W) at 200V AC to 240V AC
Dimensions	430 (W) x 44 (H) x 500 (D) mm EIA 1RU 480 (W) (Including rack mount brackets)
Weight	9.25 kg
Consumables (at 24-hour operation)	Cooling fan: Replace every 5 years Power Supply: Replace every 5 years

Technical specifications

Video format		
IP signal	ST2110-20	2160p / 59.94, 50 1080p / 59.94, 50 1080i / 59.94, 50 720p / 59.94, 50
	ST2022-6	1080p / 59.94, 50 1080i / 59.94, 50 720p / 59.94, 50
Video input	Supports IP inputs.	
IP input	SFP port A/B, C/D, E/F and G/H (SFP28): 25GBASE-SR Path redundant (ST2022-7) (*6) ST2110-20: 2160p 8 streams or 1080p 32 streams or 1080i 32 streams or 720p 32 streams ST2022-6: 1080p 28 streams or 1080i 32 streams or 720p 32 streams	
Audio input		
IP	ST-2022-6 or ST2110-30 Level-B (16ch. Video synchronous) Max 16 channels for each video: 48kHz / 24-bit	
LTC input (MV-1640IF option)	BNC x1 SMPTE-compliant timecode: 1.0 Vp-p within ± 6 dB	
Video output		
HDMI	HDMI (Type-A): 1 output (4K in HDMI2.0 Level B mode) Frame rate: 59.94fps, 50fps 10-bit YCbCr 4:4:4, 8-bit YCbCr 4:2:0 or 8-bit RGB 4:4:4 Limited range Recommended cable length: 5m or less	

12G/3G/HD-SDI	Up to 3840 x 2160 (12G-SDI or 3G/HD-SDI) BNC x 1 1080p, 1080i, 1035i or 720p (3G/HD-SDI) HD-BNC x 3 10-bit YCbCr 4: 2: 2
IP	SFP port A/B (SFP28): 25GBASE-SR Path redundancy (ST2022-7) (*6) ST2110-20: 1080p 4 streams or 1080i 4 streams or 720p 4streams ST2022: 1080p 4 streams or 1080i 4 streams or 720p 4 streams
Audio output	
SDI embedded	Max 16 channels for each video (group x 4) 48kHz / 24-bit
HDMI embedded	Max 8 channels for each video (stereo pair x 4) 48kHz / 24-bit
IP	ST-2022-6 or ST2110-30 (Video synchronous) Max 16 channels for each video 48kHz / 24-bit
Genlock input	-REF IN (MV-1640IF option) BB: 0.429 Vp-p (NTSC), 0.45 Vp-p (PAL) or Tri-level sync.: 0.6 Vp-p 75Ω BNC -PTP LOCK (SFP port A/B)
Video input/output delay (*1)	HDMI/SDI output <SDI1-4/HDMI Out> 0.5 frame (Field mode) Minimum value 1 frame (Frame mode) Minimum value
Video Window display	4K mode: 25 windows Breakdown: 2K widow x 9, 1K window x 12 Video/Clock shared 2K window x 2 Video/Clock shared 1K window x 2 2K mode: 40 windows Breakdown: 2K window x 8, 1K window x 23, 1K mirror window x 5 Video/Clock shared 2K window x 2 Video/Clock shared 1K window x 2
Clock Count up timer Count down timer (*2) Schedule timer	Can be displayed in information window. (Internal clock or LTC is selectable for schedule timer.) Max. number: 4
Background display	Store and display background images - [3840 x 2160] x 1 (4K layout mode) - [1920 x 1080] x 4 (2K layout mode)
Logo display	Store and display logo images - Max: 1024 x 512 (Max. 8 logos can be registered. Max. 4 logos can be displayed.)
Screen layout	User customized layout - Layouts for each output can be saved on the viewer up to 16 layouts.
Title display	-Title length: Max. 16 characters x 4 lines for each video window. -Supported characters: Letters, numbers, symbols and Japanese kana/kanji (JIS 1 and 2)
Tally display	Indicated as a frame (red/green/amber) or marker (red/green/amber) on each input window.
Audio level display (*5)	Up to 16 audio channels of audio level metering per input

Time code display	Not supported (*3)
Video monitoring	Detects video loss, frozen frames, incorrect luminance/black level, and CRC error.
Audio monitoring	Detects audio loss, silence, and excessive audio levels.
Metadata monitoring	Detects timecode loss error.
Control interface	LAN1: 100BASE-TX/1000BASE-T, RJ-45 x 1 LAN2: Same as above
GPI-IO (MV-1640IF option)	50 pin D-sub (female) x1 -Up to 45-pin for input/ 23-pin for output (selectable, and can be used for input and output)
Layout Manager	Software for customizing window sizes and positions, switching windows , and registering backgrounds and logos (Windows® software)
Live Viewer	Software for video streaming and pre-alarm recording to a PC. (Windows® software)
Data backup	Stores settings internally to the memory (rewrite capacity: approx. 100,000 times) (*4) Time information is held by a super capacitor.
Daytime accuracy	Monthly difference within ± 15 seconds. Accuracy duration when power is off: 60 hours

(*1) Using interlaced input

(*2) Count up/down timer uses an internal crystal oscillator: ± 50 ppm within operating temperature.
(0°C to 40°C)

(*3) Time code from LTC input is not displayed.

(*4) Frequent setting changes may impair data retention.

(*5) When input audio frequency is under 60Hz, audio level may not be displayed correctly.

(*6) The frequencies of IP input and MV output are different, the input signals are not properly processed.

Options

MV-1640PS	Redundant power supply
MV-1640IF	Interface option

SFP transceivers (SFP28, up to 8) used for IP video transmission should be **prepared by users**.

Recommended SFP transceiver module: MMA2P00-AS-SP (NVIDIA)

Other Option

HVS-AUX16A/16B/16C/16D/32A/64A (*)	Auxiliary unit (Ethernet LAN Connection)
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(*) Connectable max. 4 units

Accessories

AC Cord, EIA Rack Mount Brackets, Rubber Feet, HDMI Cable Lacing Bracket, and CD-ROM

2. External Dimensions

(All dimensions in mm.)

