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S P E C F I L E

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Product Number : **ET-FMP50**

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 outputs<sup>1</sup> per device
- Supports NDI<sup>®</sup> 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 HAP<sup>2</sup>, H.264, and H.265 codecs
- Compatible with H.264, and H.265 codecs
- Supports MP4, JPEG, BMP, and PNG formats
- Large internal storage: 4TB
- Pixel-based adjustment for unrivaled precision
- Stable Linux<sup>®</sup> operating system
- Optional rack-mounting kits for one or two ET-FMP50 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 cameras<sup>3</sup>
- 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-FMP50

### Automated Operation

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

<sup>1</sup> When four HDMI<sup>™</sup> outputs are used simultaneously

<sup>2</sup> Compatible with HAP 1 and HAP Q.

<sup>3</sup> 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.)

Type		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 signal: 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 kΩ 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 output resolution		3840 x 2160/60p <sup>1</sup> x 1 or 1920 x 1080/60p x 4 <sup>2</sup>
Video format		HAP H.264 <sup>3</sup> , 8-bit, 3840 x 2160 pixels, 60p, YP <sub>B</sub> P <sub>R</sub> 4:2:0, 300 Mbps / H.265 <sup>4</sup> , 8-bit, 18million pixels (long side of 7680 pixels or less), 60p, YP <sub>B</sub> P <sub>R</sub> 4:2:0, 300 Mbps Color format: RGB Color depth: 8-bit
Audio format		AAC-LC, 16-bit, stereo
Storage		4 TB
Operating system		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 environment	Operating temperature	0-40 °C (32-104 °F)
	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)

### Optional Accessories

Rack Mounting Kit for 2	ET-PKFMJ2
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
Still image	jpg/jpeg	JPEG	Number of pixels: Maximum 9600 x 6400 (only baseline supported) YUV format: Only YUV420, YUV422, and YUV444 supported Color mode: Unsupported
	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 <sup>1</sup>	
		Video	Audio	Video	Audio
Movie	mp4	H.264/MPEG-4 AVC H.265/HEVC	MPEG-4 AAC-LC	<ul style="list-style-type: none"> <li>Resolution               <ul style="list-style-type: none"> <li>With H.264/MPEG-4 AVC                   <ul style="list-style-type: none"> <li>Maximum: 3840 x 2160</li> <li>Minimum: 240 x 180</li> </ul> </li> <li>With H.265/HEVC                   <ul style="list-style-type: none"> <li>Maximum: Total number of pixels: 18 million (long side 7680 or less)</li> <li>Minimum: 240 x 180</li> </ul> </li> </ul> </li> <li>Frame rate               <ul style="list-style-type: none"> <li>25 fps/30 fps/50 fps/60 fps</li> </ul> </li> <li>Bit rate               <ul style="list-style-type: none"> <li>Maximum 300 Mbps</li> </ul> </li> <li>YUV format               <ul style="list-style-type: none"> <li>Only 4:2:0 supported</li> </ul> </li> <li>Supported profiles               <ul style="list-style-type: none"> <li>With H.264/MPEG-4 AVC<sup>2</sup>:                   <ul style="list-style-type: none"> <li>Baseline Profile/Main Profile/ High Profile</li> </ul> </li> <li>With H.265/HEVC:                   <ul style="list-style-type: none"> <li>Main Profile<sup>3</sup></li> </ul> </li> </ul> </li> </ul>	Sample rate: 44.1 kHz, 48 kHz Channel: 2 ch, 0 ch (no audio) Bit width: 16 bit
	mov	HAP (HAP 1) HAP Q	MPEG-4 AAC-LC	<ul style="list-style-type: none"> <li>Resolution               <ul style="list-style-type: none"> <li>Maximum: 3840 x 2160</li> <li>Minimum: 240 x 180</li> </ul> </li> <li>Frame rate               <ul style="list-style-type: none"> <li>With HAP (HAP 1):                   <ul style="list-style-type: none"> <li>25 fps/30 fps/50 fps/60 fps</li> </ul> </li> <li>With HAP Q:                   <ul style="list-style-type: none"> <li>25 fps/30 fps</li> </ul> </li> </ul> </li> <li>The Snappy codec option is not supported.</li> <li>HAP Alpha and HAP Q Alpha are not supported.</li> </ul>	

<sup>1</sup> Multi-angle video is not supported.

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

<sup>3</sup> Following profiles are not supported.

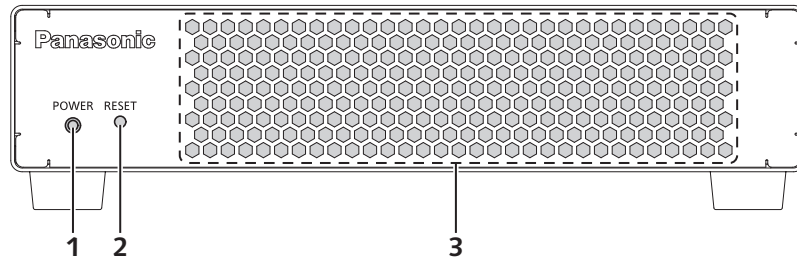
Main 10, Main 12, Main 422-10, Main 422-12, Main 444-8, Main 444-10, Main 444-12

### Note

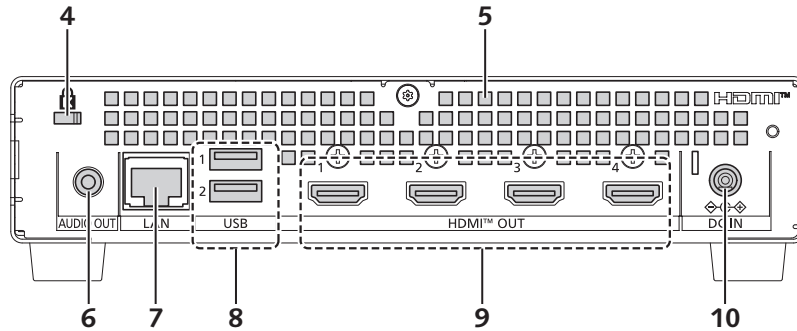
- Some information for still image/movie files can be viewed with a computer where relevant files are accessible.  
Operation example
  - For Windows computer
    - 1.Right-click a file, and click [Properties].
    - 2.Click the [Details] tab.
- A movie file cannot be used if its playback time is less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

Main body

■ Front

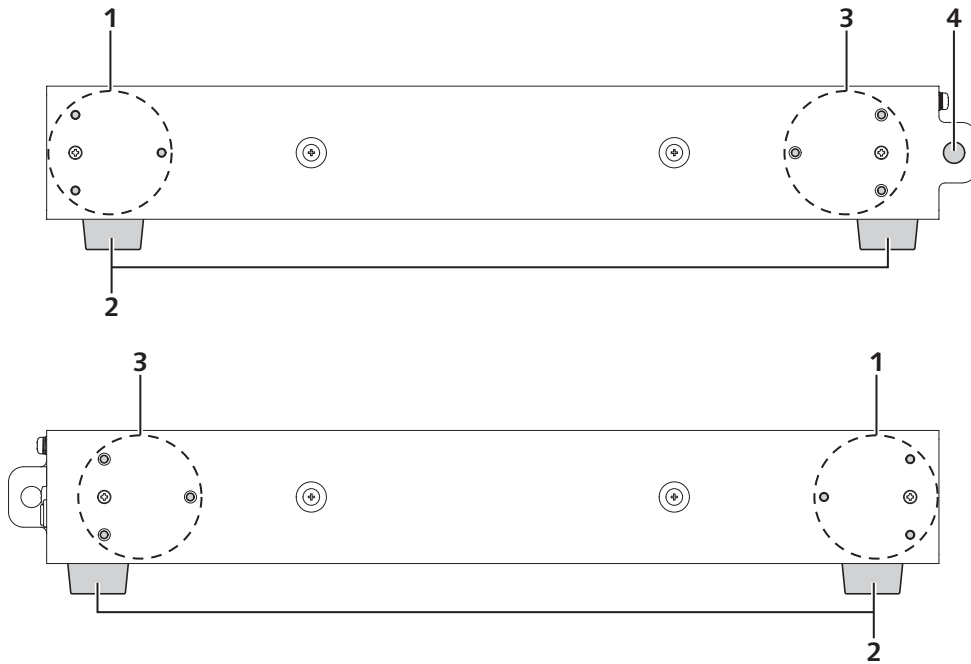


■ Rear



1	<b>Power indicator &lt;POWER&gt;</b> Indicates the status of the device.	6	<b>&lt;AUDIO OUT&gt; terminal</b> This terminal is for outputting audio signals.
2	<b>&lt;RESET&gt; button</b> 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	<b>&lt;LAN&gt; terminal</b> This terminal is for connecting to a network.
3	<b>Air intake vent</b>	8	<b>&lt;USB&gt; terminals</b> These terminals are not used with this device.
4	<b>Security slot</b> This security slot is compatible with Kensington security cables.	9	<b>&lt;HDMI™ OUT 1&gt; terminal / &lt;HDMI™ OUT 2&gt; terminal / &lt;HDMI™ OUT 3&gt; terminal / &lt;HDMI™ OUT 4&gt; terminal</b> These terminals are for outputting HDMI signals.
5	<b>Air exhaust vent</b>	10	<b>&lt;DC IN&gt; terminal</b> Connect the supplied AC adapter.

■ Sides



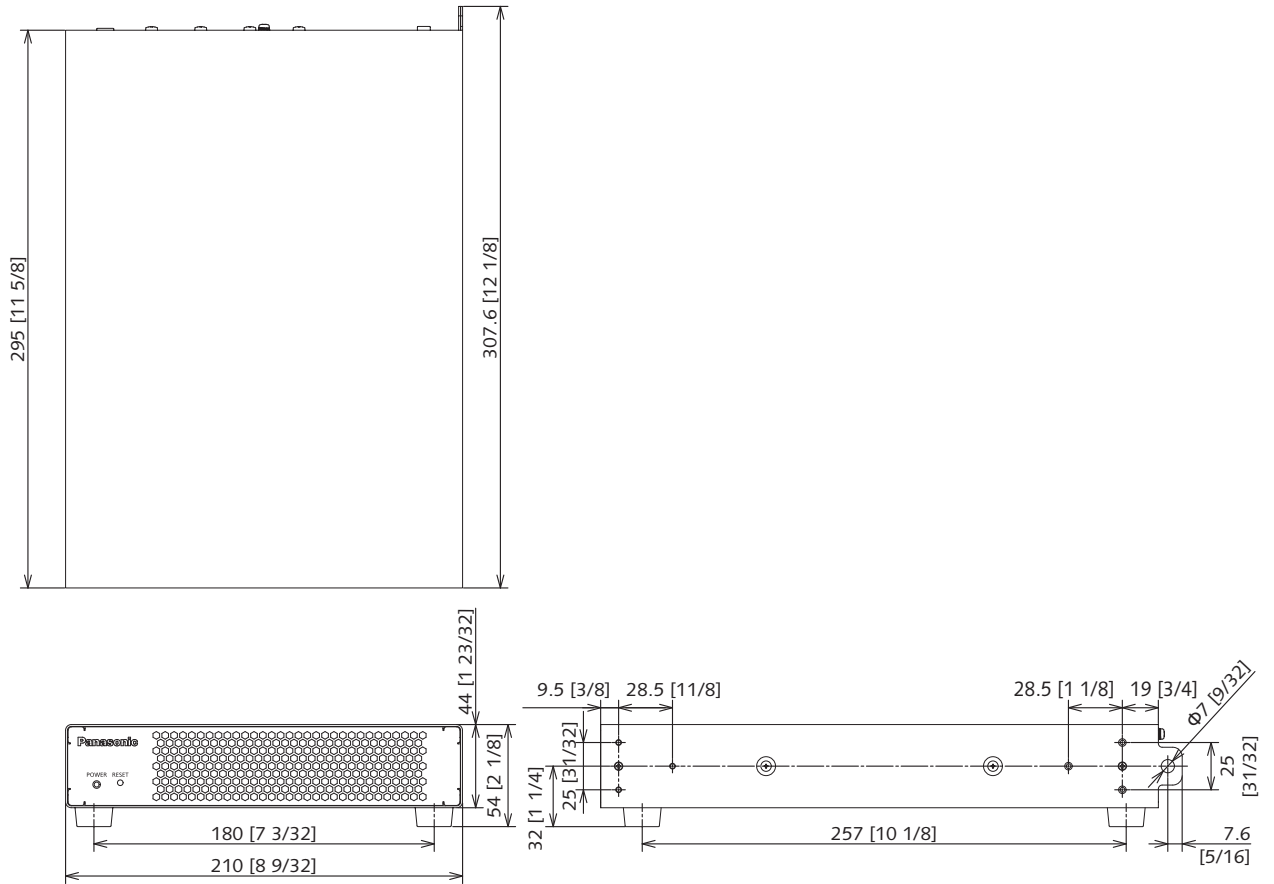
1	<b>Rack mount bracket attachment position</b> Use these three screw holes to mount the device to a rack. Also use them to connect two devices horizontally.	3	<b>Connection angle bracket attachment position</b> Use these three screw holes to connect two devices horizontally.
2	<b>Rubber feet</b> Rubber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

**Attention**

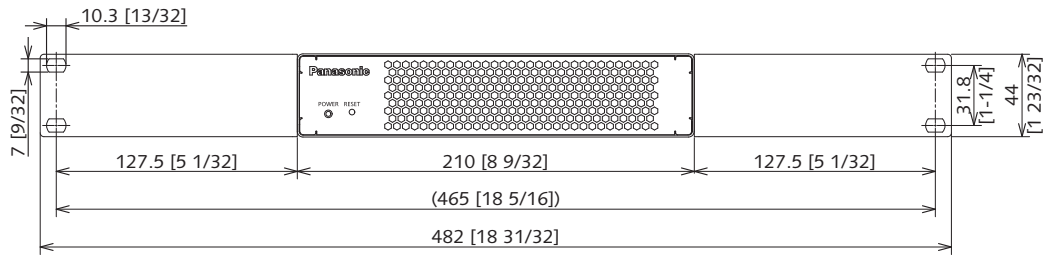
- The LAN cable connected directly to this device must be indoors only.

Dimensions

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

