Panasonic

S P E C   F I L E

Product Name : Visual Software Suite 2.0

Software
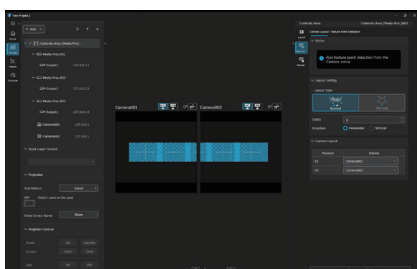
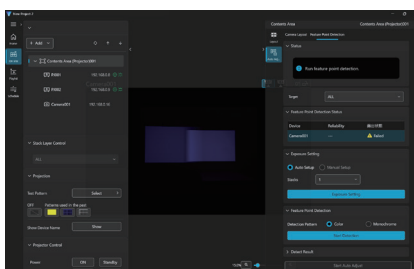# Visual Software Suite 2.0

Overview

Visual Software Suite 2.0 (VSS 2.0) is a free, Windows®-based platform that combines multiple functions into one intuitive graphical interface, enabling swift and efficient setup and onsite adjustments. Integrating and enhancing the capabilities of previously separate Panasonic software, it transforms your workflow into streamlined and cost-effective processes.
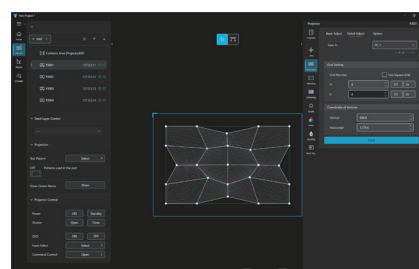
Software Highlights

Intuitive User Interface

- Simple to learn and master
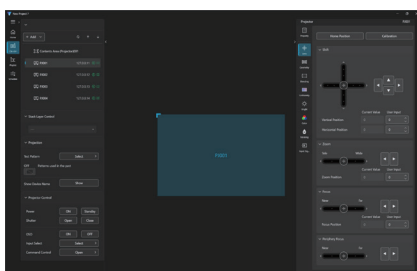- Easy navigation through four screens in operational order

Auto Calibration

- Auto geometry correction, blending, black level adjustment, color matching[1], and content splitting[2]
- Click to define the image projection area
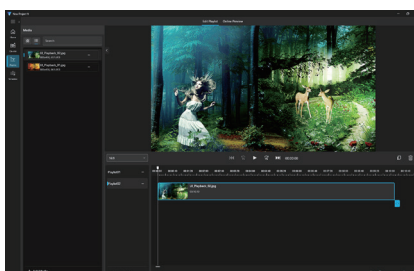- Works with one or more Nikon or IDS cameras

Warping & Color Adjustment

- Distortion correction, detail adjustment, free-shape masking
- Uniformity[3], color, brightness adjustment and control[3]
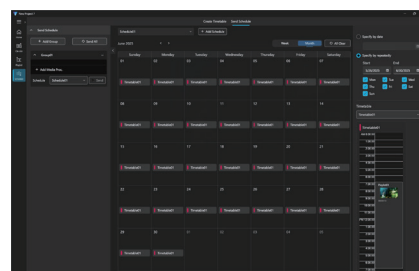- Manual edge blending adjustment

Projector Control[3]

- Lens shift, zoom, focus, and peripheral focus[4]
- Projector settings access via browser
- Power on/standby, shutter open/close
- Test pattern selection
- Command control, etc.

Playback Management[2]

- Supports multiple playlists
- Supports gapless media looping to prevent screen blanking
- Supports playback via external UDP commands
- Preview content on PC screen or projection screen

Automation & Scheduling[2]

- Create custom schedules for automated daily playback
- Simple, intuitive, labor-saving operation

1 Performed at the projector level only.
2 Described functions require use with an optional ET-FMP50 Series media processor.
3 Described functions requires use with compatible projectors.
4 Function supported on compatible projectors only. Please consult individual product specification for more information.

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System Requirements

OS	Microsoft Windows 11 (Windows 11 Home/Pro 64bit) Microsoft Windows 10 (Windows 10 Home/Pro 64bit)
CPU	Intel Core i5 (4-core) or higher
Memory	16GB or more
Available disk space	16GB or more (further available space is necessary to save content data)
Display	Resolution of 1600 x 900 pixels or higher
USB port	USB 2.0 or higher (when performing auto screen adjustment using a camera connected by USB)
LAN port	100Base-TX/1000Base-T
Switching hub	Must support PoE (Power over Ethernet) power supply (IEEE802.3af), and have a power supply compatible port that supports 1000BASE-T (when performing auto screen adjustment using a camera connected by LAN)

Note

- Smooth playback of movies may not be possible even in the above environment. When handling highresolution movies, we recommend an Intel Core i5 CPU or higher that is 11th generation of later.
- Note that the operation is not guaranteed when used in any system environment other than above (GPUs other than those manufactured by Intel, etc.), or when a home-made computer is used.

This does not guarantee the operation with all the computers fulfilling the above conditions.

Applicable Cameras

USB connected camera	Nikon	D5200/D5300/D5500/D5600/D7500/Z50/Z5
LAN connected camera	IDS	GV-5890CP-C-HQ

Note for Camera

- -In the case of 1 camera, you can select up to 4 projectors horizontally, up to 4 projectors for vertically, and up to 6 projectors stacked[1].
- - You can set 5 or more projectors either horizontally or vertically by using multiple cameras. The relationship between the number of projectors and the number of cameras is as follows.

Number of projectors	1 to 4	3 to 7	4 to 10	5 to 13	6 to 16	7 to 19
Number of cameras	1	2	3	4	5	6

- -In the case of a 360-degree curved screen, there needs to be 5 or more projectors and 3 or more cameras arranged vertically or horizontally.

Number of projectors	5 to 9	5 to 12	5 to 15	6 to 18
Number of cameras	3	4	5	6

1 Adjustments in stack configuration and adjustments for a 360-degree curved screen are not supported when controlling the media processor ET-FMP50 series.

Applicable Product Models

Please refer to the website below for detailed information.
https://docs.connect.panasonic.com/projector/products/vss/

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Content that can be registered

When used in conjunction with the ET-FMP50 series media processor, this product enables content registration and playback configuration.
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 [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.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

	mov	HAP (HAP 1)
		HAP Q [4]
			MPEG-4 AAC-LC	• Resolution
				Maximum: 3840 x 2160
				Minimum: 240 x 180
				• Frame rate
				With HAP (HAP 1):
				  25 fps/30 fps/50 fps/60 fps
				With HAP Q:
				  25 fps/30 fps
				• The Snappy codec option is not supported.
				• HAP Alpha and HAP Q Alpha are not
				  supported.	

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
4 Following models do not support HAP (HAP 1) / HAP Q codec.
   ET-FMP20, ET-SBFMP10

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.