

S P E C F I L E

Product Number: ET-FMP20

Product Name : Media Processor

(Box-type)



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

Warping & Color Adjustment

- Supports free shape masking, even in blends
- Corner/Keystone/Detail Adjustment
- 7-color manual adjustment (auto TBA)

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

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

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.

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.

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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			
1121111 221 112111		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 compatible with streaming playback NDI®		Image compression method: High Bandwidth 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 ₈ P _R 4:2:0, 300 Mbps / H.265 ⁴ , 8-bit, 18million pixels (long side of 7680 pixels or less), 60p, YP ₈ P _R 4:2:0, 300 Mbps Color format: RGB Color depth: 8-bit			
Audio format		AAC-LC, 16-bit, stereo			
Storage		512 GB ⁵			
Operating syste	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)			

- HDMI™ OUT 1 only, HDMI™ OUT 2/3/4 have a maximum resolution of 1920x1080/60p
 When four HDMI™ outputs are used simultaneously.
 Compatible profiles: Baseline, Main, High (4:2:0)
 Compatible profiles: Main (4:2:0)
 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/MJ2				
Rack Mounting Kit for 1	ET-PKF/MJ1				

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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 bmp Windows Bitmap		Number of pixels: Maximum 4096 x 4096 Number of bits: 24 Transparent: Unsupported		
			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	
	Extension	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.264/MPEG-4 AVC ² : Baseline Profile/Main Profile/ High Profile With H.265/HEVC: Main Profile ³	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

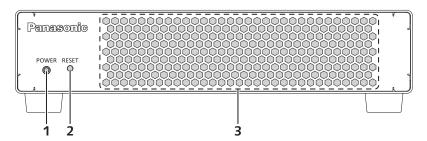
- Some information for still image/movie files can be viewed with a computer where relevant files are accessible. Operation example
 - For Windows computer
 - 1. Right-click a file, and click [Properties].
 - 2.Click the [Details] tab.
- A movie file cannot be used if its playback time is less that ten 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.

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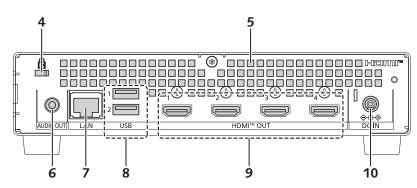
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Main body

■ Front



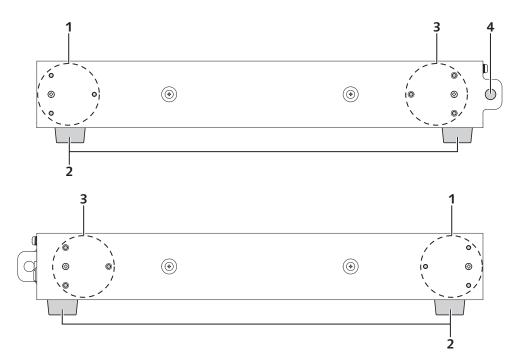
Rear



1	Power indicator <power> Indicates the status of the device.</power>	6	<audio out=""> terminal</audio> This terminal is for outputting audio signals.
2	RESET> button 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	<us><usb> terminals</usb>These terminals are not used with this device.</us>
4	Security slot This security slot is compatible with Kensington security cables.	9	<hdmi<sup>™ OUT 1> terminal / <hdmi<sup>™ OUT 2> terminal / <hdmi<sup>™ OUT 3> terminal / <hdmi<sup>™ OUT 4> terminal These terminals are for outputting HDMI signals.</hdmi<sup></hdmi<sup></hdmi<sup></hdmi<sup>
5	Air exhaust vent	10	CONSTANT CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONTROL CONT

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■ Sides



1	Rack mount bracket attachment position Use 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

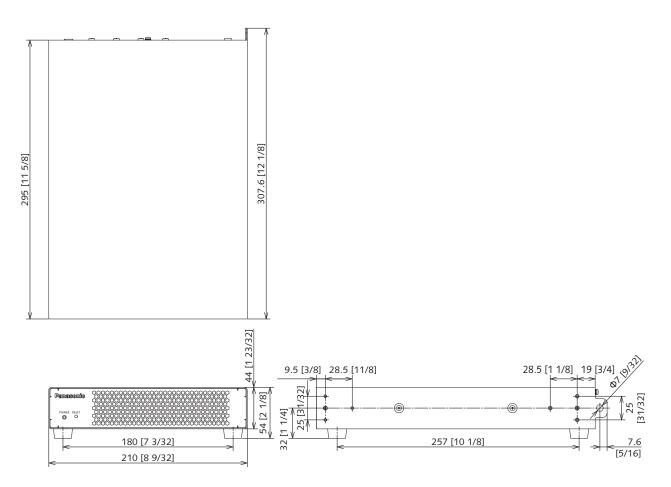
• The LAN cable connected directly to this device must be indoors only.

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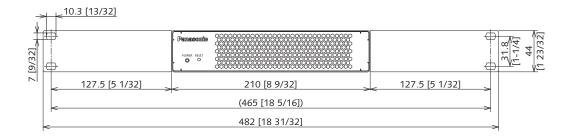
Dimensions

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



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



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

