

SPEC FILE

Product Number :

ET-FMP20

(Box-type)

Media Processor

Product Name :

Panasonic ET-FMP20 POWER RESET

Overview

This product is a media processor featuring camera-based blending/black-level adjustments and 4K media playback capability. It eases the burden on your team when installing and adjusting multi-projection attractions, making operations more efficient.

Hardware Highlights

- Compact box-type
- Up to 4 x 1920 x 1080/60p outputs¹ per device
- Supports NDI® AVoIP protocol
- Seamless video synchronization among multiple media processors
- Supports a max. content resolution of 18 million pixels (long side 7680 pixels or less)
- Supports video bandwidth up to 300 Mbps
- Compatible with H.264, and H.265 codecs
- Supports MP4, JPEG, BMP, and PNG formats
- Large internal storage: 512 GB²
- Pixel-based adjustment for unrivaled precision
- Stable Linux[®] operating system
- Optional rack-mounting kits for one or two ET-FMP20 units

Software Highlights

Intuitive User Interface

- Gentle learning curve
- Quick and easy to master
- Consists of four screens arranged in operation order

Auto & Manual Blending

- Auto blending, black level adjustment, and content splitting
- Click to define the image projection area
- Works with Nikon or IDS cameras³
- Free layout adjustment
- Supports manual blending

Playlist & Timeline

- Create multiple playlists with custom timelines for each
- Convenient drag-and-drop media timeline
- Gapless playback loops to prevent screen blanking
- Supports playback via external UDP commands

Preview Content

 Preview content on PC screen or on the projection screen by sending it directly to ET-FMP20

Automated Operation

Warping & Color Adjustment

Supports free shape masking,

Corner/Keystone/Detail

• 7-color manual adjustment

even in blends

Adjustment

(auto TBA)

- Create custom schedules for automated daily playback
- Simple and intuitive

¹ When four HDMI[™] outputs are used simultaneously

² Approximately 30 GB of the total storage space is allocated for system usage and is unavailable to the user.

³ Compatible cameras (sold separately) comprise NIKON D5200/D5300/D5500/D5600/D7500/Z50 and the IDS GV-5890CP-C-HQ.

Please visit PASS for more information.

Specifications

Main unit (Specifications subject to change without notice.)

Туре		Box-type			
Terminals	LAN	RJ-45 x 1 for network connection 10Base-T/100Base-TX, 1000Base-T, NDI® compatible			
	HDMI™ OUT 1/2/3/4	HDMI™ x 4 Audio signals: Linear PCM and sampling frequency: 44.1kHz/48kHz, 16-bit, 2 channels			
	Audio OUT	3.5 mm stereo mini-jack 0 V [rms] to 2.0 V [rms] (variable), output impedance 2.2 k Ω or lower			
Content compat	ible with streaming playback	Image compression method: High Bandwidth NDI®			
NDI®		Image resolution/frame rate: 1920 x 1080/60fps, 1920 x 1080/50fps			
		Audio signals: Linear PCM and sampling frequency: 44.1kHz/48kHz, 16-bit, 2 channels			
Max. video outp	out resolution	3840 x 2160/60p ¹ x 1 or 1920 x 1080/60p x 4 ²			
Video format		$H.264^3$, 8-bit, 3840 x 2160 pixels, 60p, YP_BP_R 4:2:0, 300 Mbps / $H.265^4$, 8-bit, 18million pixels (long side of 7680 pixels or less), 60p, YP_BP_R 4:2:0, 300 Mbps Color format: RGB Color depth: 8-bit			
Audio format		AAC-LC, 16-bit, stereo			
Storage		512 GB⁵			
Operating system	m	Linux			
Power supply		AC 100V-240V 50Hz/60Hz			
Maximum power consumption		64 W			
Dimensions	Width	Approx. 210 mm [8 9/32 in]			
	Height	Approx. 44 mm [1 23/32 in] (Excluding feet)			
	Depth	Approx. 295 mm [11 5/8 in]			
Weight		Approx. 2.0 kg (4.41 lbs) (Excluding AC adapter and cord)			
Operating	Operating temperature	0-40 °C (32-104 °F)			
environment	Operating humidity	10-80 % (no condensation)			

1 HDMI[™] OUT 1 only, HDMI[™] OUT 2/3/4 have a maximum resolution of 1920x1080/60p
2 When four HDMI[™] outputs are used simultaneously.
3 Compatible profiles: Baseline, Main, High (4:2:0)
4 Compatible profiles: Main (4:2:0)
5 Approximately 30 GB of the total storage space is allocated for system usage and is unavailable to the user.

Optional Accessories

Rack Mounting Kit for 2	ET-PKF/NJ2
Rack Mounting Kit for 1	ET-PKFMJ1

Content that can be registered

You can register the following still image files and movie files as media in this software.

	Extension	Format	Restriction	
	jpg/jpeg	JPEG	Number of pixels: Maximum 9600 x 6400 (only baseline supported) YUV format: Only YUV420, YUV422, and YUV444 supported Color mode: Unsupported	
Still image	png	Portable Network Graphics	Number of pixels: Maximum 4096 x 4096 Number of bits: 24 Transparent: Unsupported	
	bmp	Windows Bitmap	Number of pixels: Maximum 4096 x 4096 (only 1-bit, 4-bit, 8-bit, and 24-bit supported) Following formats are not supported. Run-length encoding, Bit fields, Top to bottom, Transparent data	

	Extension	Codec		Restriction ¹		
		Video	Audio	Video	Audio	
Movie	mp4	H.264/MPEG-4 AVC H.265/HEVC	MPEG-4 AAC-LC	 Resolution With H.264/MPEG-4 AVC Maximum: 3840 x 2160 Minimum: 240 x 180 With H.265/HEVC Maximum: Total number of pixels: 18 million (long side 7680 or less) Minimum: 240 x 180 Frame rate 25 fps/30 fps/50 fps/60 fps Bit rate Maximum 300 Mbps YUV format Only 4:2:0 supported Supported profiles With H.265/HEVC²: Baseline Profile/Main Profile/ High Profile With H.265/HEVC: Main Profile³ 	Sample rate: 44.1 kHz, 48 kHz Channel: 2 ch, 0 ch (no audio) Bit width: 16 bit	

1 Multi-angle video is not supported.

2 Constrained Baseline Profile, Extended Profile, and Hi10P/Hi422P/Hi444P are not supported.

3 Following profiles are not supported. Main 10, Main 12, Main 422-10, Main 422-12, Main 444-8, Main 444-10, Main 444-12

Note

• Some information for still image/movie files can be viewed with a computer where relevant files are accessible.

Operation example

- For Windows computer
- 1.Right-click a file, and click [Properties]. 2.Click the [Details] tab.
- A movie file cannot be used if its playback time is less that ten seconds or its playback time information cannot be acquired.
- The maximum number of characters for content file names is 80 characters.
- Files protected by DRM (Digital Rights Management) cannot be used.
- · Some files listed as compatible formats may still not be able to be used.

ET-FMP20

Main body



1	Power indicator <power> Indicates the status of the device.</power>	6	AUDIO OUT> terminal This terminal is for outputting audio signals.
2	<reset> button</reset> This button initializes the network settings. If you press and hold the button, the settings of [System] menu → [Network] page are initialized and the device restarts.	7	<lan> terminal This terminal is for connecting to a network.</lan>
3	Air intake vent	8	USB> terminals These terminals are not used with this device.
4	Security slot This security slot is compatible with Kensington security cables.	9	HDMI[™] OUT 1> terminal / HDMI[™] OUT 2> terminal / HDMI[™] OUT 3> terminal / HDMI[™] OUT 4> terminal These terminals are for outputting HDMI signals.
5	Air exhaust vent	10	CIN> terminal Connect the supplied AC adapter.

ET-FMP20



1	Rack mount bracket attachment positionUse these three screw holes to mount the device to a rack.Also use them to connect two devices horizontally.	3	Connection angle bracket attachment position Use these three screw holes to connect two devices horizontally.
2	Rubber feet Rubber feet are removable.	4	Wire attachment hole This hole is for attaching a commercially available drop prevention wire. You can also connect a theft prevention wire, padlock, etc.

Attention

• The LAN cable connected directly to this device must be indoors only.

Dimensions

ET-FMP20

unit : mm [inch] NOTE: This illustration is not drawn to scale.



When the Rack Mounting Kit (model no.: ET-PKFMJ1) is attached



When the Rack Mounting Kit (model no.: ET-PKFMJ2) is attached

