

IP High Resolution Multi Viewer

MV-3240IP



Multi-viewer that can accommodate up to 32 IP inputs. It supports SMPTE ST 2110-10/20/30/40 and SMPTE ST 2022-6/7. With the capability for 25GBASE-SR connections, it can output IP-HD32 input material to a 4K monitor. Ideal for a seamless transition to a MoIP system or a new constructions while maintaining the environment, functionality, and operability of existing baseband systems.

Supports IP input, output and ideal for to check IP materials

- Video inputs (Up to 32 Inputs):
 - IP Input: Supports up to 32 streams in HD or up to 8 streams in 4K IP (SMPTE ST 2110/ST 2022-6)*1.
- IP: Compatible with SMPTE ST 2110-10/20/30/40, SMPTE ST 2022-6/7.
- Freely layout up to 25 windows for one 4K or up to 40 windows for four 2K signals.
- Video outputs (Up to 5 Outputs):
 - IP Output: Supports up to 4 streams in 3G/HD IP (SMPTE ST 2110/ST 2022-6).
 - SDI Output: Supports 4 outputs in 3G/HD-SDI or 1 output in 12G-SDI, or 1 output in 12G-SDI + 3 outputs in 3G-SDI, and HDMI 1 output*2.

Features

- Compatible with SFP28 modules and making the unit ready for either 10 or 25 GbE environments.
- Uses NMOS IS-05 for stream switching.
- Realizes minimum delay of one field (16.6ms) from IP to baseband output.
- Layout Manager.
 - Customizes layouts, using the software in Windows® to adjust image size, position, title display, and other settings.
 - Stores layouts on the viewer.
 - Recalls saved layouts directly from the front panel control.
- HD to 4K up-resizing and 4K to 2K down-resizing.
- Captures specified frames of streamed video.
- Cropping.
 - Specifies areas to crop in pixels or by percent.
 - Background image is shown outside cropped areas.
 - Aspect ratio also maintained after partial cropping (of one side, for example).
- Logo display in title areas.
- Stores and displays 4 logo images.
- Tally, Title, and Timecode Display.
- Time of day, Timer, and Information Display.
- Can display time based on a 30-hour clock.
- Registers up to 24 schedule timers per day for 1 week.
- Supports external interfaces, and control protocols (including monitoring). SNMP function.
- Detects frozen frames. (Y/C and Y only).
- Views error logs or user text in the Information Display.
- Flashing borders or error icons/messages to identify screens with errors.
- Audio Level Display.
- Audio Monitoring Output.
- Cascading Function.
 - Cascade connection is possible between MV-3240IP and either the MV-3240 multi viewer or the IP-compatible multi-viewer MV-1640IP*3.
 - Enables an increase in the number of windows per monitor.

Options

Expansion cards

■ MV-1640IF: Interface option

Tally inputs, time correction, and alarm resets using up to 45 contact closure inputs to the GPI-IO connector on the rear of the unit.

Option

■ MV-1640PS: Redundant power supply

Remote control units

■ HVS-AUX16A/16B/16C/16D/32A/64A^{*2}: Auxiliary unit



HVS-AUX16A
(16-buttons)



HVS-AUX16B
(16-buttons, table-top model)



HVS-AUX16C
(16-buttons with OLED displays)



HVS-AUX16D
(16-buttons with OLED display,
table-top model)



HVS-AUX32A
(32-buttons)



HVS-AUX64A
(64-buttons)

*1 MV-1640SDI is required, to be supported. *2 Connectable max. 4 units.

MV-3240IP Datasheet (Preliminary)

1. Specifications

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 SDI 32 inputs (Asynchronous inputs are possible)	
IP	SFP A/B,C/D,E/F,G/H (SFP28): 25GBASE-SR Path redundant (ST2022-7) 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	48 kHz / 16-bit to 24-bit (Video synchronous) Max. 16 channels for each SDI input	
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	
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 A/B (SFP28): 25GBASE-SR Path redundant (ST2022-7) ST2110-20: 1080p 4 streams or 1080i 4 streams or 720p 4 streams ST2022-6: 1080p 4 streams or 1080i 4 streams or 720p 4 streams	
Audio output		
Embedded (SDI)	Max 16 channels for each video (group x 4) 48kHz / 24-bit	
Embedded (HDMI)	Max 16 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	

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 input channel -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	Up to 16 audio channels of audio level metering per input
Control Interface	LAN1: 100BASE-TX/1000BASE-T, RJ-45 x 1 LAN2: Same as above
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)

Options

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

Other Option

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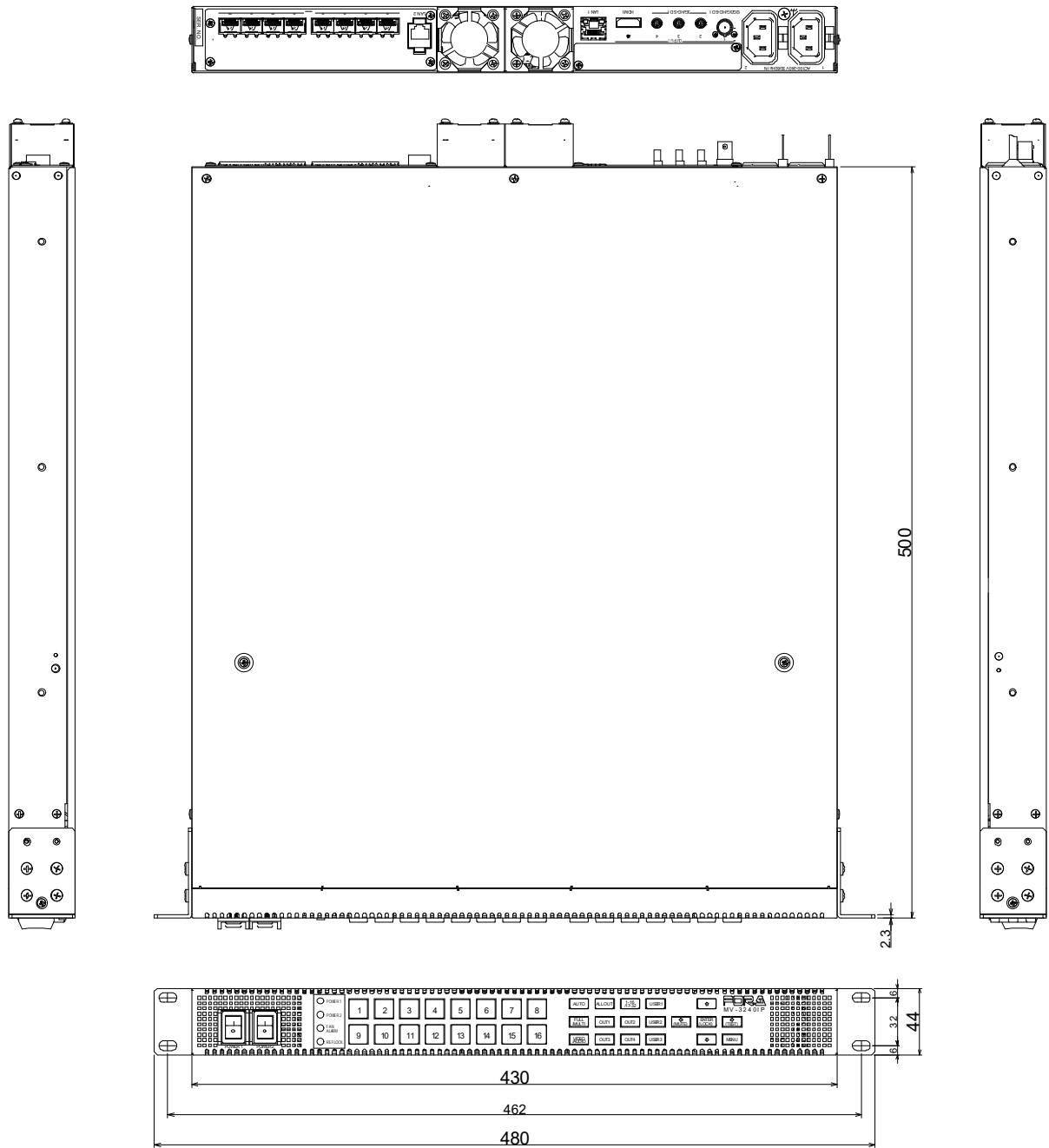
(*) Connectable max. 4 units

Accessories

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

2. External Dimensions

(All dimensions in mm.)





FOR-A COMPANY LIMITED www.for-a.com

ISO 9001 and 14001 certified
(Sakura R&D)

Head Office:

3-8-1 Ebisu, Shibuya-ku, Tokyo 150-0013, Japan
Tel: +81 (0)3-3446-3936

**FOR-A Corporation of America
Corporate Office/Service Center:**

11155 Knott Ave., Suite G, H & I, Cypress, CA 90630, U.S.A.
Tel: +1 714-894-3311

FOR-A Corporation of America Northeast Office:

Tel: +1 973-220-8471

FOR-A Corporation of America Southeast Office:

Tel: +1 305-773-7608

FOR-A Corporation of America Support Center:

2400 N.E. Waldo Road, Gainesville, FL 32609, U.S.A.
Tel: +1 352-262-5779

FOR-A Latin America and the Caribbean Miami Office:

Tel: +1 657-600-5759

FOR-A Latin America and the Caribbean Sao Paulo Office:

Tel: +55 11-99913-3751

FOR-A Latin America and the Caribbean Mexico City Office:

Tel: +52-55-5072-4969

FOR-A Europe S.r.l.:

Via Volturmo, 37, 20861 Brugherio MB, Italy
Tel: +39 (0)39-916-4811

FOR-A UK Limited:

Trident Court, 1 Oakcroft Road, Chessington, KT9 1BD, UK
Tel: +44 (0)20-3044-2935

FOR-A Italia S.r.l.:

Via Volturmo, 37, 20861, Brugherio MB, Italy
Tel: +39 (0)39-881-086

FOR-A Corporation of Korea:

1007, 57-5, Yangsan-ro, Yeongdeungpo-gu, Seoul 07271, Korea
Tel: +82 (0)2-2637-0761

FOR-A China Limited:

1618A Huateng Building, No. 302, 3 District, Jinsong, Chaoyang,
Beijing 100021, China
Tel: +86 (0)10-8721-6023

FOR-A Middle East-Africa Office:

DSC Tower, Office 207, Dubai Studio City,
P.O. Box 502688, Dubai, UAE
Tel: +971 (0)4-551-5830

FOR-A India Private Limited Corporate Office:

Unit No: 800, World Trade Tower, Sector-16, Noida-201301, Uttar
Pradesh, India
Tel: +91-120-4238674 / +91-120-4252330

FOR-A India Private Limited Mumbai Office:

202-203, Wellington Business Park No-01, Marol, Off, Andheri Kurla
Road, Andheri East, Mumbai-400059, Maharashtra, India
Tel: +91 22-49795570

FOR-A South East Asia Hong Kong Office:

Studio 09, Rm. A1, 3/F., Phase 1, Hang Fung Ind. Bldg., 2G Hok
Yuen St., Hung Hom, Hong Kong
Tel: +852-2110-9227

FOR-A South East Asia Singapore Office:

Tel: +65-8686-8086