EIZO®

Installation Manual

DuraVision®
FDF2711W-IP

Color LCD Monitor

Software Version 5.5

Important

Please read this "Installation Manual", "Instruction Manual", and "Setup Manual" carefully to familiarize yourself with safe and effective usage.

- For the latest product information including the "Installation Manual", refer to our web site :
  www.eizoglobal.com

Related Manuals

Setup Manual	Describes precautions and procedures for connecting network cameras and for displaying camera images on the monitor. (Installation and initialization guidance)
Installation Manual (this manual)[1]	Describes network camera registration, function settings, and system settings. (Detail settings guidance)
Instruction Manual[1]	Describes operation of live image screen menus. (Operation guidance)

[1] The Instruction Manual and Installation Manual for the latest software version used can be obtained from our web site. Select "Manuals" from "Support", enter "FDF2711W-IP" in the "Enter model name" box, and click "Search".
www.eizoglobal.com
Installation of Adobe® Acrobat® Reader® is required.

This product has been adjusted specifically for use in the region to which it was originally shipped. If operated outside this region, the product may not perform as stated in the specifications.

CONTENTS

Chapter 1   Product Overview

This product is a monitor capable of displaying images from a maximum of 32 network cameras[*1].
This manual describes network camera settings, system settings, and product specifications.
 *1   A type of camera which converts images into network signals and transmits the signals.

1-1.   Features

● **LCD panel**

- 27 inch wide-screen
- Supports a resolution of 1920×1080
- Utilizes a wide viewing angle LCD panel
   VA LCD panel realizes wide horizontal and vertical viewing angles of 178°.

● **Communication with network cameras**

- Possible to receive video images from a 4K camera (3840 × 2160 / 30 fps)
- Possible to display video signals from network cameras on a monitor
   - Supports H.264, H.265, and MJPEG compression formats.
   - Supports RTP, MPEG-TS, and SRT transmission modes.
   - A maximum of 48 network cameras can be registered.
   - Allows a free layout of video images (1 Screen, 3 Screens, 4 Screens, 9 Screens, 16 Screens, 32 Screens, 8 Screens, and Custom Screen) from multiple network cameras.
   - Supports Unicast and Multicast communication methods.
   - Possible to switch the display position of camera video images while displaying video images.
   - Allows playback of videos saved on the network camera's SD card.

● **Possible to output (duplicate/extended) to other monitors**

- Supports FHD (1920 × 1080 / 60 Hz max.)

● **Supports multiple types of network cameras**

- Compatible with ONVIF Profile S
- Supports camera control using network camera manufacturer specific protocols
   (When connecting Panasonic or AXIS network cameras)

● **System management**

- Possible to register network cameras or set the live image screen using a Web browser
- Possible to save and load settings data
   Possible to save or load the setting data onto a computer.

● **Event link function**

- Event Rules
   You can set actions to be executed as triggers for specific events.

● Various software extensions

- Icon Arranger

  Allows you to rearrange or delete live screen layout menus.
- Livestream View

  Allows you to check the screen displayed on the main unit on a Web browser.
- Screen orientation adjusting

  The display direction of the system output video can be rotated to match the monitor installation direction (horizontal or vertical).
- Failover

  Allows automatic switching to a backup camera when communication with registered network cameras is lost.

● Security

- Comm. Error Detection

  Allows displaying of a red frame alert message on the live image screen within a few seconds when communication with network cameras is lost.
- Lock function

  Disables USB devices, front key operation, and remote control operation.
- Network security protocols

  Supports protocols required for constructing high-level security systems including IEEE802.1X, SNMP, and LDAP.

● Supports secure communication

Utilizes SSL and TLS, which are secure protocols. Communication between network cameras and web pages is encrypted using SSL and HTTPS.

Purchase an Enterprise License to use LDAP authentication.

For details, contact your dealer or local EIZO representative.

● Support

- A 2-year long-term warranty for 24-hour continuous use

● Operation

- It is possible to operate using a keyboard, mouse, or joystick.

1-2. System Configuration

This system can communicate with network cameras, display video on the monitor, and operate cameras.
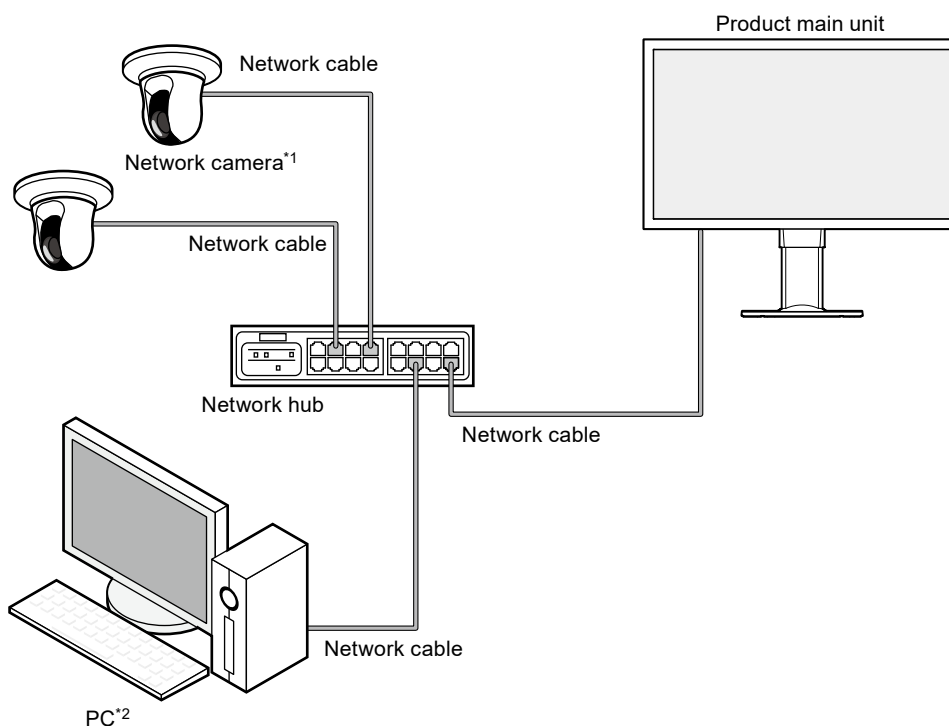
*1   Up to 48 network cameras can be registered.
*2   When setting the network cameras using a Web browser, use a computer on the same network as this product.

1-3. Compatible Network Cameras

This product supports the following network cameras:

- Panasonic i-pro series network cameras
- AXIS network camera
- ONVIF Profile S compatible network cameras

Attention

- Supported network cameras vary depending on the monitor's software version. Check the software version of the monitor you are using, then check our website (www.eizoglobal.com) for details on supported network cameras. For information on how to check the software version, refer to "2-2. Setting Screen" (page 11).
- For installing and setting the network cameras, refer to the network camera User's Manual.

Note

- To verify the connection of a network camera, the image of the network camera can be accessed by specifying the URI. For details, refer to "4-2. Registering a Network Camera Manually" (page 55).

Chapter 2 Before Configuration

System settings can be made from the screen (application screen) displayed on the monitor, or from the web browser of a computer connected to the same network.

2-1. Logging In to the System

To configure this product, you need to log in to the system.

Login is allowed only when the level of the user accessing the product is "ADMIN".

Log in to the system according to the following procedure.

Note

- The following user information is set by default.
  - Username: "admin"
  - Password: "admin"
  - User Level: "ADMIN"
- For information on user settings, refer to "Chapter 6 Management of the User Account" (page 86).
- It is recommended that you log out after completing the setup, so as to prevent a third party from operating the network camera or altering the settings.
- When the Auto Login settings are configured, it is possible to log in to the system without the username and password.
  For details, refer to "6-4. Configuring Auto Login Settings" (page 90).

● Configuring from this product

A USB mouse or USB keyboard is required when operating from the application screen.

Connect a USB mouse or USB keyboard to the USB downstream port of this product.
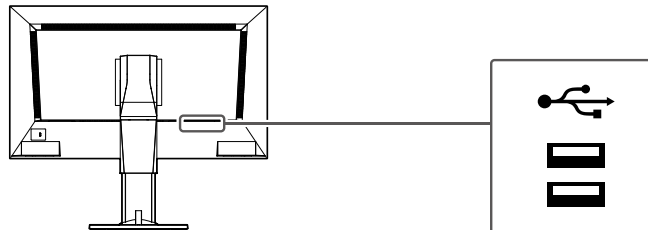
Note

- Both the USB mouse and USB keyboard can be used.
- For entering characters, refer to "Entering characters" (page 10).

1. Press ⏻ on the front of the monitor.

The power indicator lights up blue and the live image screen is displayed.

(For information on the live image screen, refer to the "Instruction Manual".)

Note
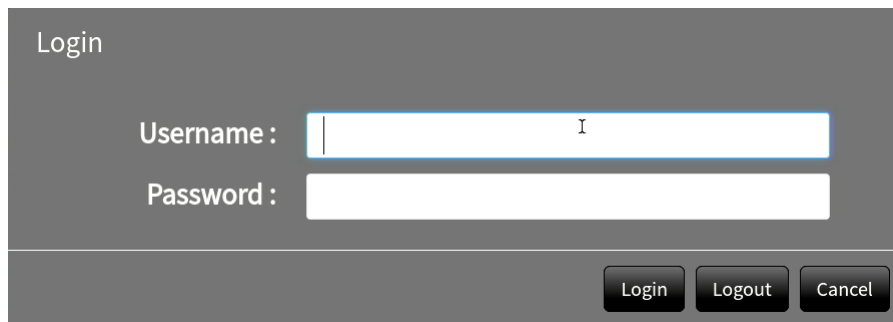
- The power supply is set to "On" by default.

2. Select (Login) under "System".

The login screen is displayed.
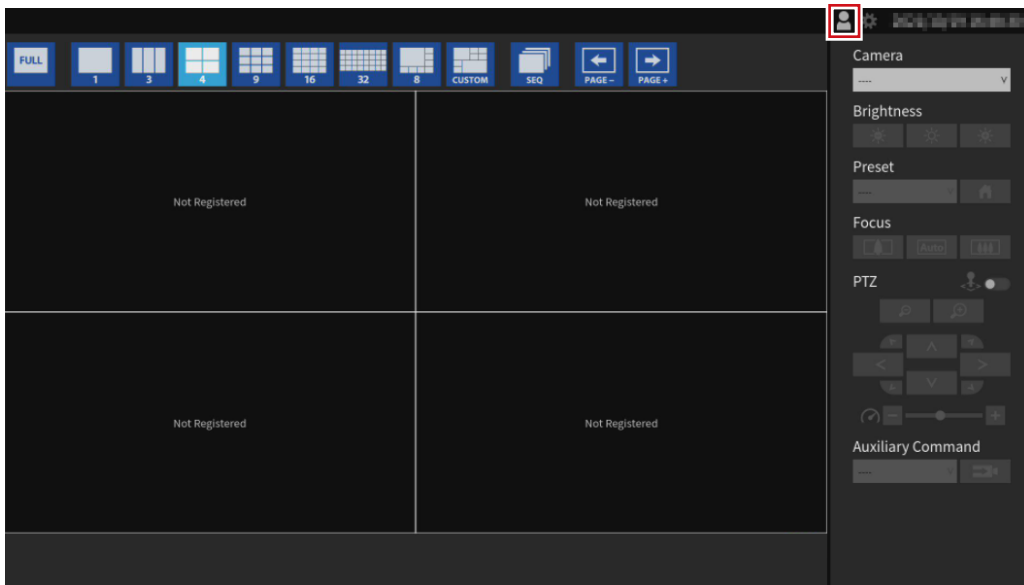
3. Enter "Username : " and "Password : ".

Note

- When the "Account Type" is set to "LDAP", you can temporarily change the account type when logging in by checking "Allow choosing of account type on the login dialog." under "LDAP" in advance.

4. Select "Login".

The display returns to the live image screen.

5. Select (Settings).

The setting screen is displayed.

Entering characters

- When entering using a USB keyboard

  Typed characters are entered in the text box.

- When entering using a USB mouse

  Clicking an item that requires characters to be input, such as a text box, will display a software keyboard.

  When the focus is moved out of the software keyboard, the software keyboard is hidden.

● Configuring from a web browser

Attention

- Web browser Microsoft Edge 79 or later is recommended.
- When configuring from the web browser, the power supply must be connected to this product.

1. Start the web browser of the PC to be used.

2. Enter the following address for access.

Address: http://Address of this product*1

*1   The default address for access is http://192.168.0.150/.

The login screen is displayed.
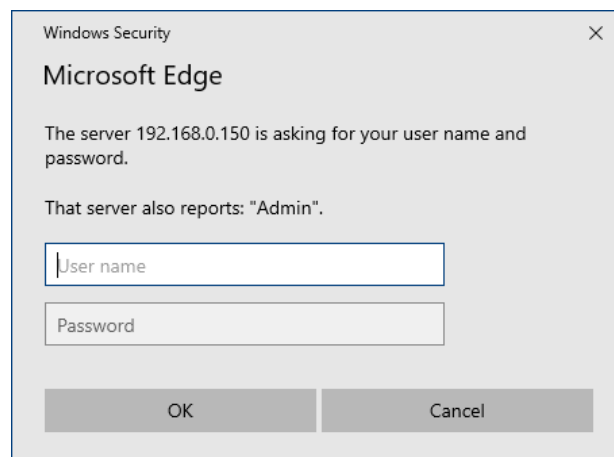
3. Enter a username and a password.

4. Select "OK".

The setting screen is displayed.

Note

- If you are unable to login, try using the following address.
  http://address of this product/index.html

2-2. Setting Screen

The setting screen is comprised of "Basic Information", "System Settings", and "Live Image Screen Settings".
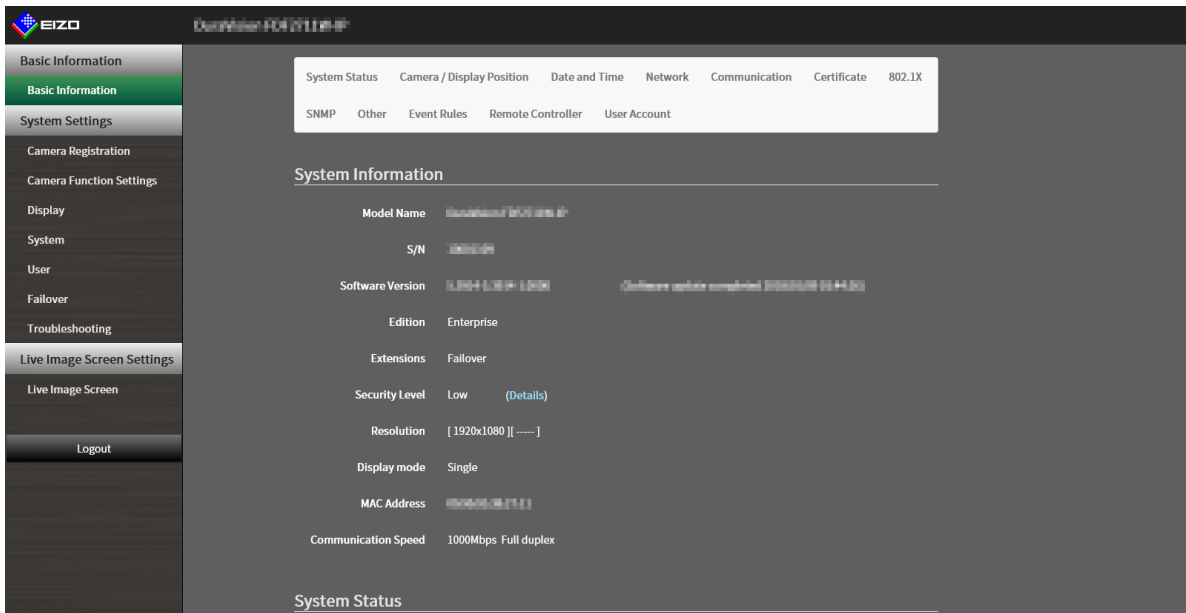
● Basic Information

Information on various settings of this product is displayed in a list.
Clicking on an item tab at the top of the screen will display each setting item.

System Information

Displays the current status.
- Model Name
- S/N
- Software Version
- Edition
- Extensions
- Resolution
- Display mode
- MAC Address
- Communication Speed
- Security Level (Enterprise Edition only)

System Status / Camera / Display Position / Date and Time / Network / Communication / Certificate / 802.1X[*1] / SNMP / Other / Event Rules / Remote Controller / User Account[*1]

The current setting status is displayed.

*1   Only available for use if the edition is "Enterprise".

● System Settings

Various settings such as registration of network cameras and system settings are performed.

● Live Image Screen Settings

Display settings such as changing the live image screen layout are performed.

● Logout

Logout from the system.

Attention

- The "Logout" button is displayed only when displayed on the Web browser.
- When displaying on the application screen the "Return" button is displayed. Select "Return" to switch to live screen display.

Chapter 3   System Settings

Perform settings for the date and time of the system, network settings, and maintenance.
These operations can be performed from the application screen or from the web browser.
This chapter explains the procedure using the web browser. However, except for a few functions, the same functions can be used with either method.

3-1. Performing Network Settings

Perform network settings such as IP address, DNS, and NTP.

Attention

• When any one of the IP address settings/IP address/subnet mask/gateway is changed and "Apply" is selected, the warning message "The network settings will be changed." is displayed.
Select "OK".
• The same warning message is displayed when the IP address is changed from the web browser. Selecting "OK" will display a message requesting reaccess. Access again using the changed IP address.

1. Select "Network" of "System".

The "Network" screen is displayed.
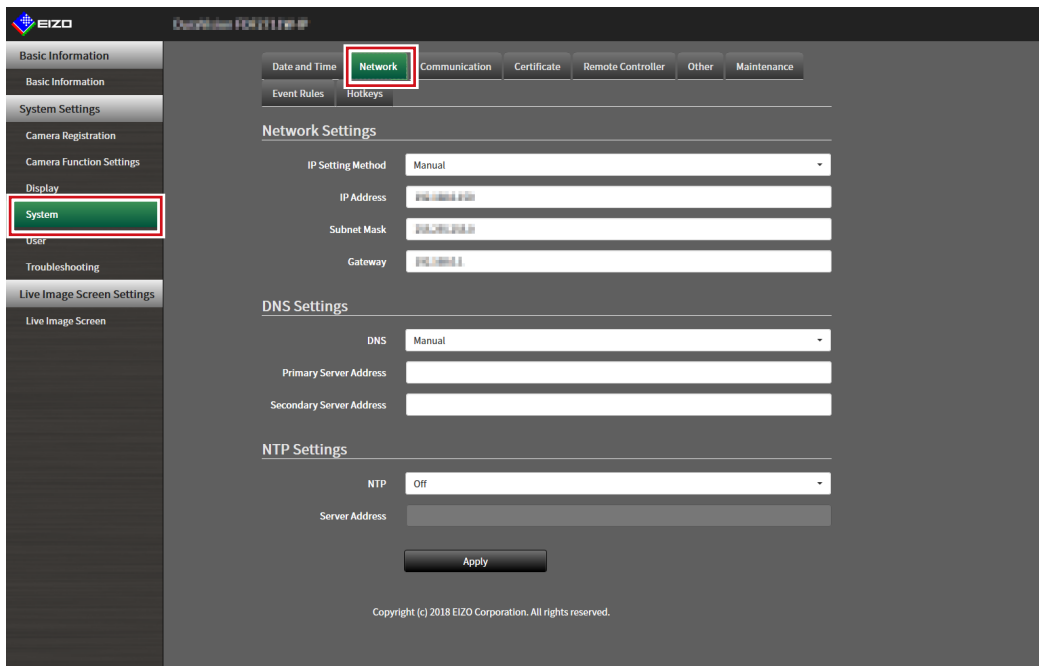
2. Set the following items.

Network Settings

Item	Detail	Setting range
IP Setting Method	Select "IP Setting Method".	DHCP / Manual
IP Address[*1] Subnet Mask Gateway[*2]	When "Manual" is selected under "IP Setting Method", "IP Address", "Subnet Mask", and "Gateway" can be set. **Attention** • Avoid duplicate IP addresses for devices on the same network. • If multiple units of this product are connected on the same network, their IP addresses should be changed.	0.0.0.1 to 255.255.255.254

*1 The initial address is "192.168.0.150".

*2 If the environment does not include a gateway, it is not necessary to set "Gateway". Leave either as default setting or blank.

DNS Settings

Item	Detail	Setting range
DNS	(Only when "Manual" is selected under "IP Setting Method" of "Network Settings") Set "DNS".	Auto / Manual
Primary Server Address Secondary Server Address	When "Manual" is selected under "DNS", set "Primary Server Address" and "Secondary Server Address".	0.0.0.1 to 255.255.255.254

NTP Settings

Item	Detail	Setting range
NTP	Set whether to use the NTP server or not.	On / Off
Server Address	When "On" is selected, set the NTP server address.	Alphanumerics and symbols

3. Select "Apply".

The setting complete screen is displayed.
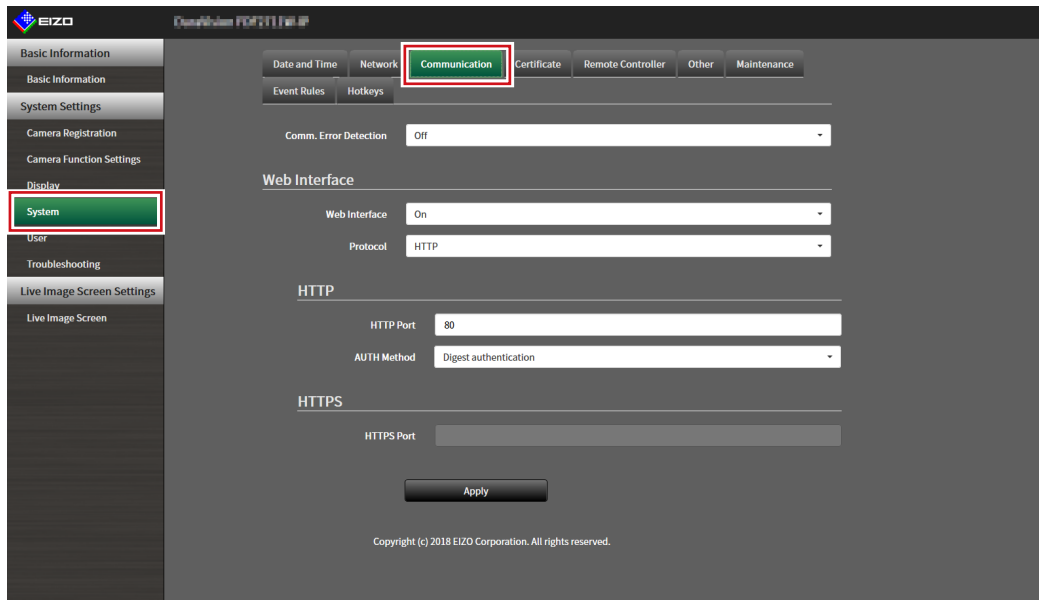
4. Select "OK".

3-2. Performing Communication Settings

The communication settings are used to configure the web interface function and detection of communication errors.

1. Select "Communication" of "System".

The "Communication" screen is displayed.

2. Set the following items.

Item	Detail	Setting range
Comm. Error Detection	Set the message display timing when the reception of video image data stops. On: Within several seconds after the reception of video image data stops, an alert message is displayed in a red box on the live image screen. When communication resumes, the alert is cleared and the video image is displayed again. Off: When approx. 30 seconds have elapsed after the reception of video image data stops, a communication error message is displayed.	On / Off
Web Interface	Enables operation and setting of the product over the network from a web browser.	On / Off[*1]
Protocol	Select protocol for communication with the web server.[*2]	HTTP / HTTPS[*3] / HTTP and HTTPS[*3]
HTTP Port	Set the HTTP port of the web interface.	80, 1024 to 65535
AUTH Method	Set the authentication method for the web interface.[*4]	Digest authentication / BASIC authentication
HTTPS Port	Set the HTTPS port of the web interface.	443, 1024 to 65535

*1   If "USB Lock" is "On" and "Remote Controller Lock" is "On", it cannot be set to "Off".
*2   Depending on the protocol selected, the address may be different when accessing this product from the web browser.
         "HTTP": http://address of this product
         "HTTPS": https://address of this product
         "HTTP and HTTPS": can be accessed from either of the above
*3   Can be set when either "Self-Signed Certificate" or "CA-Signed Certificate" is selected in "Certificate".
*4   Cannot be set when "User Account" is "LDAP".

3. Select "Apply".

The setting complete screen is displayed.

4. Select "OK".

Attention

• When "Web Interface" is set to "Off", the settings cannot be configured from the web browser.
• When "Web Interface" is set to "Off" and "Apply" is selected, the following warning message is displayed.

Web Interface will be set to OFF.
When this is set to OFF, you will no longer be able to configure settings using your browser.
Are you sure you want to change the setting?

OK   Cancel
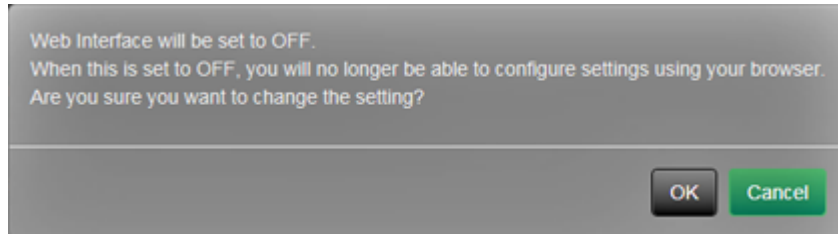
3-3. Setting the Current Date and Time

Attention

- Set the correct dates. Incorrect dates may result in failure of secure communication during certificate validation. If 802.1X is in use, or if you use SSL for LDAP settings or communication with the camera, avoid having the power turned off for an extended period and make sure the correct time is set using NTP.
- If secure LDAP communication is not established, you can not login. Reset the account setting using the Reset button.

1. Select "Date and Time" of "System".

The "Date and Time" screen is displayed.
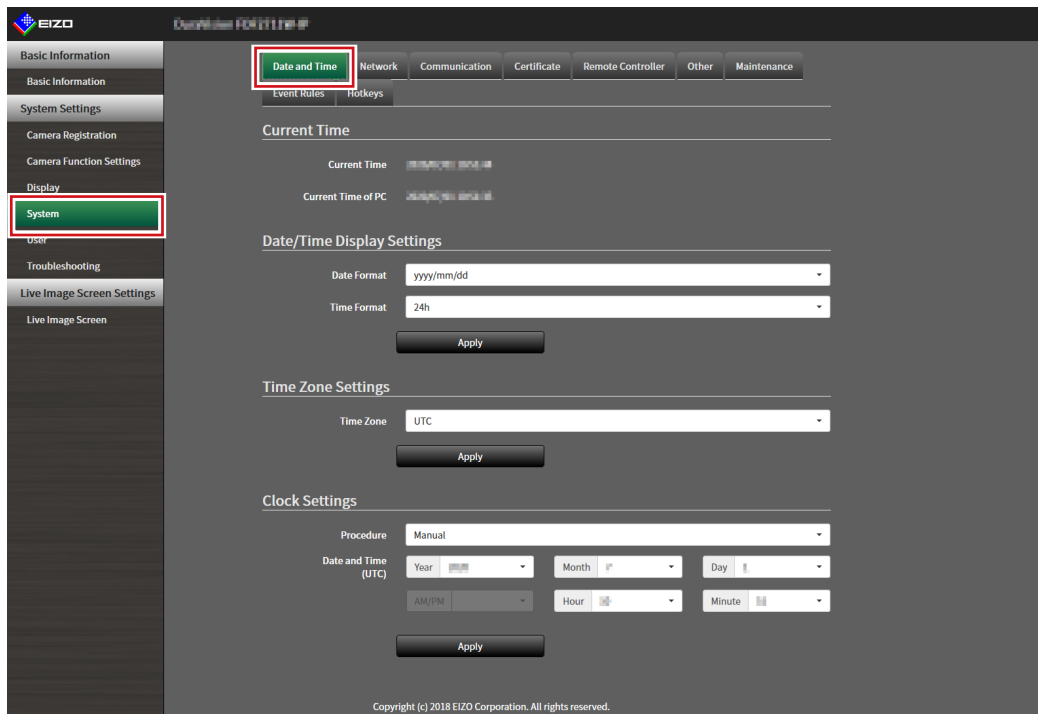
2. Set the current date and time.

Date/Time Display Settings

Item	Detail	Setting range
Date Format	Set the date format and time format.	yyyy/mm/dd, Mmm/dd/yyyy, dd/Mmm/yyyy, mm/dd/yyyy, dd/mm/yyyy
Time Format		24h / 12h

Time Zone Settings

Item	Detail	Setting range
Time Zone	Set the time zone.	Region / city

Clock Settings

Item	Detail	Setting range
Procedure[*1]	Select the time setting procedure.	Manual / Synchronize with PC
Date and Time	Set the current time.	2018/1/1 0:00 to 2035/12/31 23:59

*1　This can be set only when displayed on the web browser.

3. Select "Apply".

The setting complete screen is displayed.

4. Select "OK".

Note

- When "Synchronize with PC" is selected for "Procedure", the current date and time information of the computer is transmitted to this product.
- If the system is not connected to the power supply for one week or longer, the date and time displayed on this product will become incorrect. If such a situation occurs, reset the date and time.

3-4. Other System Settings

Perform the following settings: "Language", "Resolution", "Multi-Monitor", "Orientation", "Rotate", "Key Lock", "USB Lock", "Remote Controller Lock", "Power Indicator", and "Keyboard Layout".

1. Select "Other" under "System".

The "Other" screen is displayed.
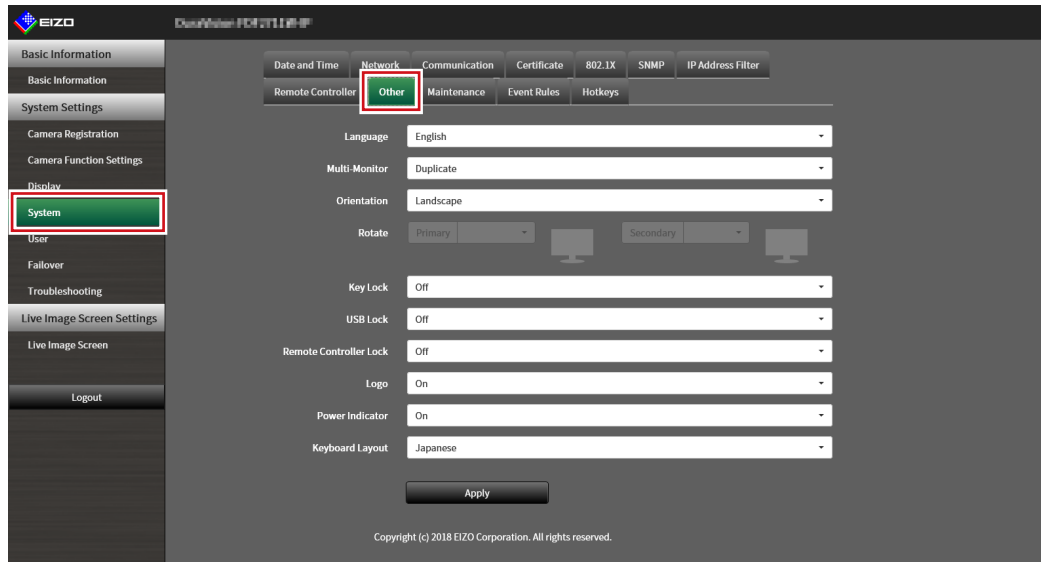
2. Set the following items.

Item	Detail	Setting range
Language	Set the display language of the menu and the setting screen.	日本語 / English / Deutsch
Multi-Monitor	Select the method for outputting the signal from the HDMI connector on the back of the monitor.	Single / Extended / Duplicate
Orientation[*3]	Switches the display orientation of the system output video.	Landscape / Portrait
Rotate[*3]	Set the rotation direction for the system output video when "Orientation" is "Portrait". **Note** • You cannot set Rotate as "Primary".	Left / Right
Key Lock	Locks operations by the buttons on the front of this product.	On / Off
USB Lock[*1, 2]	Locks operations of the USB device.	On / Off
Remote Controller Lock[*1]	Lock the operation of the remote control. (A function for use with models equipped with a remote control)	On / Off
Logo	Set whether or not to display the logo at startup.	On / Off
Power Indicator	Sets whether to turn the power indicator (blue) on or off under normal operation.	On / Off
Keyboard Layout	Select the keyboard arrangement.	Japanese / English(US) / English(UK) / German

*1 This can be set only when displayed on the web browser.

*2 When the setting of "USB Lock" is changed, the product needs to be restarted.

*3 Only available for use if the edition is "Enterprise".

3. Select "Apply".

The setting complete screen is displayed.

4. Select "OK".

3-5. Initializing the System

All settings are returned to default except for system logs, operation logs, the current time, time zone settings, license activation information, and the software version.

1. **Select "Maintenance" of "System".**

The "Maintenance" screen is displayed.
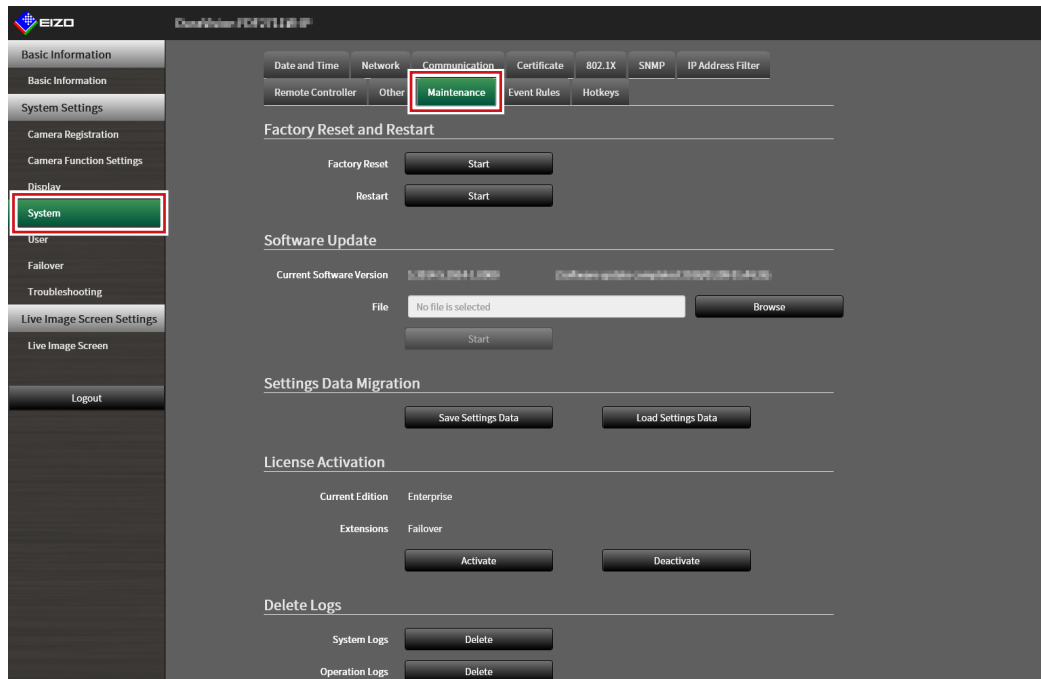
2. **Select "Start" under "Factory Reset".**

A confirmation message is displayed.

3. **Check the box if you wish to include network settings in the factory reset.**

4. **Select "OK".**

3-6. Restarting the System

1. **Select "Maintenance" of "System".**

   The "Maintenance" screen is displayed.

2. **Select "Start" under "Restart".**

   A confirmation message is displayed.

3. **Select "OK".**

   The system will restart.
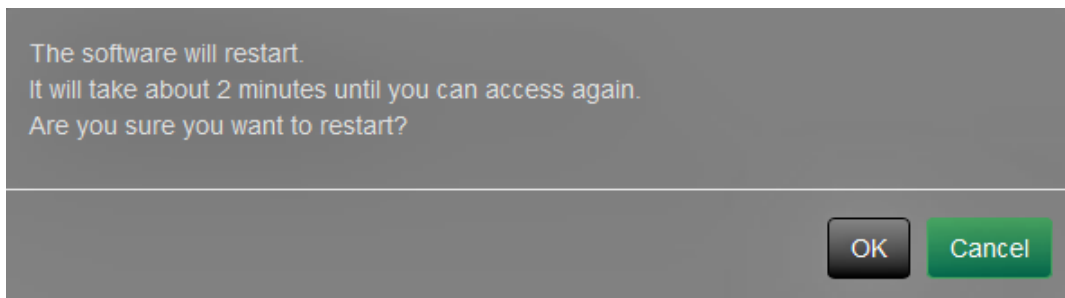
3-7. Updating Software
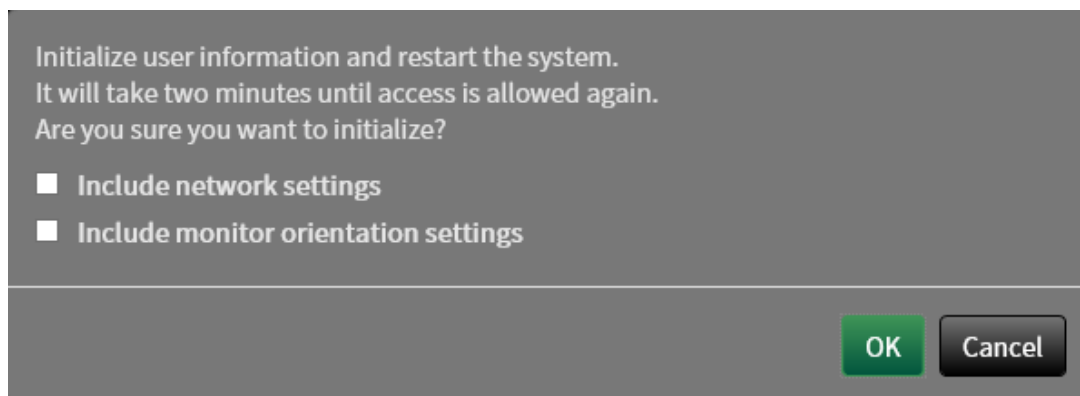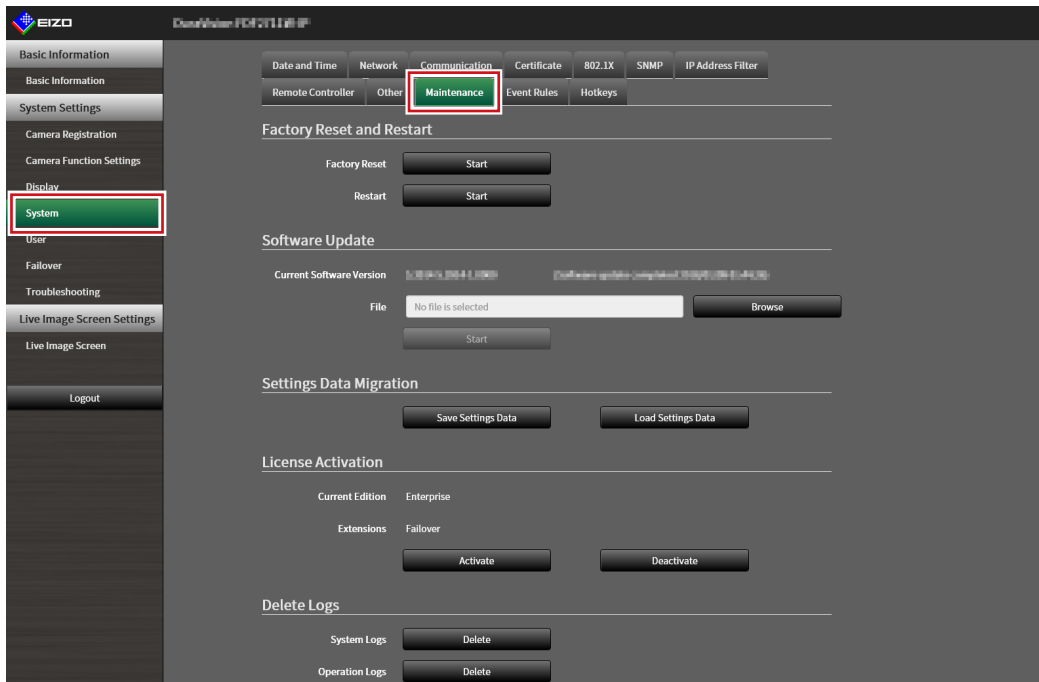
The software version can be upgraded. Download the upgrade file from the EIZO website (www.eizoglobal.com) ahead of time.

Attention
- This function can be used only when using the web browser.

1. Select "Maintenance" of "System".

The "Maintenance" screen is displayed.
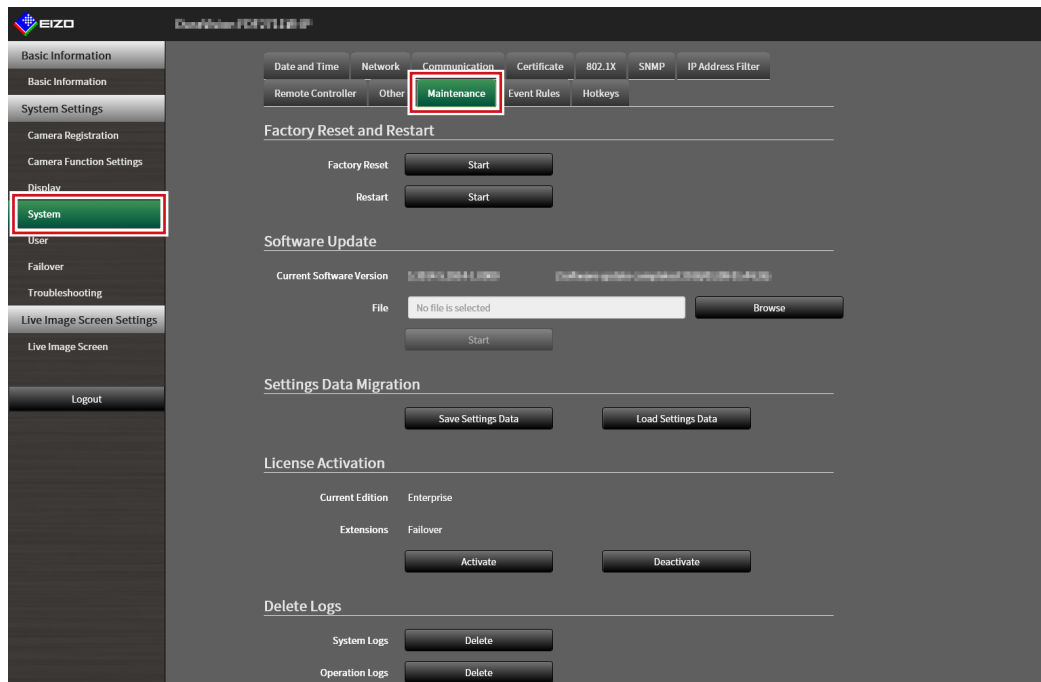
2. Select the upgrade file.

Select "Browse" under "Software Update" and set the file.

Attention
- The software will not be updated if a file is not selected, or a file other than an update file has been selected.
- Do not turn off the power of the product while updating the software.

3. Select "Start".

A confirmation message is displayed.

4. Select "OK".

> The software will be updated.
> The update will take about 5 minutes.
> Do not turn the power off while the update is in progress.
> Do you want to start the software update?
>
> **OK** **Cancel**
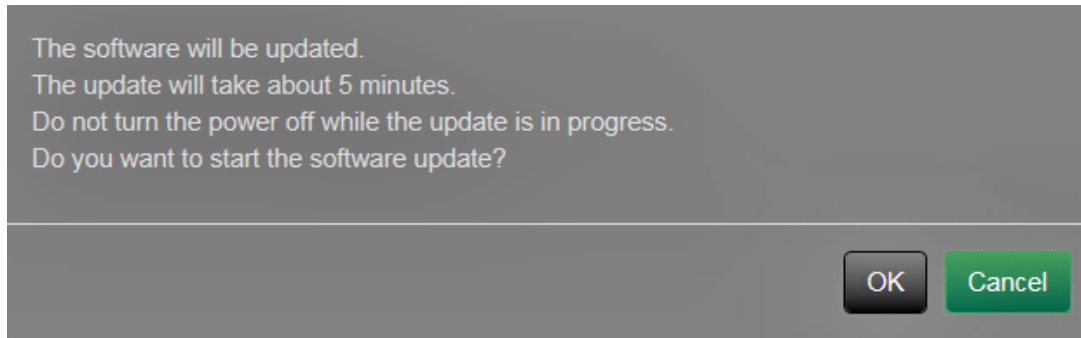
A "Software is being updated" message is displayed.

5. Select "OK".

> The software is being updated.
> Do not turn the power off while the update
> is in progress.
> Close the browser, and wait 5 minutes
> before accessing again.
>
> **OK**
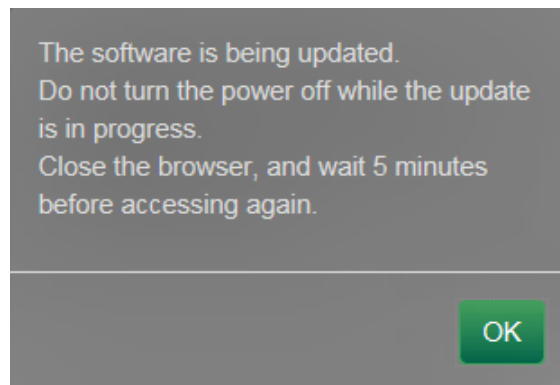
Note

• It takes approximately five minutes to update the software.
• The red LED blinks while the software is updating.

3-8. Saving Settings Data

Settings data can be exported to a file. The exported file can be used to transfer settings data.

Attention
- This function can be used only when using the web browser.

1. Select "Maintenance" of "System".

The "Maintenance" screen is displayed.
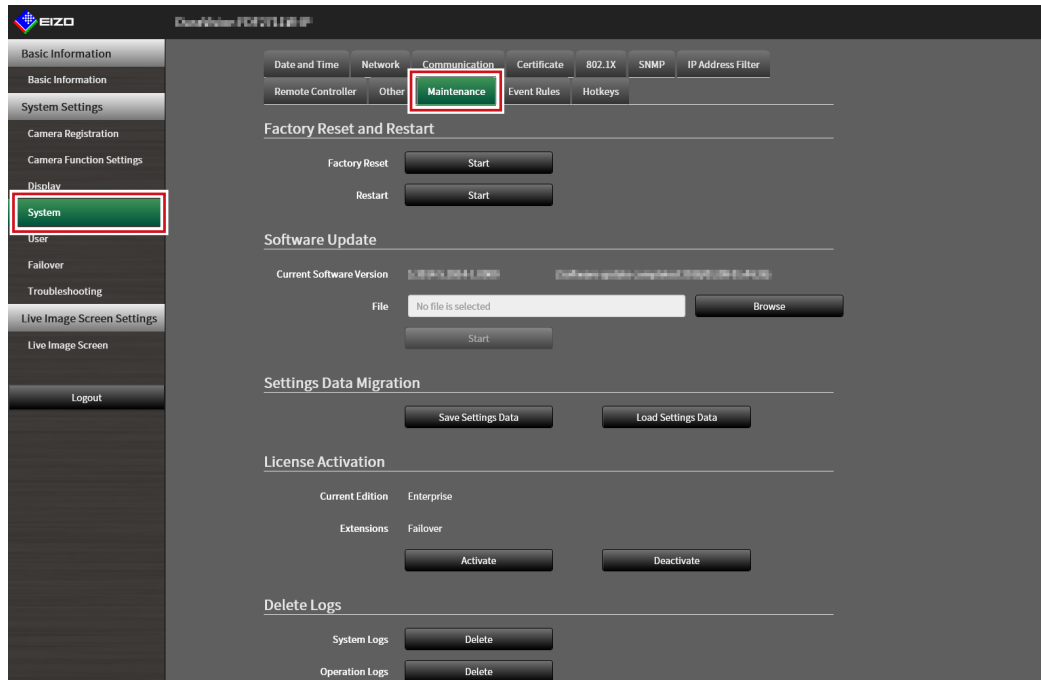
2. Select "Save Settings Data" under "Settings Data Migration".

The "Save Settings Data" dialog box is displayed.

3. Specify the "Password".
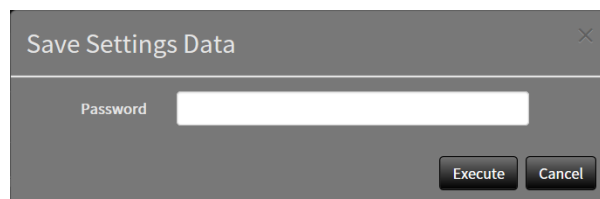
4. Select "Execute".

5. Specify the saving destination.

The settings data is saved.

Attention
- Some of the settings cannot be saved.
- If the password specified when saving the data is forgotten, it will no longer be possible to load the settings data.

Note
- Saved file name: fdf2711w-ip_Backupyyyymmdd.duraconf2 (yyyymmdd is the save date.)

3-9. Loading System Settings Data

Load settings data from a file.

Attention
- This function can be used only when using the web browser.
- Does not load settings that use server certificates and client certificates.

---

1. **Select "Maintenance" under "System".**

   The "Maintenance" screen is displayed.
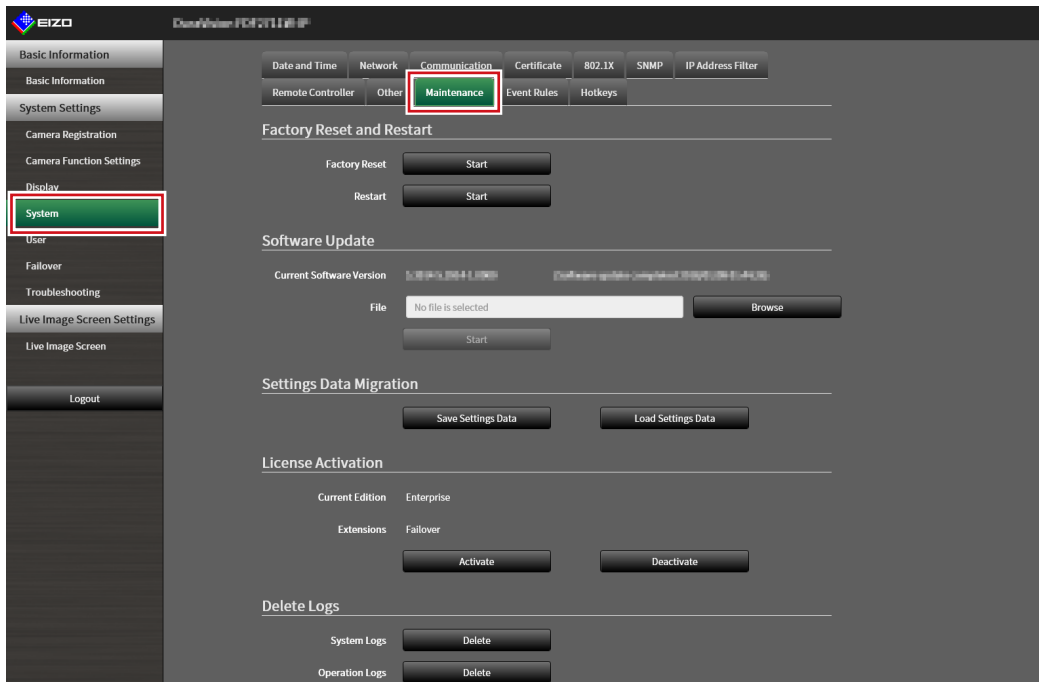
2. **Select "Load Settings Data" under "Settings Data Migration".**

   The "Load Settings Data" dialog box is displayed.

3. Select the settings data file.

Select "Browse" and set the file.
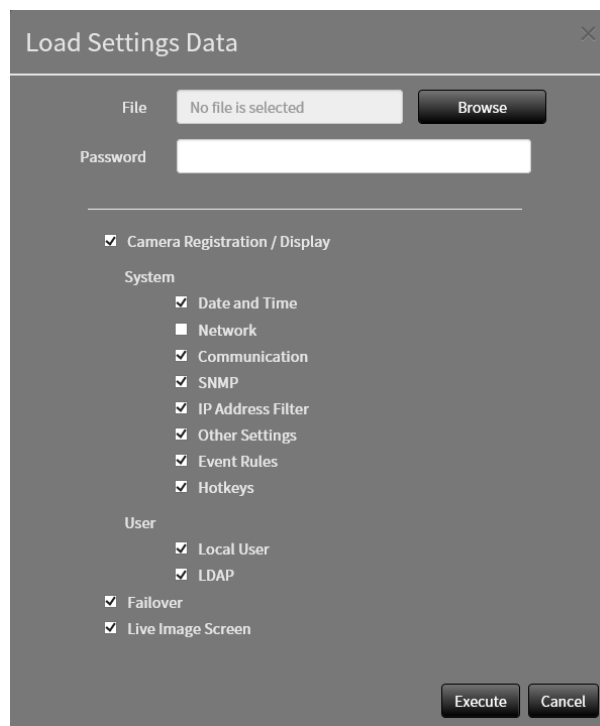
4. Enter the password that was specified when saving the settings data in "Password".

5. Select the data to be loaded.

Place a check mark in the check box.

Attention

• "Camera Registration / Display" includes camera settings registered in failover.

6. Select "Execute".

When loading is completed, a message is displayed.

7. Select "OK".
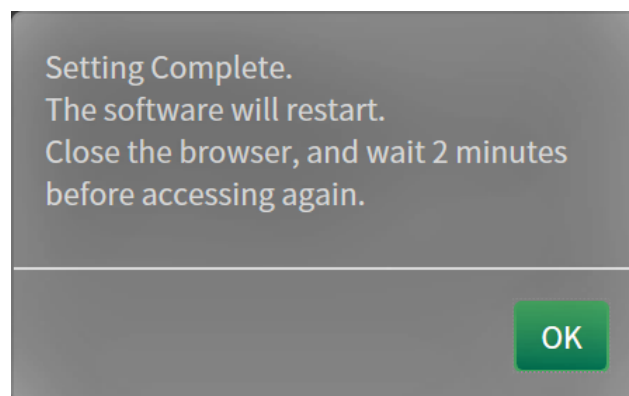
Attention

• If the environment where settings data was saved is different from the environment where settings data is loaded with respect to network settings or communication settings, you may not be able to display the settings screen from the web browser.

3-10. Performing License Activation

The software edition can be changed. Usable functions are added when using the Enterprise edition and when extensions are enabled. For details, contact your dealer or local EIZO representative.

Attention

• This function can be used only when using the web browser.

1. Select "Maintenance" of "System".

The "Maintenance" screen is displayed.
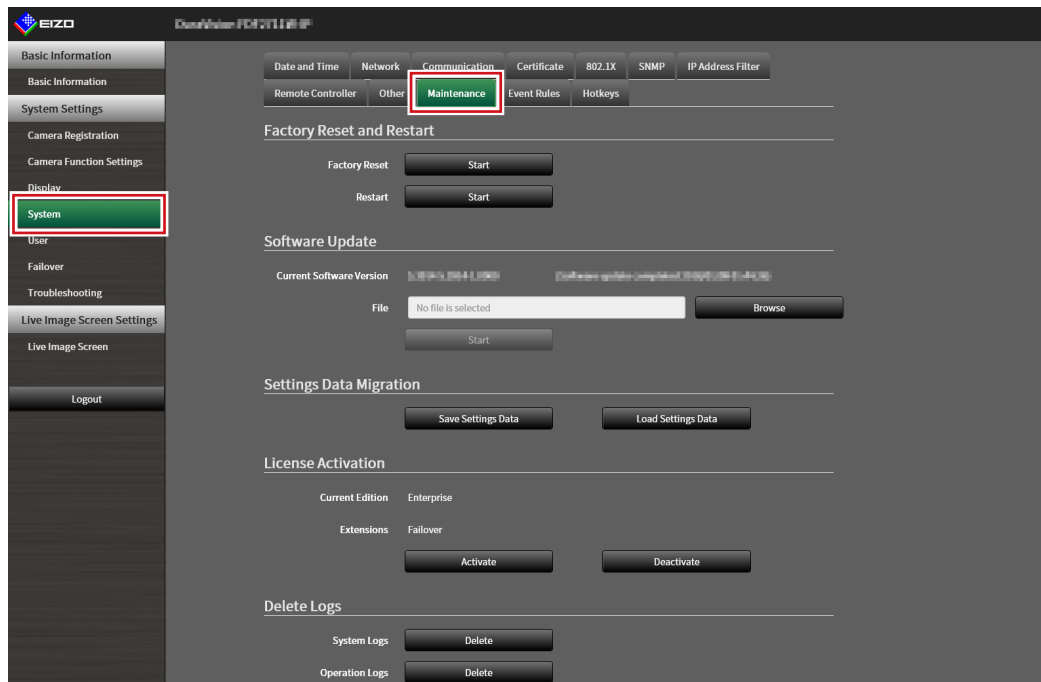
2. Click "Activate" for License Activation and select the license file.

When selecting multiple license files, click [+].

3. Click "Execute".

A confirmation message is displayed.

"Current Edition" and "Extensions" will be updated.

Close the browser and wait 2 minutes before accessing again.

Attention

• Select "Delete" to delete all registered licenses.

3-11. Setting Event Rules

Event rule is a function that executes specific actions when specific events are triggered. Allows setting actions to be executed when "Alert request received", "Timer expired", and "Video output status change" events occur.

Note

• A total of 16 individual Event Rules can be set.

1. Select "Event Rules" of "System".

The "Event Rules" screen is displayed.
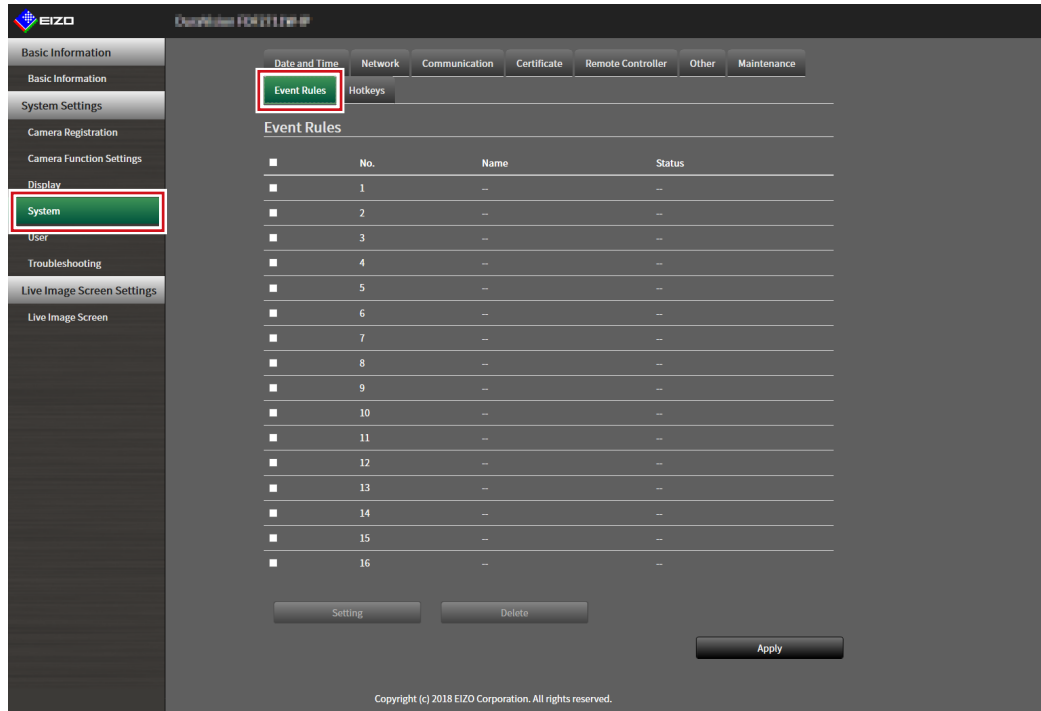
2. Select the number for registering the Event Rule.

Place a check mark in the check box of the number to be registered.

3. Select "Setting".

The "Event Rules" screen is displayed.

4. Set Event Rules.

Item	Detail	Setting range
Name	Enter the name of the Event Rule.	Alphanumeric, kana[*1], and kanji[*1] (Up to 24 characters)
Status	Select whether to enable or disable the Event Rule.	Active / Inactive
Event	Select an event to trigger an action. The items that can be set differ depending on the event. Refer to the tables below.	Alert request received / Timer expired / Video output status change / Failover mode started / Auxiliary command[*2] / System Startup / Network Link Up
Action	Select the actions to be executed when an event occurs. The items that can be set differ depending on the action. Refer to the tables below.	Notification / Start a timer / SNMP Trap / Failover Toggle

*1 This can be set only when displayed on the web browser.

*2 Used when live image screen auxiliary command execution is set as a trigger. Camera auxiliary commands cannot be set as triggers.

Setting Range of "Event"

Event	Conditions/Situation
Alert request received[*3]	Received HTTP alert command.
Timer expired	Timer set in "Action" has expired.
Video output status change	The HDMI connection status while power is on has changed.
Failover mode started	Switched to failover display.
Auxiliary command	Event executed with live screen auxiliary command.
System Startup	Main power is turned on.
Network Link Up	Network communication is enabled.

*3 Sending a alert display HTTP command from external device is required.For details, contact your dealer or local EIZO representative.

Selecting "Alert request received" as an "Event"

Item	Detail	Setting range
Camera No.	Select the camera to receive the alert.	Any, from 1 to 48
Trigger Type	Select the timing of the event to occur. Select "On" when setting display alert as a trigger, and "Off" when setting hide alert as a trigger.	Any / On / Off
ID[*4]	Select the ID.	Any, from 1 to 16

*4 Can be set when the "Trigger Type" is "Any" or "On".

Selecting "Timer expired" as an "Event"

Item	Detail	Setting range
Timer No.	Select the number of the timer.	1 to 8

Selecting "Notification" as an "Action"

Item	Detail	Setting range
Protocol	Select the communication protocol.	HTTP / HTTPS
URL	Enter the URL of the notification destination.	Alphanumerics and symbols (up to 32 characters)
Username	Enter the username for accessing the URL.	Alphanumerics and symbols (up to 32 characters)
Password	Enter the password for accessing the URL.	Alphanumerics and symbols (up to 32 characters)
Execute	Performs a confirmation test in order to access the specified URL.	

Selecting "Start a timer" as an "Action"

Item	Detail	Setting range
Timer No.	Select the number of the timer.	1 to 8
Duration	Set "Minute" and "Second".	"Minute": 0 to 59, "Second": 0 to 59

Selecting "SNMP Trap" as an "Action"

Item	Detail	Setting range
Trap Name	Enter the trap name.	Unicode printable characters (max. 128 characters)
Trap Message	Enter the trap message.	Unicode printable characters (max. 128 characters)
Test	Perform the SNMP trap send test.	Execute

Attention

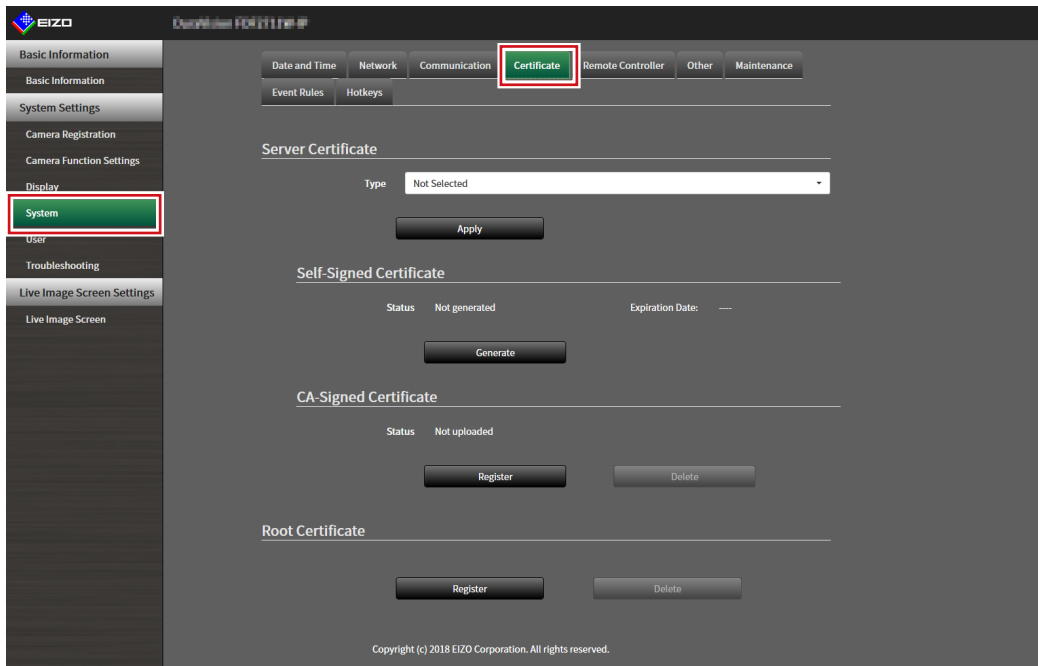• Set the SNMP "Trap Address" and "Trap Community" in advance.

5. Select "OK".

The settings are complete.

3-12. Performing Certificate Settings

1. Select "Certificate" of "System".

The "Certificate" screen is displayed.

2. Perform certificate settings.

Server Certificate

The Server Certificate is used when accessing this product from the web browser via HTTPS.

Attention
- A Certificate Signing Request (CSR) cannot be created with this product.
- CA-Signed Certificate registration is only possible via web browser.

Select "Type", and the select "Apply".

- Self-Signed Certificate

  Press the "Generate" button of the "Self-Signed Certificate" field to generate a certificate, and then select it.
- CA-Signed Certificate

  Press the "Register" button of the "CA-Signed Certificate" field to register a certificate, and then select it.

  Registration of information issued from the certifying body is required for registration.

Root Certificate

The root certificate is used in the following situations:
• Connecting HTTP to network cameras
• Connecting LDAPS to LDAP servers
• IEEE802.1X activation

Attention
• Root Certificate registration is only possible via web browser.
• A Root Certificate is not pre-installed in this product.

Select "Register", and the select "Root Certificate".

Register Certificate			✕
Root Certificate	No file is selected		Browse
			OK Cancel

3-13. Setting the Remote Control ID

This function is for use with models equipped with a remote control.

When using multiple units of this product, the product operated by a remote control can be limited by specifying the ID shared by the product and remote control.
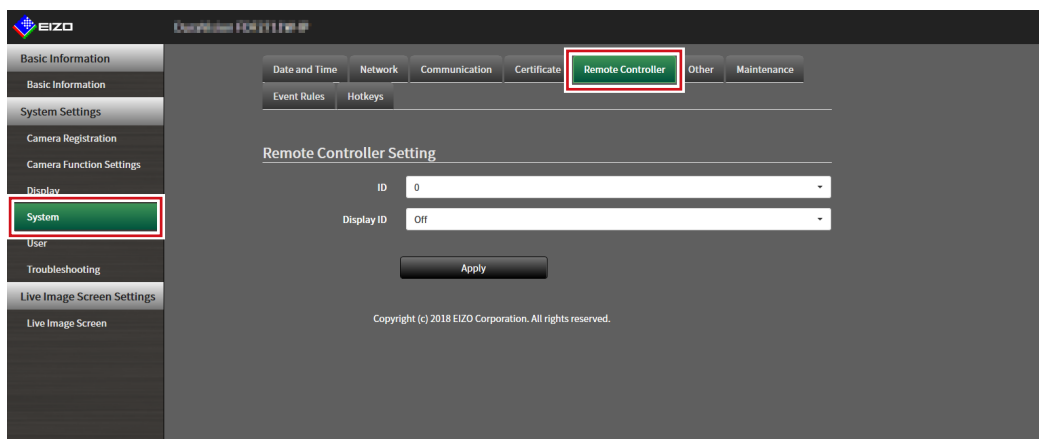
Note

- When the remote control ID is "0" it will operate even if the product ID and remote control ID does not match.
- The factory value of the remote control is "0".

● Setting the product ID

1. Select "Remote Controller" of "System".

The "Remote Controller" screen is displayed.

2. Set the following items.

Item	Detail	Setting range
ID	Select the number that will be the ID.	0 to 99
Display ID	When set to "On", the ID is displayed in the upper right of the Live Image Screen when the ID button of the remote control is pushed.	On / Off

3. Select "Apply".

The settings are complete.

● Setting the remote control ID

1. **Press and hold ID for more than 3 seconds.**

2. **With ID pressed, enter the ID (0 to 99) you want to set with the number buttons.**

> **Note**
>
> • If the ID you want to set is a single digit number, enter 0 before it.
>   (Ex: To set "3", enter "03".)

3. **Release ID.**

> **Note**
>
> • When confirming the ID of the remote control, set "Display ID " to "On", and press ID.
>   The current ID is displayed in the upper right of the Live Image Screen.
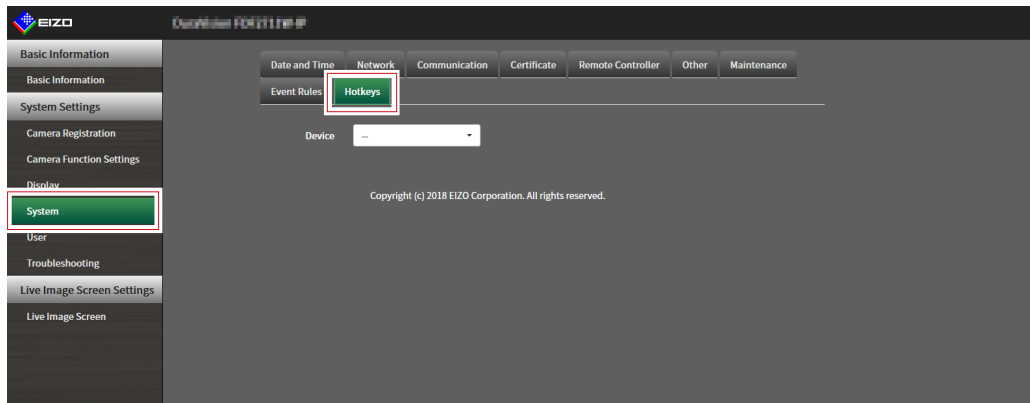
3-14. Configuring USB Device Hotkeys

It is possible to operate the live image screen using the buttons on the USB device (excl. mouse, keyboard).

Hinweis

• Supported USB devices are shown below.
  - AXIS T8311 (Joystick)

1. **In "System", select "Hotkeys".**

The "Hotkeys" screen is displayed.

2. **Select a USB device to be set from "Devices".**

A list of the selected USB device buttons is displayed.

3. Set the function of each button.

List of Functions

Element	Beschreibung
Vollbild	Displays/hides the live image screen menus.
1 Screen Layout	Changes the layout of the live image screen to 1 screen.
3 Screens Layout[*1]	Changes the layout of the live image screen to 3 screen.
4 Screens Layout[*1]	Changes the layout of the live image screen to 4 screen.
9 Screens Layout[*1]	Changes the layout of the live image screen to 9 screen.
16 Screens Layout[*1]	Changes the layout of the live image screen to 16 screen.
32 Screens Layout[*1]	Changes the layout of the live image screen to 32 screen.
8 Screens Layout[*1]	Changes the layout of the live image screen to 8 screen.
Custom Screen Layout[*1]	Changes the layout of the live image screen to Custom.
Sequence Mode	Turns the sequence display (mode that switches the pages to be displayed at regular intervals) of camera images on or off.
Page Up	Switches the camera images to be displayed on the live image screen to the next page.
Page Down	Switches the camera images to be displayed on the live image screen to the previous page.
Preset 1[*1]	Changes the layout of the live image screen to preset 1.
Preset 2[*1]	Changes the layout of the live image screen to preset 2.
Preset 3[*1]	Changes the layout of the live image screen to preset 3.
Preset 4[*1]	Changes the layout of the live image screen to preset 4.
Preset 5[*1]	Changes the layout of the live image screen to preset 5.
Preset 6[*1]	Changes the layout of the live image screen to preset 6.
Preset 7[*1]	Changes the layout of the live image screen to preset 7.
Layout Change	Switches the layout of the live image screen each time the button is pressed.
JoyStick Mode[*2]	Switches Joystick Mode on or off.
Mouse Left[*2]	Mouse Left Click.

*1 Can be set only when set to be displayed on the live image screen.

*2 Is set as default on specific USB devices. Can be set only to buttons where it is the default setting.

AXIS T8311 Default Setting

Item	Description
J1	Full Screen
J2	Layout Change
J3	Page Up
J4	Page Down
L[*3]	Mouse Left
R[*3]	JoyStick Mode

*3 Cannot be changed.
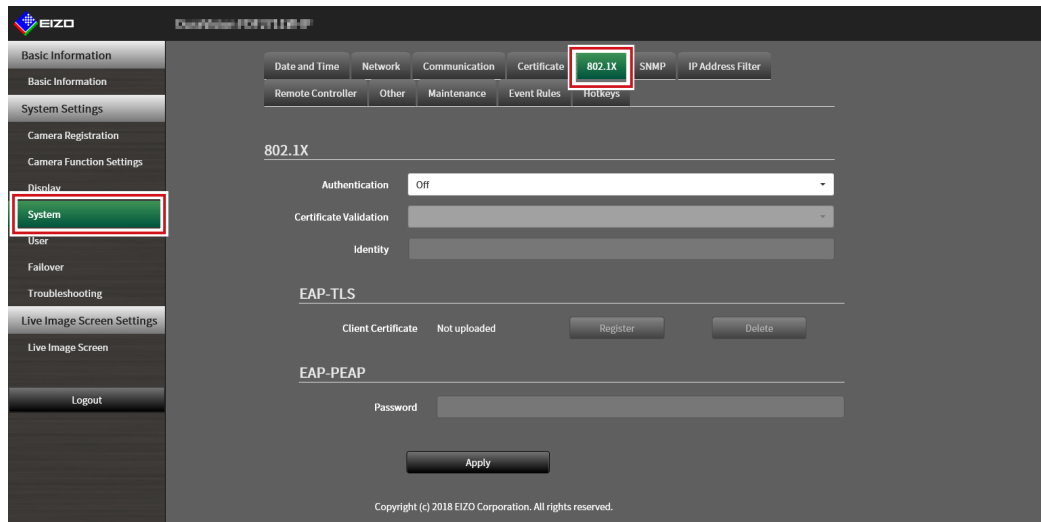
4. Select "Apply".

3-15. Setting IEEE 802.1X Authentication

Attention

- This function is only available in the Enterprise edition. For more information regarding software editions, see "3-10. Performing License Activation" (page 27).
- This product operates using EAPOL version 2 (IEEE 802.1X-2004).

1. Select "802.1X" under System.

The "802.1X" screen is displayed.

2. Set the following items.

Item	Description	Range
Authentication	Select the authentication method.	Off / EAP-TLS / EAP-PEAP
Certificate Validation	Select server certificate validation. **Attention** • When performing certificate validation, it is necessary for the root certificate of the authentication server to be registered in "Root Certificate" of "Certificate" of this product.	Off / On
Identity	Enter a username.	Alphanumerics and symbols (Up to 32 characters)

Selecting "EAP- TLS" in Authentication

Select "Register" in Client Certificate and set the following items. Client Certificate registration is only possible via web browser.
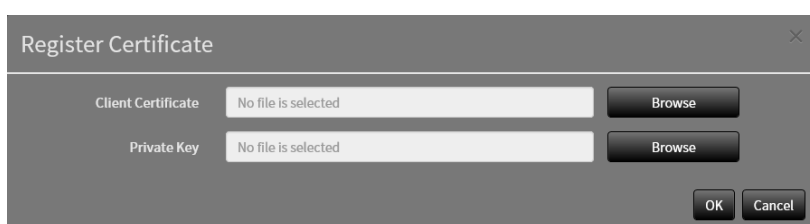
Item	Description	Range
Client Certificate	Sets the client certificate.	-
Private Key	Sets the private key.	-

Selecting "EAP- PEAP" in Authentication

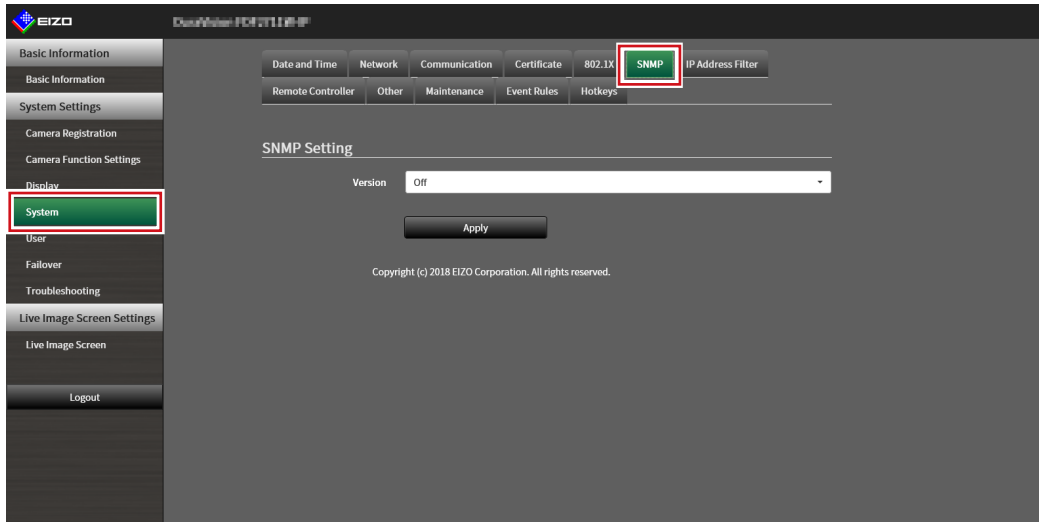| Item	Description	Range
Password	Enter a password.	Alphanumerics and symbols (Up to 32 characters)

3. Click "Apply".

3-16. Setting the product SNMP

You can set SNMP information acquisition or SNMP trap as an event rule action.

1. Select "SNMP" under System.

The "SNMP" screen is displayed.

2. Select "Version".

Selecting "v1 & v2c" in Version

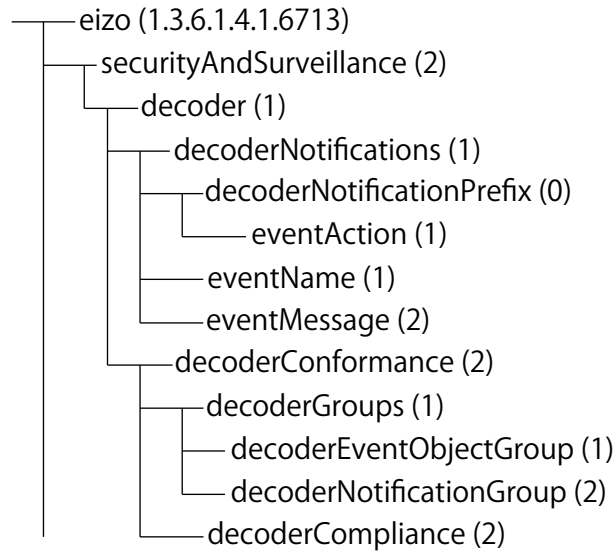| Item	Description	Range
Read Community	Enter the read community.	Alphanumerics and symbols (Up to 32 characters)
Trap Address	Enter the SNMP trap notification address of the Event Rule.	0.0.0.1 to 255.255.255.254
Trap Community	Enter the trap community.	Alphanumerics and symbols (Up to 32 characters)

3. Click "Apply".

Attention

• If the "Read Community" row is empty SNMP information acquisition cannot be performed.
• If the "Trap Address" and "Trap Community" rows are empty the event rule SNMP trap will not operate.

EIZO MIB structure

When using SNMP with this product, it is necessary to import the following modules into the SNMP manager. Download the MIB file from the EIZO website (www.eizoglobal.com) ahead of time.
- EIZO-ROOT-MIB
- EIZO-SECURITY-MIB
- EIZO-DECODER-MIB

MIB Tree

```
eizo (1.3.6.1.4.1.6713)
  securityAndSurveillance (2)
    decoder (1)
      decoderNotifications (1)
        decoderNotificationPrefix (0)
          eventAction (1)
        eventName (1)
        eventMessage (2)
      decoderConformance (2)
        decoderGroups (1)
          decoderEventObjectGroup (1)
          decoderNotificationGroup (2)
        decoderCompliance (2)
```

Name	OID	TYPE	SYNTAX	MAX-ACCESS	Description
eventAction	.6713.2.1.1.0.1	NOTIFICATION-TYPE	-	-	Trap when executing actions
eventName	.6713.2.1.1.1	OBJECT-TYPE	SnmpAdminString	accessiblefor-notify	Event name defined in the event rules
eventMessage	.6713.2.1.1.2	OBJECT-TYPE	SnmpAdminString	accessiblefor-notify	Event message defined in the event rules

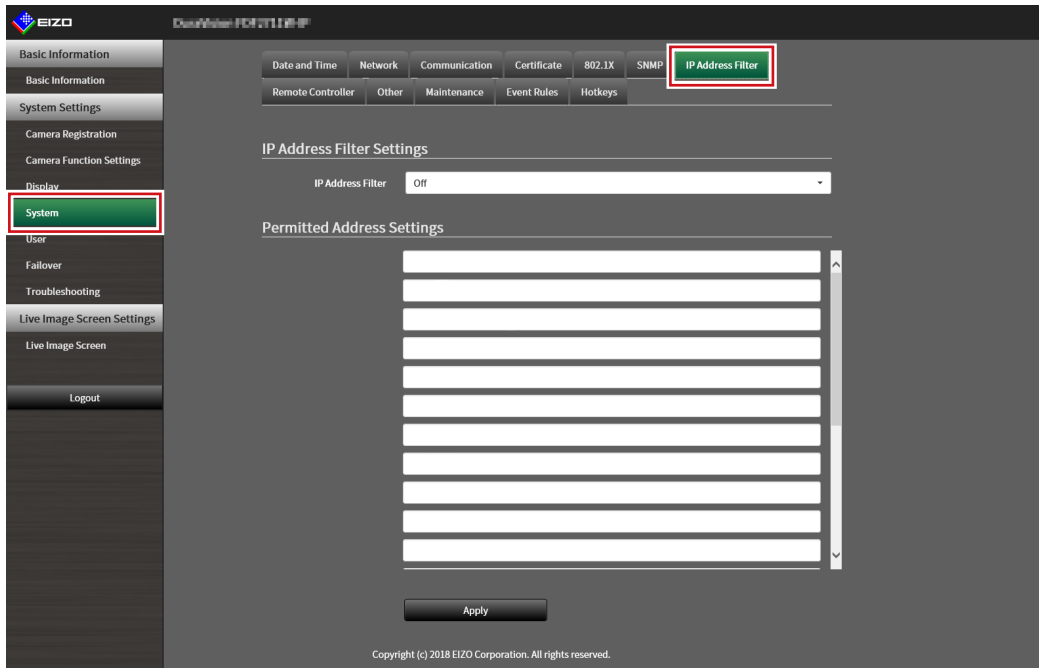# 3-17. Setting an IP Address Filter

Limit the IP address of computers that can access the system.

Attention

• If the IP address filter is not set up correctly, it will not be possible to access this product.

---

1. Select "IP Address Filter" under System.

The "IP Address Filter" screen is displayed.

2. Set the following items.

Item	Description	Range
IP Address Filter	Select whether to enable or disable the function.	Off / On
Permitted IP Address Settings	Enter the IP addresses of the computers permitted access. Enter using CIDR notation if setting an IP address range.	0.0.0.1 to 255.255.255.254

3. Click "Apply".

Attention

• If "IP Address Filter" is set to "On" the camera will not be found when performing camera search.
• If "IP Address Filter" is set to "On" the communication for receiving camera images is not limited.

3-18. Setting Failover

When failover is enabled, alive monitoring is performed for the displayed network camera. If an error occurs or data reception from a camera stops for a certain period of time, the system determines that a failure has occurred and switches the display to the registered failover camera set. When switching to failover the camera image border displays in yellow.

Attention

• This function is only available in the Enterprise edition and when the extension "Failover" is enabled. For more information regarding software editions, see "3-10. Performing License Activation" (page 27).

Note

• Perform any of the following operations to switch the display from failover to the regular camera set.
  - Go to the main unit settings screen then return to the camera display screen.
  - Register "Failover" in the event rules and use an auxiliary command.
  - From the Web browser, go to "System Status Settings" under "Live Image Screen", then set "Camera Mode" to "Standard".

● Failover Settings

1. Select "Failover Settings" under Failover.

The "Failover Settings" screen is displayed.

2. Set the following items.

Item	Description	Range
Failover	Select whether to enable or disable the function.	Off / On
Detection Method	Select the detection method. **Note** • Failure detection is performed only for the camera currently displayed. Cameras that are not displayed are not applicable.	Failure with all cameras / Failure with any camera
Detection Sensitivity	Sets the time required to pass after video data reception has stopped for a communication failure to be detected. • High If video data reception stops for several seconds, a communication failure is detected. • Low If video data reception stops for about 30 seconds, a communication failure is detected.	Low / High

3. Click "Apply".

● Camera Registration

Register the failover network cameras.

1. Select "Camera Registration" under Failover.

The "Camera Registration" screen is displayed.
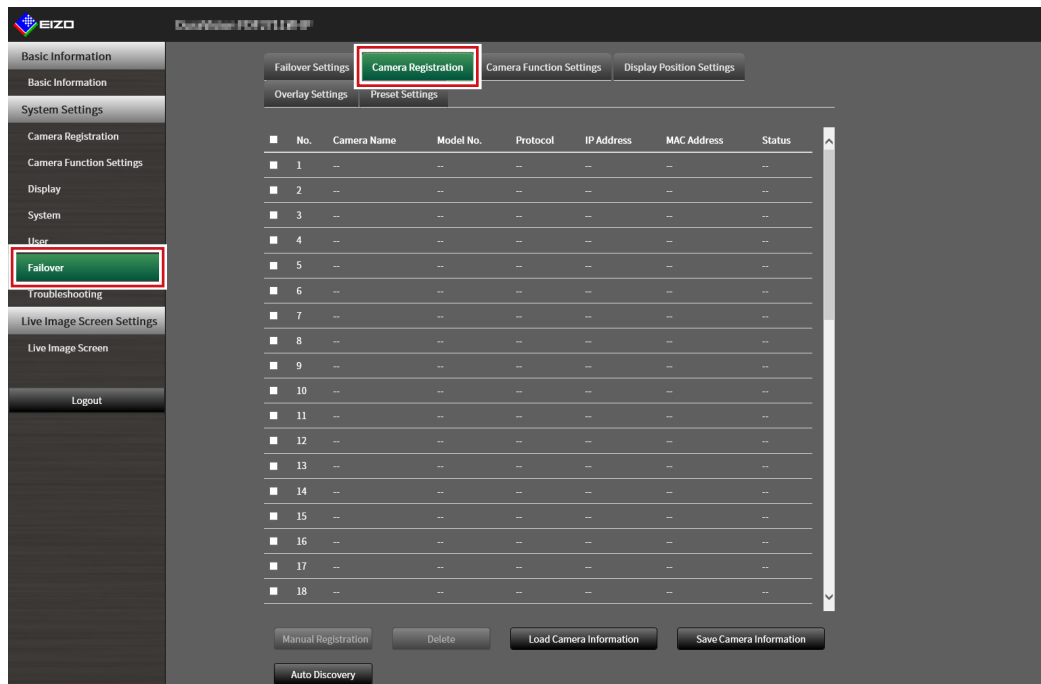
2. Register the camera while browsing the following items.

● Camera Function Settings

Set the failover network camera time, transmission image quality, and preset position.

1. Select "Camera Function Settings" under Failover.

The "Camera Function Settings" screen is displayed.

2. Configure the camera by referring to the following.

● Display Position Settings

Set the failover network camera image display position.

1. Select "Display Position Settings" under Failover.

The "Display Position Settings" screen is displayed.
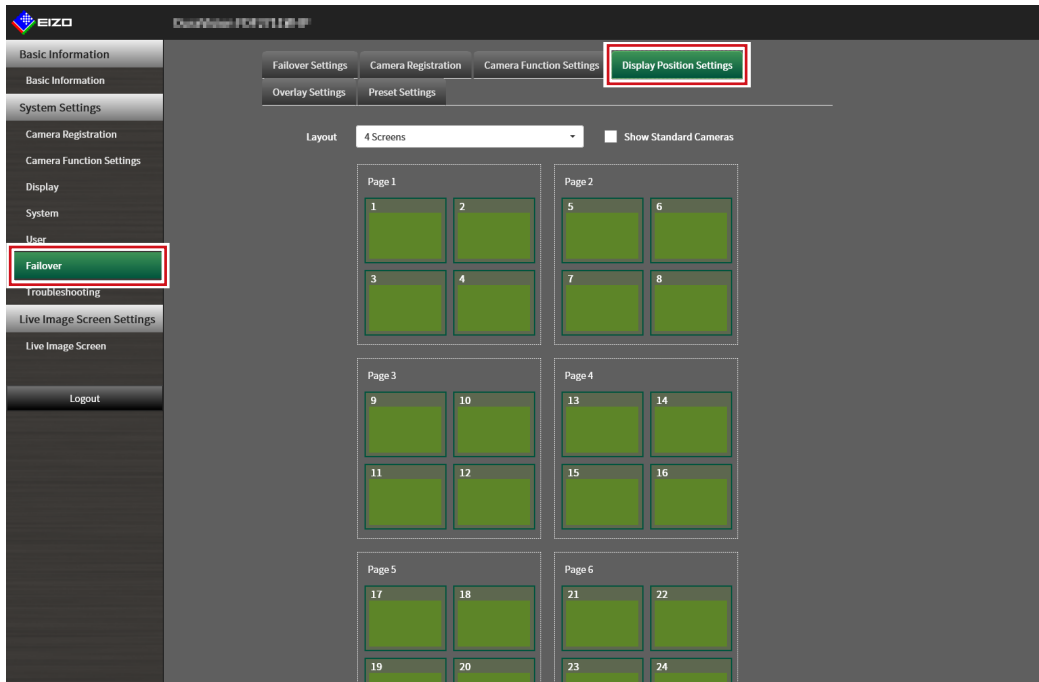
Note

• Check the "Show Standard Cameras" to activate the display of the name of the network cameras usually used.

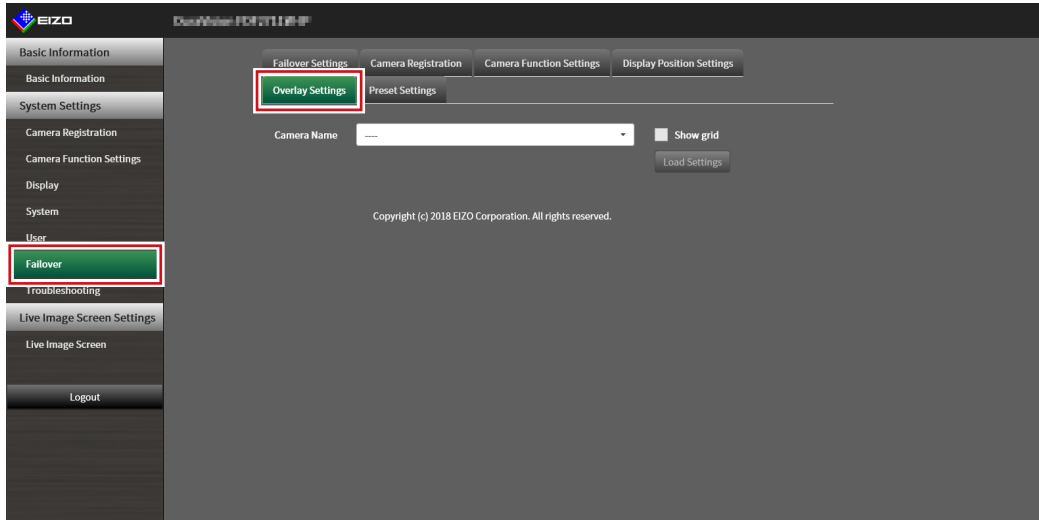### 2. Configure the camera by referring to the following.

"5-1. Setting Display Positions of Camera Video Images" (page 70)

● Overlay Settings

It is possible to display privacy masks or virtual lines on camera images of the failover network camera.

1. Select "Overlay Settings" under Failover.

The "Overlay Settings" screen is displayed.

Note

• After selecting "Camera Name" you can load settings of the network cameras that are usually used by clicking "Load Settings".

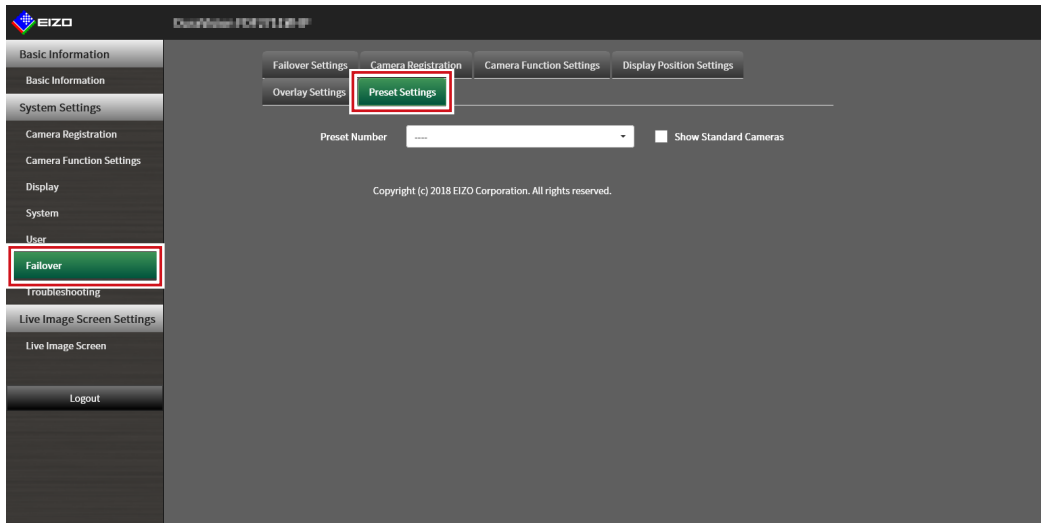**2.** Set the overlay items while browsing the following items.

● Preset Settings

Register the preset position of the failover network cameras.

1. Select "Preset Settings" under Failover.

The "Preset Settings" screen is displayed.

> **Note**
> • Check the "Show Standard Cameras" to activate the display of the name of the network cameras usually used.

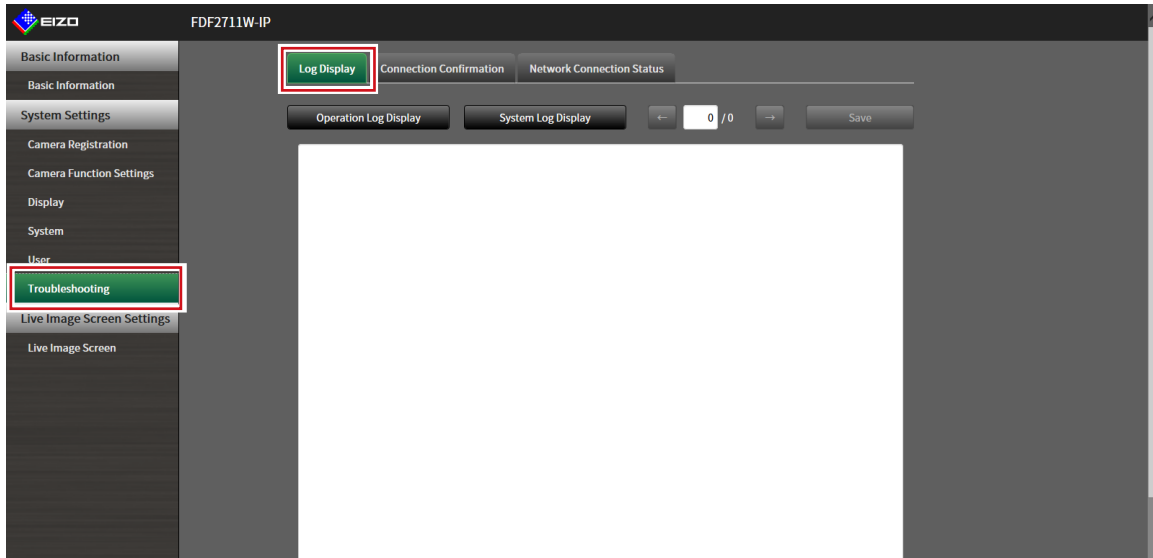### 2. Configure the camera by referring to the following.

"4-9. Registering the Network Camera Preset Position" (page 68)

3-19. Checking Logs

This system records operation logs and system logs. They can be used to check the current or past conditions of the system or to find out the cause when a problem occurs.
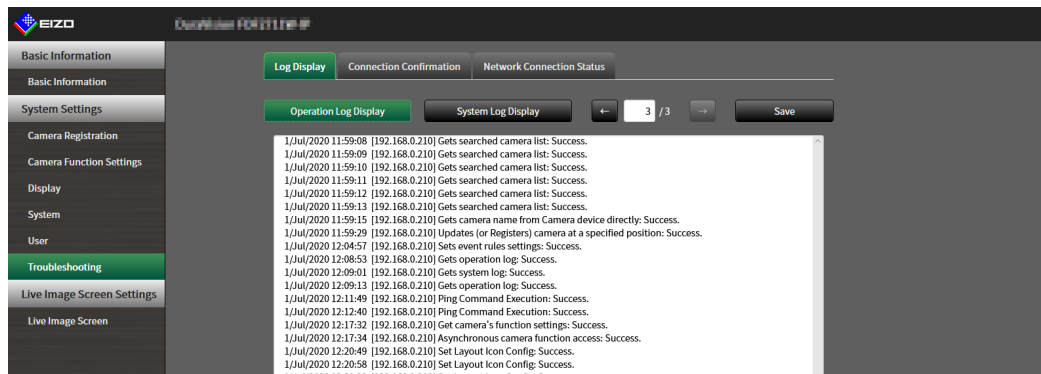
1. Select "Log Display" of "Troubleshooting".

The "Log Display" screen is displayed.

2. Select "Operation Log Display" or "System Log Display".

The log is displayed in the lower area.

3-20. Saving Logs
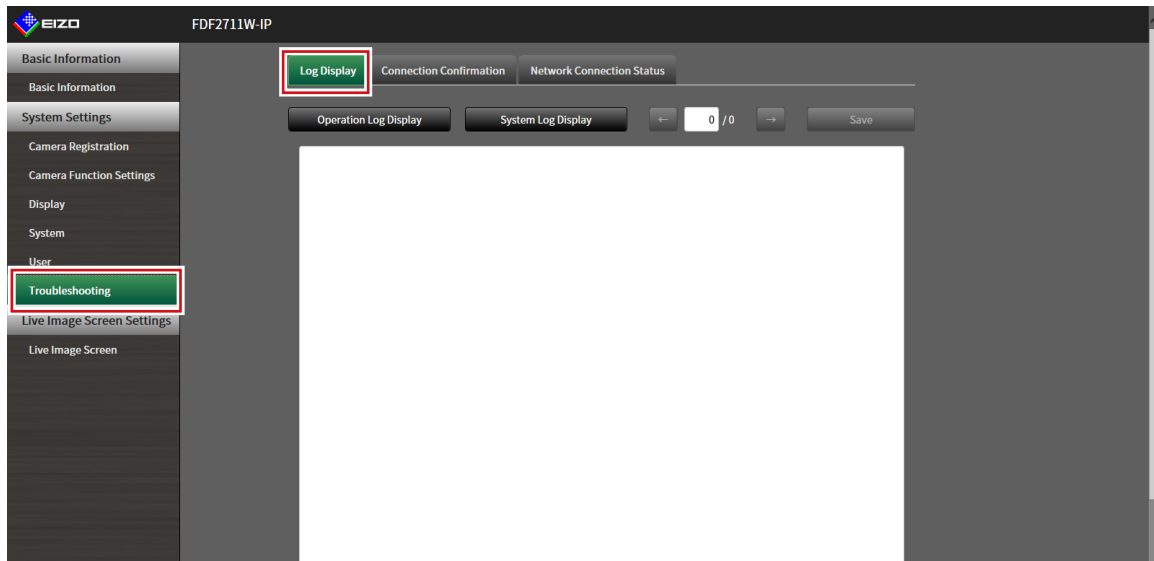
Save operation logs and system logs.

Use these logs to check the current or past conditions of the system or to find out the cause when a problem occurs.

Attention

• This function can be used only when using the web browser.

1. Select "Log Display" of "Troubleshooting".

The "Log Display" screen is displayed.

2. Select "Operation Log Display" or "System Log Display".

The log is displayed in the lower area.

3. Select "Save".

The saving destination dialog box is displayed.

4. Select a saving destination.

5. Select "Save".

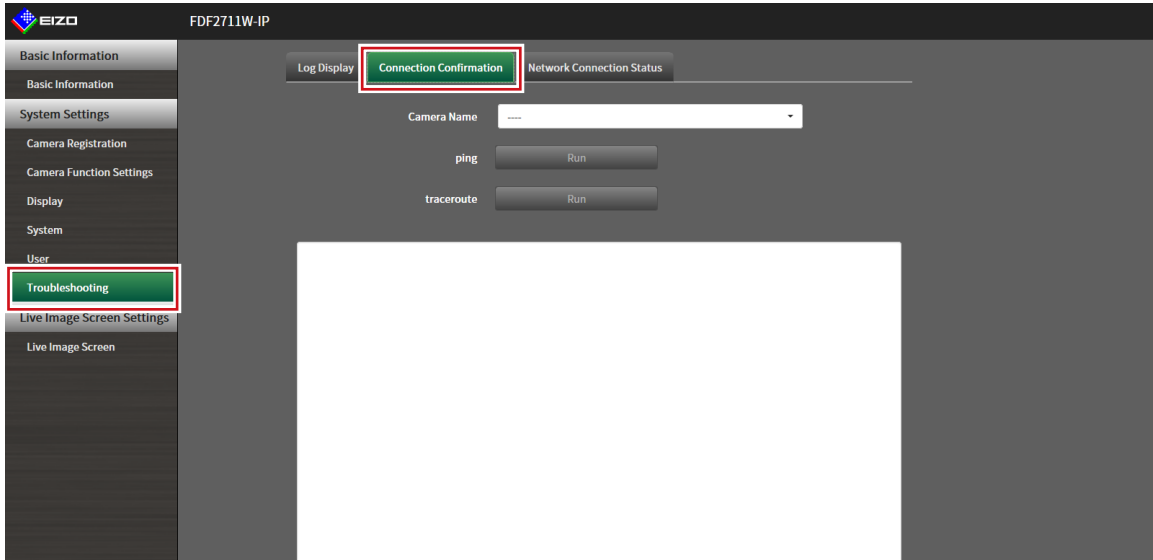# 3-21. Performing Camera Connection Confirmation

The connection status of the network cameras can be confirmed.

Attention

• This function can be used only when using the web browser.

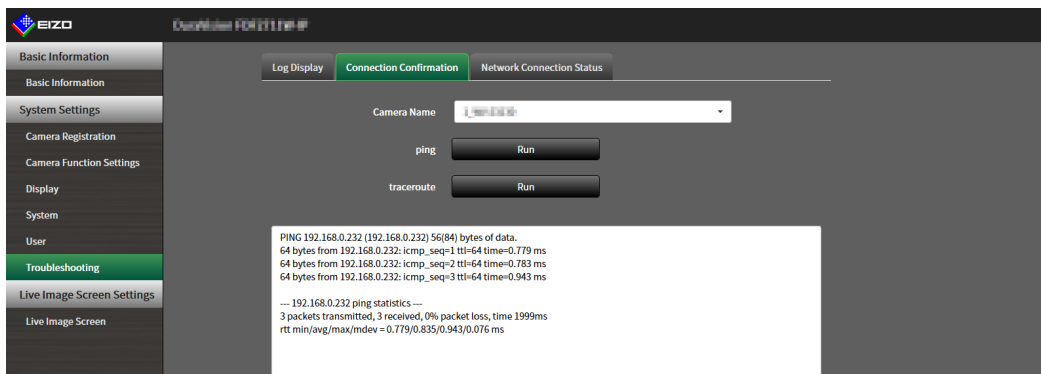**1. Select "Connection Confirmation" of "Troubleshooting".**

The "Connection Confirmation" screen is displayed.

2. Select "Camera Name".

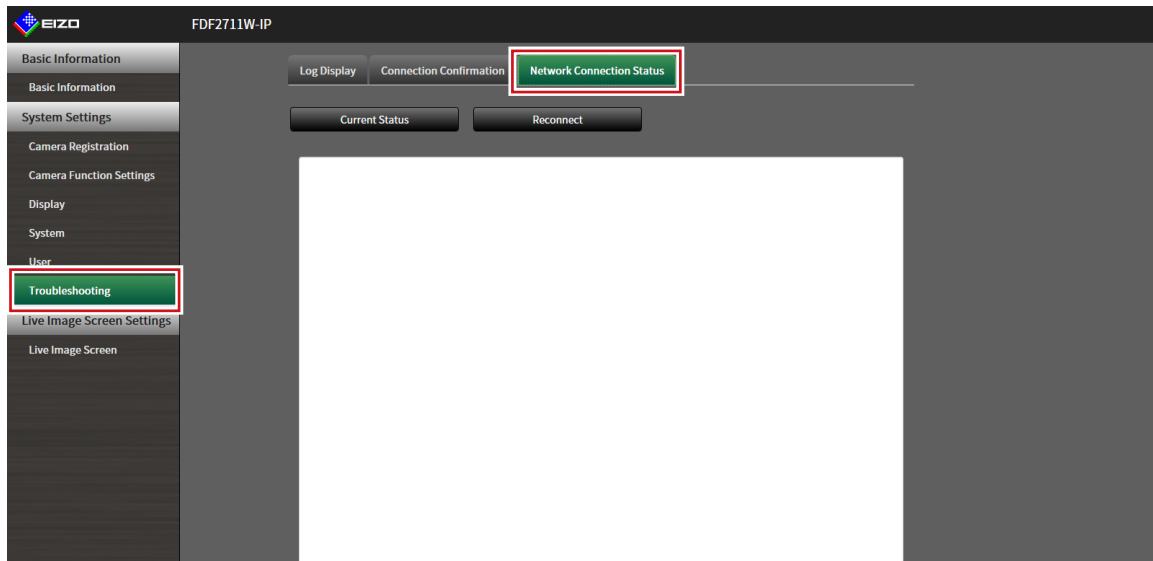**3. Select "Run" for "ping" or "traceroute".**

The connection status is displayed in the lower area.

3-22. Confirming Network Connection Status

1. **Select "Network Connection Status" of "Troubleshooting".**

   The "Network Connection Status" screen is displayed.

2. **Select "Current Status".**

   The connection status is displayed in the lower area.

Note

   • Select "Reconnect" to reset the network status. The connection status is not displayed.

Chapter 4   Management of Network Cameras

This section describes the procedure for network camera registration and function settings, and to reflect them on the system.

These operations can be performed from the application screen or from the web browser.

This chapter explains the procedure using the web browser. However, except for a few functions, the same functions can be used with either method.

4-1.   Registering a Network Camera Using Auto Discovery

Network cameras installed on the same network as this product can be automatically detected and registered.

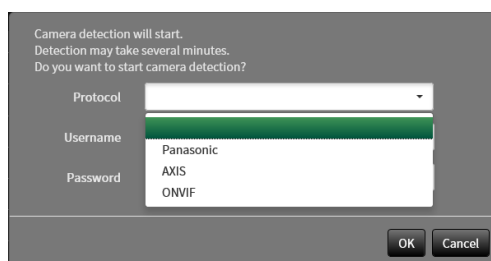### 1. Select "Camera Registration".

A screen is displayed to show a list of camera registration information.
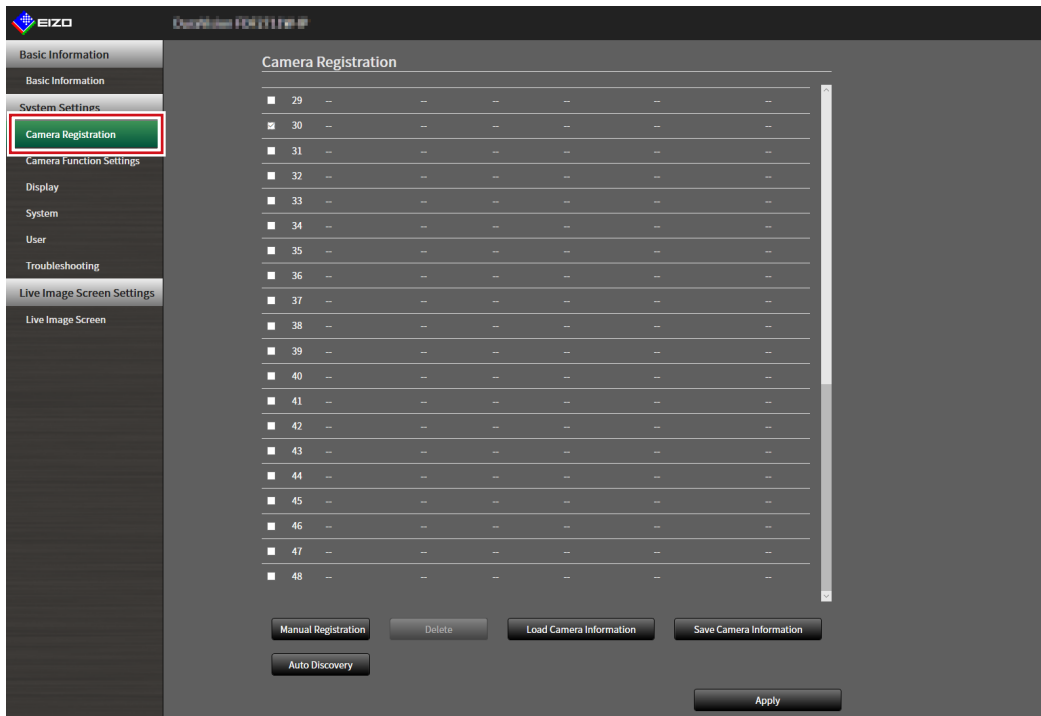
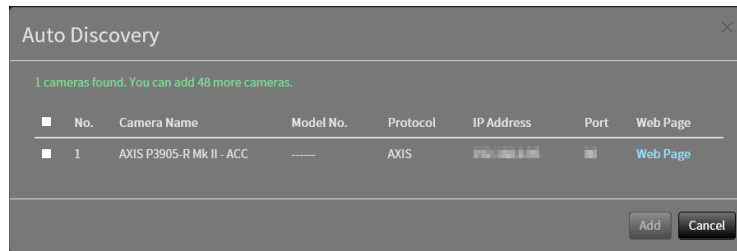### 2. Select "Auto Discovery" in the lower part of the screen.

3. Select "Protocol".

Select from "Panasonic", "AXIS", and "ONVIF".

4. **Enter the network camera "Username" and "Password", and select "OK".**

Displays the detection results.

Auto Discovery						×
1 cameras found. You can add 48 more cameras.						
☐	No.	Camera Name	Model No.	Protocol	IP Address	Port	Web Page
☐	1	AXIS P3905-R Mk II - ACC	------	AXIS			Web Page
						Add	Cancel

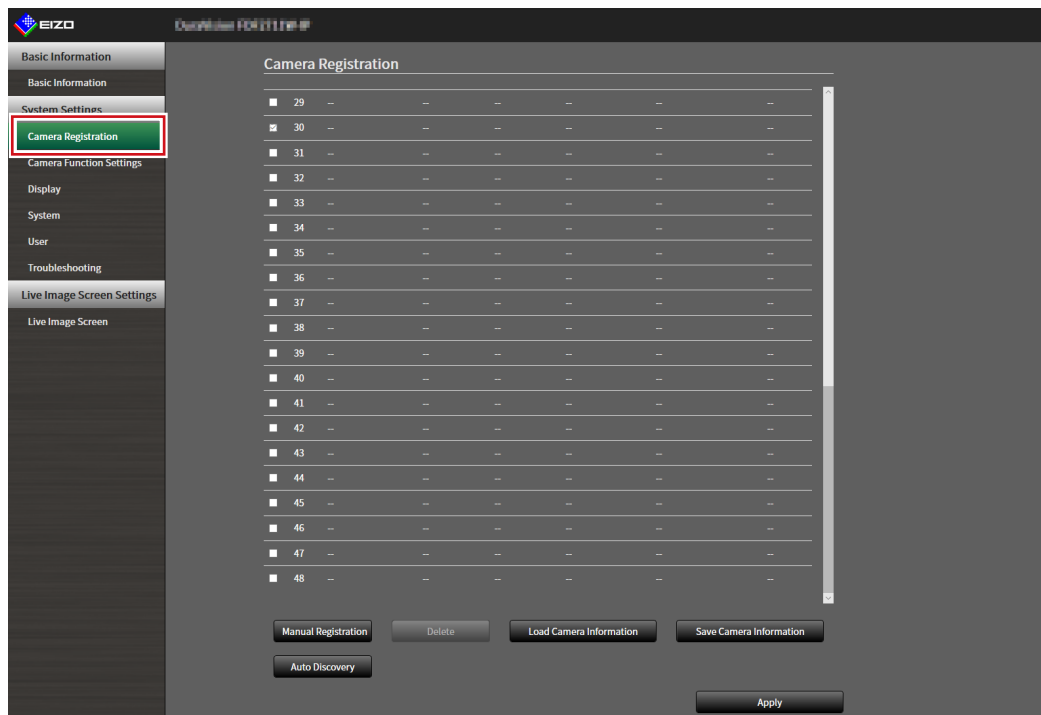**5.** **Place a check in the camera to register, and select "Add".**

The camera is registered.

6. **Select "Apply".**

4-2. Registering a Network Camera Manually

1. **Select "Camera Registration".**

A screen is displayed to show a list of camera registration information.

2. **Select a position where the camera is to be registered.**

Place a check mark on the check box of the position number where the camera is to be registered.

3. **Select "Manual Registration" in the lower part of the screen.**

The "Camera Information Settings" dialog box is displayed.

4. Set each item and select "OK".

Item	Detail	Setting range
Camera Name[*1]	Enter the camera name. If "Obtain Camera Name" is selected, the camera name is automatically obtained from the network camera.[*2] **Attention** • "Obtain Camera Name" cannot be used if Protocol is set to "DirectUri" or "SRT".	Alphanumeric, kana[*3], and kanji[*3] (Up to 24 characters)
IP Address	Enter the IP address of the network camera.	0.0.0.1 to 255.255.255.254
"Ping" button	Executes a connection test with the camera (i.e. ping command).	-
Port	Enter the port number of the network camera.	1 to 65535[*4]
SSL[*5]	Provides secure communication.	-
Certificate Validation	Select certificate validation during SSL communication. **Attention** • If "Certificate Validation" is "On," the Root Certificate of the network camera must be registered in "Root Certificate" of "Certificate".	On / Off
Protocol	Select the protocol to control cameras.	Panasonic / AXIS / ONVIF / DirectUri / SRT[*6]
Username[*7]	Enter the user name to be used to access the network camera.	Alphanumerics and symbols (Up to 32 characters)
Password[*7]	Enter the password to be used to access the network camera.	Alphanumerics and symbols (Up to 32 characters)
Media Profile[*8]	Select the media profile of the network camera. Select "Obtain Profile" to obtain a list of profiles from the network camera.	EIZO_Profile / Profile of each camera
Transmission Mode[*8]	Select the mode for transmitting camera video images.	Unicast / Multicast
URI[*9]	When Protocol is set to "DirectURI", set a URI that starts with rtsp:// or rtp://. When Protocol is set to "SRT", set a URI that starts with srt://.	Alphanumerics (Up to 1023 characters)
Comm. Method[*10]	Select the communication method for camera video images.	RTP over UDP[*11] / RTP over RTSP / SRTP over UDP[*12] / MPEG2-TS over UDP[*13]
Stream[*14]	Select a stream format.	1 / 2 / 3 / 4
Channel[*14]	Select a stream channel.	1 / 2 / 3 / 4
RS485PTZ Control[*14]	Select whether or not PTZ operation is enabled for the camera that supports RS 485 communication.	On / Off

Video Stream[*15]	Select a video stream format.	Depends on the camera
Stream Profile[*15]	Select a stream profile.	Depends on the camera
Latency[*16]	Sets the latency.	20 ms to 8000 ms
Passphrase[*16]	Sets the passphrase.	Alphanumerics and symbols (Up to 79 characters)

*1   This can be obtained only when "IP Address", "Port", "Username", and "Password" are input.
*2   The "Obtain Camera Name" does not display if Protocol is "DirectUri" or "SRT".
*3   This can be input only when displayed on the web browser.
*4   When "Protocol" is "DirectUri" and "URI" starts with rtp://, the setting range will be 1824 to 65534 and an even number. When "Comm. Method" is "MPEG2-TS over UDP", the setting range will be 1024 to 65535.
*5   Can only be set if "Protocol" is "Panasonic", "AXIS", or "ONVIF".
*6   Can only be set in the Enterprise edition and when the extension "SRT" is enabled. In addition, only Caller is supported for the Connection mode.
*7   Enter the username and password of the user who has the administrator's rights. For details, refer to the network camera User's Manual.
*8   This can be set only when "Protocol" is set to "ONVIF".
*9   Can only be set when Protocol is "DirectUri" or "SRT".
*10 Can only be set if Protocol is "Panasonic", "AXIS", "ONVIF", or "DirectUri".
*11 In the following cases, it is only possible to set "RTP over UDP".
  • In the case where "Protocol" is set to "ONVIF" and "Transmission Mode" is set to "Multicast"
  • When "Protocol" is set to "DirectUri" and "rtp://Multicast Address" is correctly entered into URI
*12 Can be set upon fulfilling all of the following conditions.
  • Using "Enterprise" edition
  • "Protocol" is "AXIS"
  • "SSL" is checked
  • Camera SRTP setting is enabled
*13 This can be set only when "Protocol" is "DirectUri". When "Comm. Method" is set to "MPEG2-TS over UPD", items other than "Camera Name", "Port", "Protocol", and "Comm. Method" are disabled. To receive the stream in MPEG2-TS over UPD format, make the stream transmission settings for this product from the transmitter in advance.
*14 This can be set only when "Protocol" is set to "Panasonic".
*15 This can be set only when "Protocol" is set to "AXIS".
*16 Can only be set if Protocol is "SRT".

Note

• To receive an MPEG2-TS stream with RTP, set "Protocol" to "DirectUri", and set "Comm. Method" to "RTP over UDP" or "RTP over RTSP".
• To receive an MPEG2-TS stream with UDP, specify the port to receive the stream in "Port", set "Protocol" to "DirectUri", and set "Comm. Method" to "MPEG2-TS over UDP". You should also make stream transmission settings for this product from the transmitter in advance.

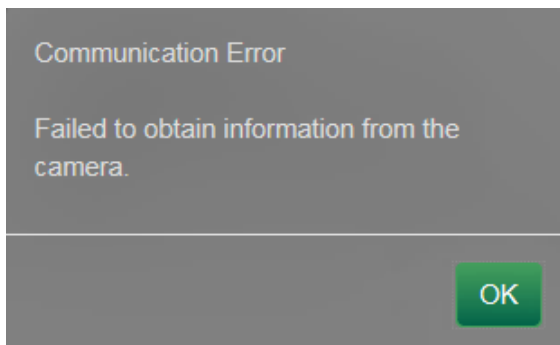Returns to the screen that shows a list of camera registration information in the step 1 above.

5. Select "Apply".

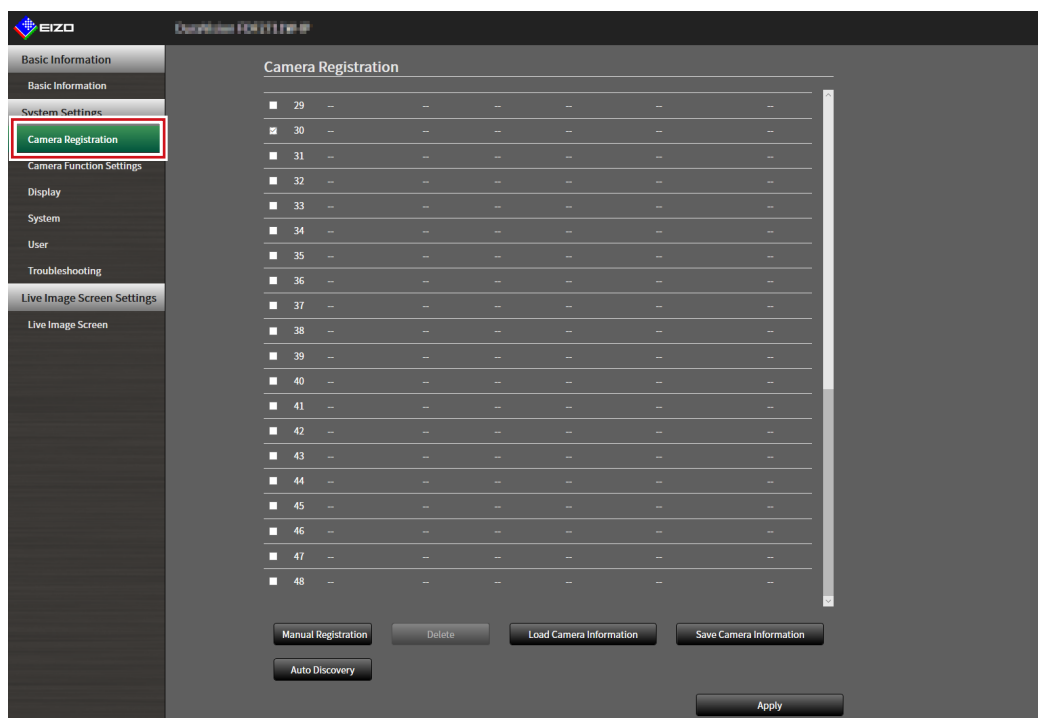A confirmation message is displayed.

6. Select "OK".

> **Note**
> • If there is a failure in obtaining "Obtain Camera Name" or "Obtain Profile" information, the following message is displayed. Try obtaining the information again.

4-3. Changing Network Camera Information

1. Select "Camera Registration".

A screen is displayed to show a list of camera registration information.

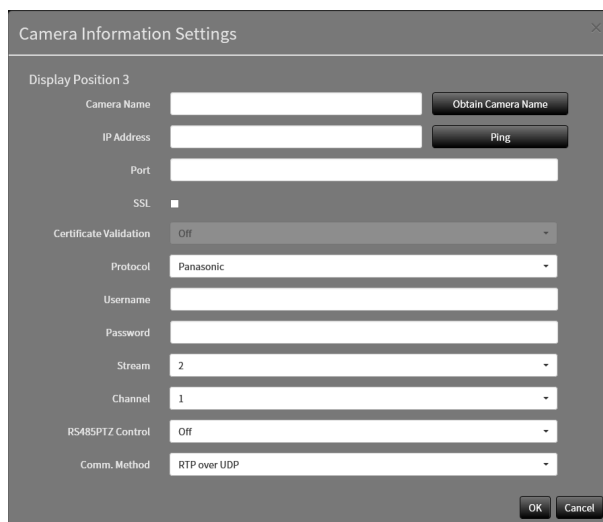## 2. Select the position number of the camera to be changed.

Place a check mark on the check box of the position number of the camera to be changed.

3. Select "Manual Registration".

The "Camera Information Settings" dialog box is displayed.

4. Set each item and select "OK".

Returns to the camera registration information list screen in step 1.

Camera Information Settings	✕
Display Position 3	
Camera Name	[_____] Obtain Camera Name
IP Address	[_____] Ping
Port	[_____]
SSL	☐
Certificate Validation	Off ▾
Protocol	Panasonic ▾
Username	[_____]
Password	[_____]
Stream	2 ▾
Channel	1 ▾
RS485PTZ Control	Off ▾
Comm. Method	RTP over UDP ▾
	OK Cancel

> **Note**
> • For details, refer to step 3 under "4-2. Registering a Network Camera Manually" (page 55).
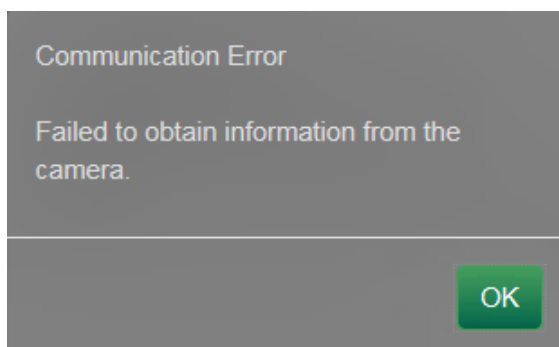
5. Select "Apply".

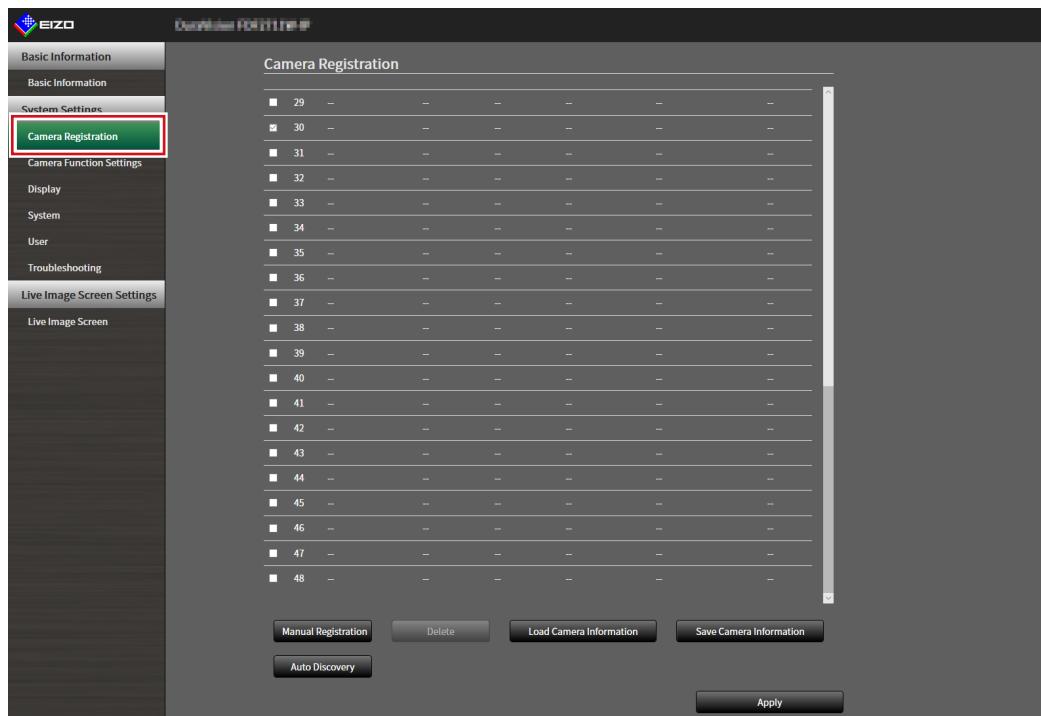A confirmation message is displayed.

6. Select "OK".

> **Note**
> • If there is a failure in obtaining "Obtain Camera Name" or "Obtain Profile" information, the following message is displayed. Try obtaining the information again.

> **Communication Error**
>
> Failed to obtain information from the camera.
>
> OK

4-4. Deleting Network Cameras

1. **Select "Camera Registration".**

   A screen is displayed to show a list of camera registration information.
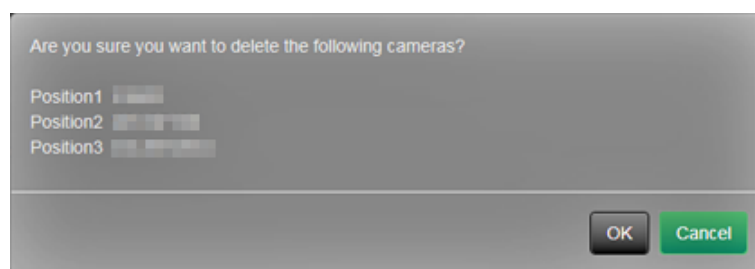

2. **Select the camera to be deleted.**

   Place a check mark on the check box of the position number of the camera to be deleted.

3. **Select "Delete" in the lower part of the screen.**

   A confirmation message is displayed.

4. **Select "OK".**

   Returns to the screen that shows a list of camera registration information.

5. **Select "Apply".**

   A confirmation message is displayed.

6. **Select "OK".**

4-5. Exporting Network Camera Information

The list of camera registration information can be saved in a CSV file.
The exported file can be used when transferring network camera information.

> **Attention**
> • This function can be used only when using the web browser.

1. Select "Camera Registration".

A screen is displayed to show a list of camera registration information.
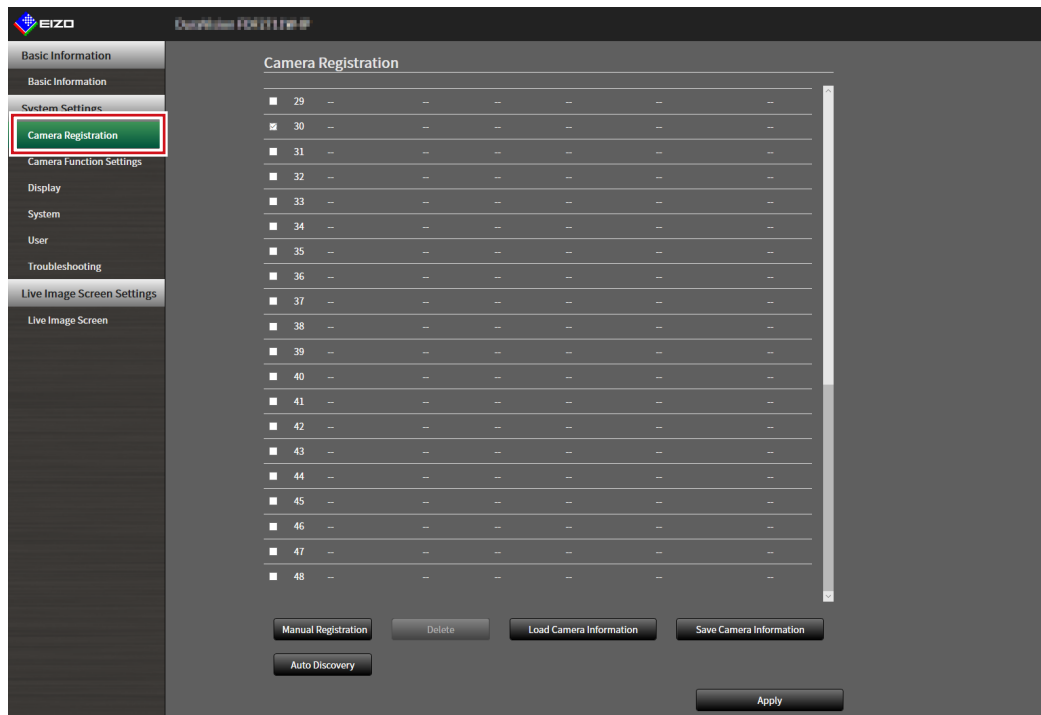
2. Select "Save Camera Information".

A CSV file containing the camera information displayed in the information list is exported.

> **Note**
> • Saved file name: fdf2711w_CameraInfo_yyyymmdd.csv (The date and time of the product is yyyymmdd.)

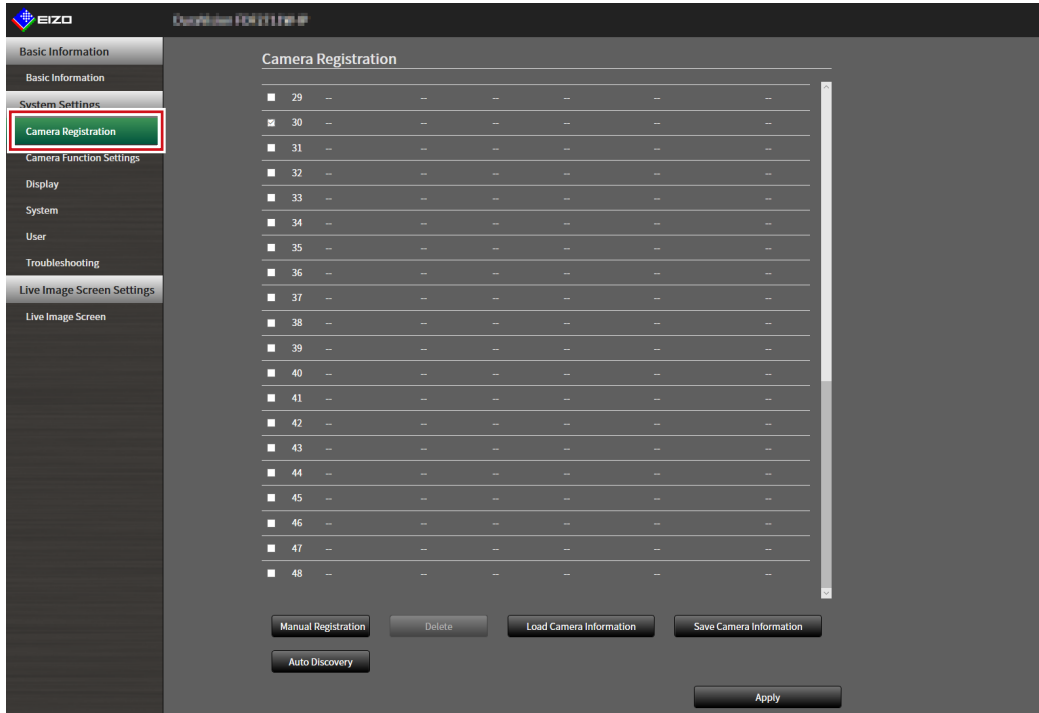# 4-6. Importing Network Camera Information

A CSV file that contains additional camera candidates can be imported and used for registration.

Attention

• This function can be used only when using the web browser.

1. Select "Camera Registration".

A screen is displayed to show a list of camera registration information.

2. Select "Load Camera Information".

A file selection dialog box opens.

3. Select the CSV file that contains the network camera information and select "Open".

A list of the candidate network cameras appears.

4. Select a camera to be added from the list of candidates and select "Add".

Returns to the camera registration information list screen in step 1.

---

5. Select "Apply".

A setting confirmation dialog box is displayed.

6. Select "OK".

Note

- Up to 255 candidate cameras can be read.
- The CSV files that can be read are as follows.
  - CSV files exported from the web browser
  - CSV files created by the user
- For details on how to export CSV files, refer to "4-5. Exporting Network Camera Information" (page 61).

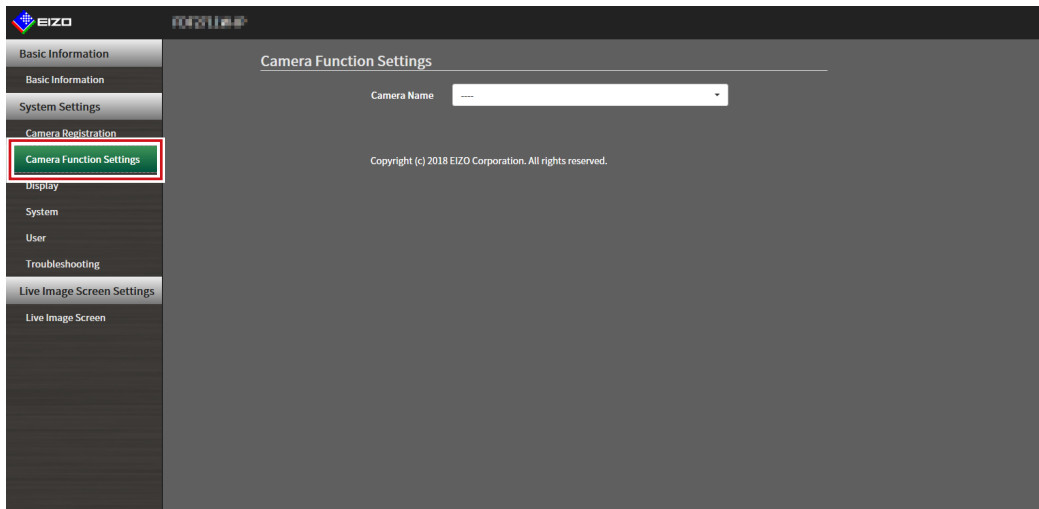# 4-7. Setting Network Camera Time

Adjust the time of the network camera to the time of this product.

Attention
- Cannot be set if the camera does not support this function.
- Can only be set when "Protocol" is "Panasonic" or "ONVIF" during camera registration.

1. Select "Camera Function Settings".

The "Camera Function Settings" screen is displayed.

2. Select a network camera to be set from "Camera Name".

Information on the selected network camera is displayed.

3. Select "Execute" for "Camera Info. Display/Clock Settings".

The clock is synchronized.

Note
- The following settings are possible when "Protocol" of the registered camera is "Panasonic".
  - Camera Information Display
  - Time Display
  - Display Position

4-8. Setting Quality of Transmission Video Images

Set the quality of video images transmitted from the network cameras.

> **Note**
> • This product supports H.264, H.265 (Panasonic and TOA only), MJPEG (ONVIF only) video compression formats.

> **Attention**
> • When devices such as recorders are connected to a network camera, the display and recording of such devices may be affected.
> • Cannot be set if Protocol of the network camera is set to "DirectUri" or "SRT".

1. Select "Camera Function Settings".
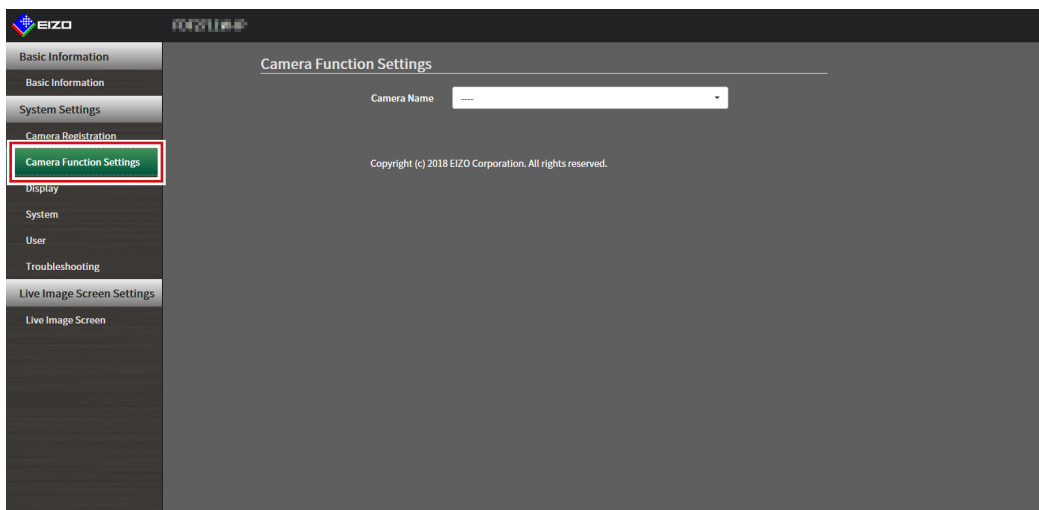
The "Camera Function Settings" screen is displayed.

2. Select a network camera to be set from "Camera Name".

Information on the selected network camera is displayed.

3. Set the following items under "Video Settings".

Protocol			Item	Detail	Setting range
Panasonic	AXIS	ONVIF			
		√	Media Profile	Select the profile.	EIZO_Profile / Profile of each camera
		√	Encoder	Select the encoder settings.	According to the camera specifications
√[*3]	√	√	Compression Format	Select the compression format.	H.264 / H.265 / MJPEG
√[*3]	√	√	Resolution	Set the resolution.	According to the camera specifications
√[*4]	√	√	Frame Rate	Set the frame rate (video image update interval).	According to the camera specifications
		√	Encoding Interval	Set the encoder interval.	According to the camera specifications
√	√	√	Bit Rate (Max.)	Set the maximum bit rate.	0 to 8192 kbps
		√	Video Quality	Set the image quality. The higher the value, the higher the image quality.	According to the camera specifications
		√	GOV Length[*1]	Set the I-frame interval.	According to the camera specifications
		√	H.264 Profile[*1]	Select a H.264 standard profile.	Baseline / Main / Extended / High
√[*3]	√[*3]	√[*3]	Comm. Method	The communication methods for camera video images are displayed.	RTP over UDP / RTP over RTSP / SRTP over UDP
√[*3]	√	√	Transmission Mode	Select the transmission mode.	Unicast / Multicast
√[*3]	√	√[*2]	Multicast Address[*2]	Set the Multicast address for Multicast transmission.	224.0.0.0 to 239.255.255.255
√[*3]	√	√[*2]	Multicast Port[*2]	Set the Multicast port number for Multicast transmission.	1824 to 65534: even numbers only
√[*3]	√	√[*2]	Multicast TTL[*2]	Set the network TTL value for Multicast transmission.	According to the camera specifications
√			Refresh Interval	Set the refresh interval (I-frame interval) of images.	0.2 to 5 seconds
√			Transmission Priority	Set the video bit rate transmission priority.	Constant Bit Rate / Frame Rate / Best Effort
√[*5]			Bit Rate (Min.)	Set the minimum bit rate for the video to be transferred.	0 to 8192 kbps
√[*6]			Image Quality	Set the image quality for the video to be transferred.	Fine (prioritize image quality) / Normal / Low (prioritize motion)
	√		Video Stream	Select the display mode to be used by the camera display.	According to the camera specifications
	√		Stream Profile	Select the profile that the camera has.	EIZO_Profile / Profile of each camera
	√[*3]		Rotation	Select the rotation direction of the images.	0 / 90 / 180 / 270
	√[*3]		GOP Length[*1]	Select the GOP length for the video.	According to the camera specifications
	√		Priority[*1]	Sets the priority for video compression.	None / Frame Rate / Quality

*1   Displayed when "H.264" is selected for "Compression Format".
*2   Displayed when "Multicast" is selected for "Transmission Mode".
*3   Read Only
*4   Can only be adjusted when "Transmission Priority" is "Frame Rate"
*5   Can only be adjusted when "Transmission Priority" is "Best Effort"
*6   Can only be adjusted when "Transmission Priority" is other than "Frame Rate"

Note

- Displays the settings if Protocol of the network camera is set to "DirectUri" or "SRT".
- The following settings are possible in "Other" when "Protocol" is "Panasonic" during camera registration.
  - Pan/Tilt-flip
  - Upside-down
  - Lamp Display

---

4. Select "Apply".

The setting complete screen is displayed.

5. Select "OK".

Attention

- Depending on the network camera, some set values may not be reflected. Check the specifications of the camera.
- When changes are made to image quality settings such as resolution, the image quality of other recording devices and display devices using the same "Encoder" may be affected.
- Check the impact of changes to the image quality settings before configuring the settings.
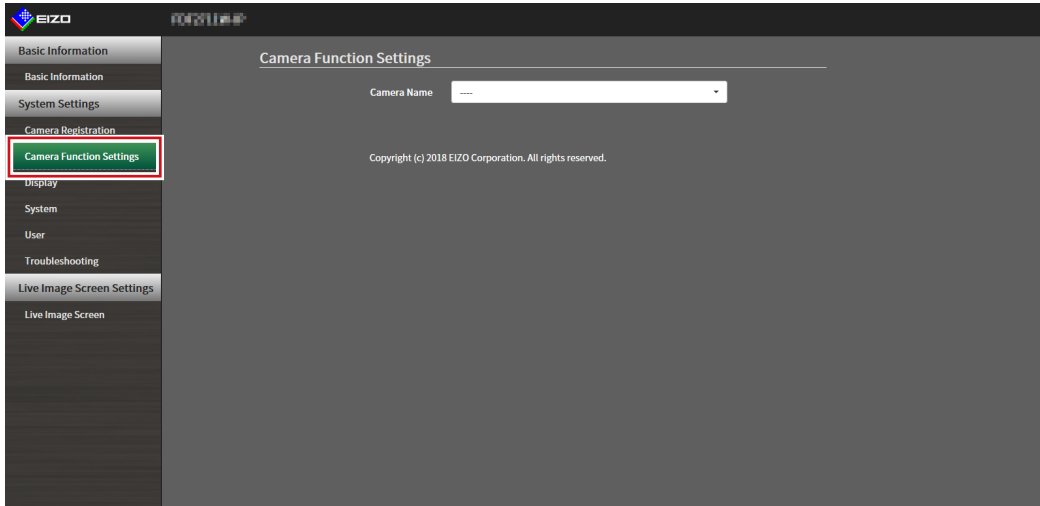

4-9. Registering the Network Camera Preset Position

Attention

• The following settings are only possible on the application screen and when Protocol is set to "ONVIF" during camera registration
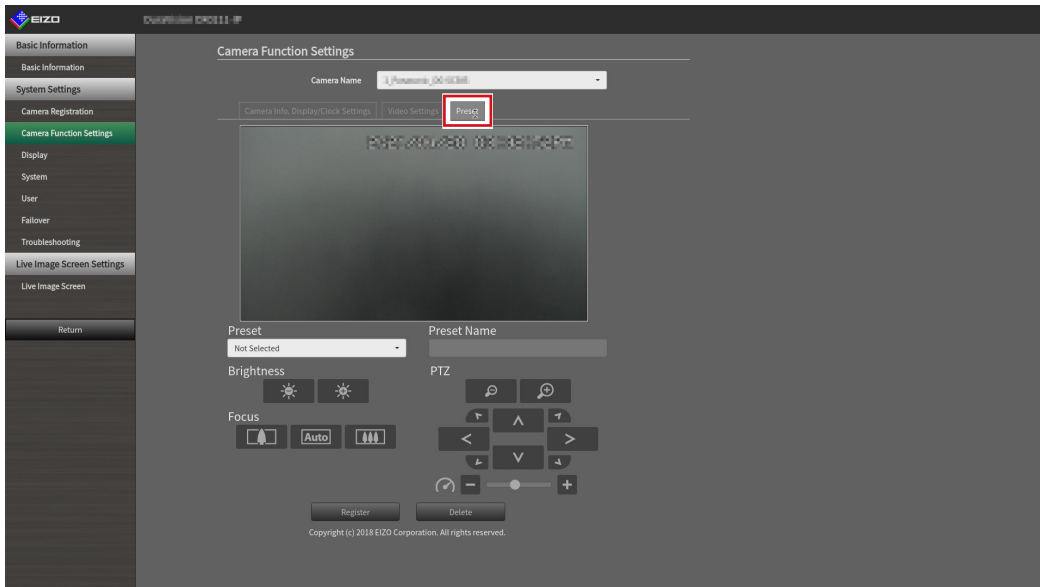
1. Select "Camera Function Settings".

The "Camera Function Settings" screen is displayed.

2. Select a network camera to configure from "Camera Name".

Information on the selected network camera is displayed.

3. Select "Preset".

4. Set the following items.

Item	Description	Range
Preset	Select a preset.	Not Selected / New / Registered Presets[*1] / HOME
Preset Name	Sets the preset name.	Unicode (up to 255 characters)[*2]
Brightness	Adjusts the network camera brightness.	-
Focus	Adjusts the network camera focus.	-
PTZ Adjust	Adjusts the display magnification, horizontal position (pan), vertical position (tilt), and PTZ operation quantity of the network camera.	-

*1 Displays when there are registered presets.

*2 Depending on the camera specifications, it may not be possible to register presets even if the conditions have been met.

5. Click "Register".

> **Note**
>
> • Click "Delete" to delete the settings of the selected registered preset.

Chapter 5   Live Image Screen Settings

In the live image screen settings, display settings such as changing the live image screen layout are performed.

5-1. Setting Display Positions of Camera Video Images

Set the display position for video images from the network camera.
You can switch the display positions of the source and destination camera images by dragging and dropping the camera name.

> **Note**
> • It is possible to set all the display positions of the registered network cameras.

1. **Select "Display Position Settings" of "Display".**

The "Display Position Settings" screen is displayed.
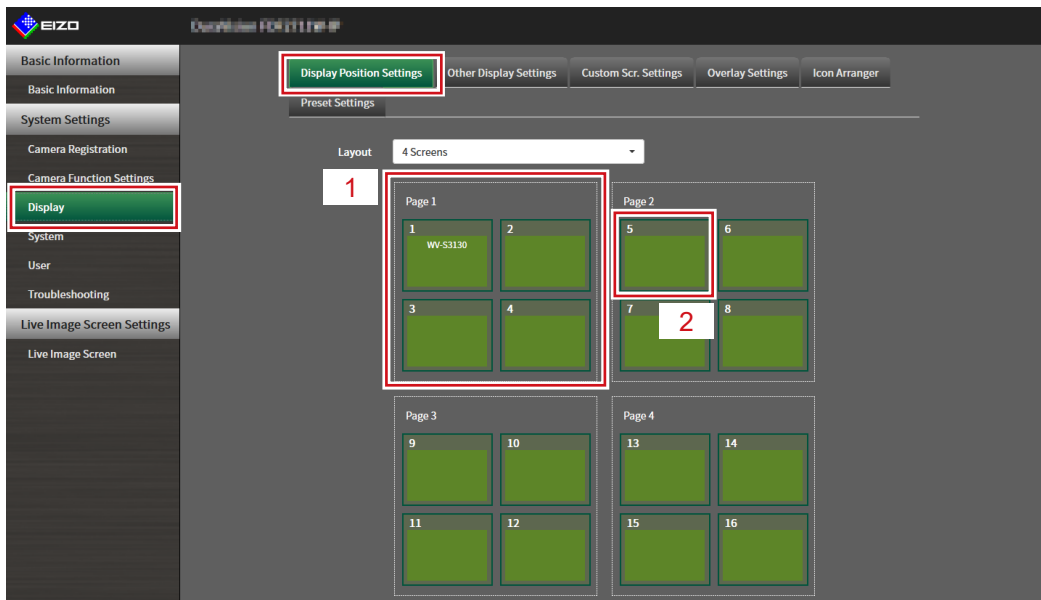
No.	Description
1	A group of cameras displayed at the same time in the video image display area.
2	The position of a camera displayed in the video image display area. The registered camera name is displayed.

2. Select the layout of the live image screen.

Select one from the "Layout" list box.

> **Note**
> • When a layout is selected, the display on the page changes to the selected state. You can set the layout while imagining the display status.
> • The initial display position when the screen is transitioned is the display position currently set for this product.

3. Select the name of the camera to move, and drag and drop the name on the position of the destination camera name.

The display positions of the source and destination camera video image are switched.

Example: 4-screen layout

1. Select "Display Position 1" for page 1.
2. Drag and drop it at "Display Position 5" on page 2.

   The "Display Position 1" camera and "Display Position 5" camera are switched.

   Only the camera name in the inner square is moved. The display position of the camera video image does not move.

4. Select "Apply".

The display positions of camera video images are updated. When "Reset" is selected, the information of the setting being changed is discarded and the setting is reset to the current display setting of the product.

> **Note**
> • If displayed on the web browser screen, a camera web page link is embedded in the frame where a camera name is assigned. (Excluding if Protocol of the network camera is set to "DirectUri" or "SRT".)
>   Click the camera name, and a camera web page is displayed in a separate window.

5-2. Setting Display Methods of Camera Video Images

Perform settings for whether to display or hide the camera name, specifying the screen switching interval, and aspect ratio.

1. Select "Other Display Settings" of "Display".

The "Other Display Settings" screen is displayed.

2. Set the following items.

Item		Detail	Setting range
Camera Name Display		Select to display or hide the registered camera name on the live image screen.	On / Off
	Size	Set the font size.	Large / Medium / Small
	Color	Set the text color.	White / Black
	Border	Set whether or not to add outlines to text.	On / Off
	Background	Set whether or not to add a semi-transparent background for text.	On / Off
	Position	Set the text display position.	Upper left / Upper right / Lower left / Lower right
Sequence Interval		Set the interval for changing over the screen during sequential display.	5 to 60 seconds
Aspect Ratio Mode		Set which aspect ratio to apply when the aspect ratio of the video image delivered from the network camera is different from the aspect ratio displayed in the image display area on the monitor. If "Aspect" is selected when "Custom Screen" is selected for "Layout", either "Full" or "Aspect" can be selected for each camera video image. For details, refer to "5-3. Setting Custom Screen Layouts" (page 73).	Full / Aspect

3. Select "Apply".

The setting complete screen is displayed.

4. Select "OK".

5-3. Setting Custom Screen Layouts

Set the display layout when "Custom Screen" is selected in "Layout" for the Live Image Screen.

1. Select "Custom Scr. Settings" of "Display".

The "Custom Scr. Settings" screen is displayed.
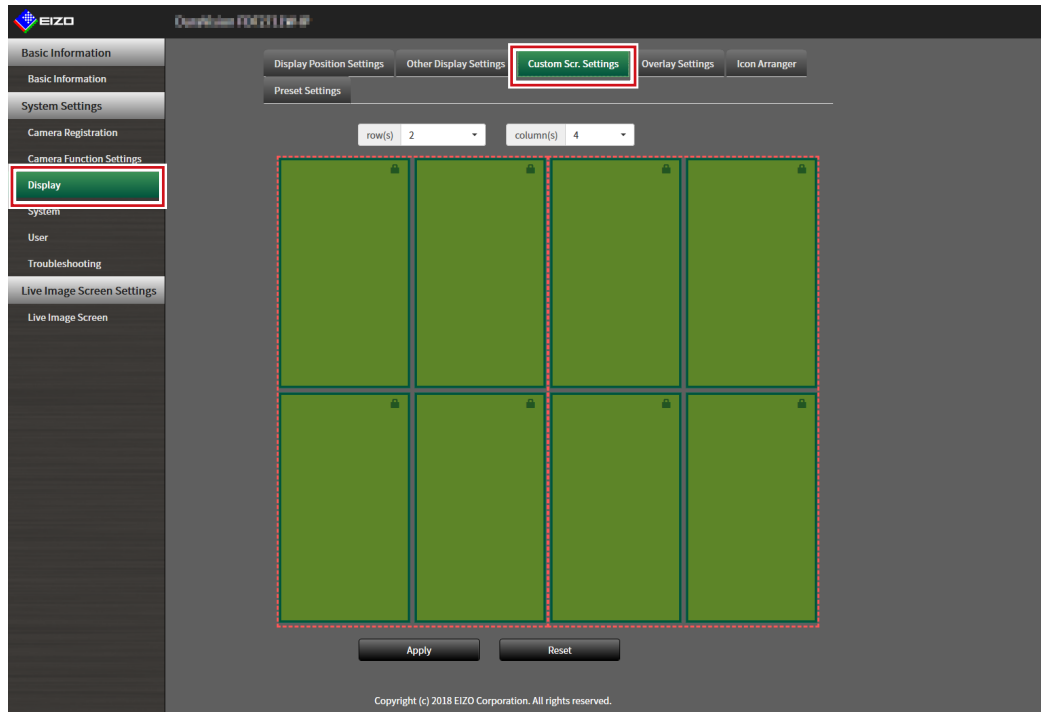
Note

- When set to "Extended" in "Multi-Monitor", the range displayed on each monitor is shown as a red, dotted line.
- Click 🔒 in the display position frame to fix the display position of any camera image.
  The display position for the specified camera image is maintained even if the pages are switched.
  This function can only be used with "Custom Scr. Settings".

2. Select the number of "row(s)" and "column(s)" from the list box.

The screen will change to a layout with the selected number of columns and rows.

3. Drag a camera image display position and drop it on the display position you want to couple with.

The selected display position is coupled.

4. Select "Apply".

The display position coupling is updated. When "Reset" is selected, the information of the setting being changed is discarded and the setting is reset to the current display setting of the product.

Note

- To release the coupling, click the display position just coupled. This can also be performed by changing the number of columns and rows from the list box.
- If "Aspect Ratio Mode" is set to "Aspect", "Full" or "Aspect" is displayed for the camera display position, and the setting changes every time either one of them is selected.
- For information on setting "Aspect Ratio Mode", see "5-1. Setting Display Positions of Camera Video Images" (page 70).

5-4. Changing the Displayed Layout Icon

You can change the icons to be displayed on the display menu on the live image screen.

Attention

• This function can only be used with the "Enterprise" software edition. For more information regarding software editions, see "3-10. Performing License Activation" (page 27).

1. Select "Icon Arranger" in "Display".

The "Icon Arranger" screen is displayed.
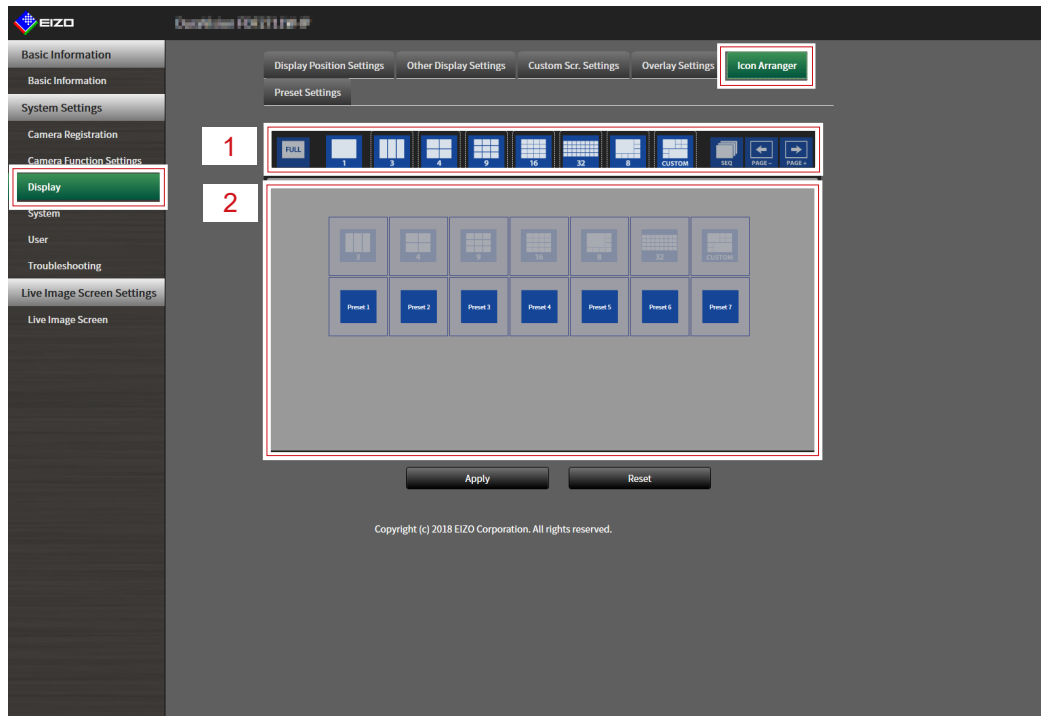
No.	Description
1	Icon Registration Area
2	Icon Selection Area

2. Drag the icon you wish to change and drop it in the icon registration area where you wish to display it.

Note

• If another icon is already registered at the destination, the position of the icons will switch.
• If you wish to delete an icon from the display menu, drag and drop the icon from the icon registration area to the icon selection area.
• Cannot change

3. Select "Apply".

5-5. Setting Layout Presets

You can save the live image screen display layout and camera location as presets.

Attention
- This function can only be used with the "Enterprise" software edition. For more information regarding software editions, see "3-10. Performing License Activation" (page 27).
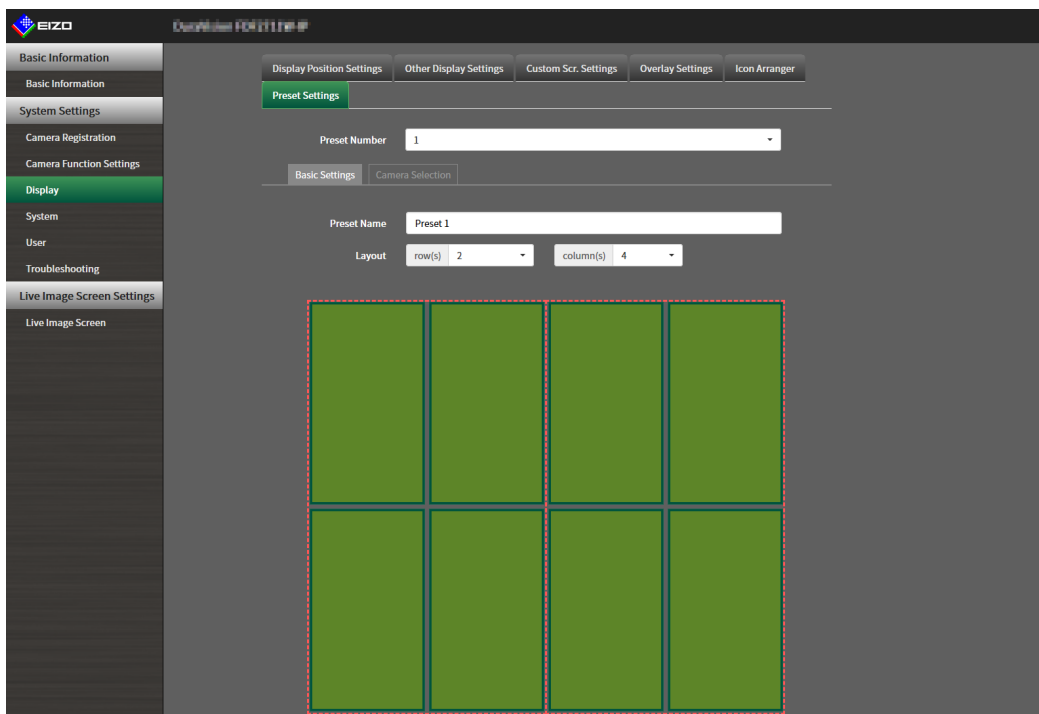
NOTE
- Up to seven presets can be saved.

1. Select "Preset Settings" in "Display".

The "Preset Settings" screen is displayed.
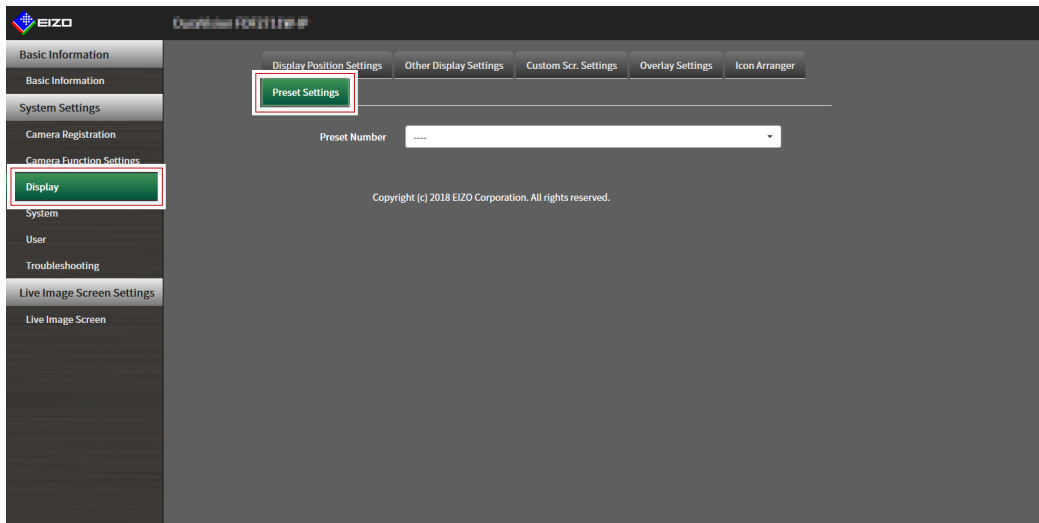
2. Select a preset number for configuration from "Preset Number".

The preset settings screen of the selected preset is displayed.

3. Set the preset name in "Preset Name" in the "Basic Settings" tab.

Item	Description	Range
Preset name	Enter the preset name.	Alphanumeric numbers, Japanese alphabet[*1].Chinese characters[*1](up to 16 characters)

*1 This can be set only when displayed on the web browser.

4. Select the number of "Row(s)" or "Column(s)" from the list box.

The screen will change to a layout with the selected number of columns and rows.

5. Select the camera image display position and drag and drop it on the display position you want to couple with.

The selected display position is coupled.

> **Note**
> • Click the coupled display position to deactivate it. Or, change the row(s) and column(s) in the list box.

6. Select "Apply".

7. Select the "Camera Selection" tab.
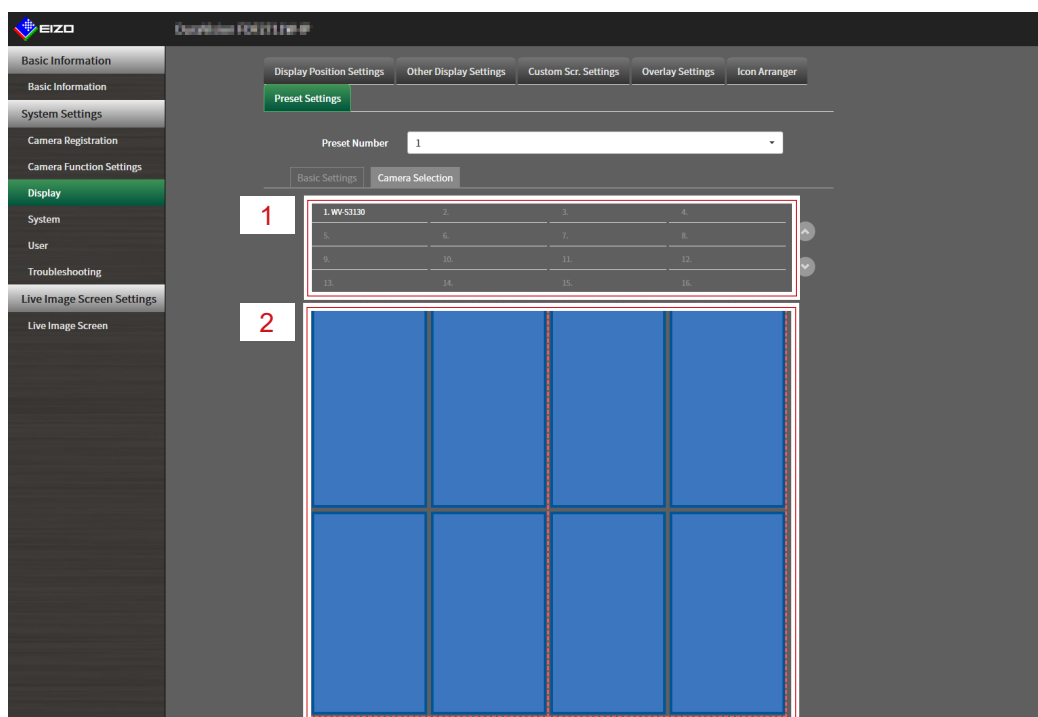
No.	Description
1	Camera Selection Area
2	Camera Location Area

8. **Drag a camera to be set from the camera selection area or camera location area and drop it in the desired location in the camera location area.**

Note

- Click a camera to be set from the camera selection area to put it in an open position in the camera location area.
- If another camera is already registered at the destination, the position of the cameras will switch.
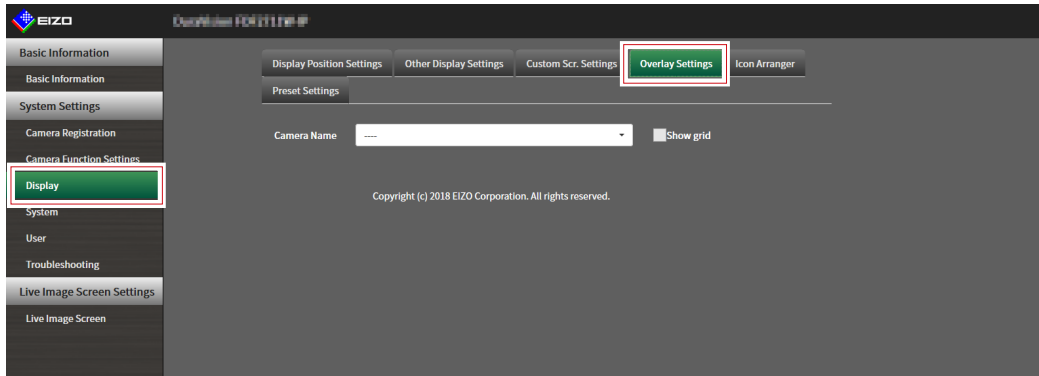- To deactivate a setting, drag and drop it from the camera location area to the camera selection area.

---

9. **Select "Apply".**

5-6. Setting the Overlay

It is possible to display privacy masks or virtual lines on camera images on the live image screen.

1. **Select "Overlay Settings" in "Display".**

The "Overlay Settings" screen is displayed.

2. **Select a network camera to be set from "Camera Name".**

The camera settings screen of the selected network camera is displayed.

Note
- Check "Show grid" to display a grid on the camera images in the live image screen. This function can be set only when displayed on the web browser.
- Network camera images are displayed in the drawing area on the application screen.
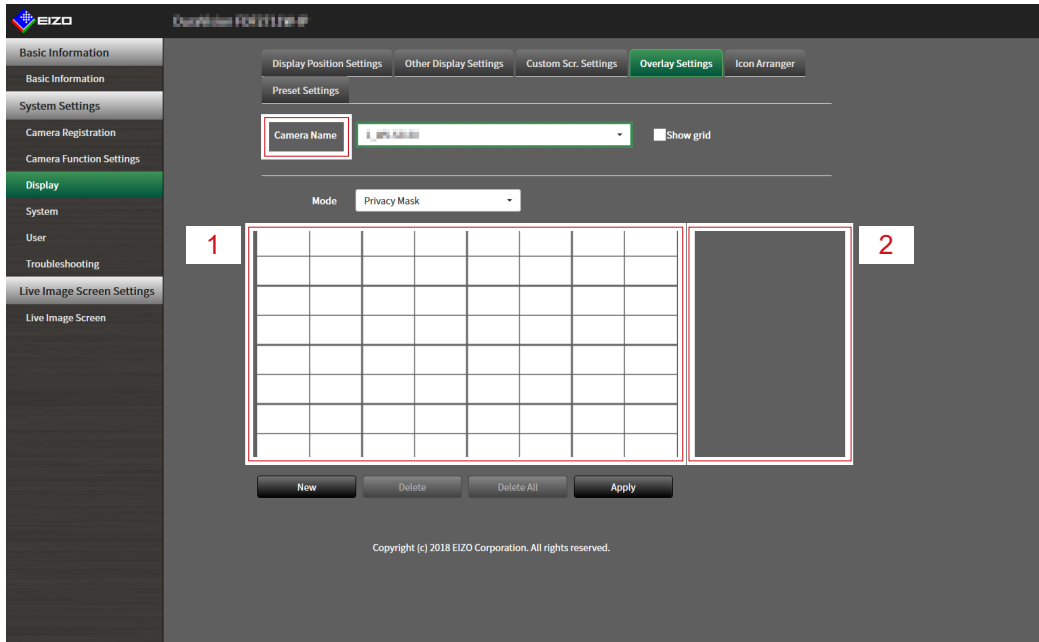
No.	Description
1	Drawing area
2	List area

3. Select an overlay type to be set from "Mode".

Item	Description
Privacy mask	Up to 10 privacy masks can be set. Designates 3 or 4 points in the drawing area and draws polygonal shaped privacy masks.
Virtual line	Up to 10 virtual lines can be set. Designates 2-10 points in the drawing area and draws virtual lines.

4. Select "New".

A new overlay type is added to the list area.

5. Set the overlay items
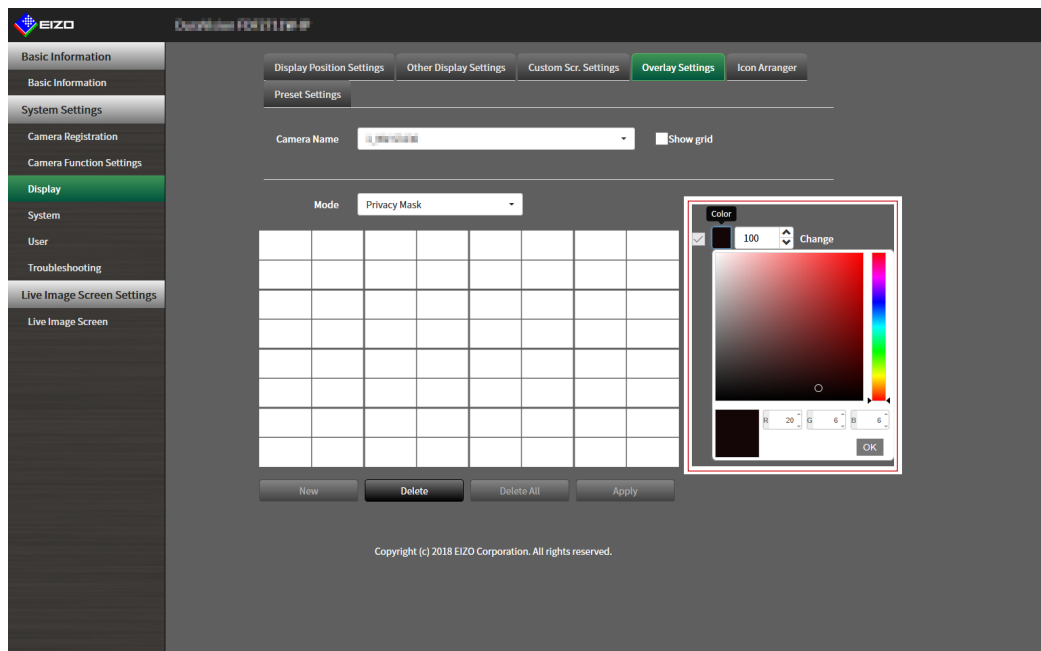
Item	Description	Range
Check box	Switches between displaying/hiding the overlay.	-
Color	Select a color from the color palette.	-
Opacity*1	Select opacity.	0 to 100
Weight*2	Select line weight	1 to 12
*1 Privacy mask only item.		
*2 Virtual line only item.		

6. Draw the overlay in the drawing area.

7. Select "Apply".

The overlay is displayed in the drawing area.

Note

• Specific overlays can be deleted by following the steps below.
  1. In the drawing area, select the overlay you wish to delete.

     "Selected" will be displayed on the selected overlay items in the list area.
  2. Select "Delete".
  3. Select "Apply".
• Select "Delete All" to delete all overlays..

5-7. Setting the Display Methods of Live Image Screens

Display settings such as changing the live image screen layout are performed.

1. **Select "Live Image Screen Settings" of "Live Image Screen".**

The "Live Image Screen Settings" screen is displayed.
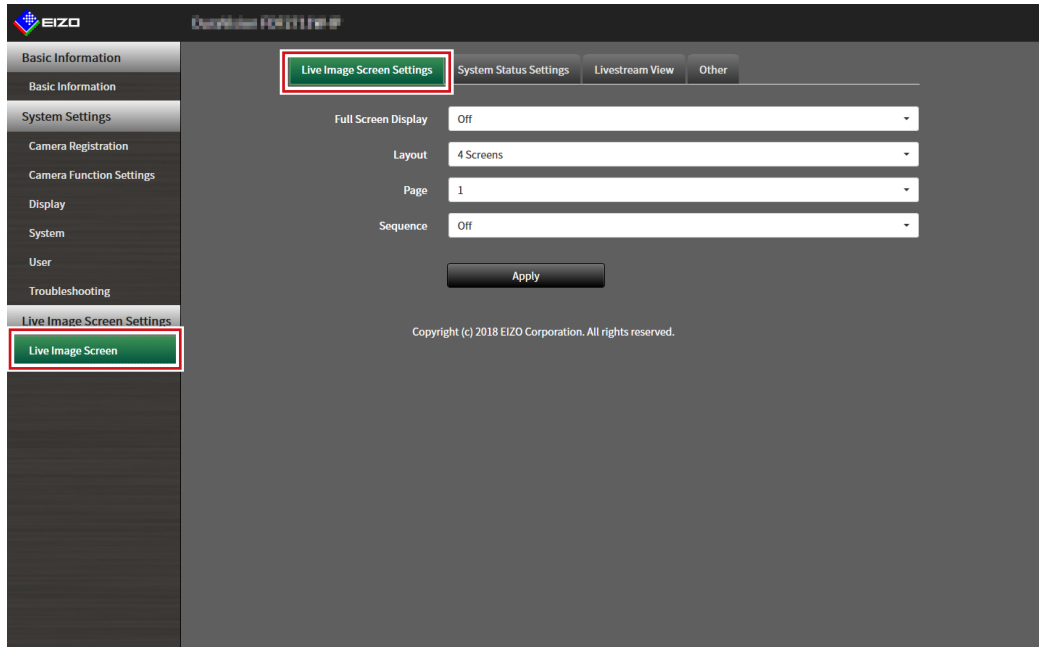
2. **Select each setting item from the list box.**

Item	Detail	Setting range
Full Screen Display	Set to display or hide the menu on the live image screen.	On / Off
Layout	Set the layout to be displayed on the live image screen.	1 Screen / 3 Screens / 4 Screens / 9 Screens / 16 Screens / 32 Screens / 8 Screens / Custom Screen
Page	Set to switch the page of camera video images to display on the monitor.	1 to 48
Sequence	Set to switch the page sequence display on or off.	On / Off

3. **Select "Apply".**

The setting complete screen is displayed.

4. **Select "OK".**

5-8. Setting Current Monitor Display Status

1. **Select "System Status Settings" of "Live Image Screen".**

The "System Status Settings" screen is displayed.
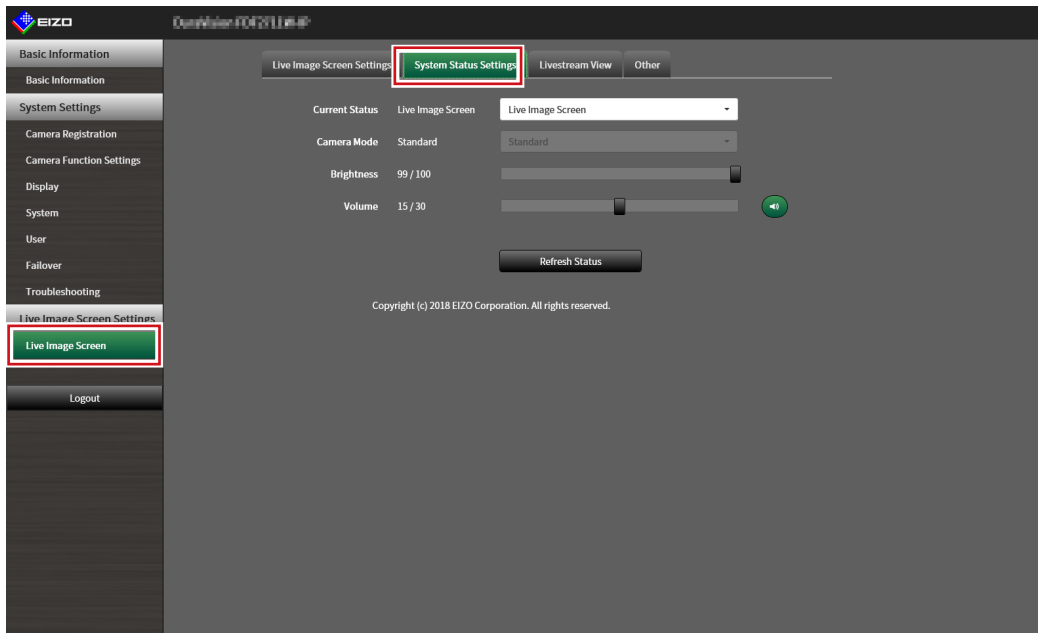
2. **Click ▼ next to "Current Status" to select the status from the displayed list.**

Item	Detail
Live Image Screen	The monitor screen shows the Live Image Screen
Quick Shutdown	The power is off
Setting Screen	The monitor screen displays the Setting Screen **Attention** • It is not possible to change "Current Status" in the "Setting Screen". It is possible to change to other statuses from the "Setting Screen".

Note

• The "Camera Mode" option is enabled when the failover function is enabled and Current Status is "Live Screen". Selecting "Failover" allows you to display the failover network camera.
• The brightness of the application screen can be adjusted by operating the "Brightness" slider with the mouse.
• Speaker volume can be adjusted using the "Volume" slider. Click [🔊] to temporarily mute the audio.
• Click "Refresh Status" to obtain the current status of the monitor.
• Only "Refresh Status" is displayed on the application screen.

5-9. Checking Livestream View

The current live image screen display can be checked by video from the web browser.

Attention

- This function can only be used with the "Enterprise" software edition. For more information regarding software editions, see "3-10. Performing License Activation" (page 27).
- This function can be used by up to two users simultaneously.
- This function has a display frame rate of 1 fps.
- This function does not work if the web browser is Internet Explorer.

1. Select "Livestream View" on the "Live Image Screen".

The live image screen is displayed as a video. Click "Pause" to pause the video, and "Resume" to resume the video. You can switch to full screen display by double clicking the livestream view display.
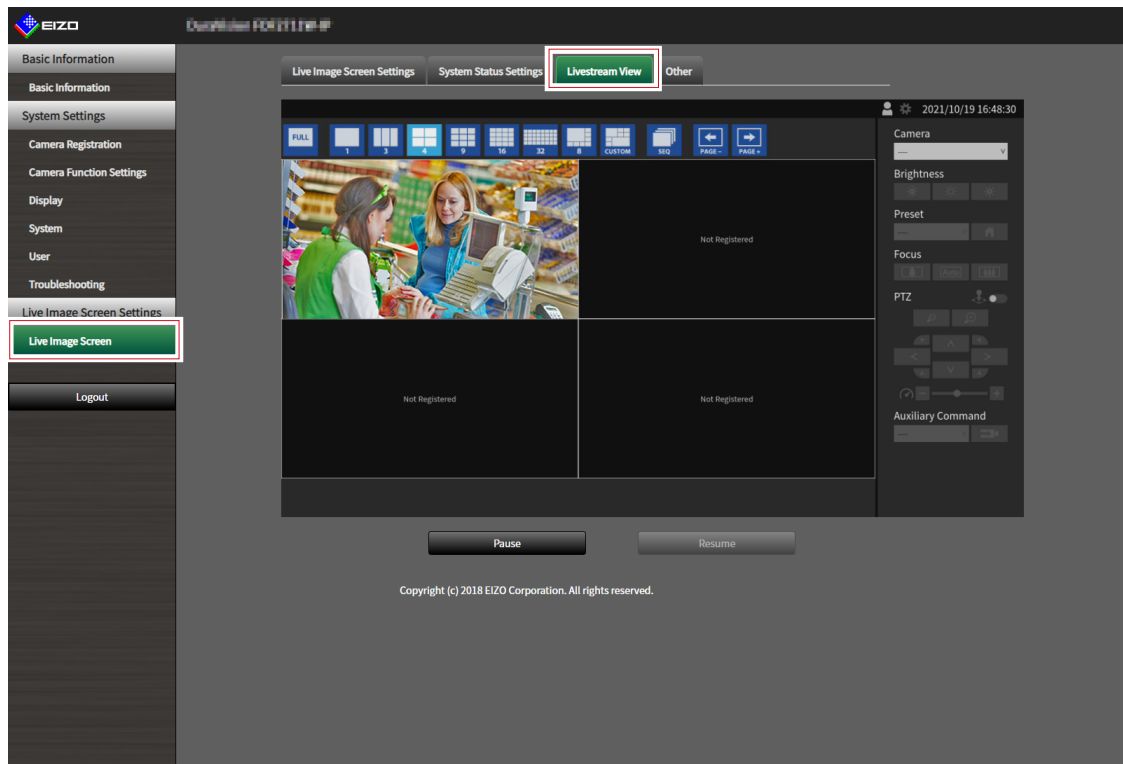
5-10. Updating the Camera Image of the Live Image Screen to the Latest Status

Update the camera image of the Live Image Screen to the latest status.

Attention

• This function can be used only when using the web browser.

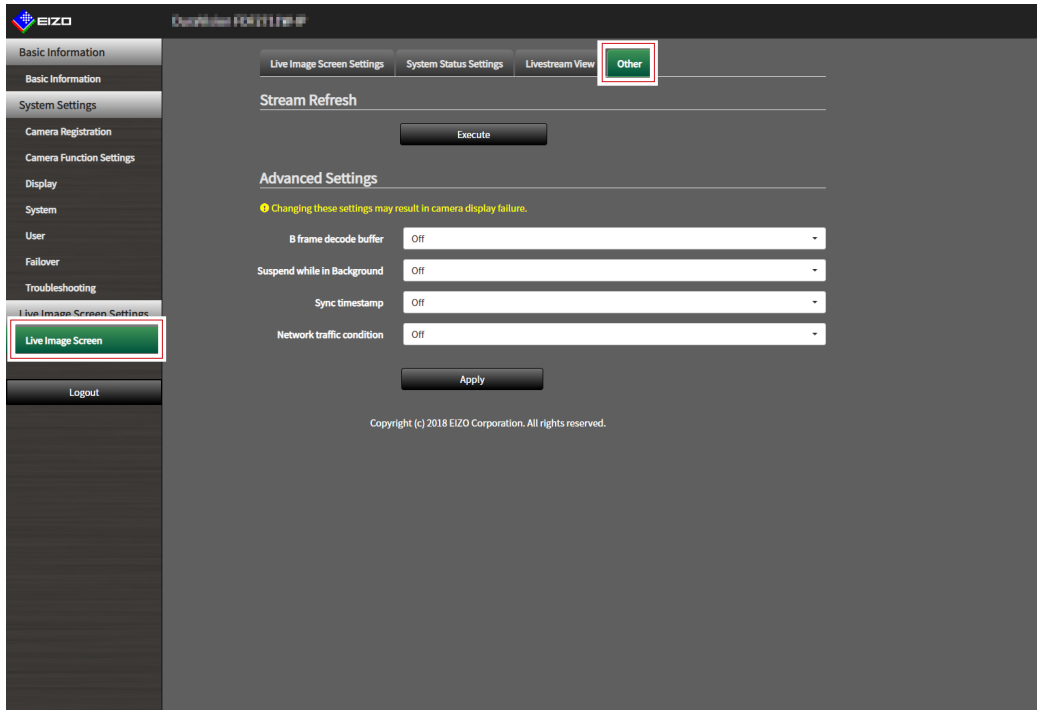**1.** Select "Other" on the "Live Image Screen".
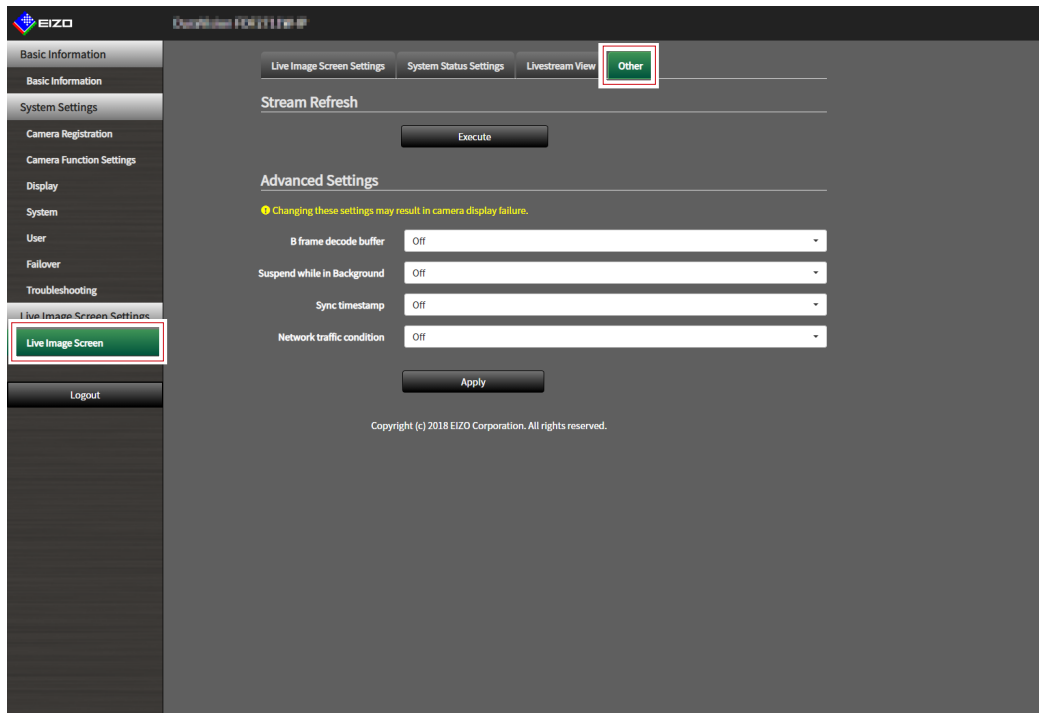
2. Select "Execute".

5-11. Performing Advanced Settings for Camera Video

Perform advanced settings for displaying camera video on the Live Image Screen. Normally, it is not necessary to change these settings.

Attention

• Changing these settings may result in camera display failure.

1. Select "Other" for "Live Image Screen".

2. Select each setting item from the list box.

Item	Detail	Setting range
B Frame Decode Buffer *1	When set to "On", streams that include B frames can be displayed, but the following phenomena occur. • Camera video display is delayed. • Video with a low frame rate such as 1 fps may not be displayed.	On / Off
Suspend While in Background *1	When set to "On", only communication with the camera displayed on the Live Image Screen is maintained, and communication with the non-displayed cameras is disconnected each time. Communication with the cameras can be minimized, but the following phenomena occur. • Since communication with the camera starts at the timing when the display starts, it takes time until the camera video is displayed.	On / Off
Sync Timestamp *1	When set to "On", livestreaming is displayed according to the time stamp received from the camera. The screen stuttering of the display may improve, but the following phenomena may occur. • Camera video display is delayed due to an increase in the buffering time. • Performance will decrease, such as decrease in the frame rate that can be displayed, due to the increased load on the CPU.	On / Off

Communication Status Display *1	When set to "On", the data reception and network status can be checked by the color of the circle displayed in the upper right of the screen.
	• Black
	  Default status
	• Red
	  Packet lost detection
	• Yellow
	  No packet reception for a certain period of time
	• Gray
	  Frame rate decrease due to high load
	• Green
	  Normal reception of 30 frames or higher
		On / Off

*1   The default setting is "Off".

3. Select "Apply".

The Setting Complete screen is displayed.

4. Select "OK".

Chapter 6 Management of the User Account

Perform procedures such as registering, changing, and deleting user accounts (username, user level, and password) used to access the system, and for configuring Auto Login settings.

Attention

- A maximum of ten persons can be registered for the user account. User information for a new user cannot be registered when there are already 10 users registered.
- A username that is the same as an already registered user account cannot be registered.
- It is necessary to register at least one user with a user level of "ADMIN".

Note

- User levels include "LIVE", "CAMERA CONTROL", and "ADMIN".
  The operable range of this product differs by each level.

(√: Operable, -: Inoperable)

Operation Level	Display mode menu	System menu		Playback	Switching camera image display positions
		Login operation	System settings		
LIVE	√	√	-	-	-
CAMERA CONTROL	√	√	-	√	√
ADMIN	√	√	√	√	√

- The default settings of the user account are as follows.
  - Username: "admin"
  - Password: "admin"
  - User Level: "ADMIN"

6-1. Registering the User Account
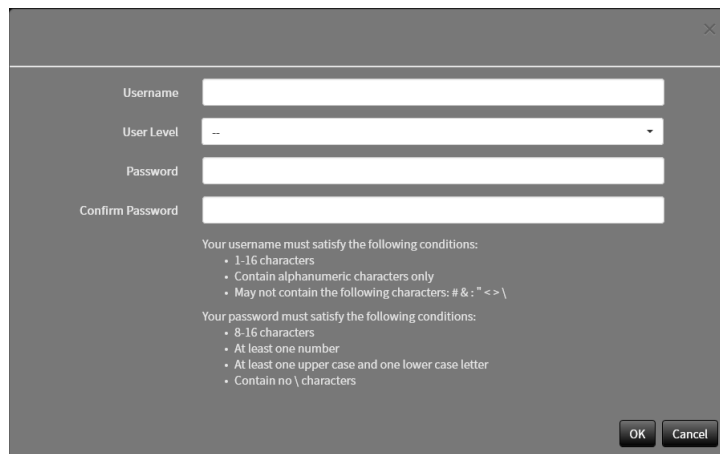
1. Select "Local User" of "User".

The "Local User" screen is displayed.
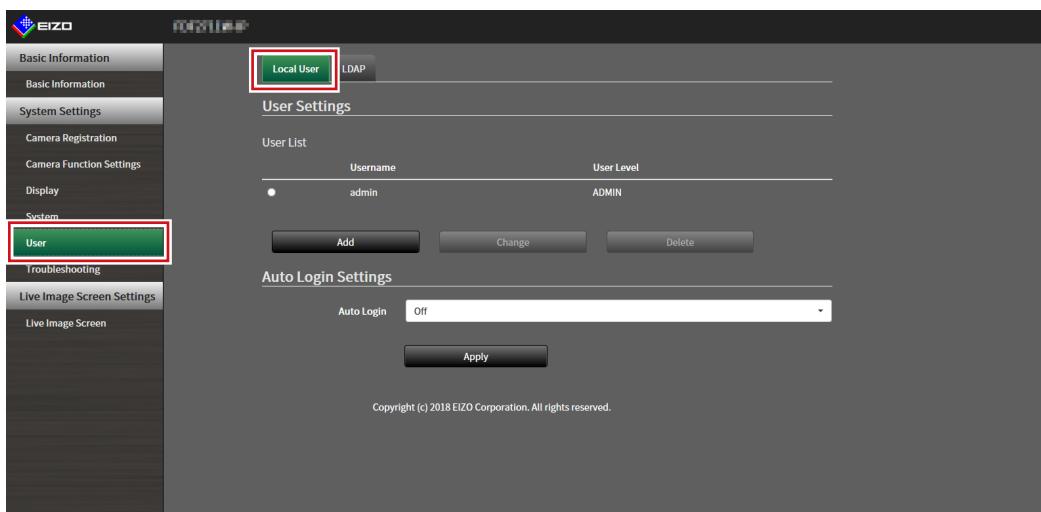
2. Select "Add".

A dialog box for setting the user account is displayed.

3. Set the user account.

Item	Description
Username	Enter a username. The username must satisfy the following conditions. • 8-16 characters • Contain alphanumeric characters only • May not contain the following characters: # & : " < > \ The following cannot be used in usernames: • ".", "..", and "auto-login"
User Level	Select "LIVE", "CAMERA CONTROL", and "ADMIN". The operable range of this product differs by each level.
Password	Specify the password. The password must satisfy the following conditions. • 8-16 characters • At least one number • At least one upper case and one lower case letter • Contain no \ characters
Confirm Password	Enter the same password again for confirmation.

4. Select "OK".

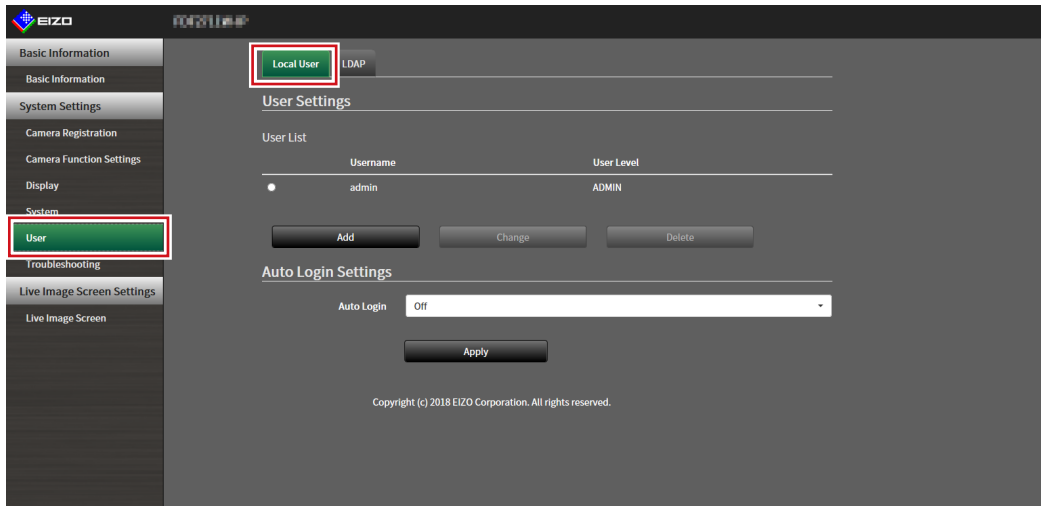The setting complete screen is displayed.

5. Select "OK".

6-2. Changing the User Account

Attention

• This function cannot be used if "LDAP" is selected in "User Account". For details, refer to "6-5. Performing LDAP Settings" (page 91).

1. Select "Local User" of "User".

The "Local User" screen is displayed.
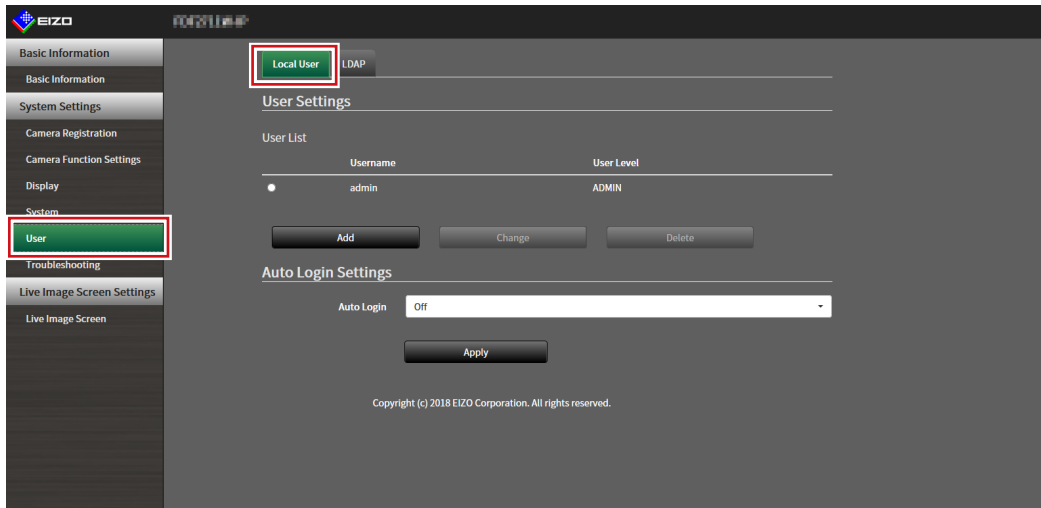
2. Select a user to be changed from "User List".

3. Select "Change".

A dialog box for entering the user information is displayed.

4. Change the user information.

5. Select "OK".

The setting complete screen is displayed.

6. Select "OK".

6-3. Deleting the User Account

Attention

- This function cannot be used if "LDAP" is selected in "User Account". For details, refer to .

1. Select "Local User" of "User".

The "Local User" screen is displayed.

2. Select a user to be deleted from "User List".

3. Select "Delete".

The "Are you sure you want to delete user XXX?" confirmation dialog box is displayed.

4. Select "OK".

When not deleting, select "Cancel".
The "Setting Complete" dialog box is displayed.

5. Select "OK".

6-4. Configuring Auto Login Settings

Attention

• This function cannot be used if "LDAP" is selected in "User Account". For details, refer to "6-5. Performing LDAP Settings" (page 91).
• Once the Auto Login settings are configured, unauthorized operation becomes easy for a malicious third party. Restrict the configuration to the application in an environment where sufficient security is ensured.

1. Select "Local User" of "User".

The "Local User" screen is displayed.
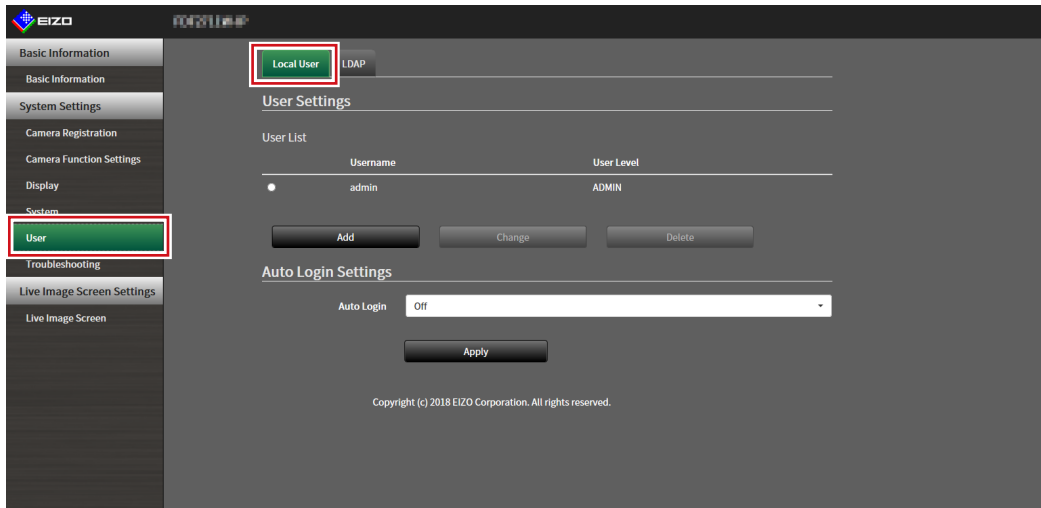
2. Select a user to allow an Auto Login from the "Auto Login" list box.

3. Select "Apply".

The setting complete screen is displayed.

4. Select "OK".

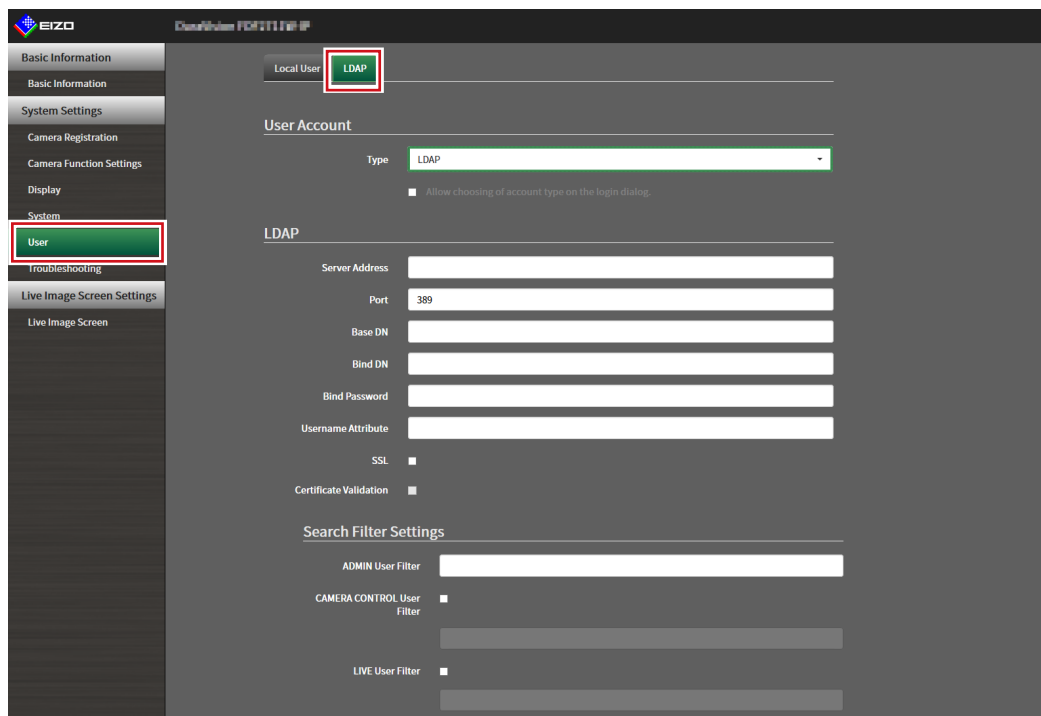# 6-5. Performing LDAP Settings

It is possible to log in to this product using a user account on the LDAP server when using direct service (LDAP) in User Management.

Attention

- This function can only be used when the software edition is "Enterprise". For information on software editions, refer to "3-10. Performing License Activation" (page 27).
- If "User Account" is set to "LDAP", it is not possible to login as a local user.
- Access via web browser is only possible when the user level of the account is ADMIN.
- It is not possible to login to this product if the LDAP settings are incorrect. For this reason, perform a login test to confirm that it is possible to login with a user account with the ADMIN user level before applying the LDAP settings.

1. Select "LDAP" of "User".

The "LDAP" screen is displayed.

2. Select "LDAP" from "Type" of "User Account".

Note

- Checking "Allow choosing of account type on the login dialog." enables selecting account type when logging into the product main unit.

3. Perform LDAP settings.

LDAP

Item	Detail	Setting range
Server Address	Enter the IP address or host name of the LDAP server.	Alphanumerics and symbols (up to 255 characters)
Port	Enter the port number.	1 to 65535[*1]
Base DN	Enter the identification name of the branch to search. Ex: ou=ldap,dc=example,dc=com	Alphanumerics and symbols (up to 255 characters)
Bind DN	Enter the username that has access rights to Base DN. Ex: cn=binduser,ou=ldap,dc=example,dc=com	Alphanumerics and symbols (up to 255 characters)
Bind Password	Enter the Bind DN password.	Alphanumerics and symbols (up to 255 characters)
Username Attribute	Enter the attributes of the user account to login. Ex: cn	Alphanumerics and symbols (up to 255 characters)
SSL	Insert a check when performing SSL communication (LDAPS).	
Certificate Validation	Insert a check when performing certificate validation. **Attention** • When performing certificate validation, it is necessary for the root certificate of the LDAP server to be registered in "Root Certificate" of "Certificate" of this product.	

*1   389 is the standard port number for LDAP, and 636 is the standard port number for LDAPS.

Search Filter Settings

| Item	Detail	Setting range
ADMIN User Filter	Set the filter of the user that has ADMIN access rights. Example: (memberOf=cn=admin,ou=ldap,dc=example,dc=com)	Alphanumerics and symbols (up to 255 characters)
CAMERA CONTROL User Filter	To enable camera control access rights, enter a check to set the filter.	
LIVE User Filter	To enable LIVE access rights, enter a check to set the filter.	

4. Perform "Login Test".

Enter "Username" and "Password", and select "Test".

Login is executed.

5. Select "Apply".

Chapter 7 Troubleshooting

7-1. Imaging Problems

Problem	Possible cause and remedy
1. The screen is not displayed • Power indicator is not turned on	• Turned on the main power. • Is the power correctly connected? Connect the power cord.
• Power indicator is on: red	• Press ⏻ on the front of the product.
2. The display images are not smooth / camera images are not displayed	• Reduce the resolution and/or bit rate set for the network camera. (Refer to "4-8. Setting Quality of Transmission Video Images" (page 65).) • Check whether the used hubs and network cables are appropriate for handling the amount of information transmitted. • Move to the setting screen and return to the live image screen.
3. The camera images are not displayed properly on the live image screen about 30 seconds after turning the power off by pushing ⏻ on the main unit of the product.	• When the main power is turned off and immediately back on, images may not be displayed properly for the first few minutes. After several minutes, the screen returns to a normal display.
4. The time of the network camera and the time of the system do not match (when a camera images are being displayed)	• On the setting screen, adjust the time of the network camera to match the time of this product. (Refer to "4-7. Setting Network Camera Time" (page 64).)

Problem	Possible cause and remedy

5. An error message "E**-**" is displayed on the camera image display area	• When Communication failed ("E01-**")
	  - A number of devices exceeding the allowable number of devices for simultaneous connection may be connected to the network camera.
	  Disconnect other network devices accessing the camera or reduce the resolution of the camera.
	  (Refer to "4-8. Setting Quality of Transmission Video Images" (page 65).)
	• When Communication failed ("E02-**")
	  - Check whether a network cable is connected properly.
	  - Check whether the network camera is turned on.
	  - Check whether the username and password for the camera are set correctly in the system.
	  - Isn't there an IP address conflict among the monitor and network cameras?
	  - If "Certificate Validation" is enabled, is the certificate expiration date correct? (Refer to "3-12. Performing Certificate Settings" (page 31).)
	• When Communication failed ("E03-**")
	  - Network bandwidth may be overwhelmed or the display capability of this product may have been exceeded.
	  Reduce the resolution and/or bit rate set for the network camera.
	  (Refer to "4-8. Setting Quality of Transmission Video Images" (page 65).)
	• When in Incompatible resolution ("E04-**")
	  - A resolution which is incompatible with this product may be set.
	  Try changing the resolution of the network camera.
	• When Compression format is mismatched ("E05-**")
	  - The streaming format from the network camera may be different from that of this product.
	  Check the settings of the camera and this product and then restart this product.
	• When Unapproved parameters ("E06-**")
	  - The Multicast setting value may not be set correctly. Check the settings of the camera.
	• If it is a network connection error (E07-**):
	  - This product may not be connected to the network, possibly LAN cable is not connected. Check the network connection.
	• E08-**
	  - There is no available license for using network camera protocols. Please check the license.
	• E09-**
	  - The size of the data you want to play back may exceed the download limit for this product. Try changing the recording time and settings for the network camera.
	  - The data you want to play back may be in a format that this product does not support. Check the network camera settings.

7-2. Setting Problems

Problem	Possible cause and remedy
1. **Cannot log in**	• Enter the user name and password again. • Reset the account information using the Reset button and log in as the default setting account. (See "Setup Manual")
2. **Only one camera is recognized when using a video encoder that supports multiple channels**	• Manually register the number of channels that will be used. (Refer to "4-2. Registering a Network Camera Manually" (page 55).)
3. **A communication error message is displayed when "Apply" is selected for network camera manual registration**	• There may be a problem with network camera communication. Check the network connection status and camera registration details.
4. **Cannot register a new user**	• Duplicate user names cannot be registered. • Only up to 10 users can be registered. Check whether 10 users have already been registered. (Refer to "Chapter 6 Management of the User Account" (page 86).)
5. **Cannot delete a user**	• There must be at least one user with a level of "ADMIN". A user cannot be deleted if the user is the only one registered with a level of "ADMIN". Check the registered user information. (Refer to "Chapter 6 Management of the User Account" (page 86).)
6. **Cannot communicate with the camera**	• Check the settings of the network camera and the system. For details, contact the system administrator.
7. **The set date and time are not displayed correctly**	• If the system is not connected to the power supply for one week or longer, the date and time will not be displayed correctly. In such a case, set the date and time again. (Refer to "3-3. Setting the Current Date and Time" (page 17).)
8. **Web browser screen cannot be displayed.**	• Check if there is no conflict of IP addresses for devices on the same network. Connecting multiple units of this product to the same network without changing their default values will result in an IP address conflict. For information on network settings, refer to "3-1. Performing Network Settings" (page 13).

List of Functions

*1   Only available for use if the edition is "Enterprise".

*2   This can be used only when displayed on the web browser.

*3   Only available for in the Enterprise edition and when the extension "Failover" is enabled.

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