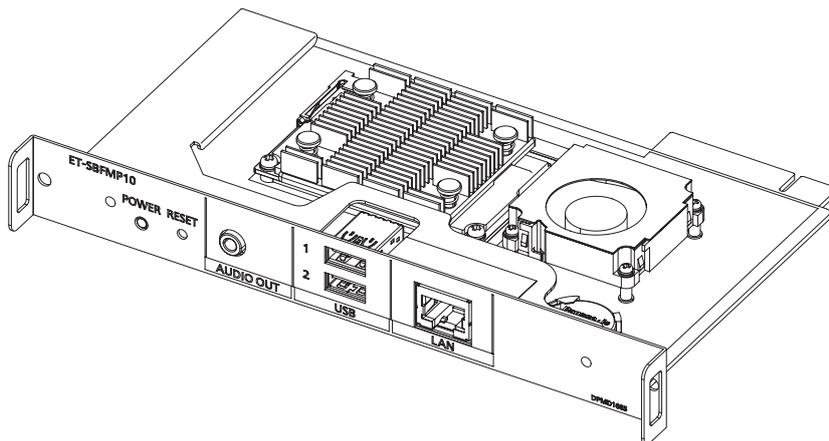


## Operating Instructions Functional Manual

Media Processor Board Commercial Use

Model No. **ET-SBFMP10**



Thank you for purchasing this Panasonic product.

- Before using this product, please read these “Operating Instructions” and the “Operating Instructions” of the projector carefully and save the manuals for future use.
- Before using this product, be sure to read “Read this first!” (➡ page 3).



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# Read this first!

## For USA-California Only

This product contains a CR Coin Cell Lithium Battery which contains Perchlorate Material – special handling may apply.  
See [www.dtsc.ca.gov/hazardouswaste/perchlorate](http://www.dtsc.ca.gov/hazardouswaste/perchlorate)

## EU Only



This CE mark covers the battery(ies) supplied with the product and indicates that the battery(ies) comply with the requirements of the Battery Regulation (EU) 2023/1542.

## WARNING

### THIS PRODUCT CONTAINS A COIN BATTERY



- **INGESTION HAZARD:** This product contains a button cell or coin battery.
- **DEATH** or serious injury can occur in 2 hours or less if swallowed or placed inside any part of the body.
- The battery is hazardous, **KEEP** new and used batteries **OUT OF REACH** of **CHILDREN**
- Seek immediate medical attention if a battery is suspected to be swallowed or inserted inside any part of the body.

### WARNING:

#### **Do not spill water on this product or allow this product to get wet.**

Doing so may cause electric shock, fire, or malfunction due to short circuit or overheating.

- Do not place a container with liquid close to this product.
- Consult your dealer when liquid such as water is spilled on this product.

#### **Do not place the supplied screws in a location that a child can reach.**

Accidentally swallowing them can cause a physical harm.

- Seek a medical advice immediately if a child might have swallowed a screw.

#### **Do not disassemble or modify.**

Doing so may cause electric shock or fire. It may also cause a malfunction.

### CAUTION:

#### **Do not place this product in a location with excessive humidity or dust, or in a location exposed to oil smoke or steam.**

Doing so may cause fire or electric shock.

#### **Do not place this product in extremely hot location.**

Doing so may deteriorate the part, or may cause fire.

- Do not install or store in a location with direct sunlight or close to the heating device, etc.

#### **Disconnect the power plug from the wall outlet before installing or removing this product to/from the projector.**

Failure to do so may cause electric shock.

---

## ■ Trademarks

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Please note that the ® and TM symbols are not specified in this manual.

## Software information regarding this product

This product incorporates the following types of software:

- (1) Software developed independently by Panasonic Connect Co., Ltd.
- (2) Software owned by a third party and licensed to Panasonic Connect Co., Ltd.
- (3) Software licensed under the GNU General Public License version 2.0 (GPL V2.0)
- (4) Software licensed under the GNU General Public License version 3.0 (GPL V3.0)
- (5) Software licensed under the GNU Lesser General Public License version 2.1 (LGPL V2.1)
- (6) Open-source software other than the software licensed under the GPL V2.0, GPL V3.0 and/or LGPL V2.1

Software categorized as (3) to (6) above is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY, including without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. For details, refer to the license terms and conditions for the respective open-source software.

The open-source software licenses are contained in the firmware of this product, and can be downloaded by accessing this product using a Web browser. For details, refer to “Using the web control function” (➡ page 19).

For at least three (3) years from delivery of this product, Panasonic Connect Co., Ltd. will give to any third party who contacts us at the contact information provided below, for a charge no more than our cost of physically performing source code distribution, a complete machine-readable copy of the corresponding source code covered under GPL V2.0, GPL V3.0, LGPL V2.1, or the other licenses with the obligation to do so, as well as the respective copyright notice thereof.

Contact Information: [oss-cd-request@gg.jp.panasonic.com](mailto:oss-cd-request@gg.jp.panasonic.com)

## ■ Illustrations in this manual

- Illustrations of this product, projector, menu screen (OSD), etc. may vary from the actual ones.
- The items actually displayed on the computer screen may differ depending on the model of your computer and its operating system and Web browser.

## ■ Reference pages

- Reference pages in this manual are indicated as (➡ page 00).

# Precautions for use

This product is a function board (hereinafter referred to as “board”) for use installed in a Panasonic Connect Co., Ltd. projector.

Installing the board in a projector enables scheduled playback of still image and movie content saved to the storage on the board and streaming playback via a network without the need for an external device or complicated wiring.

## Note

- For details on scheduled playback and streaming playback, refer to “Using the playback functions” (➔ page 41).
- To register the content and create the schedules to use for scheduled playback, use “Visual Software Suite.”
- The use of “Visual Software Suite” enables images that have been corrected for geometric distortion and images that have undergone edge blending adjustments to be generated in advance on the board and then output to the projector. Note that this output of corrected and adjusted images is limited to that performed via this board.

## Compatible projector models

This board can be used with the following projectors. However, the board cannot be used correctly if the firmware version of your projector is earlier than the following compatible firmware version. Use the board after updating the projector to the latest firmware.

(As of October 2024)

Compatible projector models	Compatible firmware versions
PT-RQ25K, PT-RQ18K	3.00 or later*1
PT-RZ24K, PT-RZ17K, PT-RZ14K	3.00 or later*1
PT-REQ15	2.00 or later
PT-REZ15	2.00 or later
PT-REQ12, PT-REQ10, PT-REQ80	3.00 or later*1
PT-REZ12, PT-REZ10, PT-REZ80	2.00 or later*1
PT-RQ7, PT-RQ6	2.00 or later*1
PT-RZ7, PT-RZ6	2.00 or later*1

\*1 Firmware compatible with this board is scheduled to be released sequentially from November 2024 onwards.

## Note

- This manual omits the alphabet letter at the end of projector model numbers.
- The board may also support projectors not included in the table. Check “Operating Instructions” of your projector. “Operating Instructions” of your projector can be checked from the following website.  
<https://docs.connect.panasonic.com/projector>
- The projector firmware version can be checked in the [PROJECTOR SETUP] menu → [STATUS] of the on-screen menu.
- For the update procedure of the projector firmware, check “Operating Instructions – Functional Manual” of your projector.
- If the projector firmware version is not compatible with this board, the board will be recognized as another company’s function board. When using the board installed in a projector included in the table, check the firmware version.

## Handling of the Function Board

- **Do not touch the connector section of the Function Board directly with your hands.**

The component may be damaged by the static electricity. Discharge any static electricity from your body by, for example, touching surrounding metal in advance of handling the Function Board.

## Security

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When using this board, you may be subjected to the following kinds of damage.

- Personal information being leaked via this board
- Unauthorized operation of this board by a malicious third party
- Interfering or stopping of operating this board by a malicious third party

Take sufficient security measures.

- Make your password as difficult to guess as possible.
- Change your password periodically.
- Note that Panasonic Connect Co., Ltd. or its affiliate companies will never ask for your password directly. Do not divulge your password in the event that you receive such any inquiry.
- Use this board on a secure network protected by a firewall and other security settings.

## Supported application software

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This board supports following application software.

- Visual Software Suite
- Multi Monitoring & Control Software

For details and downloading of “Visual Software Suite”, visit the following “Panasonic Professional Display and Projector Technical Support Website.”

<https://docs.connect.panasonic.com/projector/pass>

It is necessary to register and login to PASS\*1 to download from “Panasonic Professional Display and Projector Technical Support Website”.

\*1 PASS: Panasonic Professional Display and Projector Technical Support Website

For details and downloading of “Multi Monitoring & Control Software”, visit the following website.

<https://docs.connect.panasonic.com/projector>

## Disposal

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To dispose of this board, ask your local authorities or dealer for correct methods of disposal.

Also, dispose of the product without disassembling.

## Accessories

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Make sure that the following accessories are provided with this board. Numbers enclosed in < > show the number of accessories.

### Screws <2>

(XSB3+ 8FN)



### Attention

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- After unpacking, discard the packaging material properly.
- For missing accessories, consult your dealer.
- Store small parts in an appropriate manner, and keep them away from small children.

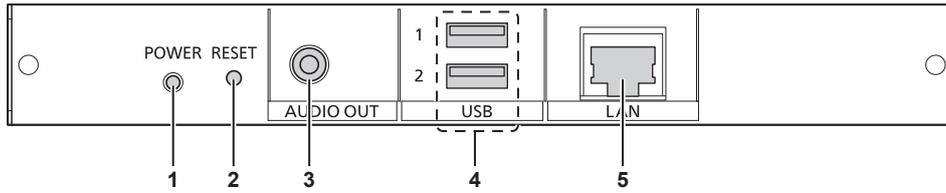
### Note

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- Supplied screws are spare parts. Use them if the screws to fix the slot cover of the projector are lost.
- The model numbers of accessories are subject to change without prior notice.

## About your board



- |   |  |
|---|--|
| <p><b>1 Power indicator &lt;POWER&gt;</b><br/>Indicates the status of this board.</p> <p><b>2 &lt;RESET&gt; button</b><br/>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.</p> | <p><b>3 &lt;AUDIO OUT&gt; terminal</b><br/>This terminal is for outputting audio signals.</p> <p><b>4 &lt;USB&gt; terminals</b><br/>These terminals are not used with this board.</p> <p><b>5 &lt;LAN&gt; terminal</b><br/>This terminal is for connecting to a network.</p> |
|---|--|

### Attention

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

### Note

- When you initialize the settings on the [System] menu → [Network Settings] page of the Web control screen of the board, the board is disconnected from the network. Also, the account settings are also initialized. After rebooting of the board completes, configure the network settings and account settings again. Even if you initialize the settings on the [System] menu → [Network] page of the board, the settings in the [NETWORK] menu of the projector will not be initialized. The network connection of the projector is maintained.

## Power indicator

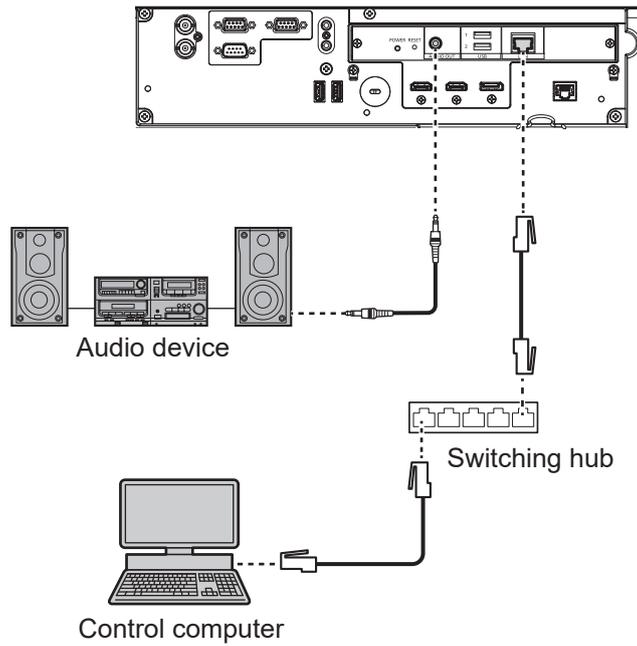
You can check the status of the board from the power indicator <POWER>.

Lighting status		Status of the board
Off		Power is not being supplied to the board from the projector.
Green	On	Operating.
	Blinking	Initializing the settings of the board. Or, updating the firmware. The board will restart automatically after the initialization or update completes.
Orange	On	Starting. The indicator will switch to the operating state (lit green) after a while.
Red	On	A warning has occurred.
	Blinking	An error has occurred.

### Note

- The board initiates OS startup after power supply from the projector begins. The power indicator <POWER> is lit in orange for approximately 1 minute until the OS startup completes and the board enters the operating state.
- For the symbol displayed in [Error / Warning] and the corresponding details and measure to take, refer to “About the Self-Diagnostics Display” (➔ page 44).
- The power indicator <POWER> may not light or blink depending on the settings of [Mode] and [Notifications] of [System] menu → [Details] page (➔ page 37) on the Web control screen.

## Connection example



### Attention

- The LAN cable connected directly to this board and the projector must be indoors only.
- When connecting this board to a projector, computer, or other external device, use the power cord supplied with the respective device and a commercially available shielded cable.

### Note

- A LAN cable is required to use the network function.
- Use a straight or crossover LAN cable that is compatible with CAT5e or higher. Either the straight or the crossover cable, or both cables can be used depending on the system configuration. Consult your network administrator. This board will determine the type of the cable (straight or crossover) automatically.
- Use a LAN cable that is no longer than 100 m (328'1").
- Only the audio signals of the content being played in a schedule or audio signals of content played by streaming using the board are output from the <AUDIO OUT> terminal. The audio signals input to the HDMI terminal, DisplayPort terminal, and DIGITAL LINK terminal equipped as standard in the projector are not output.
- To use "Visual Software Suite" to manage the content of the board or perform detailed setup of the output video of the board, connect the <LAN> terminal of the board to the network.
- You can also use the <LAN> terminal of the board to access the network functions of the projector via the hub on the board.
- To transmit Ethernet signals using the <LAN> terminal equipped as standard in the projector, set the [NETWORK] menu → [ETHERNET TYPE] to [LAN] or [LAN & DIGITAL LINK].
- To transmit Ethernet and serial control signals using the <DIGITAL LINK IN/LAN> terminal equipped as standard in the projector, set the [NETWORK] menu → [ETHERNET TYPE] to [DIGITAL LINK] or [LAN & DIGITAL LINK].
- To transmit the Ethernet signals using the <LAN> terminal of the board, set the [NETWORK] menu → [ETHERNET TYPE] to [LAN [SLOT]].
- The <LAN> terminal and <DIGITAL LINK IN/LAN> terminal equipped as standard in the projector are connected inside of the projector when [ETHERNET TYPE] is set to [LAN & DIGITAL LINK]. Do not directly connect the <LAN> terminal and <DIGITAL LINK IN/LAN> terminal equipped as standard in the projector using a LAN cable. Construct the system so that it is not connected to the same network via the peripherals such as the hub or the twisted-pair-cable transmitter.

# Installing or Removing the Function Board

It is recommended to ask a qualified technician to install or remove the Function Board to a projector. A malfunction may occur due to static electricity. Consult your dealer.

## Before installing or removing the Function Board

- Always turn off the power of the projector before installing or removing the Function Board. Make sure to follow the procedure described in the Operating Instructions of your projector when turning off the power.
- Do not touch the connector section of the Function Board directly with your hands. The component may be damaged by the static electricity.
- To prevent the static electricity damage, remove the static electricity in your body by touching the surrounding metal, etc. beforehand.
- Take care not to get injured when installing or removing the Function Board. Hands may be injured by the opening of the blank slot of the projector or the edge of the bracket of the Function Board.
- When installing the Function Board to the slot, insert it into the connector straight and slowly. It may not operate or cause malfunction if it is not correctly installed.
- The illustrations in the procedures are examples when installing the Function Board in the PT-REQ15.

## How to install the Function Board

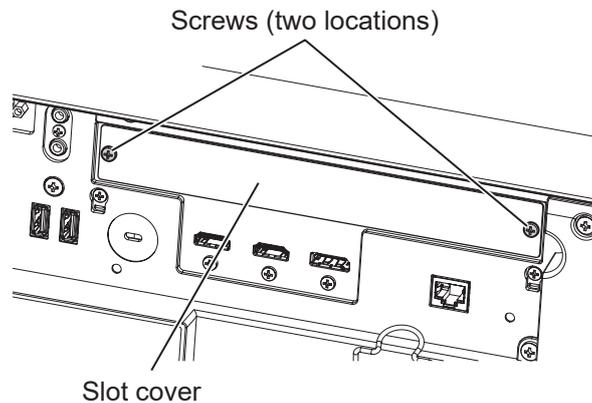


Fig. 1

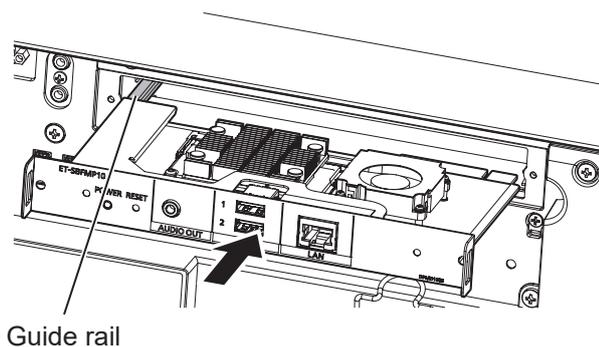


Fig. 2

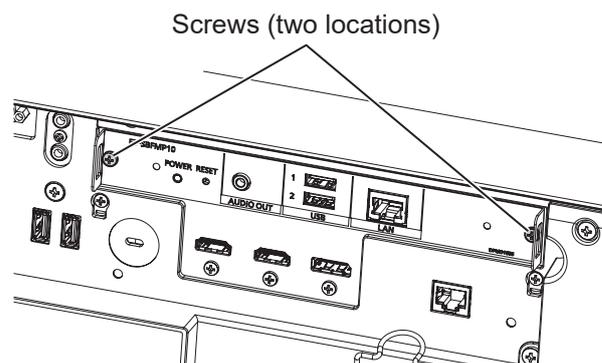


Fig. 3

### 1) Remove the slot cover. (Fig. 1)

- Remove the two screws fixing the slot cover of the projector by rotating counterclockwise with a Phillips screwdriver. The removed screws are used to fix the Function Board.
- When removing the second screw, hold the slot cover with your hand so it will not fall.
- To replace from other Function Board, remove the Function Board following the procedure in “How to remove the Function Board” (➔ page 10).

### 2) Install the Function Board to the projector. (Fig. 2)

- Insert the Function Board along the grooves of the guide rails on the left and right inside the slot. Insert the bracket firmly all the way in.

### 3) Fix the Function Board. (Fig. 3)

- Tighten and fix with the two screws removed in Step 1).

#### Attention

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- The removed slot cover is required when the unnecessary Function Board is removed. Store it so it can be attached in the future.

## How to remove the Function Board

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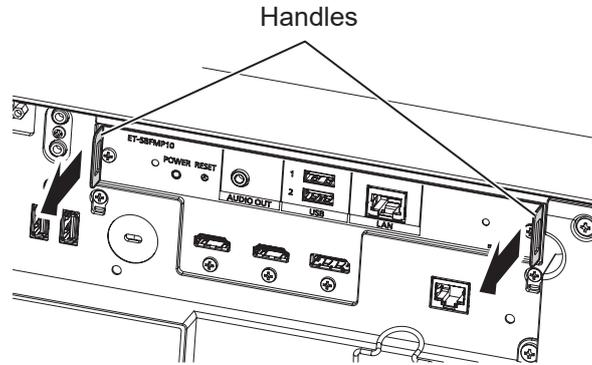


Fig. 1

### 1) Remove the Function Board. (Fig. 1)

- Remove the two screws fixing the Function Board by rotating counterclockwise with a Phillips screwdriver. The removed screws are used to fix the slot cover.
- Hold the handle of the Function Board and remove it slowly.

### 2) Attach the slot cover.

- Attach the stored slot cover to the blank slot, and tighten and fix with the two screws removed in Step 1).

#### Attention

---

- Always attach the slot cover on the blank slot.
- Store the removed Function Board inside an antistatic bag.

# Selecting the input signal

The methods to switch the input of the image to project are as follows.

- Press the input selection button on the remote control or control panel of the projector to directly specify the input of the image to project.
- Display the input selection screen and select the input of the image to project from the list.

## Switching the input directly

Switch the image to project by specifying the input directly.

- 1) **Press the <SLOT 1> button or <SLOT> button on the remote control or control panel of the projector.**
  - The input switches to the image output from the board.

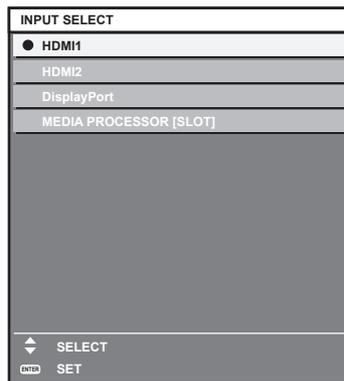
### Note

- Set switching of the playback image (scheduled playback or streaming playback) to output from the board on the [Player] menu → [Settings] page of the Web control screen of the board (➔ page 26).

## Switching the input by displaying the input selection screen

The input of the image for projection can be selected by displaying the input selection screen.

- 1) **Press the <INPUT MENU> button on the remote control or control panel of the projector.**
  - The input selection screen is displayed.
  - The following input selection screen is an example when installing the board in a slot of the PT-REQ15.



- 2) **Press the <INPUT MENU> button again.**
  - The input will switch each time you press the <INPUT MENU> button.
  - If you select [MEDIA PROCESSOR [SLOT]], the input switches to the image output from the board.

### Note

- Input can be switched by pressing ▲▼ to select the input of the image for projection and pressing the <ENTER> button while the input selection screen is displayed.
- Set switching of the playback image (scheduled playback or streaming playback) to output from the board on the [Player] menu → [Settings] page of the Web control screen of the board (➔ page 26).
- The display for the input varies depending on the installed Function Board. For details about when using other than this board, check "Operating Instructions" of your projector.

# On-screen menu

This section describes the on-screen menu (menu screen) items that become operable by installing the board in a slot of the projector.

This section additionally explains the items with ✓ in the following table for supported projectors. Refer to the explanations together with “Operating Instructions – Functional Manual” of your projector.

On-screen menu		PT-RQ25K PT-RQ18K PT-RZ24K PT-RZ17K PT-RZ14K	PT-REQ15 PT-REQ12 PT-REQ10 PT-REQ80	PT-REZ15 PT-REZ12 PT-REZ10 PT-REZ80	PT-RQ7 PT-RQ6 PT-RZ7 PT-RZ6
Main menu item	Detailed menu item				
[DISPLAY OPTION]	[SLOT IN]	✓	✓	✓	✓
[PROJECTOR SETUP]	[SLOT SETTING]	✓	✓	✓	✓
	[SECONDARY INPUT]	✓	✓	✓	✓
	[STARTUP INPUT SELECT]	✓	✓	✓	✓
	[SCHEDULE]	✓	✓	✓	✓
	[REMOTE2 MODE]	✓	✓	✓	—
	[STATUS]	✓	✓	✓	✓
[NETWORK]	[ETHERNET TYPE]	✓	✓	✓	✓

## Note

- This manual explains only the operations available when the board is installed.

## [SLOT IN]

When the board is installed in a slot, you can set [SIGNAL LEVEL].

- 1) Select [DISPLAY OPTION] from the main menu.
- 2) Press the <ENTER> button.
  - The [DISPLAY OPTION] screen is displayed.
- 3) Press ▲▼ to select [SLOT IN].
- 4) Press the <ENTER> button.
  - The [SLOT IN] screen is displayed.
- 5) Press ◀▶ to switch [SIGNAL LEVEL].
  - The items will switch each time you press the button.

[AUTO]	Automatically sets the signal level.
[64-940]	Fixes to [64-940].
[0-1023]	Fixes to [0-1023].

## [SLOT SETTING]

Set the power supply to the slot.

## [SLOT STANDBY]

- 1) Select [PROJECTOR SETUP] from the main menu.
- 2) Press the <ENTER> button.
  - The [PROJECTOR SETUP] screen is displayed.
- 3) Press ▲▼ to select [SLOT SETTING].
- 4) Press the <ENTER> button.
  - The [SLOT SETTING] screen is displayed.
- 5) Press ▲▼ to select [SLOT STANDBY].
- 6) Press ◀▶ to switch the item.
  - The items will switch each time you press the button.

[ENABLE]	The power is supplied to the board even when the projector is in standby mode.
[DISABLE]	The power supply to the board is stopped when the projector goes into standby mode.

### Note

- [SLOT POWER ON] and [SLOT FORCED TERMINATION] are fixed to [DISABLE] when the board is installed.

## [SECONDARY INPUT]

Set the secondary input switching function that will automatically switch to the specified input when the input signal of projecting image is discontinued.

- 1) Select [PROJECTOR SETUP] from the main menu.
- 2) Press the <ENTER> button.
  - The [PROJECTOR SETUP] screen is displayed.
- 3) Press ▲▼ to select [NO SIGNAL SETTING].
- 4) Press the <ENTER> button.
  - The [NO SIGNAL SETTING] screen is displayed.
- 5) Press ▲▼ to select [SECONDARY INPUT].
- 6) Press the <ENTER> button.
  - The [SECONDARY INPUT] screen is displayed.
- 7) Press ▲▼ to select the input to be specified as the switching destination, and press the <ENTER> button.

[MEDIA PROCESSOR [SLOT]]	Sets the secondary input to "MEDIA PROCESSOR".
-----------------------------	--

## [STARTUP INPUT SELECT]

Set the input when the projector is switched on to start projection.

- 1) Select [PROJECTOR SETUP] from the main menu.
- 2) Press the <ENTER> button.
  - The [PROJECTOR SETUP] screen is displayed.
- 3) Press ▲▼ to select [STARTUP INPUT SELECT].
- 4) Press the <ENTER> button.
  - The [STARTUP INPUT SELECT] screen is displayed.
- 5) Press ▲▼ to select the input, and press the <ENTER> button.

[MEDIA PROCESSOR [SLOT]]	Sets the input to "MEDIA PROCESSOR".
-----------------------------	--------------------------------------

## [SCHEDULE]

Set the command execution schedule for each day of the week.

### Enabling/disabling the schedule function

- 1) Select [PROJECTOR SETUP] from the main menu.
- 2) Press the <ENTER> button.
  - The [PROJECTOR SETUP] screen is displayed.
- 3) Press ▲▼ to select [SCHEDULE].
- 4) Press ◀▶ to switch the item.
  - The items will switch each time you press the button.

[OFF]	Disables the schedule function.
[ON]	Enables the schedule function. Refer to "How to assign a program" (➔ page 14) or "How to set a program" (➔ page 15) for how to set the schedule.

### How to assign a program

- 1) Select [PROJECTOR SETUP] from the main menu.
- 2) Press the <ENTER> button.
  - The [PROJECTOR SETUP] screen is displayed.
- 3) Press ▲▼ to select [SCHEDULE].
- 4) Press ◀▶ to select [ON], and press the <ENTER> button.
  - The [SCHEDULE] screen is displayed.
- 5) Select and assign a program to each day of week.
  - Press ▲▼ to select the day of week, and press ◀▶ to select a program number.
  - You can set the program from No.1 to No.7. "--" indicates that the program number has not been set.

**How to set a program**

- 1) Select [PROJECTOR SETUP] from the main menu.
- 2) Press the <ENTER> button.
  - The [PROJECTOR SETUP] screen is displayed.
- 3) Press ▲▼ to select [SCHEDULE].
- 4) Press ◀▶ to select [ON], and press the <ENTER> button.
  - The [SCHEDULE] screen is displayed.
- 5) Press ▲▼ to select [PROGRAM EDIT].
- 6) Press ◀▶ to select a program number, and press the <ENTER> button.
- 7) Press ▲▼ to select a command number, and press the <ENTER> button.
  - You can change the page using ◀▶.
- 8) Press ▲▼◀▶ to select [TIME], and press the <ENTER> button.
  - The projector is in the adjustment mode (the time is blinking).
- 9) Press ▲▼ to select “hour” or “minute”, and press ◀▶ or the number (<0> - <9>) buttons to set a time, and then press the <ENTER> button.
- 10) Press ▲▼◀▶ to select [COMMAND].
- 11) Press the <ENTER> button.
  - The [COMMAND] detailed screen is displayed.
- 12) Press ▲▼ to select [INPUT] and press the <ENTER> button.
- 13) Press ▲▼ to select the input to be set.

[COMMAND]	Detailed settings of [COMMAND]	Description
[INPUT]	[MEDIA PROCESSOR [SLOT]]	Switches the input to “MEDIA PROCESSOR”.

- 14) Press the <ENTER> button.
  - The command is fixed and ● is displayed at the left of the selected command.
  - After the command is fixed, press the <MENU> button to close the detailed setting screen.
- 15) Press ▲▼◀▶ to select [STORE], and press the <ENTER> button.

**Note**

- To delete a command that has been already set, press the <DEFAULT> button on the remote control while the screen in Step 7) is displayed, or select [DELETE] at the screen in Step 8) and press the <ENTER> button.
- If multiple commands have been set for the same time, they are executed in chronological order starting from the smallest command number.
- The operating time will be the local time set in the projector.
- If an operation is executed with the remote control or control panel of the projector or with a control command before the command set in [SCHEDULE] is executed, the command set with the schedule function may not be executed.

## [REMOTE2 MODE]

You can set the <REMOTE 2 IN> terminal.

- 1) Select [PROJECTOR SETUP] from the main menu.
- 2) Press the <ENTER> button.
  - The [PROJECTOR SETUP] screen is displayed.
- 3) Press ▲▼ to select [REMOTE2 MODE].
- 4) Press ◀▶ to switch [USER].
  - The items will switch each time you press the button.

[DEFAULT]	Uses pin assignment of the <REMOTE 2 IN> terminal in standard setting of the projector.
[USER]	Changes the setting of the <REMOTE 2 IN> terminal.

- 5) Press the <ENTER> button.
  - The [REMOTE2 MODE] screen is displayed.
- 6) Press ▲▼ to select one from [PIN3] to [PIN7], and press ◀▶ to switch the setting.
  - The items will switch each time you press the button.

[MEDIA PROCESSOR [SLOT]]	Sets the item to the "MEDIA PROCESSOR" input.
-----------------------------	---

## [STATUS]

When the board is installed in a slot, you can check the model number of the board.

- 1) Select [PROJECTOR SETUP] from the main menu.
- 2) Press the <ENTER> button.
  - The [PROJECTOR SETUP] screen is displayed.
- 3) Press ▲▼ to select [STATUS].
- 4) Press the <ENTER> button.
  - The [STATUS] screen is displayed.
- 5) Press ◀▶ to switch the pages.
  - The page will change each time you press the button.

[SLOT]	Displays the model number (ET-SBFMP10) of the board installed in the slot. Note that this board does not support firmware version display.
--------	---

## [ETHERNET TYPE]

Set the transmission path of the Ethernet signal.

- 1) Select [NETWORK] from the main menu.
- 2) Press the <ENTER> button.
  - The [NETWORK] screen is displayed.
- 3) Press ▲▼ to select [ETHERNET TYPE].
- 4) Press the <ENTER> button.
  - The [ETHERNET TYPE] screen is displayed.
- 5) Press ▲▼ to select an item.

[LAN]	Select this item when using only the <LAN> terminal equipped as standard in the projector to transmit Ethernet signals.
[DIGITAL LINK]*1	Select this item when using only the <DIGITAL LINK IN/LAN> terminal equipped as standard in the projector to transmit Ethernet signals.
[LAN [SLOT]]	Select this item when using only the <LAN> terminal of the board to transmit Ethernet signals.
[LAN & DIGITAL LINK]*1	Select this item when using the <LAN> terminal and <DIGITAL LINK IN/LAN> terminal equipped as standard in the projector to transmit Ethernet signals.

\*1 You can select this item for a projector with the <DIGITAL LINK IN/LAN> terminal equipped as standard.

- 6) Press the <ENTER> button.

### Note

- When [ETHERNET TYPE] is set to [LAN] or [LAN [SLOT]], the Ethernet and serial control signals cannot be transmitted via an optional DIGITAL LINK output compatible device (model no.: ET-YFB100G or ET-YFB200G) connected to the <DIGITAL LINK IN/LAN> terminal equipped as standard in the projector.
- The <LAN> terminal and <DIGITAL LINK IN/LAN> terminal equipped as standard in the projector are connected inside of the projector when [ETHERNET TYPE] is set to [LAN & DIGITAL LINK]. Do not directly connect the <LAN> terminal and <DIGITAL LINK IN/LAN> terminal equipped as standard in the projector using a LAN cable. Construct the system so that it is not connected to the same network via the peripherals such as the hub or the twisted-pair-cable transmitter.

## Information monitor function

This section describes the information monitor function that becomes operable by installing the board in a slot of the projector.

For the items with ✓ in the following table, [MEDIA PROC.] is displayed in the “INPUT” corresponding to the images output from the board. Refer to the explanations together with “Operating Instructions – Functional Manual” of your projector.

Information monitor function		PT-RQ25K PT-RQ18K PT-RZ24K PT-RZ17K PT-RZ14K	PT-REQ15 PT-REQ12 PT-REQ10 PT-REQ80	PT-REZ15 PT-REZ12 PT-REZ10 PT-REZ80	PT-RQ7 PT-RQ6 PT-RZ7 PT-RZ6
Top menu item	Sub-menu item				
[USER VIEW]	—	✓	—	—	—
[STATUS]	[PROJECTOR]	✓	—	—	—

## Web control function of projector

This section describes the Web control function of the projector that becomes operable by installing the board in a slot of the projector.

For the items with ✓ in the following table, “MEDIA PROCESSOR” is displayed in the “INPUT” corresponding to the images output from the board. Refer to the explanations together with “Operating Instructions – Functional Manual” of your projector.

On-screen menu		PT-RQ25K PT-RQ18K PT-RZ24K PT-RZ17K PT-RZ14K	PT-REQ12 PT-REQ10 PT-REQ80	PT-REZ12 PT-REZ10 PT-REZ80	PT-REQ15 PT-REZ15 PT-RQ7 PT-RQ6 PT-RZ7 PT-RZ6
Main menu item	Detailed menu item				
[Status]	[Remote preview lite]	✓	✓	✓	—
	[Projector status]	✓	✓	✓	—
[Projector control]	[Basic control]	✓	✓	✓	—
	[Detail control]	✓	✓	✓	—
[Home]	[Input]	—	—	—	✓
[Status]	—	—	—	—	✓
[Installation]	[OSD control]	—	—	—	✓
	[Schedule]	—	—	—	✓

# Using the web control function

This board is equipped with a network function, which enables the following to be performed by accessing the board from a computer.

- Configuring various settings of the board
- Displaying the status of the board
- Setting and operating the playback functions
- Updating the firmware of the board
- Accessing the network functions of the projector with the board installed

When using the playback functions, refer to the following section as well.

- “Using the playback functions” (➔ page 41)

## Note

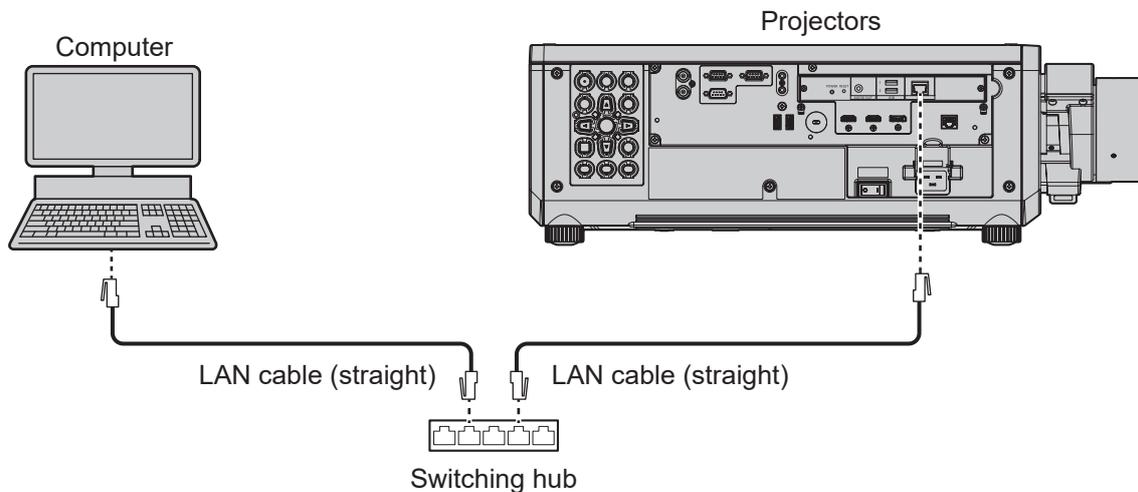
- To use the network function of the board, you need to set an account (user name and password) (➔ page 21).  
The network function of the board cannot be used if an account is not set.  
The accounts of the board are classified into the administrator account and standard user accounts. A set account can be used as the administrator account.

## Supported computers

A web browser is required to use the web control function. Confirm beforehand that the web browser can be used.

OS	Supported browser
Windows	Microsoft Edge
Mac OS	Safari 17.0

## Connection example



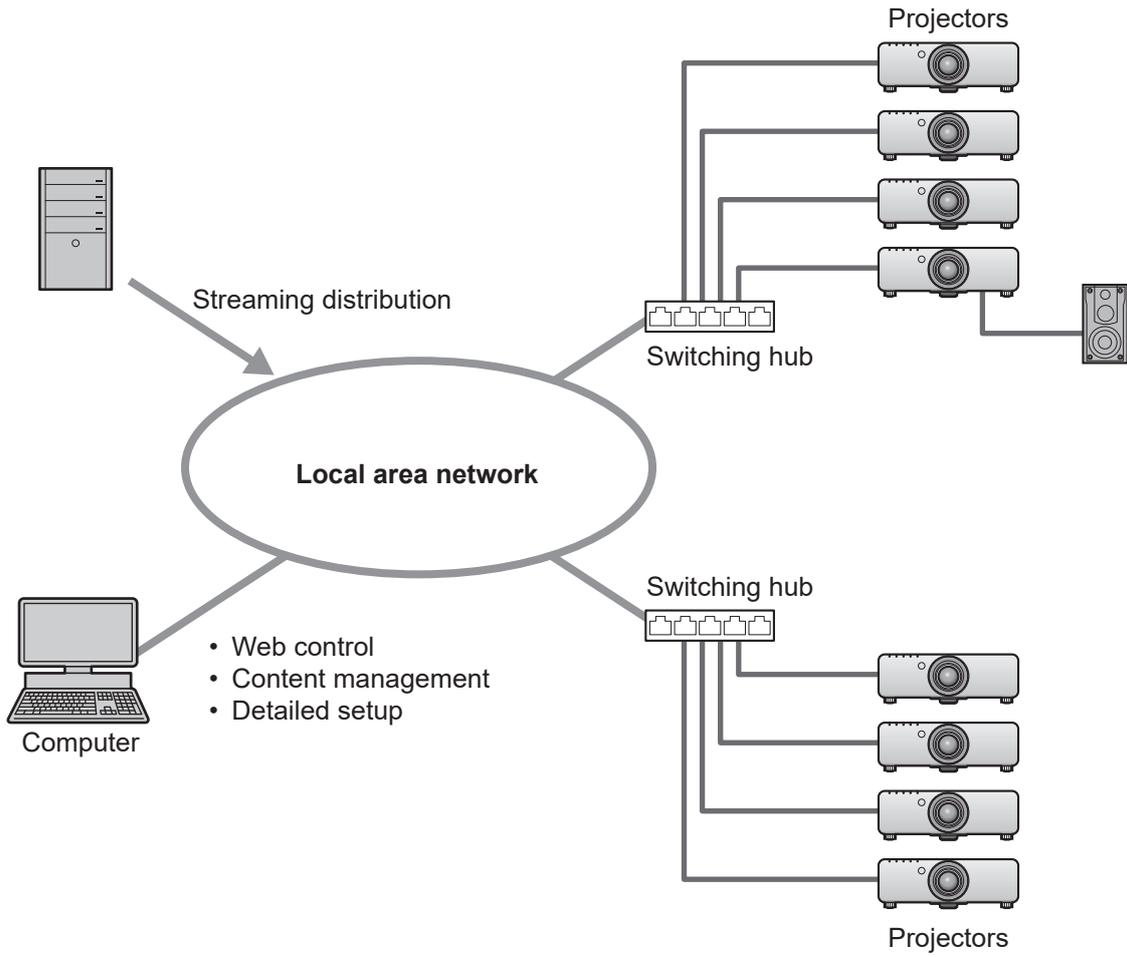
## Attention

- The LAN cable connected directly to this board and the projector must be indoors only.

## Note

- A LAN cable is required to use the network function.
- Use a straight or crossover LAN cable that is compatible with CAT5e or higher. Either the straight or the crossover cable, or both cables can be used depending on the system configuration. Consult your network administrator. This board will determine the type of the cable (straight or crossover) automatically.
- Use a LAN cable that is no longer than 100 m (328'1").
- You can also use the <LAN> terminal of the board to access the network functions of the projector via the hub on the board.

■ Image of operation



## Setup

The network settings are preset on the board.

When using the board for the first time or when the network settings of the board have been initialized, you need to change the settings according to the network environment to be connected for operation. Therefore, change the settings following the instructions from your network administrator.

In addition, when using the board for the first time or when all of the user setting data has been initialized, the time zone will be that set at the time of shipment from the factory. Set the time zone to match the location of use.

In addition, when using the board for the first time or when the network settings of the board have been initialized, also set an account because no account will be set.

**1) Connect a computer and the board with a LAN cable.**

- Connect the computer to use for setup and the board installed in the projector via a LAN cable.

**2) Turn on the computer and the projector.**

**3) Configure the network settings of the computer.**

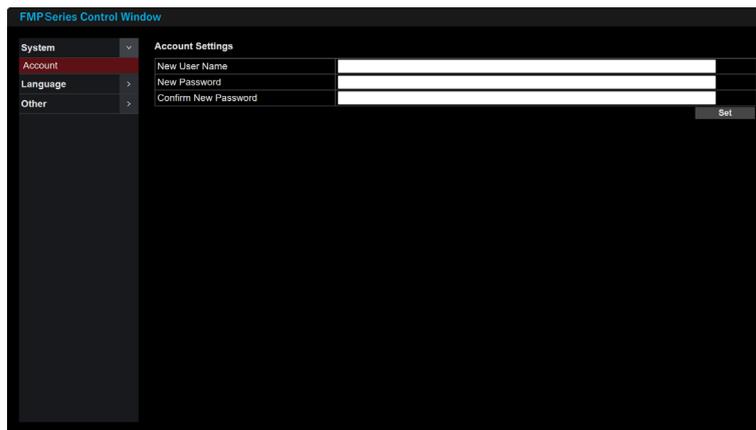
- If you configure the settings as follows, a network connection to the board will be established.

[IP Address]	192.168.0.10
[Subnet Mask]	255.255.255.0
[Default Gateway]	192.168.0.1

**4) Start up the web browser on the computer.**

**5) Access the Web control function of the board from a web browser.**

- Enter the IP address (192.168.0.9) preset on this board in the URL entry field of the web browser.
- The [Account] page of the Web control screen appears.



**6) Enter the user name in [New User Name]**

- Enter the user name to be used as the account name.
- A user name of up to 16 single-byte characters can be set for the user name.

**7) Enter the password in [New Password]**

- Enter the password to set for the account.
- The password setting cannot be left blank.
- A password of up to 16 single-byte characters can be set.
- It is recommended that the password contains at least three of the following four kinds of characters.
  - Uppercase alphabet letters
  - Lowercase alphabet letters
  - Numerals
  - Special symbols (~!@#\$%^&\*()\_+|\}{}[][<>./?'')

**8) Enter the password in [Confirm New Password]**

- Enter the password entered in step 7.

9) Click [Set].

- Setting of the account is now complete.
- The login screen for entering the user name and password appears.
- The login screen may be hidden by another window that is already open. If that happens, minimize the window in the foreground to display the login screen.

10) Enter the user name and password of the account.

11) Click [Sign in] or [OK].

- The [Date and Time] page of the Web control screen appears.



12) Change the time zone setting.

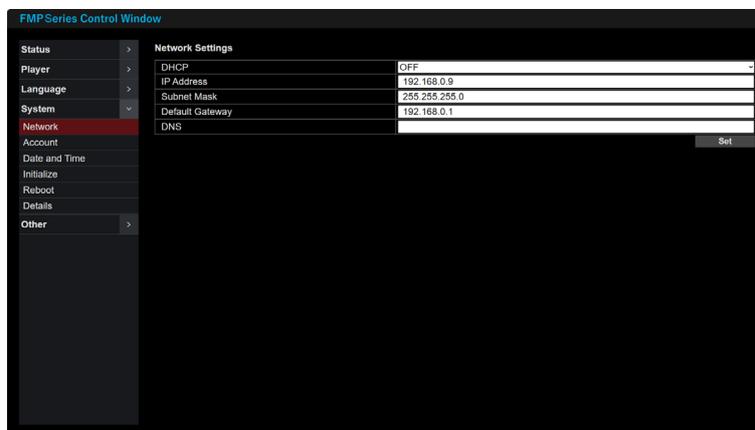
- Select the region and city in [Location] to match the location of use.
- For details on operating the Web control screen, refer to “Accessing from the web browser” (➔ page 23).

13) Click [Set].

- The time zone setting is applied.

14) Click the [System] menu → [Network].

- The [Network] page appears.



15) Change the network settings.

- Change the setting of each item according to the network environment to be connected for operation.
- The items are set as follows at the time of shipment from the factory or when the network settings have been initialized.

[DHCP]	OFF
[IP Address]	192.168.0.9
[Subnet Mask]	255.255.255.0
[Default Gateway]	192.168.0.1
[DNS]	None

16) Click [Set].

- When this is clicked, a confirmation screen appears. Select [OK].
- The entered network settings are applied.
- If the settings were changed from the factory default settings, the connection with the computer used for setup is disconnected. If necessary, change the network settings of the computer.

Note

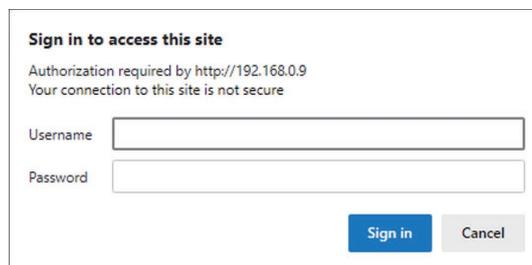
- The accounts of the board are classified into the administrator account and standard user accounts. A set account can be used as the administrator account.
- When using the board for the first time or when the network settings of the board have been initialized, the Web control screen is displayed in English. The language can be changed to Japanese on the [Language] menu → [Language] page.

Accessing from the web browser

1) Start up the web browser on the computer.

2) Access the board from the web browser.

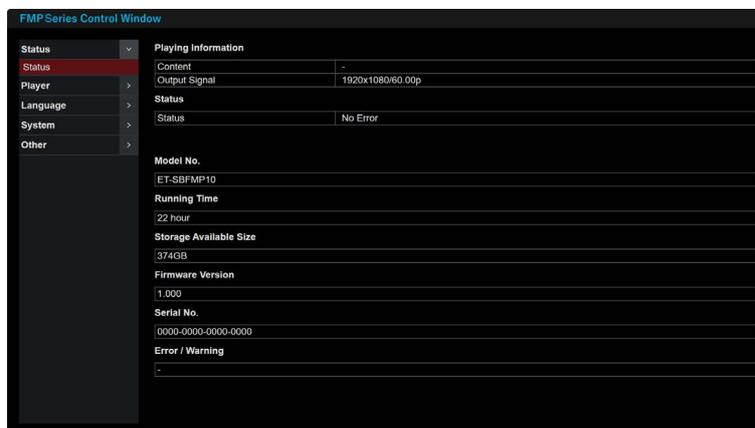
- Enter the IP address set on this board in the URL entry field of the web browser.
- The login screen for entering the user name and password appears.



3) Enter the user name and password of the account.

4) Click [Sign in] or [OK].

- The [Status] page of the Web control screen appears.



Attention

- The login screen may be hidden behind another window that is already open. If that happens, minimize the window in the foreground to display the login screen.

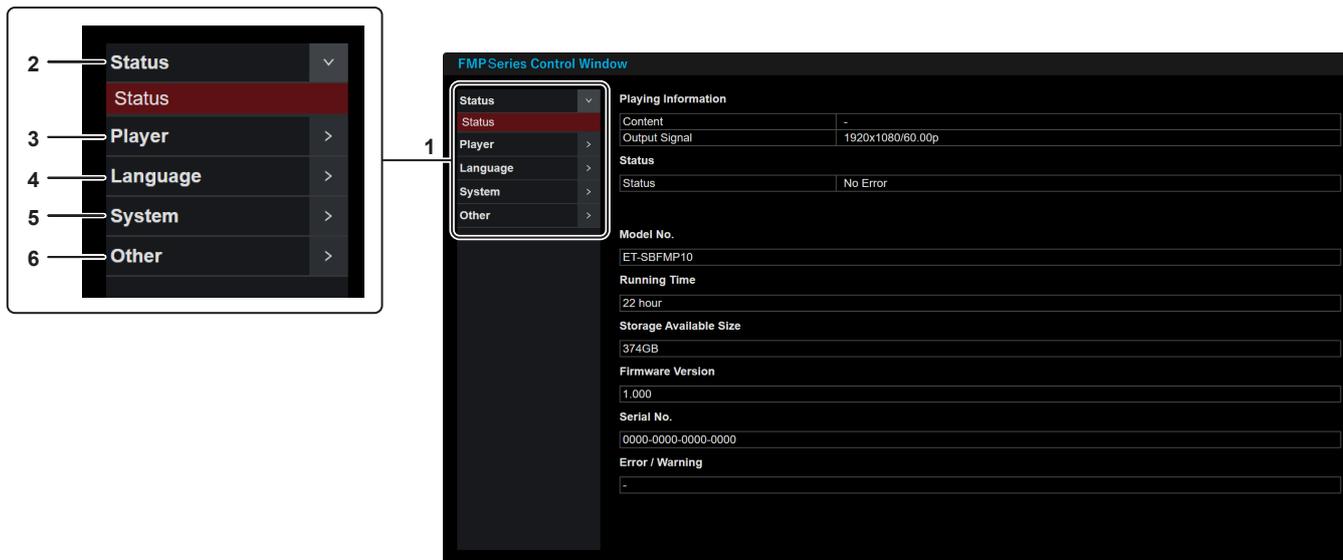
### Note

- Avoid starting up multiple web browsers and then performing setting or operation simultaneously. Also, avoid setting or operating a specific board from multiple computers simultaneously.
- Some items on the Web control screen of the board use the JavaScript function of the web browser. Correct control may not be possible when the web browser is set not to use this function.
- If the Web control screen is not displayed, consult your network administrator.
- When the display of the Web control screen is updated, the images output from the board may appear white for a moment, but this is not a malfunction.

### Illustrations of computer screens

The size or the display of screens may differ from the screen examples in this manual depending on the OS, browser, or type of the computer in use.

### Description of items



#### 1 Page selection menu

This is an accordion style menu for selecting the page to display. Click an upper-level menu item to display the hidden lower-level menu items. Click the upper-level menu item again to hide the lower-level menu items.

#### 2 [Status]

This displays the menu item for displaying the information and status of the board. (➡ page 25)

#### 3 [Player]

This displays the menu items for setting the playback functions and performing audio control and streaming content operations. (➡ page 26)

#### 4 [Language]

This displays the main item for selecting the display language. (➡ page 30)

#### 5 [System]

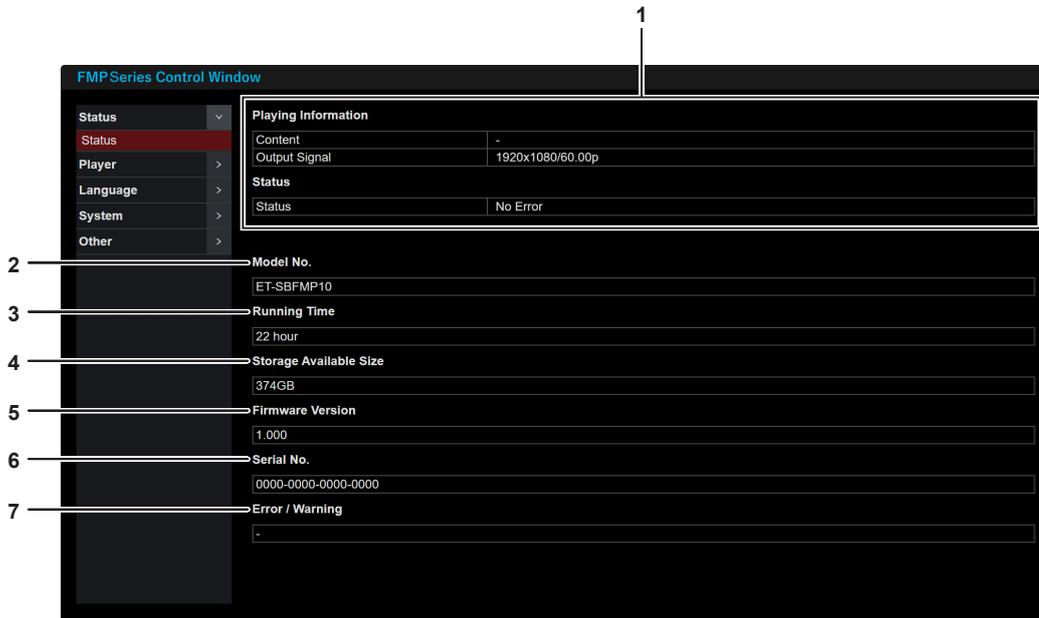
This displays the menu items for configuring the network settings, changing the account information, setting the date and time, initializing the settings, rebooting the board, and configuring the detailed settings of the board. (➡ page 31)

#### 6 [Other]

This displays the menu items for performing the following operations.  
 Updating the firmware (➡ page 38)  
 Downloading the open-source software licenses (➡ page 39)  
 Downloading the error/warning occurrence log (➡ page 40)

**[Status]****[Status] page**

This page displays the information and status of the board.  
Click the [Status] menu → [Status].

**■ [Playing Information]**

When [Player] is set to [Schedule]



When [Player] is set to [NDI (NDI Decoder)]

**1 [Playing Information]**

Displays information on the content being played in a schedule or content being played by streaming. The displayed information differs depending on the setting of [Player] menu → [Settings] → [Player] (➡ page 26).

**2 [Model No.]**

Displays the model number of the board.

**3 [Running Time]**

Displays the running time of the board. The time passes even if content is not played.

**4 [Storage Available Size]**

Displays the available space in the storage on the board.

**5 [Firmware Version]**

Displays the firmware version of the board.

**6 [Serial No.]**

Displays the serial number of the board.

**7 [Error / Warning]**

Indicates the details of an error/warning with a symbol if an error/warning has occurred on the board. For information on the details, refer to "About the Self-Diagnostics Display" (➡ page 44).

**8 [Content]**

Displays the name of the content being played in a schedule. "—" is displayed when playback is stopped.

**9 [Output Signal]**

Displays the signal format of the content being played. "—" is displayed when playback is stopped or the signal is interrupted.

**10 [Status]**

Displays the status of the content being played.

**11 [NDI Input Signal]**

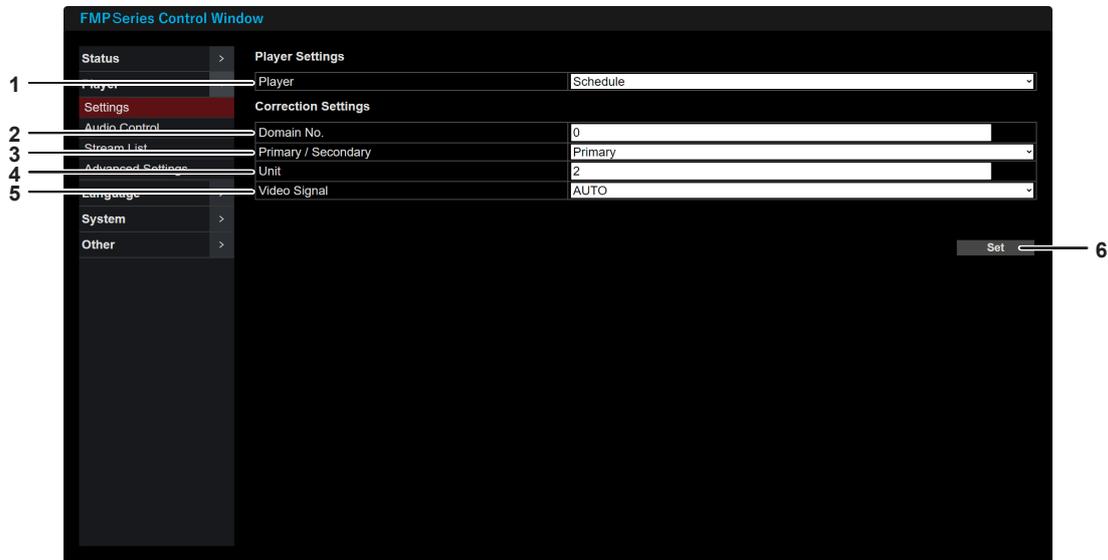
Displays the signal format of the content being played by streaming. "—" is displayed when playback is stopped.

**Note**

- The information displayed on the [Status] page is updated every 30 seconds.

**[Player]****[Settings] page**

This page is for selecting the playback function and configuring the output method and other settings.  
Click the [Player] menu → [Settings].

**1 [Player]**

Select the playback function.

**[Schedule]:** Performs scheduled playback.

**[NDI(NDI Decoder)]:** Plays streaming content compatible with NDI.

**2 [Domain No.]**

Set a number for identification when connecting multiple projectors with this board installed on the same network to perform synchronized playback.

A number from 0 to 127 that is single byte can be set.

When [Unit] is set to [1], the [Domain No.] setting is disabled.

**3 [Primary / Secondary]**

Set this if synchronized playback will be performed.

When [Unit] is set to [1], this is fixed to [Primary].

If this setting is changed when the [System] menu → [Date and Time] page → [Sync Protocol] is set to [SoftwareSync], the [System] menu → [Date and Time] page → [Primary / Secondary] setting also changes.

**[Primary]:** Operates as the synchronization source during synchronized playback with multiple boards. Only one board can be set to [Primary] within the same domain number.

**[Secondary]:** Performs playback synchronized to the board set to [Primary]. All boards except the one set as the synchronization source should be set to [Secondary].

**4 [Unit]**

Set the number of boards to perform synchronized playback. (Up to 255 boards)

Set [1] if synchronized playback will not be performed.

**5 [Video Signal]**

Select the format of the video signal to be output from the board.

**[AUTO]:** Reads the EDID of the projector with the board installed and then selects the signal format automatically.

**[3840x2160/60p]:** Outputs a video signal with 3 840 x 2 160p 60 Hz.

**[3840x2160/50p]:** Outputs a video signal with 3 840 x 2 160p 50 Hz.

**[1080/60p]:** Outputs a video signal with 1 920 x 1 080p 60 Hz.

**[1080/50p]:** Outputs a video signal with 1 920 x 1 080p 50 Hz.

**6 [Set]**

Apply the settings on the [Settings] page to the board.

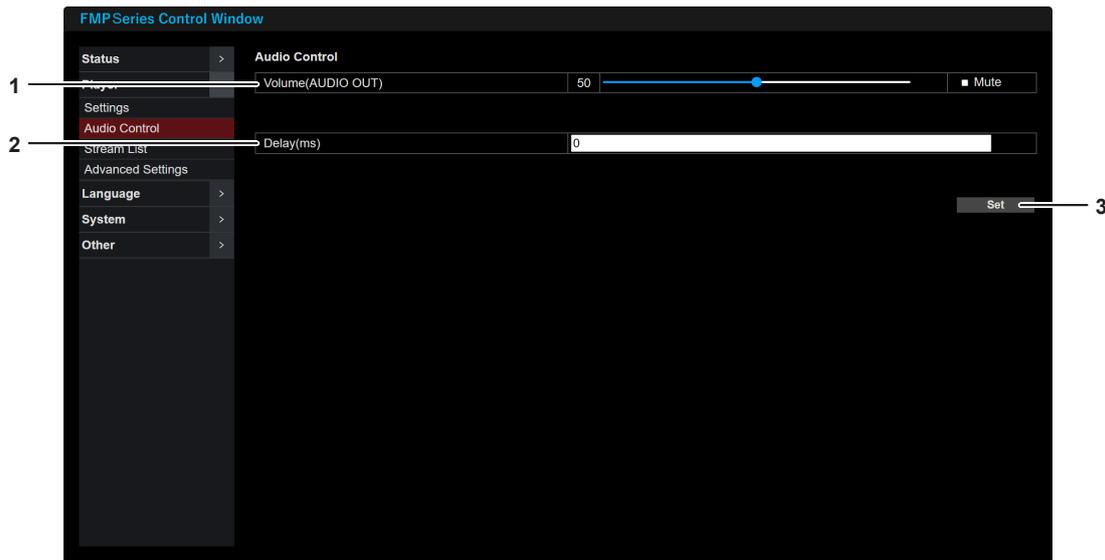
### Note

- Scheduled playback is a function to play back still image and movie content saved to the storage on the board according to schedules that you have set. To register the content and create the schedules, use the content management function of “Visual Software Suite.” For details and downloading of “Visual Software Suite”, visit the following website.  
<https://docs.connect.panasonic.com/projector/pass>  
 Note that you need to register and log in to PASS to check the details and download the software.
- Streaming playback is a function to play back content on the same network while importing the content data. Select the content and perform the playback operation on the [Stream List] page (▶ page 28).
- The [Primary / Secondary] setting item is common to the following item.
  - [System] menu → [Date and Time] page → [Primary / Secondary]
- If the number of boards set to perform synchronized playback in [Unit] differs from the actual number of running boards on the network, content playback cannot start. Check the [Unit] setting and the power state and network connection state of each projector with the board installed.
- This board can also perform playback synchronized with a media processor (model no.: ET-FMP50 or ET-FMP20).
- When [Video Signal] is set to [AUTO], the EDID of the projector with the board installed is read and then the video signal is output in one of the following formats.
  - 3840 x 2160/60p (3 840 x 2 160p 60 Hz)
  - 3840 x 2160/50p (3 840 x 2 160p 50 Hz)
  - 1080/60p (1 920 x 1 080p 60 Hz)
  - 1080/50p (1 920 x 1 080p 50 Hz)
- If the resolution of the content to be used for scheduled playback differs from the output resolution of the board, the resolution is changed and then the content is output.
- The audio codec of the content to be used for scheduled playback is MPEG4 AAC-LC, but it is converted to linear PCM and then the content is output from the <AUDIO OUT> terminal of the board.

### [Audio Control] page

This page is for setting the audio function.

Click the [Player] menu → [Audio Control].



#### 1 [Volume(AUDIO OUT)]

Use the slider bar to adjust the volume for output from the <AUDIO OUT> terminal within the range of [0] to [100].  
 If you add a check mark to [Mute], audio output stops.

#### 2 [Delay]

Set a delay time for the audio within the range of [0] ms to [171] ms if the audio output from the <AUDIO OUT> terminal is out of sync with the timing of video display.  
 The factory default setting is [0] ms.

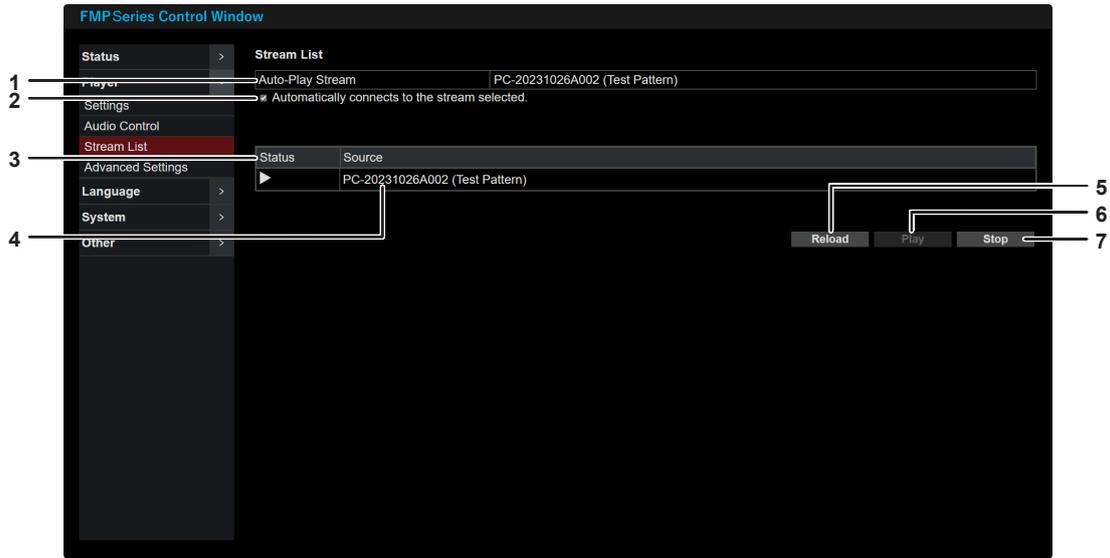
#### 3 [Set]

Apply the settings on the [Audio Control] page to the board.

**[Stream List] page**

This page is for performing streaming playback content operations.

The operations are possible when the [Player] menu → [Settings] page → [Player] is set to [NDI (NDI Decoder)]. Click the [Player] menu → [Stream List].



**1 [Auto-Play Stream]**

When a check mark is added to [Automatically connects to the stream selected.], the content of the device selected in the [Source] list is displayed as the target for automatic playback. When the check mark is removed, the device display disappears.

**2 [Automatically connects to the stream selected.]**

When a check mark is added to this check box, the content of the device displayed in [Auto-Play Stream] starts playing automatically after the projector with the board installed goes into projection mode next time. Furthermore, if the settings on the [Player] menu → [Settings] page are changed during streaming when a check mark has been added to this check box, playback resumes automatically after changing of the settings completes. If the check mark is removed, playback does not resume.

**3 [Status]**

Displays the playback status.  
 ■: Stopped  
 ►: Playing

**4 [Source]**

Displays a list of the sources detected on the same network as the board. A source-dependent code that is up to 64 characters long and made up of information such as the device name, application name, and serial number is displayed.

**5 [Reload]**

Click this to refresh the source list display.

**6 [Play]**

Click this to play back the content of the selected device.

**7 [Stop]**

Click this to stop playback.

**Setting the auto-play stream**

The key points on setting a stream to start playing automatically are as follows.

**■ When the board is set to primary**

- When [Primary / Secondary] is set to [Primary] on the [Settings] page, if a device displayed in the [Source] list is selected while a device is not displayed in [Auto-Play Stream] and then a check mark is added to [Automatically connects to the stream selected.], the selected device is set as the auto-play stream.
- When the check mark is removed from [Automatically connects to the stream selected.], the setting for the auto-play stream is canceled and the device display disappears from [Auto-Play Stream].
- If another device is selected in the [Source] list while a device is displayed in [Auto-Play Stream] and a check mark is added to [Automatically connects to the stream selected.], the setting is set again with the newly selected device as the auto-play stream.

**■ When the board is set to secondary**

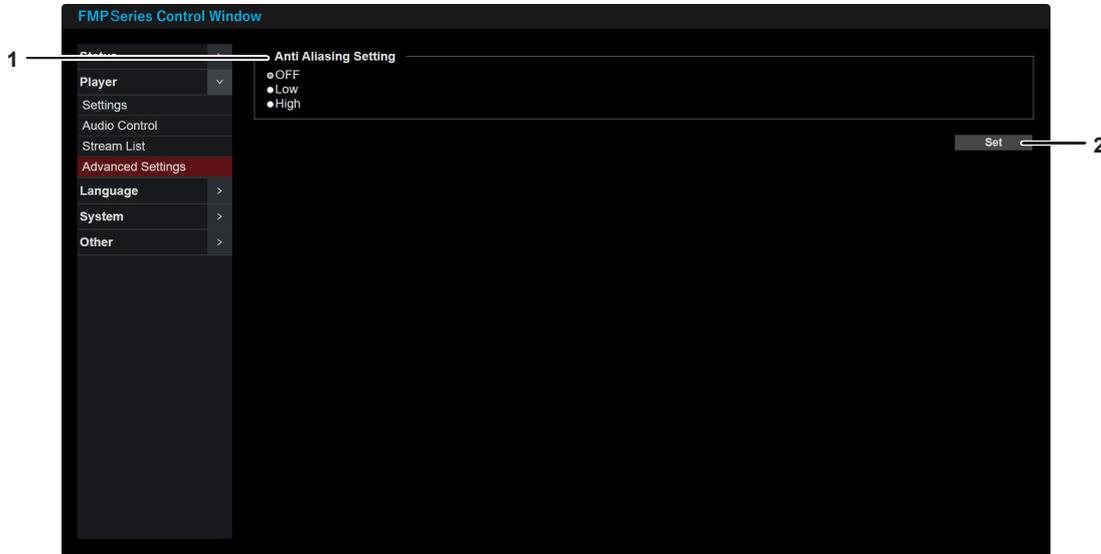
- When [Primary / Secondary] is set to [Secondary] on the [Settings] page, the playback operation cannot be performed.
- The auto-play stream set in the board set as the primary board is applied automatically to [Auto-Play Stream].
- If you want to automatically play back a stream which differs from that of the board set as the primary board, change [Primary / Secondary] to [Primary] while leaving the check mark in [Automatically connects to the stream selected.] and select another device from the [Source] list to set it as the new auto-play stream. Then, complete the setting by returning [Primary / Secondary] to [Secondary].

### Note

- When the main power of the projector with the board installed is off or the projector is in standby mode, the [Stream List] page cannot be operated. It can be operated when the projector goes into projection mode.

### [Advanced Settings] page

This page is for configuring advanced settings related to playback functions.  
Click the [Player] menu → [Advanced Settings].



#### 1 [Anti Aliasing Setting]

Set the level of anti-aliasing processing. Performing anti-aliasing processing can reduce the jaggies that occur along diagonal border lines in order to achieve smoother representation.

[OFF]: Does not perform anti-aliasing processing.

[Low]: Performs a low level of anti-aliasing processing.

[High]: Performs a high level of anti-aliasing processing.

#### 2 [Set]

Apply the settings on the [Advanced Settings] page to the board.

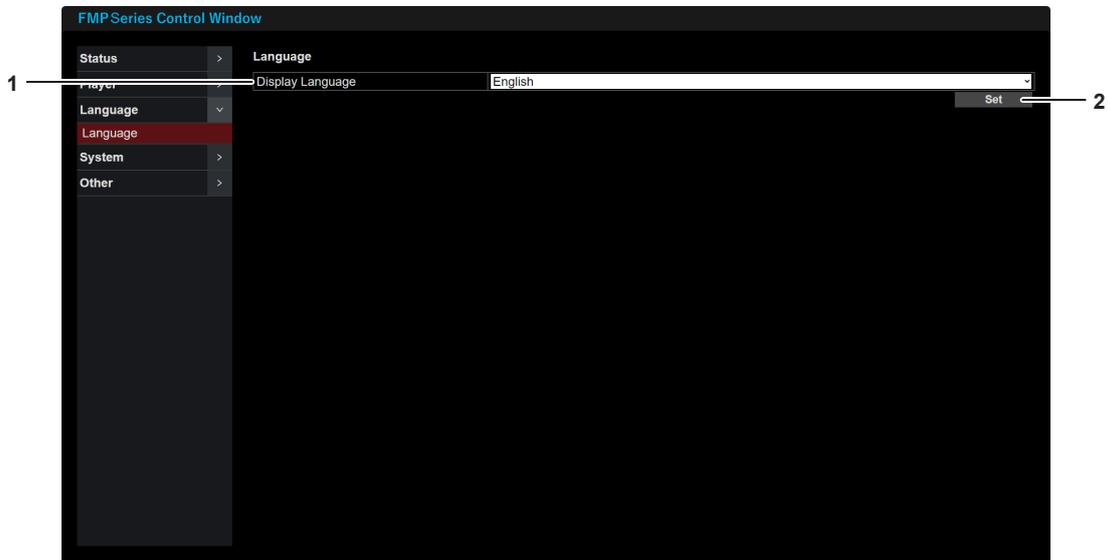
### Note

- Jaggies refer to the phenomenon in digital images and computer graphics where diagonal lines or edges are displayed in a stair-like manner, resulting in a sawtooth-like outline or rough appearance.
- Performing anti-aliasing processing can reduce jaggies to produce a smoother effect, but may conversely cause fine details in text or images to be lost, producing a blurred effect. Select the appropriate [Anti Aliasing Setting] option for the content to be used. For example, we recommend selecting [OFF] when you want to emphasize fine detail, and [Low] or [High] when you want to emphasize the overall appearance.
- If a computer running "Visual Software Suite" is connected to the network, it may affect the playback functions of the board, causing the effect of anti-aliasing processing to not be applied and the jaggies to not be reduced. Before setting the level of anti-aliasing processing, exit "Visual Software Suite."

## [Language]

### [Language] page

This page is for selecting the display language of the Web control screen.  
Click the [Language] menu → [Language].



**1 [Display Language]**

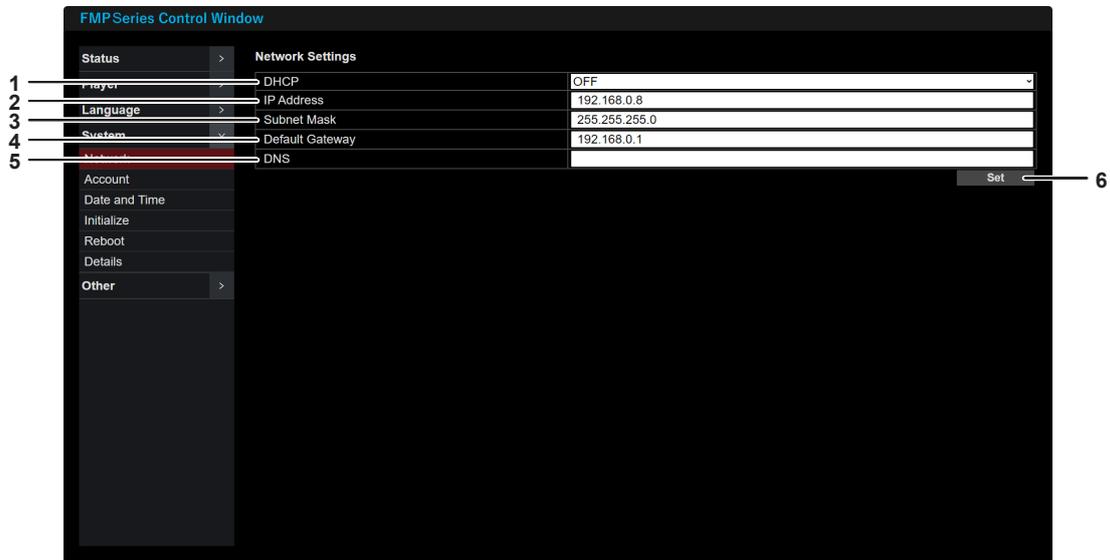
Select the display language for the Web control screen.  
**[English]**: Select this to display the screen in English.  
**[Japanese]**: Select this to display the screen in Japanese.

**2 [Set]**

Switch the display of the Web control screen to the language selected in [Display Language].

**[System]****[Network] page**

This page is for configuring the connection settings to use a wired LAN.  
Click the [System] menu → [Network].

**1 [DHCP]**

**[ON]:** Select this to obtain the IP address automatically using a DHCP server on the network to which the board will be connected.

**[OFF]:** Select this to not use a DHCP server. Set [IP Address], [Subnet Mask], and [Default Gateway].

**2 [IP Address]**

Enter the IP address to manually apply to the board when a DHCP server is not used.

**3 [Subnet Mask]**

Enter the subnet mask when a DHCP server is not used.

**4 [Default Gateway]**

Enter the default gateway address when a DHCP server is not used.

**5 [DNS]**

Enter the DNS server address.

Characters that can be entered: numbers (0 to 9), period (.)

**6 [Set]**

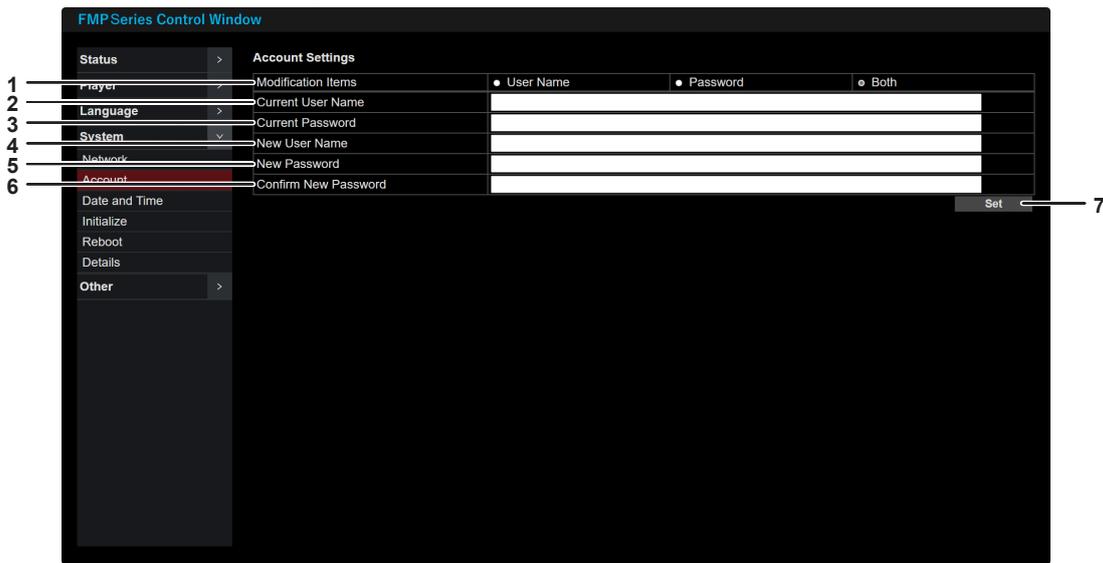
When this is clicked, a confirmation screen appears. Select [OK]. The settings on the [Network] page are applied to the board.

**Note**

- When using a DHCP server, check that the DHCP server is up and running.
- For the IP address, subnet mask, and default gateway, contact your network administrator.
- This board does not support IPv6 addresses.
- When the connection settings of the network of the board are changed, the connection with the computer used for setup is disconnected.

**[Account] page**

This page is for setting an account to access the board.  
Click the [System] menu → [Account].



**1 [Modification Items]**

Select the items for which to modify the settings.  
**[User Name]:** Select this radio button to modify only the user name.  
**[Password]:** Select this radio button to modify only the password.  
**[Both]:** Select this radio button to modify the user name and password.

**2 [Current User Name]**

Enter the user name before change.

**3 [Current Password]**

Enter the password before change.

**4 [New User Name]**

Enter a new user name. (Up to 16 single-byte characters)

**5 [New Password]**

Enter a new password. (Up to 16 single-byte characters)

**6 [Confirm New Password]**

Enter the new password again.

**7 [Set]**

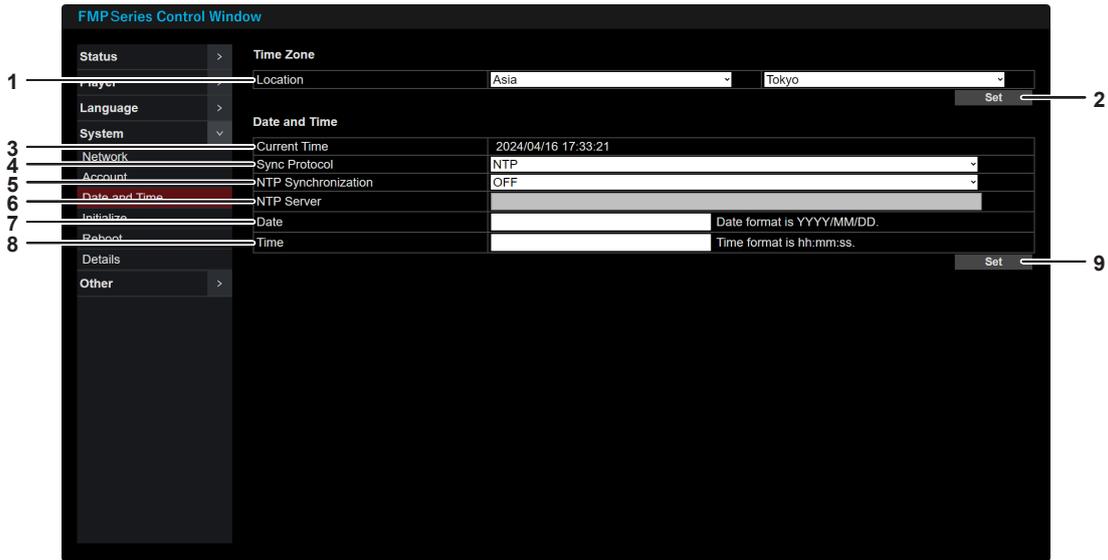
Apply the settings on the [Account] page to the board.

**Note**

- It is recommended that the password contains at least three of the following four kinds of characters.
  - Uppercase alphabet letters
  - Lowercase alphabet letters
  - Numerals
  - Special symbols (~!@#\$\$%^&\*()\_+|}{[<>./?')
- If this board is already registered in application software that uses communication control via LAN, such as "Visual Software Suite" or "Multi Monitoring & Control Software", communication with the board will be no longer possible if you change the user name or password of the account. If you have changed the user name or password of the account, change the registration information in the application software that you are using.

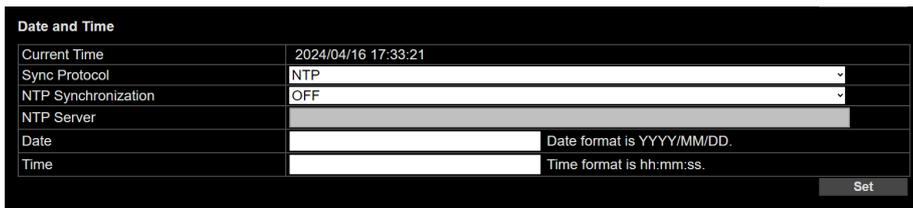
**[Date and Time] page**

This page is for setting the time zone and the date and time of the internal clock of the board. Click the [System] menu → [Date and Time].

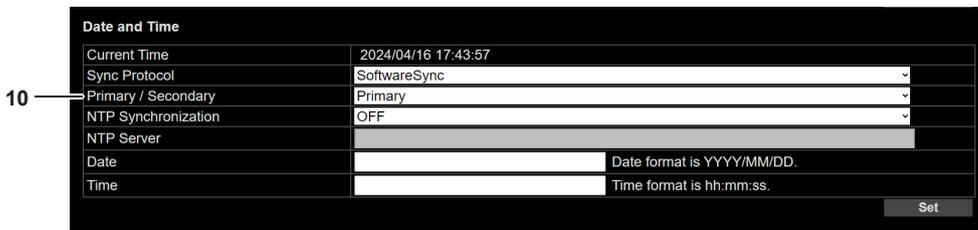


**■ [Date and Time]**

When [Sync Protocol] is set to [NTP]



When [Sync Protocol] is set to [SoftwareSync]



- 1 **[Location]**  
Set the time zone by selecting the region and city.
- 2 **[Set]**  
Apply the settings of [Time Zone] to the board.
- 3 **[Current Time]**  
Displays the current local date and time.
- 4 **[Sync Protocol]**  
**[NTP]:** Select this to synchronize the time with an NTP (Network Time Protocol) server via the network. It provides millisecond-level time synchronization accuracy.  
**[SoftwareSync]:** Select this to perform time synchronization between boards using the PTP (Network Time Protocol) method. It provides microsecond-level time synchronization accuracy.
- 5 **[NTP Synchronization]**  
Set synchronization with an NTP server.  
**[ON]:** Select this to set the date and time automatically by synchronizing with an NTP server.  
**[OFF]:** Select this to enter the date and time in [Date] and [Time] without synchronizing with an NTP server.
- 6 **[NTP Server]**  
Enter the IP address or server name of the NTP server with which to synchronize when [NTP Synchronization] is set to [ON].
- 7 **[Date]**  
Enter the date when [NTP Synchronization] is set to [OFF].
- 8 **[Time]**  
Enter the time when [NTP Synchronization] is set to [OFF].
- 9 **[Set]**  
Apply the settings of [Date and Time] to the board.
- 10 **[Primary / Secondary]**  
Set [Primary] for the board to be the time synchronization source, and set [Secondary] for the other boards. If the setting is changed, the [Primary / Secondary] setting on the [Player] menu → [Settings] page also changes.

### Note

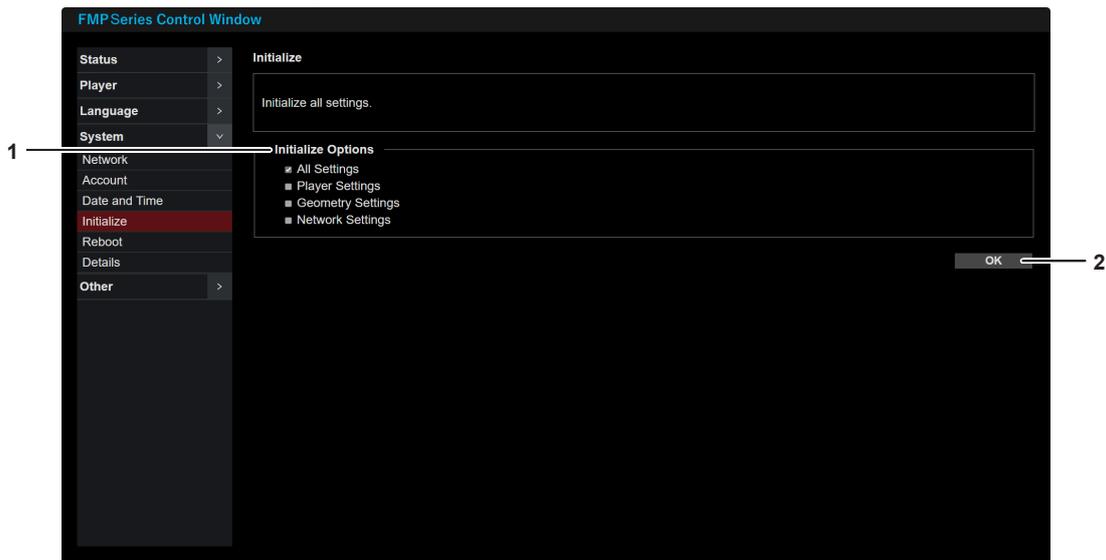
---

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- When [Unit] on the [Player] menu → [Settings] page is set to [1], [Sync Protocol] is fixed to [NTP]. When [Unit] is set to other than [1], [Sync Protocol] can be set to [SoftwareSync].
- When the server name is entered in [NTP Server], the DNS server address needs to be entered in [DNS] on the [System] menu → [Network] page.
- The following single-byte characters can be used in [NTP Server].
  - Uppercase alphabet letters
  - Lowercase alphabet letters
  - Numerals
  - Special symbols (/:%#\$&?()~.=+-)
- When [Sync Protocol] is set to [SoftwareSync] and when [Primary / Secondary] is set to [Secondary], [NTP Synchronization] cannot be set.
- The [Primary / Secondary] setting item is common to the following item.
  - [Player] menu → [Settings] page → [Primary / Secondary]
- This board can also perform playback synchronized with a media processor (model no.: ET-FMP50 or ET-FMP20).
- If the [NTP Synchronization] setting is changed and the date and time of the internal clock is changed significantly by synchronizing the time with an NTP server when using a playback function of the board, synchronized playback and other playback operations may become unstable. If that happens, reboot the board on the [System] menu → [Reboot] page.
- If the time becomes incorrect soon after setting the time, the battery embedded on the board needs to be replaced. Be sure to consult your dealer.

## [Initialize] page

This page is for initializing the user setting data to return the board settings to the factory default state. Click the [System] menu → [Initialize].



### 1 [Initialize Options]

Select the options for initialization.

**[All Settings]:** Add a check mark to initialize all user settings.

**[Player Settings]:** Add a check mark to initialize all of the settings under the [Player] menu.

**[Geometry Settings]:** Add a check mark to initialize all of the settings adjusted using the detailed setup function of “Visual Software Suite.”

**[Network Settings]:** Add a check mark to initialize all of the settings on the [System] menu → [Network] page.

### 2 [OK]

When this is clicked, a confirmation screen appears. If you select [OK], initialization for the options selected in [Initialize Options] starts.

When initialization finishes, a confirmation screen appears. Click [OK]. The board reboots to complete the initialization process.

## Attention

- When initialization is started by clicking [OK], do not turn off the main power of the projector until the board has rebooted and is operating. When the board begins operating, its power indicator <POWER> lights in green. (➡ page 7)

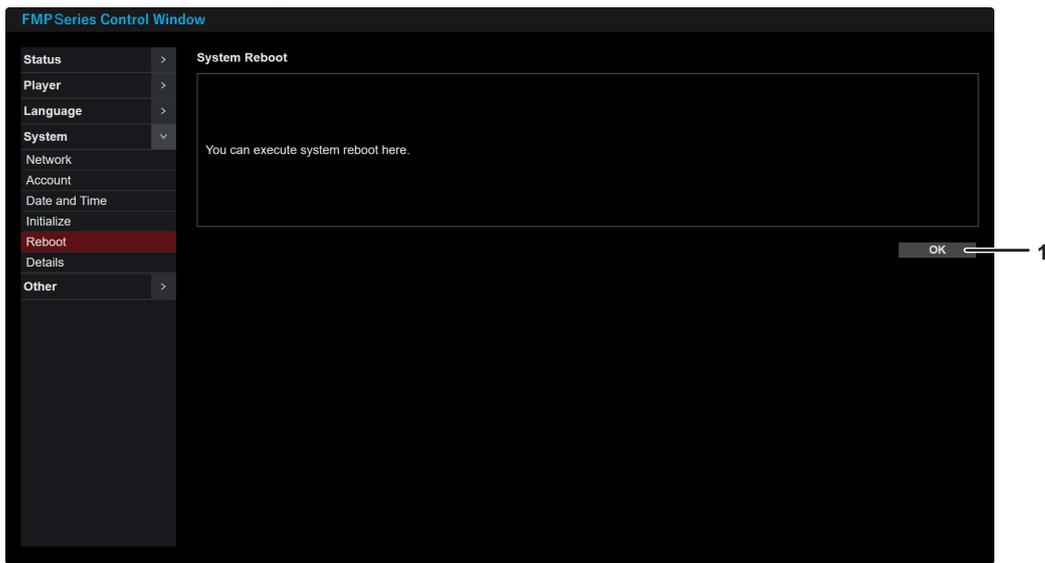
## Note

- When [All Settings] or [Network Settings] of [Initialize Options] is selected and then initialization is performed, the connection with the computer used for setup is disconnected. Also, the account settings are also initialized. After the reboot, configure the network settings and account settings according to “Setup” (➡ page 21).
- When [Player Settings] of [Initialize Options] is selected and then initialization is performed, [Primary / Secondary] of the [System] menu → [Date and Time] is also initialized.
- The power indicator <POWER> on the board flashes in green during initialization. For details on status display with the power indicator <POWER>, refer to “Power indicator” (➡ page 7).
- For details on the settings that can be adjusted using the detailed setup function of “Visual Software Suite”, refer to the operating instructions of “Visual Software Suite.” The operating instructions of “Visual Software Suite” can be downloaded from the following website.  
<https://docs.connect.panasonic.com/projector/pass>  
 Note that you need to register and log in to PASS to download the software.

## [Reboot] page

---

This page is for rebooting the board.  
Click the [System] menu → [Reboot].



- 1 [OK]  
When this is clicked, a confirmation screen appears. Select [OK]. The board reboots.

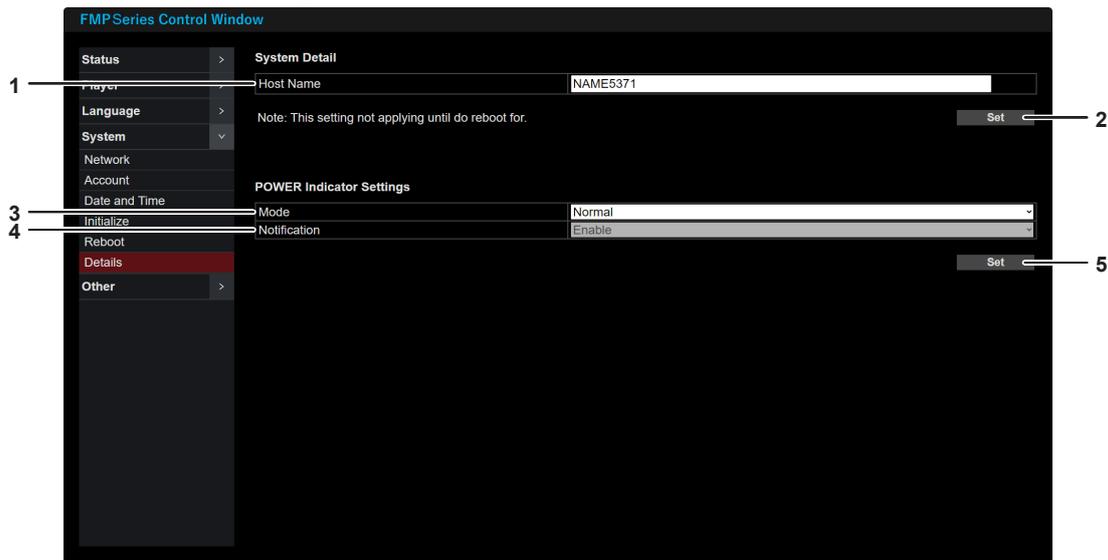
### Note

---

- When the board reboots, the connection with the computer used for setup is disconnected.

### [Details] page

This page is for setting the details of the board.  
Click the [System] menu → [Details].



- |   |   |
|---|---|
| <p><b>1 [Host Name]</b><br/>Enter the name of the board. If a host name is required when using, for example, a DHCP server, enter the host name. (From 4 to 24 single-byte characters)</p> <p><b>2 [Set]</b><br/>Apply the setting of [Host Name] to the board.</p> <p><b>3 [Mode]</b><br/>Set the operation mode of the power indicator &lt;POWER&gt;.<br/><b>[Normal]:</b> The indicator lights/flashes according to the status of the board.<br/><b>[Off]:</b> The indicator turns off/flashes according to setting of [Notification].</p> | <p><b>4 [Notification]</b><br/><b>[Enable]:</b> The power indicator &lt;POWER&gt; is off and does not light in green during normal operation. It lights/flashes according to the status of the board when an error/warning occurs or the board is otherwise not operating normally.<br/><b>[Disable]:</b> The indicator is always off regardless of the status of the board. Notification by power indicator &lt;POWER&gt; does not occur even if an error/warning has occurred on the board.</p> <p><b>5 [Set]</b><br/>Apply the settings of [Mode] and [Notification] to the board.</p> |
|---|---|

### Note

- The following single-byte characters can be used in [Host Name].
  - Uppercase alphabet letters
  - Lowercase alphabet letters
  - Numerals
  - Special symbols (-.)
- An all black video signal is output from the board to the projector in the following cases.
  - While scheduled playback is stopped
  - While streaming playback is stopped
  - While streaming video is interrupted
  - While initializing
  - While updating the firmware
- The power indicator <POWER> of the board lights in orange while the board is booting up regardless of the [Notification] setting.
- For details on status display with the power indicator <POWER>, refer to “Power indicator” (➡ page 7).

**[Other]****[Firmware Update] page**

This page is for performing the operation to update the firmware of the board.  
Click the [Other] menu → [Firmware Update].

Firmware for updating can be downloaded from the following Panasonic Professional Display and Projector Technical Support Website. If firmware newer than the current firmware has been released, you can update the firmware yourself.

Specify the save location and download firmware data (compressed file in ZIP format) and then extract it.  
Firmware data that can be used for the update is generated (file in ROM format).

<https://docs.connect.panasonic.com/projector/pass>

File name (example)

- SBFMP\_UPDATE\_1002.zip (After extraction: SBFMP\_UPDATE\_1002.rom)  
(Firmware data for ET-SBFMP10 of version 1.002)

Note that you need to register and log in to PASS to check whether there is a new firmware update and download firmware.

**1 [Current Version]**

Displays the current firmware version.

**2 [Firmware File]**

If you click [Select File] and specify the firmware for the update, the selected file name is displayed.

**3 [Update]**

When this is clicked, a confirmation screen appears. If you select [Start], the firmware update starts.

When the update completes, the board reboots.

**Attention**

- Do not turn off the power of the projector with the board installed during updating of the firmware.

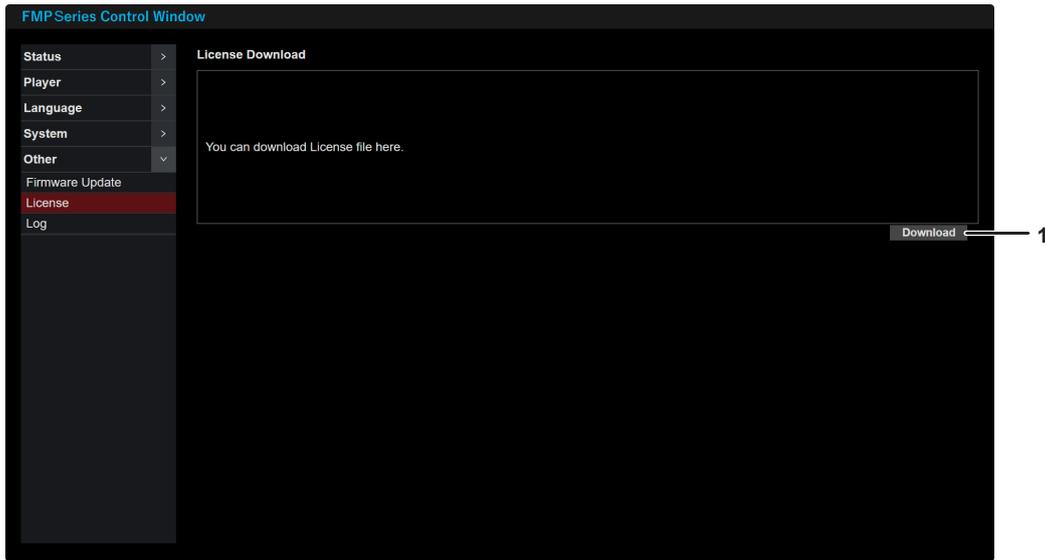
**Note**

- An all black video signal is output from the board to the projector during updating of the firmware.
- When the board reboots, the connection with the computer used for setup is disconnected.
- The power indicator <POWER> of the board flashes in green during updating of the firmware. For details on status display with the power indicator <POWER>, refer to "Power indicator" (► page 7).

### [License] page

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This page allows you to download the licenses of the open-source software used by the board. Click the [Other] menu → [License].



#### 1 [Download]

Click this to start downloading of the licenses. Specify the save location and then download the files.

### Note

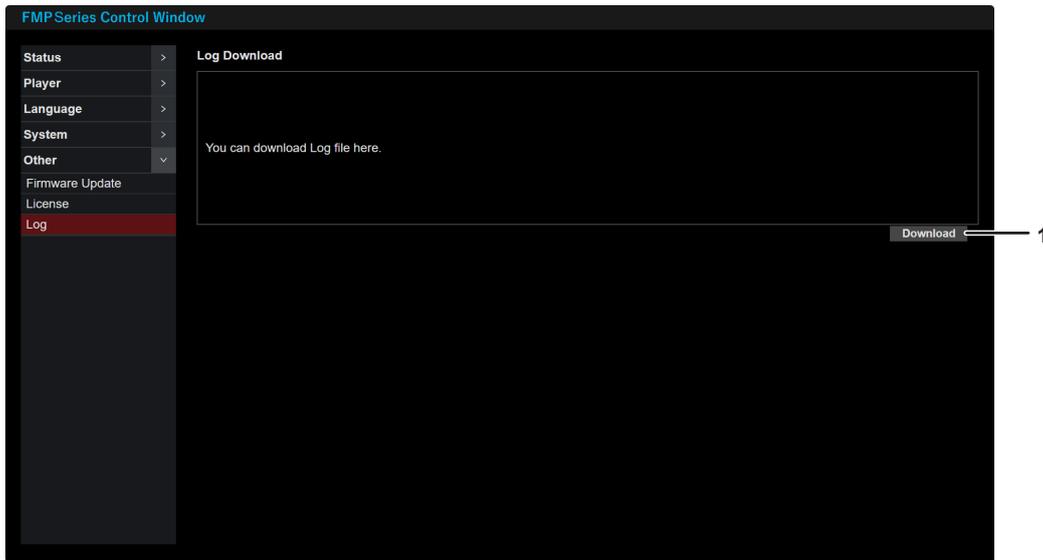
---

- The license information is provided in text format, and is stored compressed in ZIP format in the firmware of the board. File name: License.zip

### [Log] page

Errors/warnings that have occurred on the board and the corresponding details are recorded to a file. You can check the error/warning occurrence dates and times and the details by checking the log file.

Click the [Other] menu → [Log].



#### 1 [Download]

Click this to start downloading of the log file. Specify the save location and then download the files.

### Note

- The error/warning occurrence logs are recorded in English to a text file, and the file is stored compressed in ZIP format.  
File name: Log.zip (After extraction: FMP.log)
- Example of details in log file  
2024/01/23 12:34:56.789 [WARNING] Main temp. warning (U200)  
2024/01/23 12:34:56.789: Error/warning occurrence date and time  
[ERROR]/[WARNING]: Error/warning classification  
Uxxx; Error/warning number

# Using the playback functions

---

## Performing scheduled playback

---

You can play the content saved to the storage on the board according to a schedule that you have created. "Schedule" here is a generic name for the set of all data required for scheduled playback on the board. Specifically, it contains content such as still images and movies, the playlist combining multiple content into one material, the timetable defining the content to play back within the day, and the calendar defining the timetable to use by date.

To register the content and create the schedules, use the content management function of "Visual Software Suite", which is an application software platform. For details and downloading of "Visual Software Suite", visit the following website.

<https://docs.connect.panasonic.com/projector/pass>

Note that you need to register and log in to PASS to check the details and download the software.

### ■ Basic flow of operation

- 1) **Create a schedule.**
  - Create a schedule using "Visual Software Suite."
- 2) **Output the schedule.**
  - Output the created schedule to the board.
- 3) **Check the settings of the board.**
  - Set [Player] of the [Player] menu → [Settings] page to [Schedule].
  - The content is played back following the created schedule according to the date and time of the board.

## Performing streaming playback

---

Video content delivered from a stream transmitter on the same network can be played back while importing the data to the board.

### ■ Basic flow of operation

- 1) **Check the settings of the board.**
  - Set [Player] on the [Player] menu → [Settings] page → [Player] to [NDI (NDI Decoder)].
- 2) **Start playback.**
  - Select a stream on the [Player] menu → [Stream List] page and then perform the playback setting operation.

### Performing synchronized playback

---

When multiple boards are connected to the same network, you can perform synchronized playback of content. Synchronized playback is achieved by specifying the start time from the board set as the primary board to the boards set as the secondary boards via the network. This enables the playback timing offset between boards to be kept within one frame.

For details on the device connection configuration, refer to “Image of operation” (➡ page 20).

#### ■ Key points on setting

- Configure the various settings of the board set as the primary board after you finish configuring the various settings of the boards set as secondary boards.
- Check the number of boards that will perform synchronized playback and then set [Unit] of each board. Set [Unit] on the [Player] menu → [Settings] page. (➡ page 26)
- Set [Primary / Secondary] of each board. (➡ page 26 and page 33)  
The [Primary / Secondary] setting item is common between the following menus.
  - [Player] menu → [Settings] page → [Primary / Secondary]
  - [System] menu → [Date and Time] page → [Primary / Secondary]
- When performing synchronized playback, we recommend setting [Sync Protocol] to [SoftwareSync] as it has a high time synchronization accuracy. Set [Sync Protocol] to [NTP] for a network environment or operating environment in which synchronization using the PTP (Precision Time Protocol) method will not be performed. Set [Sync Protocol] on the [System] menu → [Date and Time] page. (➡ page 33)
- Set the same domain number for the boards to be synchronized. Set the domain number on the [Player] menu → [Settings] page → [Domain No.]. (➡ page 26)
- When performing synchronized playback with [Sync Protocol] set to [SoftwareSync], set only one of the boards set to the same domain number as the primary board. Set all of the other boards as secondary boards.
- When performing synchronized playback with [Sync Protocol] set to [NTP], set only one of the boards connected to the same network as the primary board. Set all of the other boards as secondary boards.
- To perform synchronized playback, the number of boards target for synchronized playback and the number of boards set on the [Player] menu → [Settings] page → [Unit] must match. If the actual number of boards running on the network differs from the number in [Unit], content playback cannot start. If playback cannot start, check the [Unit] setting and the power state and network connection state of each projector with the board installed.

#### Note

---

- Do not change various settings of a board set as a secondary board during synchronized playback. Changing the settings may cause synchronized playback to end and video output to stop.
- If the setting of any of the items on the [Settings] page or [Date] page of a board set as a secondary board is changed during scheduled playback, scheduled playback of the corresponding board ends and video output stops. To again perform synchronized playback including the board for which video output stopped, click [Set] on the [Settings] page or [Date] page on the board set as the primary board.
- When the main power of the projector with the board installed is off or the projector is in standby mode, the playback functions cannot be used. The playback functions can be used when the projector is in projection mode.
- This board can also perform playback synchronized with a media processor (model no.: ET-FMP50 or ET-FMP20).

# Appendix

## Troubleshooting

Review the following points. For details, see the corresponding pages.

Problems	Points to be checked	page
Image is not output.	<ul style="list-style-type: none"> <li>• Is the board installed in the slot of the projector correctly?</li> <li>• Is the projector in projection mode?</li> <li>• Is the input of the projector selected correctly?</li> <li>• Is the power indicator &lt;POWER&gt; of the board lit in green?</li> </ul>	— — — 7
	<ul style="list-style-type: none"> <li>• Are the following items set correctly?               <ul style="list-style-type: none"> <li>– [Player] of [Player] menu → [Settings] page</li> <li>– [Output Mode] of [Player] menu → [Settings] page</li> </ul> </li> <li>• When performing synchronized playback, do the number of boards set in the following item and the actual number of running boards connected to the network match?               <ul style="list-style-type: none"> <li>– [Unit] of [Player] menu → [Settings] page</li> </ul> </li> </ul>	26 26
Sound is not output.	<ul style="list-style-type: none"> <li>• Is this board connected correctly with the device that actually outputs sound?</li> <li>• Is the volume set appropriately in the following item? Is a check mark added to [Mute]?               <ul style="list-style-type: none"> <li>– [Player] menu → [Volume(AUDIO OUT)] of [Audio Control] page</li> </ul> </li> </ul>	8 27
	<ul style="list-style-type: none"> <li>• Are the following items set correctly?               <ul style="list-style-type: none"> <li>– [Player] menu → [Set] page → [Player]</li> </ul> </li> <li>• Is the date and time set correctly in the following item?               <ul style="list-style-type: none"> <li>– [System] menu → [Date and Time] page</li> </ul> </li> </ul>	26 33
Motion in images is unnatural.	<ul style="list-style-type: none"> <li>• If the frequency of the video signals output from the board differs from the frequency of the playback content, the smoothness of movies may be lost.</li> </ul>	—
Image display and audio are out of sync.	<ul style="list-style-type: none"> <li>• If the frequency of the video signals output from the board differs from the frequency of the playback content, image display and audio may be out of sync.</li> </ul>	—
	<ul style="list-style-type: none"> <li>• Are the following items set correctly?               <ul style="list-style-type: none"> <li>– [Player] menu → [Audio Control] page → [Delay]</li> </ul> </li> </ul>	27
Frames are skipped while using the playback functions.	<ul style="list-style-type: none"> <li>• Is a computer running “Visual Software Suite” connected to the network? The operation of the playback functions may be affected if this software is left running. Before performing scheduled playback or streaming playback, exit “Visual Software Suite.”</li> </ul>	—
	<ul style="list-style-type: none"> <li>• Frames will be skipped if network delays occur during the playback of streaming content compatible with NDI or if the load placed on this board exceeds its processing capacity.</li> </ul>	—

### Attention

- If problems persist even after checking the preceding points, consult your dealer.

## About the Self-Diagnostics Display

If an error or warning has occurred on the board, its details are displayed in the [Error / Warning] item of the [Status] menu → [Status] page of the Web control screen. (➔ page 25)

The symbol displayed when an error or warning has occurred and the corresponding details are as shown in the following table. Check “Measure number” and then take the measure in “Measures to take for errors and warnings” (➔ page 44).

Error/warning number	Error/warning symbol details	Measure number
U200	CPU temperature warning	1
F161	Storage device communication error	2
F203	Fan rotation speed warning	3
F303	Fan rotation speed error	3
H001	Internal clock battery replacement	4

### Note

- The displayed error/warning symbol and actual failure details may differ.
- If an error/warning shown in the table is displayed, consult your dealer.

### Measures to take for errors and warnings

Errors/warnings that have occurred on the board and the corresponding details are recorded to a file. You can check the error/warning occurrence dates and times and the details by checking the log file.

Measure number	Measure
1	The operating environment temperature of the projector with the board installed may be too high or the air intake ports or air exhaust ports of the projector may be clogged. Use the board within an appropriate operating environment temperature range*1. Or, unclog the air intake ports and air exhaust ports. If the error/warning indication does not disappear after taking the appropriate measure, consult your dealer.
2	An error occurred in communication with the storage on the board. Reboot the board in one of the following ways. If the indication is still displayed even after rebooting, consult your dealer. <ul style="list-style-type: none"> <li>• Reboot the board on the [System] menu → [Reboot] page of the Web control screen.</li> <li>• Turn off the power of the projector and turn off the main power switch, and then turn the power of the projector back on.</li> </ul>
3	If the indication is still displayed even after turning the main power of the projector off and then back on, consult your dealer.
4	The battery needs to be replaced. Consult your dealer.

\*1 For the operating environment temperature range of the projector, refer to “Operating Instructions” of your projector.

# Specifications

<b>Compatible slot</b>		Intel® Smart Display Module specification (Intel® SDM specification)	
<b>Dimensions</b>	<b>Width</b>	195 mm (7-11/16")	
	<b>Height</b>	25 mm (31/32")	
	<b>Depth</b>	123.2 mm (4-27/32")	
<b>Weight</b>		260 g (9.2 ozs.)	
<b>Storage</b>		512 GB Approx. 30 GB of this is used as the system area. (Cannot be used by the user.)	
<b>Terminals</b>	<b>&lt;AUDIO OUT&gt; terminal</b>	M3 stereo mini jack x 1 0 V [rms] to 2.0 V [rms] (variable), output impedance 2.2 kΩ or lower	
	<b>&lt;LAN&gt; terminal</b>	RJ-45 x 1 For network connection 10Base-T/100Base-TX/1000Base-T	
<b>Video output signals</b>		3 840 x 2 160/60p, 3 840 x 2 160/50p, 1 920 x 1 080/60p, 1 920 x 1 080/50p Color format: RGB Color depth: 8-bit	
<b>Content compatible with scheduled playback</b>		Schedule data created with the content management function in "Visual Software Suite" *1	
<b>Content compatible with streaming playback</b>	<b>NDI</b>	Image compression method	High Bandwidth NDI
		Image resolution / frame rate	1 920 × 1 080 / 60 fps, 1 920 × 1 080 / 50 fps
		Audio signals	Linear PCM and sampling frequency: 44.1 kHz / 48 kHz, 16 bit, 2 channels

\*1 Generic name for the set of all data required for scheduled playback on the board. Specifically, it contains content such as still images and movies, the playlist combining multiple content into one material, the timetable defining the content to play back within the day, and the calendar defining the timetable to use by date.

If the resolution of the content to be used for scheduled playback differs from the resolution video signals output from the board, the resolution is changed and then the content is output.

The audio codec of the content to be used for scheduled playback is MPEG4 AAC-LC, but it is converted to linear PCM and then the content is output from the <AUDIO OUT> terminal of the board.

For details on still image and movie content compatible with scheduled playback, refer to the operating instructions of "Visual Software Suite." The operating instructions of "Visual Software Suite" can be downloaded from the following website.

<https://docs.connect.panasonic.com/projector/pass>

Note that you need to register and log in to PASS to download the software.

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■ Indication of the manufacturer and the importer with EU Directive requirements

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**Note for the battery symbol****Only for European Union and countries with recycling systems**

This symbol might be used in combination with a chemical symbol. In this case it complies with the requirement set by the Directive for the chemical involved.

**Product Information (for Turkey only)**

AEEE Yönetmeliğine Uygundur.

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# Panasonic Connect Co., Ltd.

Web Site : <https://docs.connect.panasonic.com/projector>

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