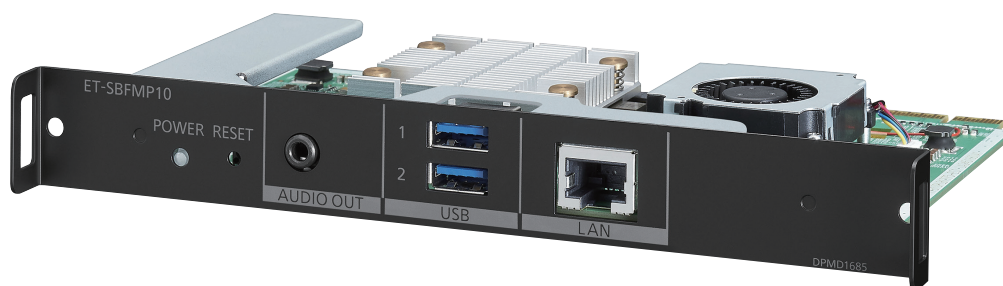


## S P E C F I L E

Product Number : **ET-SBFMP10**

Product Name : Media Processor  
Function board-type



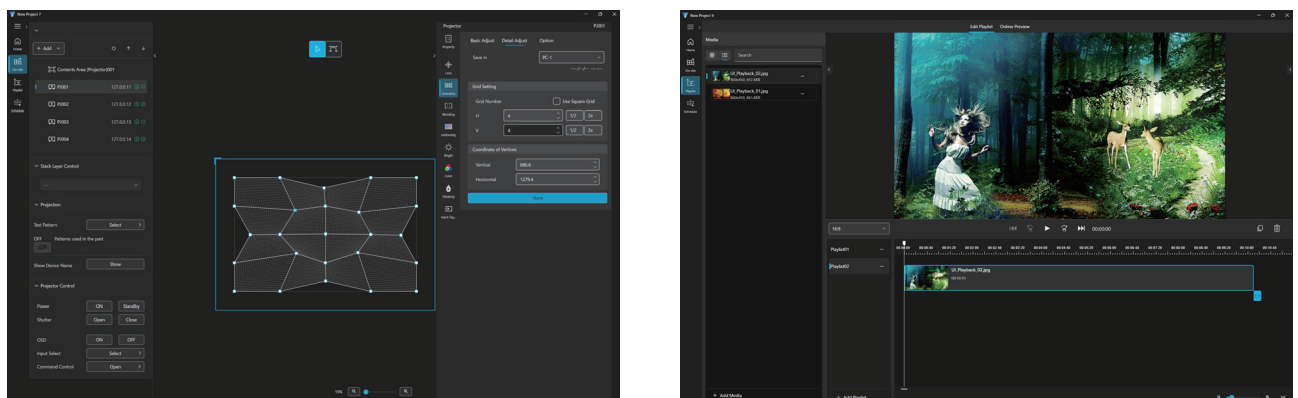
## Overview

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

- Function board-type
- Device connection via a single LAN cable
- Supports NDI®(Max. 3840 x 2160/60p) and Dante®(2-channel) AVoIP protocol
- Seamless video synchronization among multiple media processors
- Supports signal input of up to 18 million pixels (max. length 7680 pixels), with resolutions including 7680 x 1920/60p and 4096 x 4096/60p for smoother content production
- 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 GB<sup>1</sup>
- Pixel-based adjustment for unrivaled precision
- Stable Linux® operating system

## Software Highlights



This media processor is compatible with Visual Software Suite 2.0. For detailed specifications, please refer to the Visual Software Suite 2.0 spec file.

<sup>1</sup> Approximately 30 GB of the total storage space is allocated for system usage and is unavailable to the user.

## Specifications

### Main unit (Specifications subject to change without notice.)

Type		Function board-type <sup>1</sup>
Terminals	LAN	RJ-45 x 1 for network connection 10Base-T/100Base-TX, 1000Base-T, NDI® and Dante®(2 channels) compatible
	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: 3840 x 2160/60 fps, 3840 x 2160/50 fps, 1920 x 1080/60fps, 1920 x 1080/50fps
		Audio signals: Linear PCM and sampling frequency: 44.1kHz/48kHz, 16-bit, 2 channels
Video format		H.264 <sup>2</sup> , 8-bit, 3840 x 2160 pixels, 60p, YPbPr 4:2:0, 300 Mbps / H.265 <sup>3</sup> , 8-bit, 18million pixels (long side of 7680 pixels or less), 60p (including 7680 x 1920/60p, 4096 x 4096/60p), YPbPr 4:2:0, 300 Mbps Color format: RGB Color depth: 8-bit
Max. video output resolution		3840 x 2160/60p
Audio format		AAC-LC, 16-bit, stereo
Storage		512 GB <sup>4</sup>
Operating system		Linux
Dimensions	Width	Approx. 195 mm [7 11/16 in]
	Height	Approx. 25 mm [1 in]
	Depth	Approx. 123.2 mm [4 27/32 in]
Weight		Approx. 0.26 kg (0.57 lbs)
Operating environment	Operating temperature	0-45 °C (32–113 °F) <sup>5</sup>
	Operating humidity	10-80 % (no condensation)
Applicable projector <sup>6</sup>		PT-RQ25K Series
		PT-RZ14K
		PT-REQ15 Series, PT-REZ15 Series
		PT-RQ7 Series

<sup>1</sup> Compatible with Intel® SDM standard SLOT; Panasonic cannot guarantee compatibility of the ET-SBFMP10 with non-Panasonic projectors.

<sup>2</sup> Compatible profiles: Baseline, Main, High (4:2:0)

<sup>3</sup> Compatible profiles: Main (4:2:0)

<sup>4</sup> Approximately 30 GB of the total storage space is allocated for system usage and is unavailable to the user.

<sup>5</sup> The operating temperature range may differ according to the specific projector model paired with the ET-SBFMP10.

<sup>6</sup> Models to be compatible will be addressed in sequence.

The firmware of the projectors needs to be updated. Please refer to the operation manual for more information.

## Content that can be registered

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

Still image	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
	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

Movie	Extension	Codec		Restriction <sup>1</sup>	
		Video	Audio	Video	Audio
	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: <ul style="list-style-type: none"> <li>44.1 kHz, 48 kHz</li> </ul> Channel: <ul style="list-style-type: none"> <li>2 ch, 0 ch (no audio)</li> </ul> Bit width: <ul style="list-style-type: none"> <li>16 bit</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.

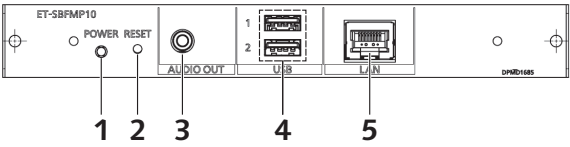
<sup>3</sup> Following profiles are not supported.

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.

Terminals



1	<b>Power indicator &lt;POWER&gt;</b> Indicates the status of this board.
2	<b>&lt;RESET&gt; button</b> This button initializes the network settings of the board. If you press and hold the button, the settings on the [System] menu → [Network] page of the Web control screen are initialized and the board reboots.
3	<b>&lt;AUDIO OUT&gt; terminal</b> This terminal is for outputting audio signals.
4	<b>&lt;USB&gt; terminals</b> These terminals are not used with this board.
5	<b>&lt;LAN&gt; terminal</b> This terminal is for connecting to a network.

Dimensions

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

