



Installation Manual

DuraVision® DX0211-IP

IP Decoding Box

Software Version 5.1

Important

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

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- 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 "DX0211-IP" in the "Enter model name" box, and click "Search".

www.eizo.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.

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Chapter 1 Product Overview

This product is a device that outputs video images from a maximum of 16 network cameras*¹ to monitors connected using HDMI cable.

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

● 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 and MJPEG video compression format.
 - A maximum of 16 network cameras can be registered.
 - Allows a free layout of video images (1 Screen, 4 Screens, 9 Screens, 16 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.

● Possible to output to a 4K monitor

- Supports 4K output (3840 × 2160 / 60 fps max.)

● Possible to freely select a display monitor depending on the application scene

- Supports monitors with a resolution up to 3840 × 2160
- Possible to attach to a monitor using a separately sold attachment

● Supports ONVIF Profile S 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.

● Security

- Alert display
 - Possible to display an alert on the live image screen when communication with network cameras is lost.

● Support

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

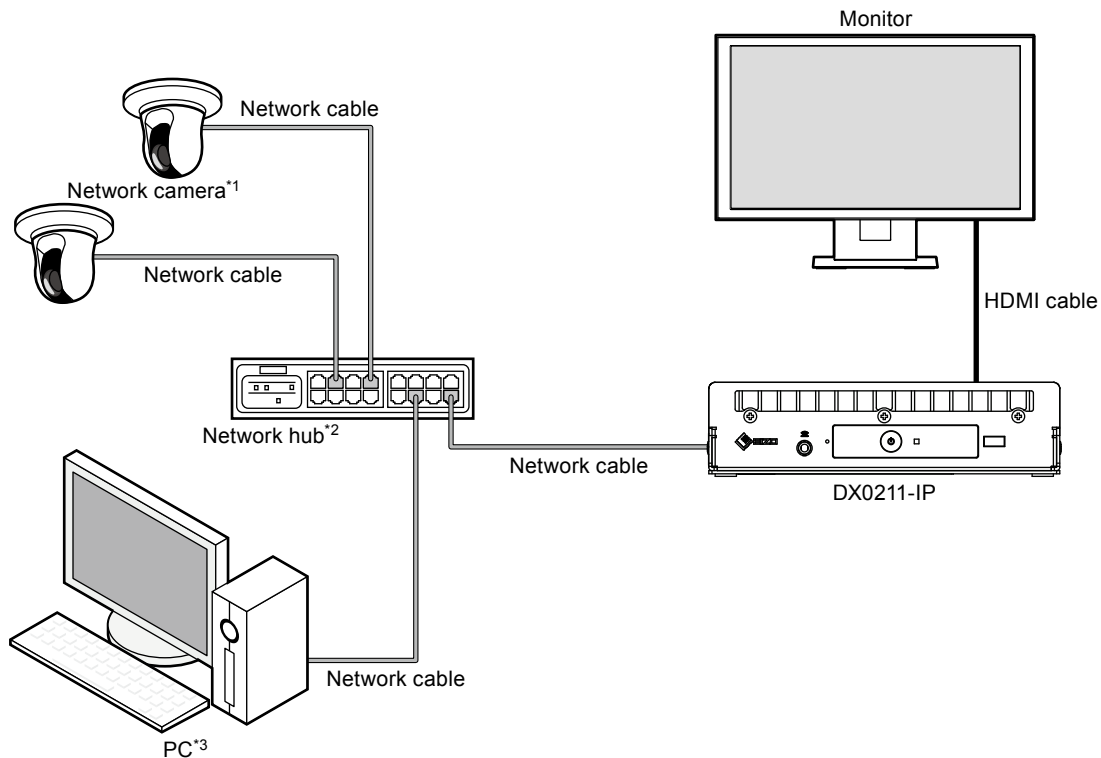
● Operation

- Operations can be performed by using a keyboard or mouse

● Supports PoE+

1-2. System Configuration

This product is designed to communicate with network cameras and to display video images on the monitor.



*1 Up to 16 network cameras can be registered.

*2 Use a network hub that supports PoE+. If the hub does not support the PoE+ standard, network cameras and DX0211-IP must be individually connected to the power supply.

*3 When setting the network cameras using a Web browser, use a computer on the same network as the DX0211-IP.

1-3. Compatible Network Cameras

This product supports ONVIF Profile S network cameras. Depending on the software version of this product, different cameras are supported.

For details, refer to our web site (www.eizoglobal.com).

The software version can be confirmed on the basic Information screen. For details, refer to “2-2. Setting Screen” (page 9).

For installing and setting the network cameras, refer to the network camera User's Manual.

Chapter 2 Before Configuration

System settings can be made from the screen (application screen) displayed on the monitor connected to this product 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”.

Long in to the system according to the following procedure.

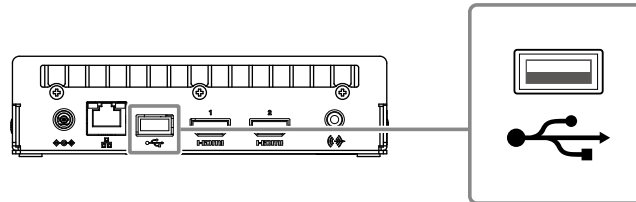
Note

- 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 42).
- It is recommended to 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 46).

● Configuring from this product

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

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



Attention

- Adjust the monitor in advance so that the HDMI input can be displayed.

Note

- When connected to a device that has the USB hub function, both the USB mouse and USB keyboard can be used.
- For entering characters, refer to “[Entering characters](#)” (page 8).

1. Press on the front of this product.

The power indicator lights up blue and the live image screen is displayed on the monitor connected to this product.

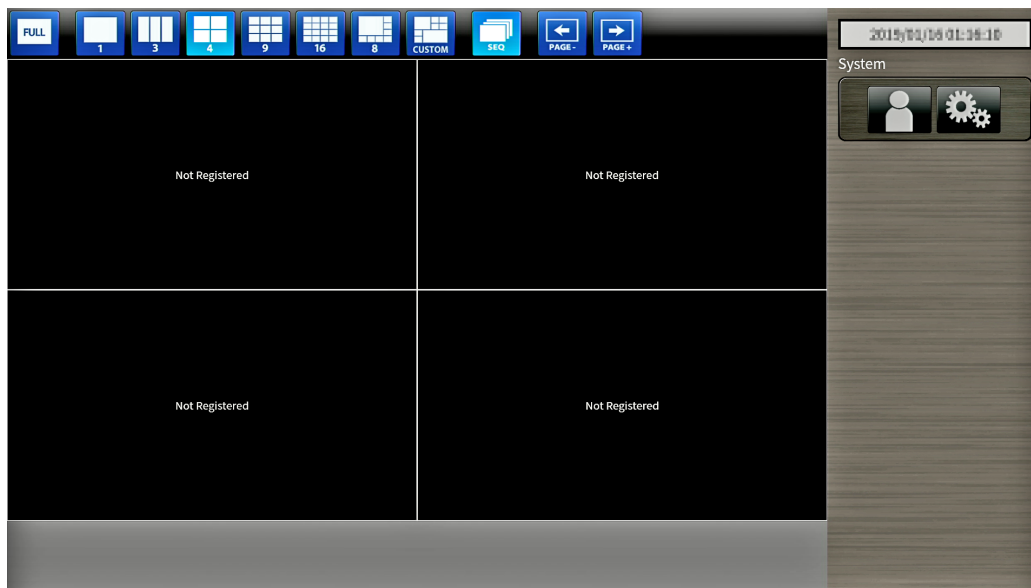
(For information on the live image screen, refer to the “Instruction Manual”).

Note

- The power supply is set to “On” by default.

2. Select (Login) under “System”.

The login screen is displayed.



3. Enter a username and a password.

The screenshot shows a 'Login' dialog box. It has a title bar with the word 'Login'. Inside the dialog, there are two labels: 'Username :' and 'Password :'. Each label is followed by a white rectangular input field. At the bottom right of the dialog, there are three buttons: 'Login', 'Logout', and 'Cancel'.

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. Move to the next item using the “Tab” key.
- 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

- Internet Explorer 11 is the recommended web browser.
- 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.



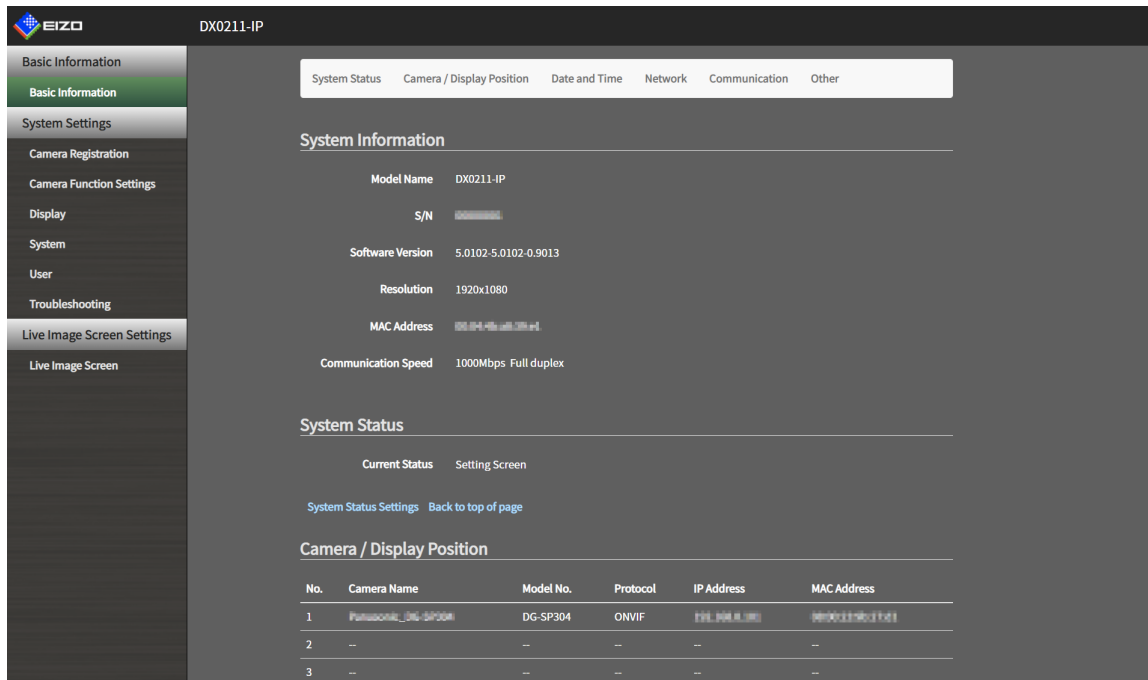
3. Enter a username and a password.

4. Select “OK”.

The setting screen is displayed.

2-2. Setting Screen

The setting screen consists of Basic Information, Unit Settings, and Live Image Screen Settings.



● Basic Information

Information on various settings of this product is displayed in a list.

The following settings can be confirmed: "System Information", "System Status", "Camera / Display Position", "Date and Time", "Network", and "Communication".

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
- Resolution
- MAC Address
- Communication speed

System Status

Displays the current status.

Camera / Display Position / Date and Time / Network / Communication / Other

Displays the current settings status of the monitor.

● 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.

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 procedure using the web browser. However, except for a few functions, the same functions can be used either way.

3-1. Performing Network Settings

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

Attention

- IP Setting Method When any one of the IP Address, Subnet Mask, or Gateway is changed and “Apply” is selected, a warning message saying “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” under “System”.

The “Network” screen is displayed.

The screenshot shows the EIZO DX0211-IP web interface. On the left sidebar, the 'System' menu item is highlighted with a red box. The top navigation bar has tabs for 'Date and Time', 'Network', 'Communication', 'Other', and 'Maintenance', with 'Network' selected and highlighted with a red box. The main content area is titled 'Network Settings' and contains three sections: 'Network Settings' with fields for IP Setting Method (Manual), IP Address (192.168.0.100), Subnet Mask (255.255.255.0), and Gateway (192.168.0.1); 'DNS Settings' with fields for DNS (Manual), Primary Server Address, and Secondary Server Address; and 'NTP Settings' with fields for NTP (Off) and Server Address. An 'Apply' button is located at the bottom of the settings area.

2. Set the following items.

Network Settings

Item	Description	Setting range
IP Setting Method	Select "IP Setting Method".	DHCP / Manual
IP Address	When "Manual" is selected under "IP Setting Method", "IP Address", "Subnet Mask", and "Gateway" can be set.	0.0.0.0 to 255.255.255.255
Subnet Mask		
Gateway ^{*1}		

^{*1} If the environment does not include a gateway, it is not necessary to set "Gateway". Either leave it as default setting or set "0.0.0.0".

DNS Settings

Item	Description	Setting range
DNS	(Only when "Manual" is selected under "IP Setting Method" of "Network Settings") Set "DNS".	Auto / Manual
Primary Server Address	When "Manual" is selected under "DNS", set "Primary Server Address" and "Secondary Server Address".	0.0.0.0 to 255.255.255.255
Secondary Server Address		

NTP Settings

Item	Description	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.

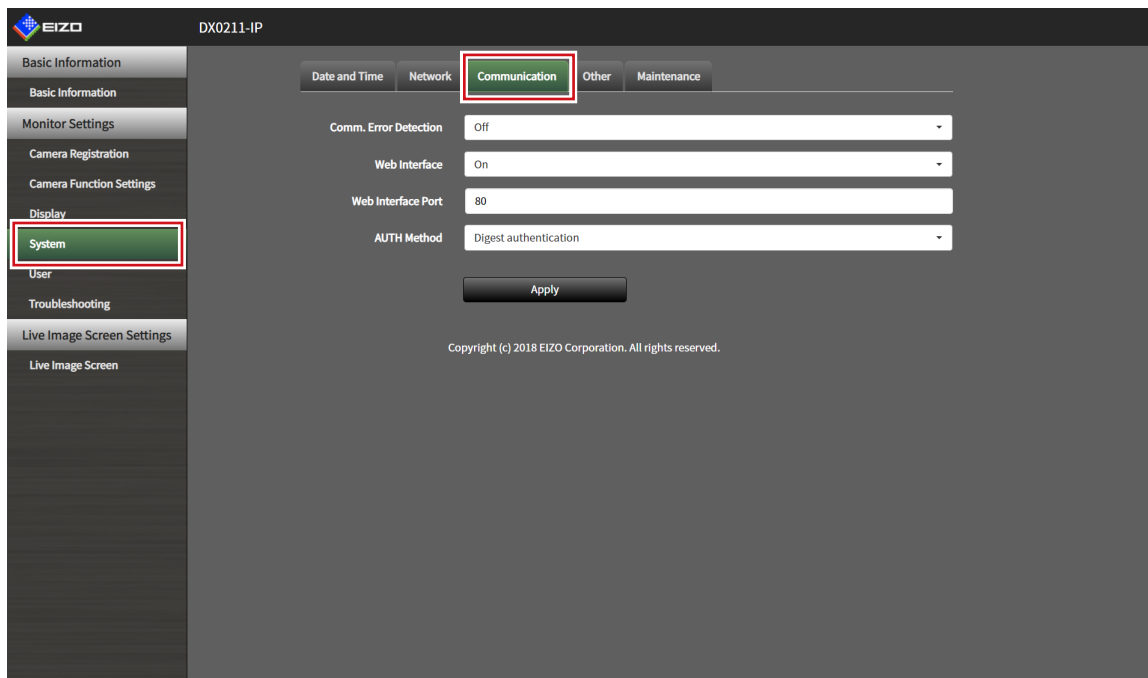
4. Select "OK".

3-2. Performing Communication Settings

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

1. Select “Communication” under “System”.

The “Communication” screen is displayed.



2. Set the following items.

Item	Description	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 image is displayed again. Off: When approx. 20 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 monitor over the network from a web browser.	On / Off* ¹
Web Interface Port	Set the port of the web interface.* ²	80, 1824 to 65535
AUTH Method	Set the authentication method for the web interface.* ²	Digest authentication / BASIC authentication

*¹ The web interface cannot be set to Off if USB lock is set to On.

*² Can be specified when the web interface is set to On.

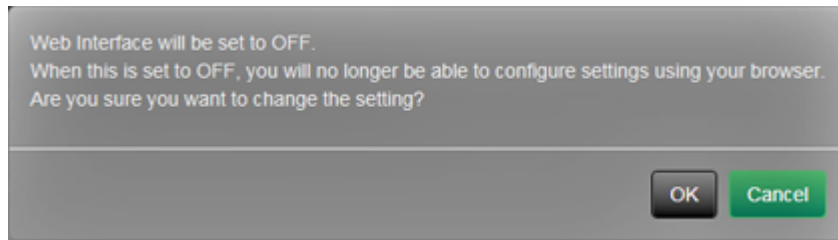
3. Select “Apply”.

The setting complete screen is displayed.

4. Select “OK”.

Attention

- When the web interface is set to Off, you cannot configure the settings from your web browser.
- When the web interface is set to Off and “Apply” is selected, the following warning message is displayed.



3-3. Setting the Current Date and Time

1. Select “Date and Time” under “System”.

The “Date and Time” screen is displayed.

2. Set the current date and time.

Date/Time Display Settings

Item	Description	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 Setting

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

Clock Settings

Item	Description	Setting range
Procedure ^{*1}	Select the time setting procedure.	Manual / Synchronize with PC
Date and Time	Set the current time.	2010/1/1 0:00 to 2035/12/31 23:55

^{*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

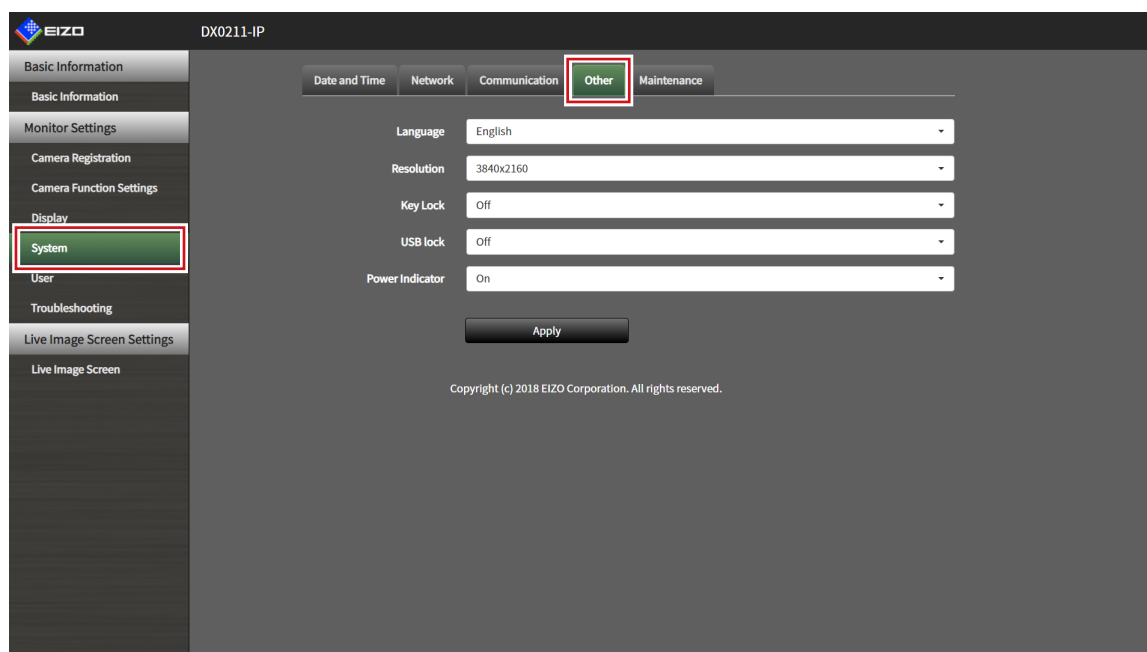
- When “Synchronize with PC” is selected for “Procedure”, the current date and time information of the computer is transmitted to this product.
- If the system is not connected to the power supply for one week or longer, the date and time displayed on the monitor will become incorrect. If such situation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

3-4. Other System Settings

Set the following items: “Language”, “Resolution”, “Key Lock”, “USB lock”, and “Power Indicator”.

1. Select “Other” under “System”.

The “Other” screen is displayed.



2. Set the following items.

Item	Description	Setting range
Language	Set the display language of the menu and the setting screen.	Japanese / English / German
Resolution	Set the resolution.	3840 x 2160 / 2560 x 1440 / 1920 x 1080
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
Power Indicator	Sets whether to turn the power indicator (blue) on or off under normal operation.	On / Off

*1 “USB lock” 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. Select “Apply”.

The setting complete screen is displayed.

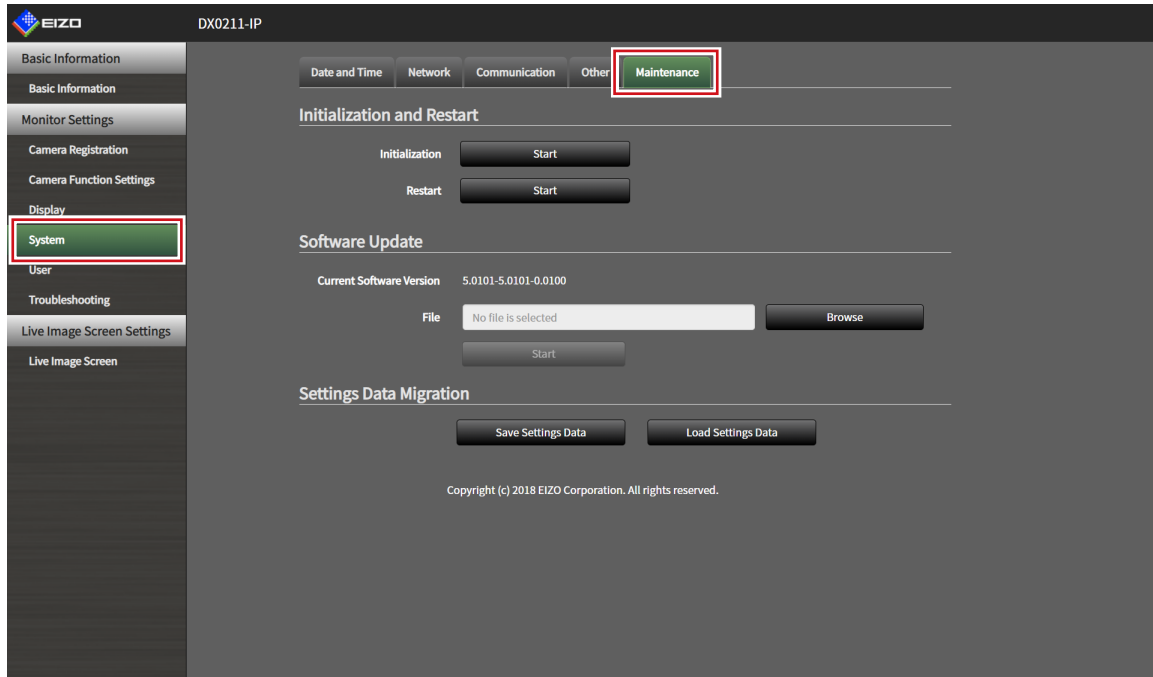
4. Select “OK”.

3-5. Initializing the System

All settings are returned to default except for system logs, operation logs, the current time, and time zone settings.

1. Select “Maintenance” under “System”.

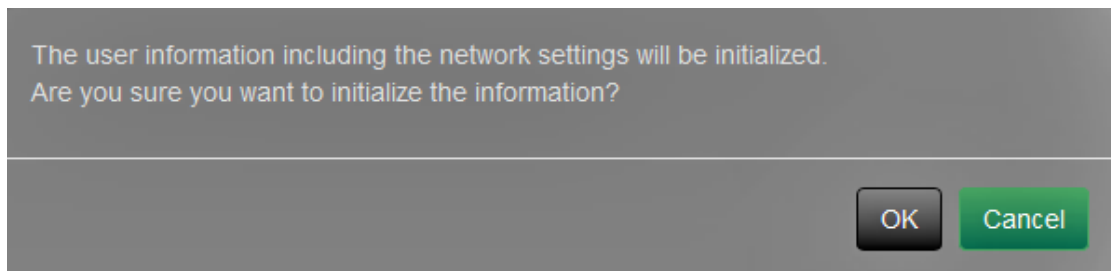
The “Maintenance” screen is displayed.



2. Select “Start” under “Initialization”.

A confirmation message is displayed.

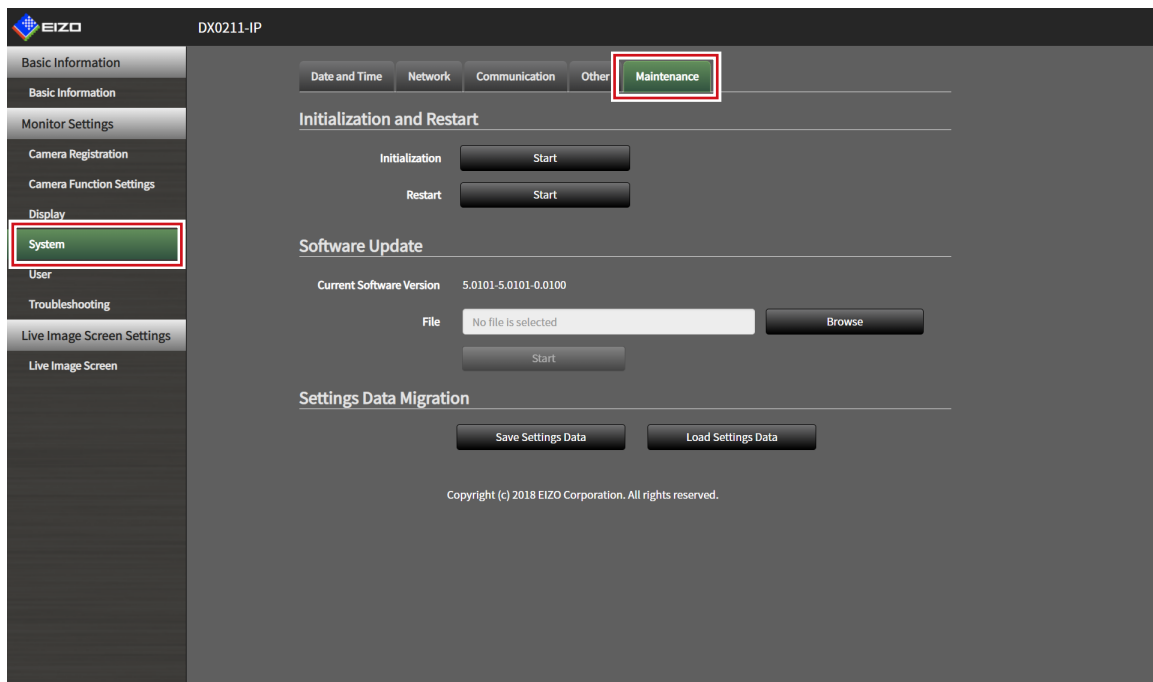
3. Select “OK”.



3-6. Restarting the System

1. Select “Maintenance” under “System”.

The “Maintenance” screen is displayed.

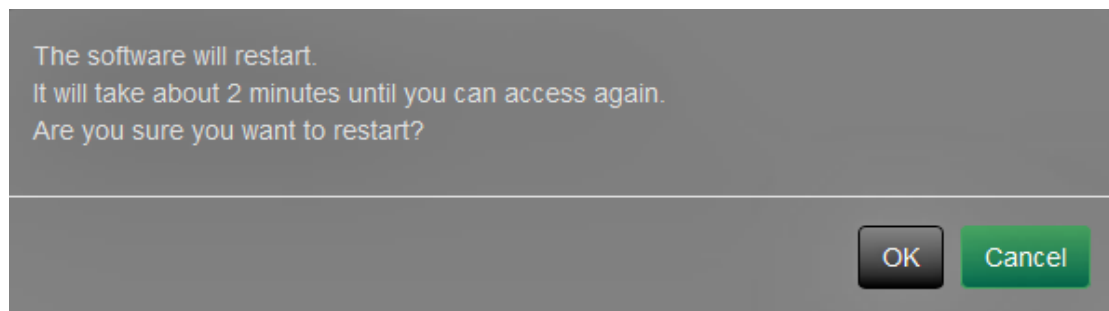


2. Select “Start” under “Restart”.

A confirmation message is displayed.

3. Select “OK”.

Restart the system.



3-7. Updating Software

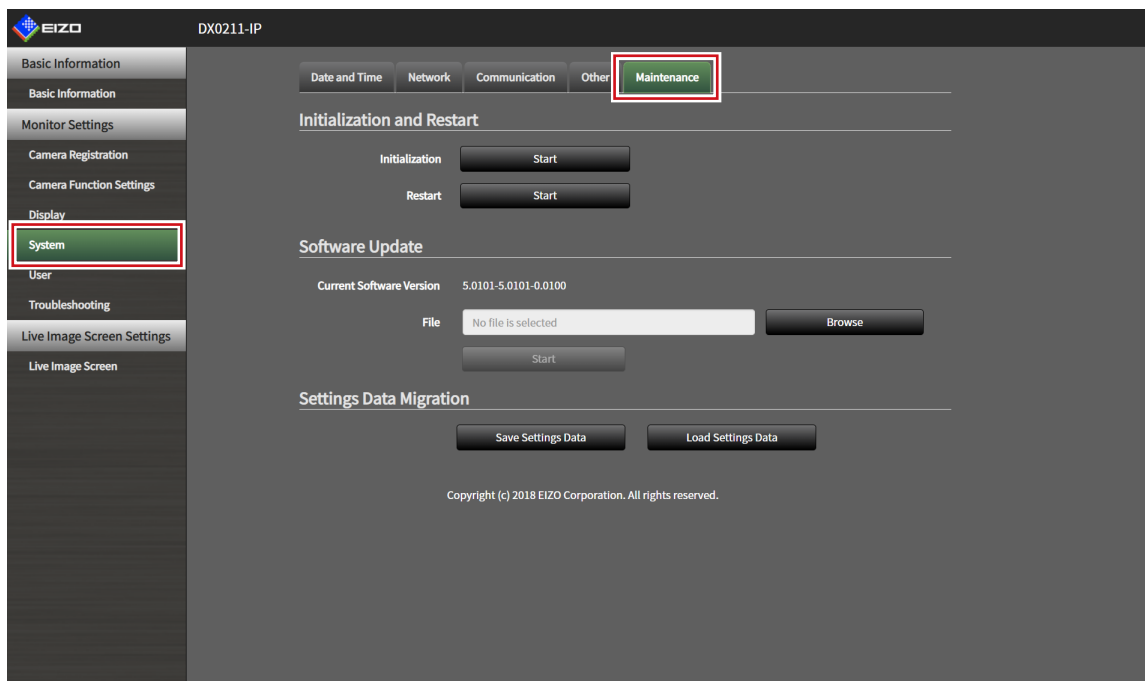
The software version can be upgraded. Download the upgrade file from the EIZO website (www.eizoglobal.com) ahead of time.

Attention

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

1. Select “Maintenance” under “System”.

The “Maintenance” screen is displayed.



2. Select the upgrade file.

Select “Browse” under “Software Update” and set the file.

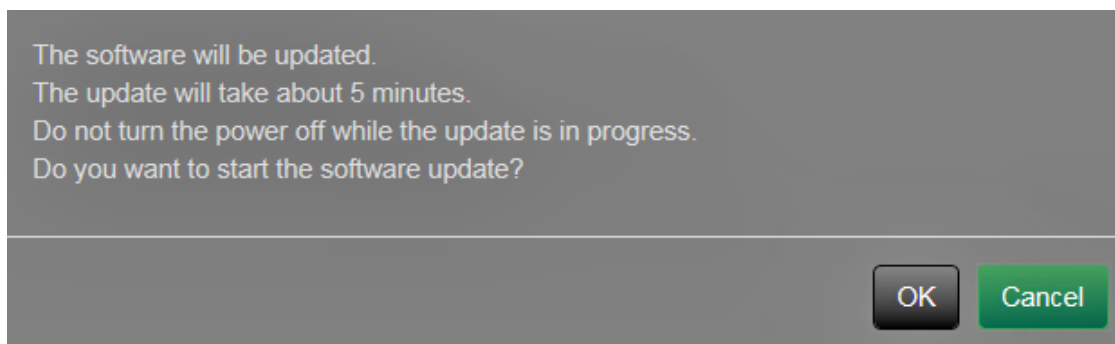
Attention

- If the file is not selected or if a file other than the update file is selected, the software will not be updated.
- Update the software only when the power supply is connected to the product.

3. Select “Start”.

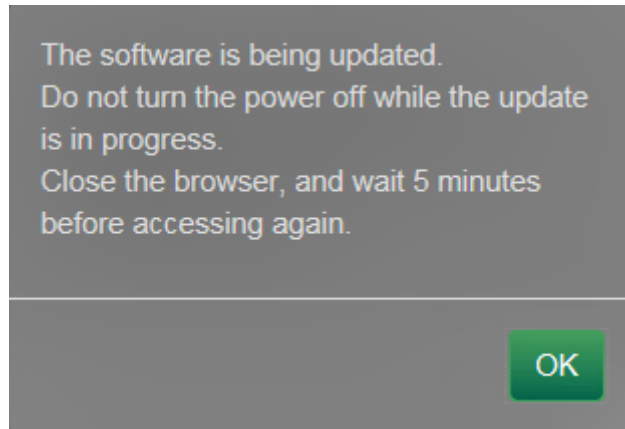
A confirmation message is displayed.

4. Select “OK”.



A “Software is being updated” message is displayed.

5. Select “OK”.



Note

- It takes approximately five minutes to update the software.
-

3-8. Saving Settings Data

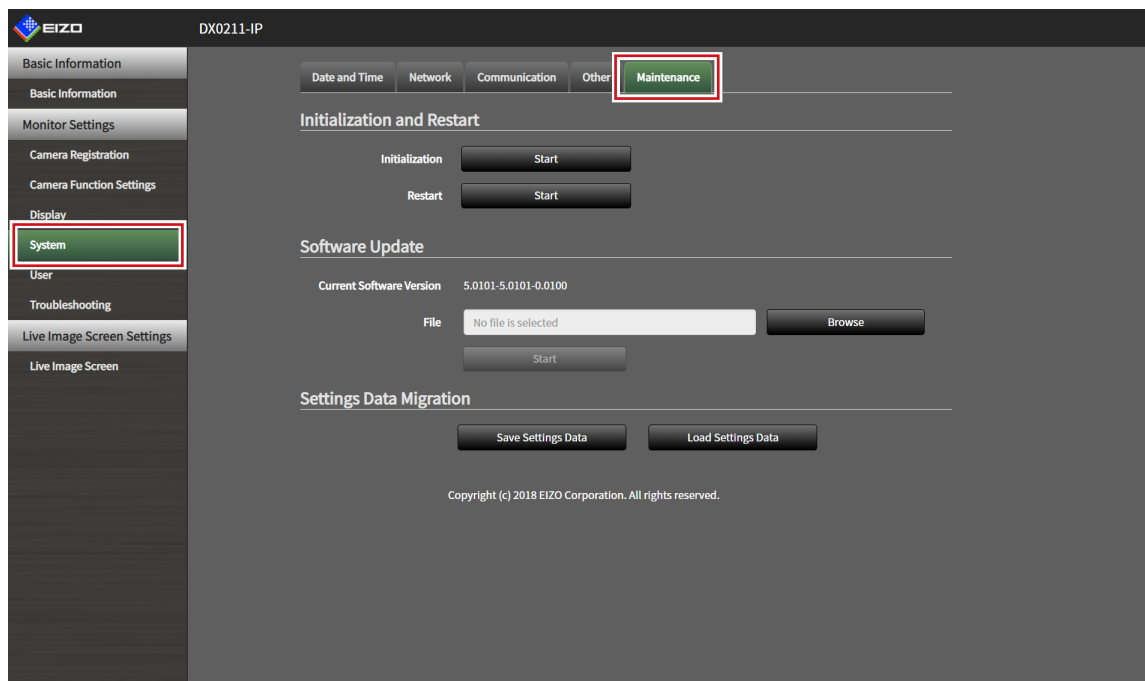
Settings data can be exported to a file. The exported file can be used to transfer settings data to the DX0211-IP.

Attention

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

1. Select “Maintenance” under “System”.

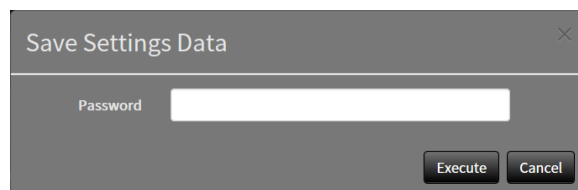
The “Maintenance” screen is displayed.



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 you forget the password that you specified when saving the data, you will no longer be able to load the settings data.

Note

- Saved file name: dx0211-ip_Backupyyyyymmdd.duraconf2 (yyyyymmdd is the save date.)

3-9. Loading System Settings Data

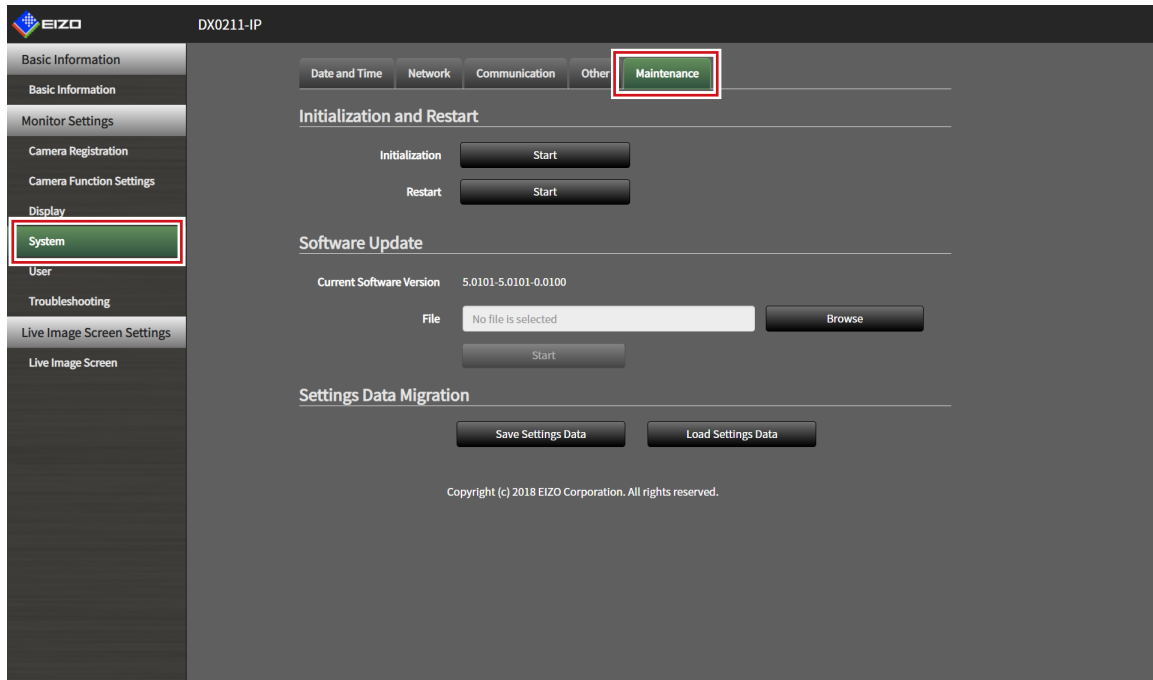
Load settings data from a file.

Attention

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

1. Select “Maintenance” under “System”.

The “Maintenance” screen is displayed.

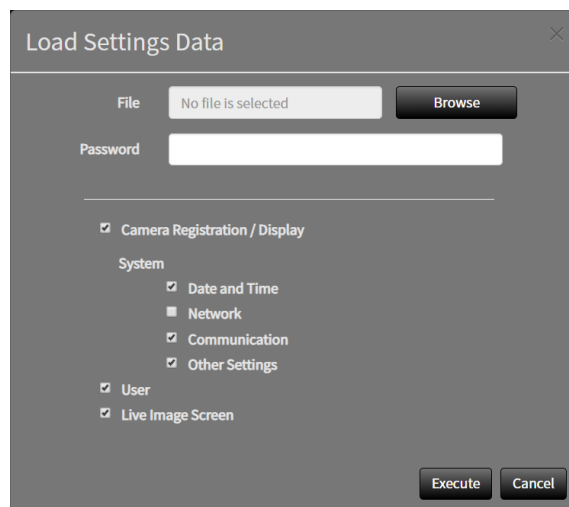


2. Select “Load Settings Data” under “Settings Data Migration”.

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”.

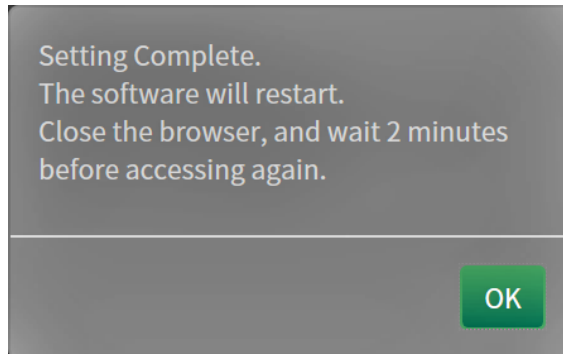
5. Select the data to be loaded.

Place a check mark in the check box.

6. Select “Execute”.

When loading is completed, a message is displayed.

7. Select “OK”.



Attention

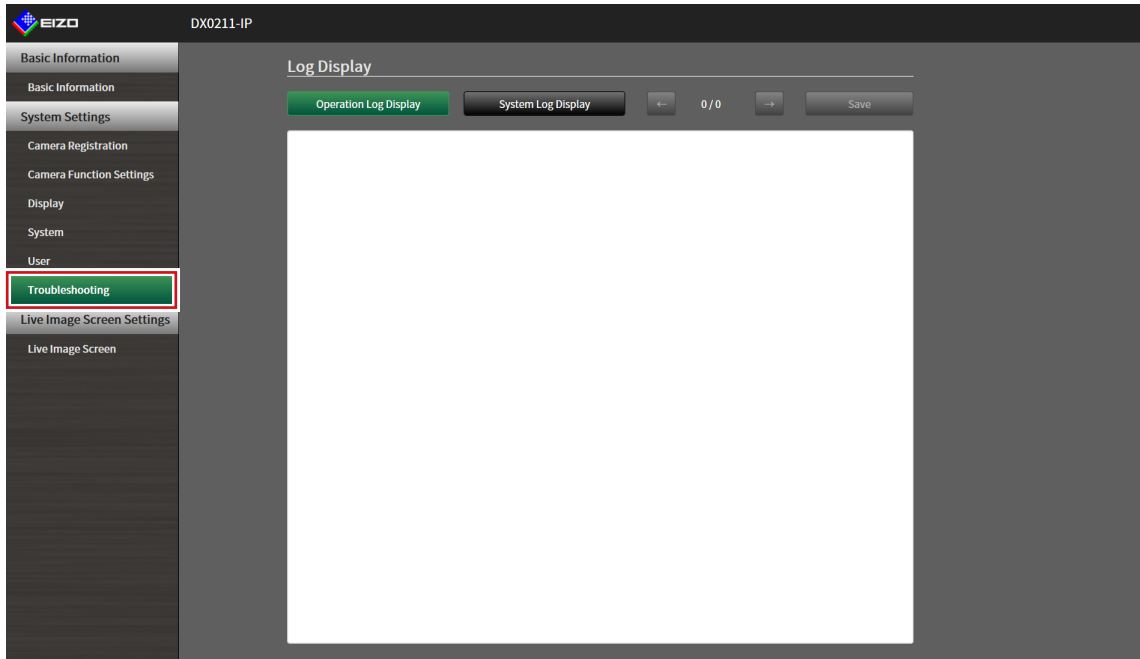
- If the environment where settings data was saved is different from the environment where settings data is loaded with respect to network settings or communication settings, you may not be able to display the settings screen from the web browser.
-

3-10. 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 “Troubleshooting”.

The “Log Display” screen is displayed.



2. Select “Operation Log Display” or “System Log Display”.

A log is displayed in the following area.

3-11. Saving Logs

Save operation logs and system logs.

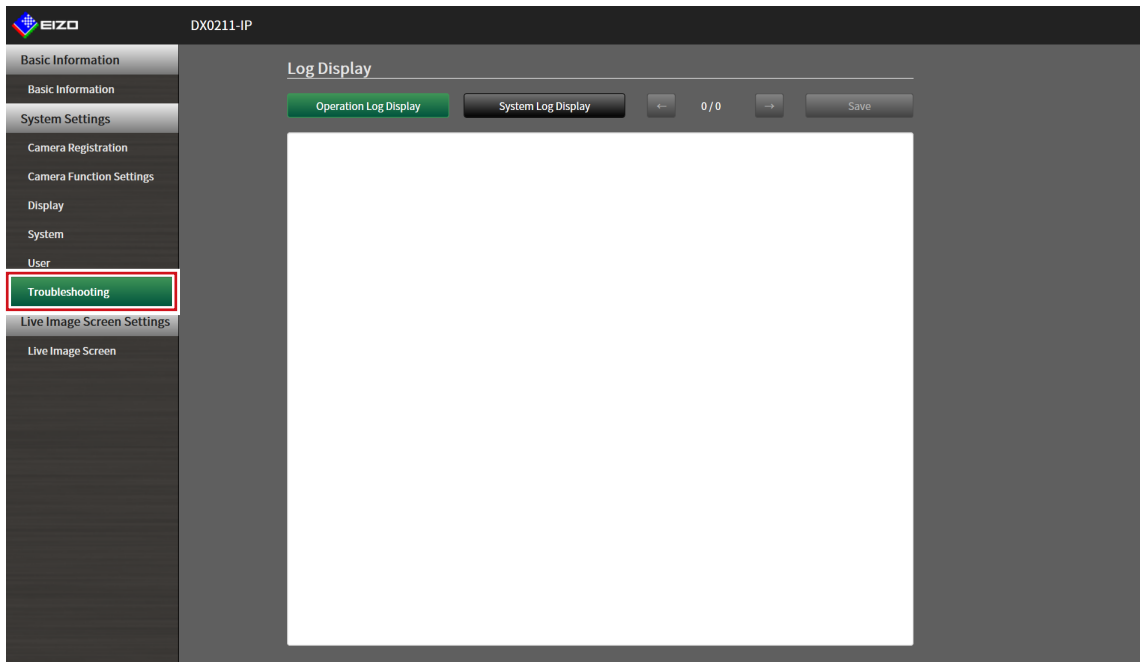
Use these logs to check the current or past conditions of the system or to find out the cause when a problem occurs.

Attention

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

1. Select “Troubleshooting”.

The “Log Display” screen is displayed.



2. Select “Operation Log Display” or “System Log Display”.

A log is displayed in the following area.

3. Select “Save”.

The saving destination dialog box is displayed.

4. Select a saving destination.

5. Select “Save”.

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 the Network Cameras

1. Select “Camera Registration”.

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

The screenshot shows the Eizo DX0211-IP web interface. The left sidebar contains a menu with the following items: Basic Information, System Settings, Camera Function Settings, Display, System, User, Troubleshooting, Live Image Screen Settings, and Live Image Screen. The 'Camera Registration' item under 'System Settings' is highlighted with a red box. The main content area is titled 'Camera Registration' and displays a table with the following columns: No., Camera Name, Model No., Protocol, IP Address, MAC Address, and Status. The table has 16 rows. The first row is populated with data: No. 1, Camera Name 'EIZO-DG-SP304', Model No. 'DG-SP304', Protocol 'ONVIF', IP Address '192.168.0.101', MAC Address '08:00:27:00:00:00', and Status '--'. The remaining 15 rows are empty. Below the table are buttons for 'Manual Registration', 'Delete', 'Load Camera Information', 'Save Camera Information', and an 'Apply' button at the bottom right.

No.	Camera Name	Model No.	Protocol	IP Address	MAC Address	Status
1	EIZO-DG-SP304	DG-SP304	ONVIF	192.168.0.101	08:00:27:00:00:00	--
2	--	--	--	--	--	--
3	--	--	--	--	--	--
4	--	--	--	--	--	--
5	--	--	--	--	--	--
6	--	--	--	--	--	--
7	--	--	--	--	--	--
8	--	--	--	--	--	--
9	--	--	--	--	--	--
10	--	--	--	--	--	--
11	--	--	--	--	--	--
12	--	--	--	--	--	--
13	--	--	--	--	--	--
14	--	--	--	--	--	--
15	--	--	--	--	--	--
16	--	--	--	--	--	--

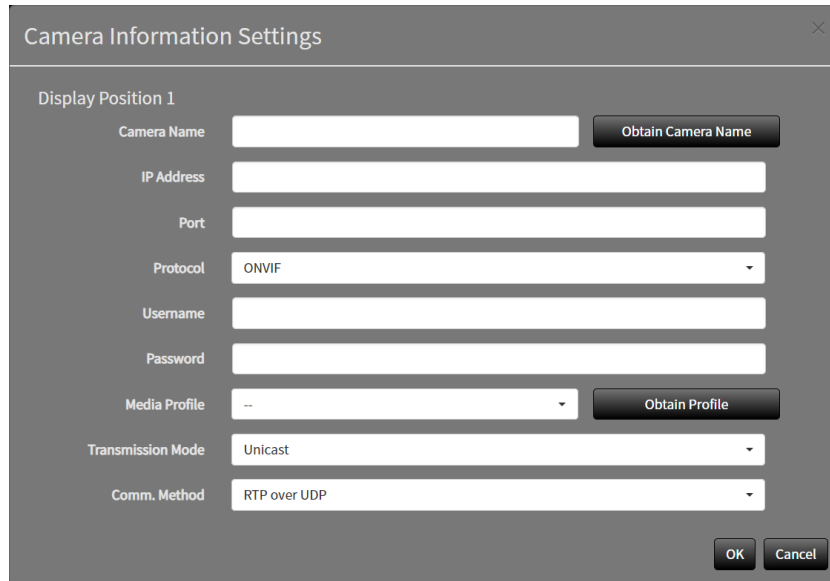
2. Select a position where the camera is to be registered.

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

3. Select “Manual Registration”.

The “Camera Information Settings” dialog box is displayed.

4. Set each item and select “OK”.



Item	Description	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. <ul style="list-style-type: none">• Network camera with “Protocol” set to “ONVIF”: Camera model number or camera manufacturer's name.	Alphanumeric (Up to 24 characters)
IP Address	Enter the IP address of the network camera.	0.0.0.0 to 255.255.255.255
Port	Enter the port number of the network camera.	1 to 65535* ²
Protocol	Select the protocol to control cameras.	ONVIF / DirectUri
Username* ³	Enter the user name to be used to access the network camera.	Alphanumerics and symbols (Up to 32 characters)
Password* ³	Enter the password to be used to access the network camera.	Alphanumerics and symbols (Up to 32 characters)
Media Profile* ⁴	Select the ONVIF image profile. If “Obtain Profile” is selected, the profile is automatically obtained from the network camera.	EIZO_Profile / Profile of each camera
Transmission Mode* ⁴	Select the mode for transmitting camera video images.	Unicast / Multicast
URI* ⁵	Set the URI that starts with rtsp:// or rtp://.	Alphanumerics (Up to 255 characters)
Comm. Method	Select the communication method for camera video images.	RTP over UDP* ⁶ RTP over RTSP

*¹ This can be obtained only when “IP Address”, “Port”, “Username”, and “Password” are input.

*² When “Protocol” is set to “DirectUri” and “URI” starts with rtp://, the setting range will be 1824 to 65534.

*³ Enter the username and password of the user who has the administrator's rights.

*⁴ This can be set only when “Protocol” is set to “ONVIF”.

*⁵ This can be set only when “Protocol” is set to “DirectUri”.

*⁶ 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”
- In the case where “Protocol” is set to “DirectUri” and “URI” starts with rtp://

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

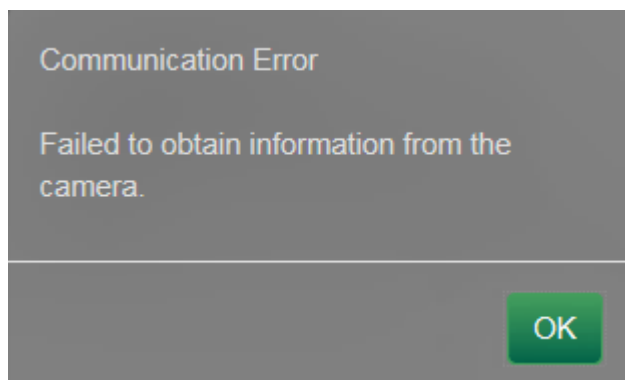
5. Select “Apply”.

A confirmation message is displayed.

6. Select “OK”.

Note

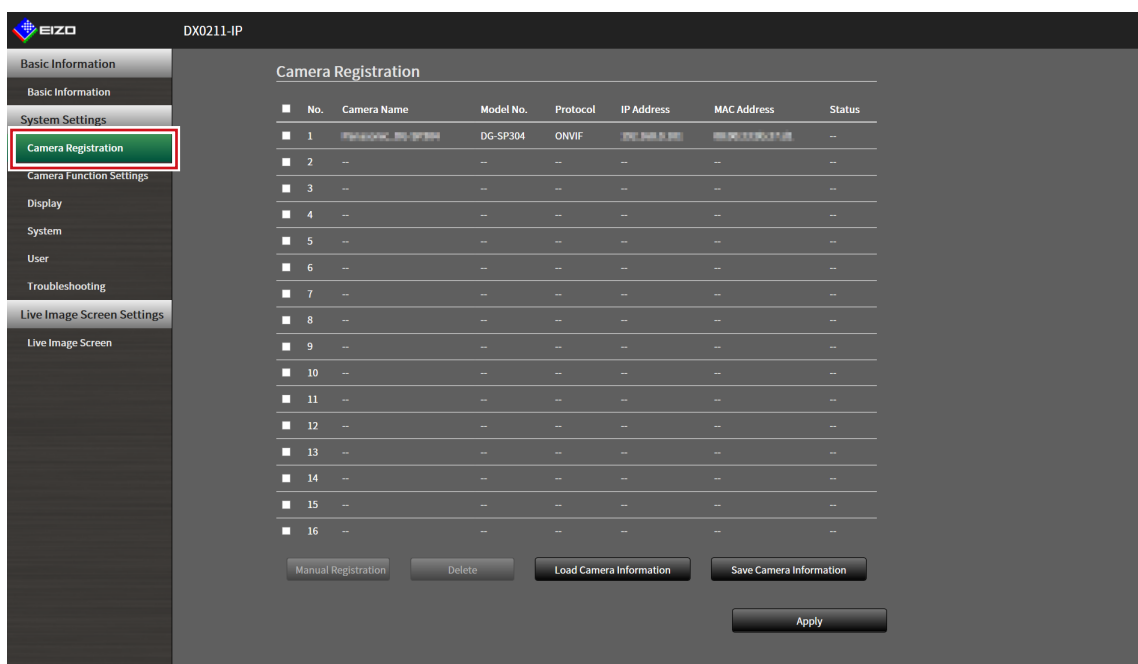
- If there is a failure in obtaining “Obtain Camera Name” or “Obtain Profile” information, the following message is displayed. Obtain the information again.



4-2. 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.

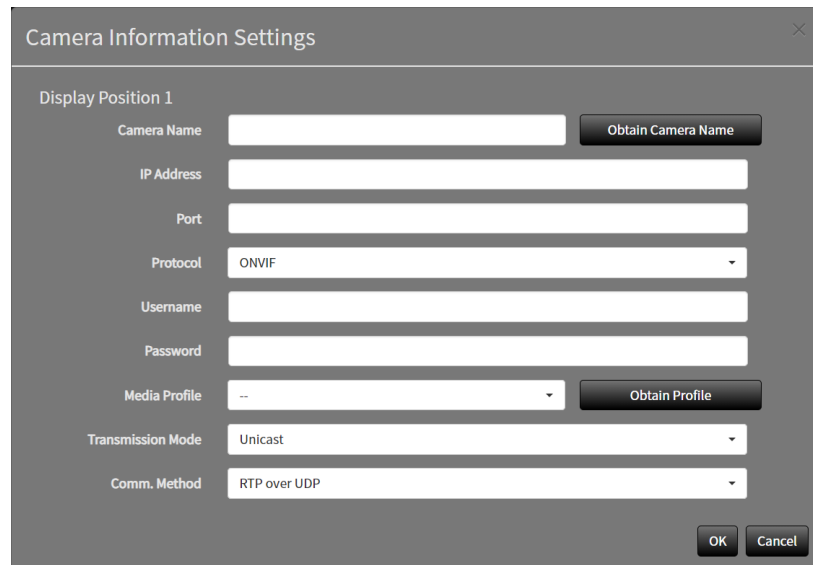
Place a check mark on the check box of the position number of the camera to be changed.

3. Select “Manual Registration”.

The “Camera Information Settings” dialog box is displayed.

4. Set each item and select “OK”.

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



Note

- For details, refer to step 3 ([page 25](#)) under “4-1. Registering the Network Cameras”.
-

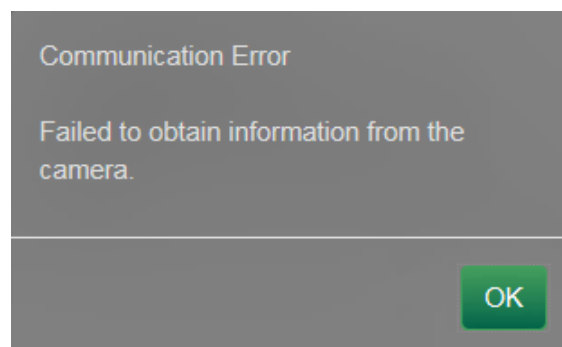
5. Select “Apply”.

A confirmation message is displayed.

6. Select “OK”.

Note

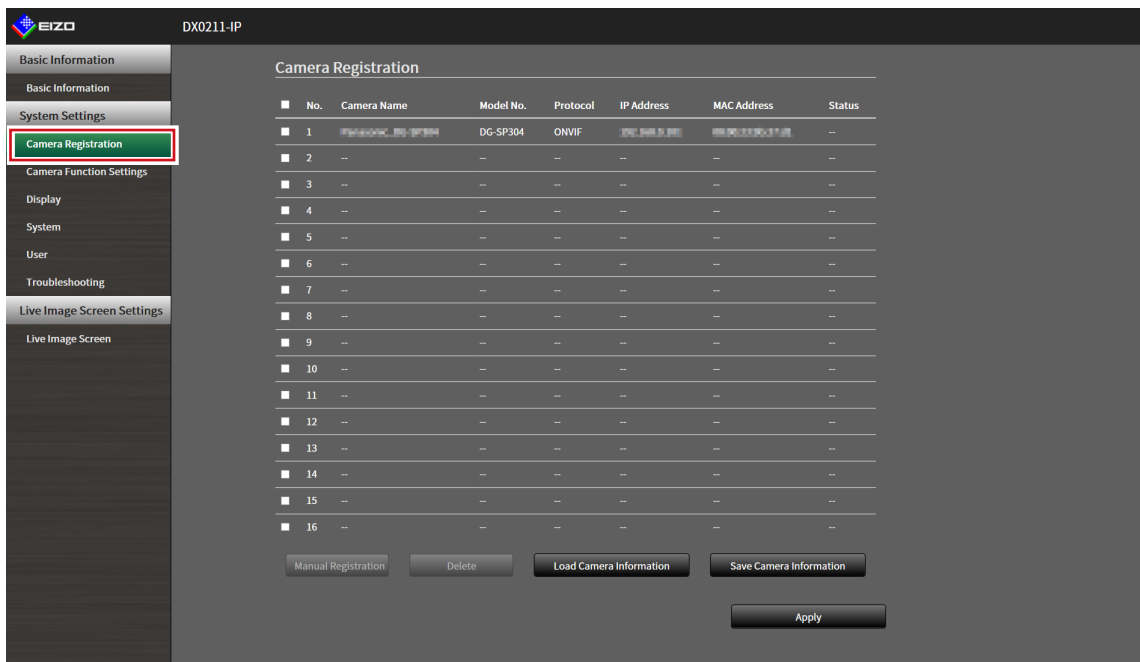
- If there is a failure in obtaining “Obtain Camera Name” or “Obtain Profile” information, the following message is displayed. Try obtaining the information again.



4-3. Deleting Network Cameras

1. Select “Camera Registration”.

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

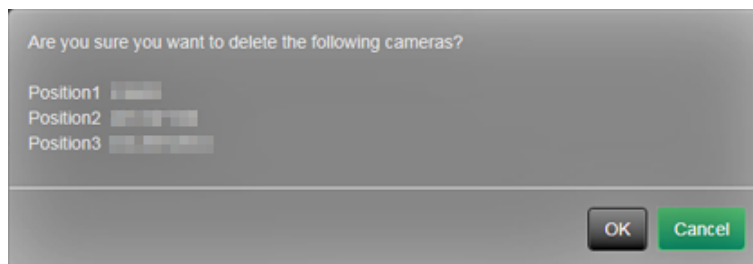


2. Select the camera to be deleted.

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

3. Select “Delete”.

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”.

4-4. Exporting Network Camera Information

The list of camera registration information can be saved in a CSV file.

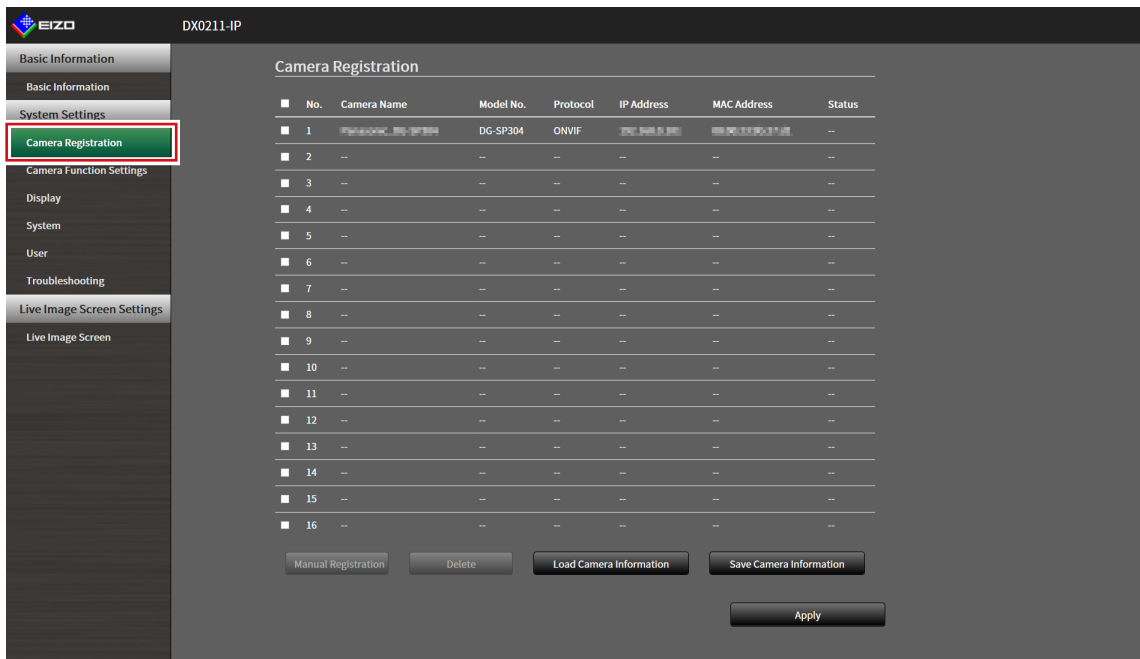
The exported file can be used to transfer network camera information to the DX0211-IP.

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 message regarding CSV file download is displayed at the bottom of the screen.

3. Select “Save”.

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

Note

- Saved file name: dx0211-ip_CameraInfo_YYYYMMDD.csv(YYYYMMDD is the computer date and time.)

4-5. Importing Network Camera Information

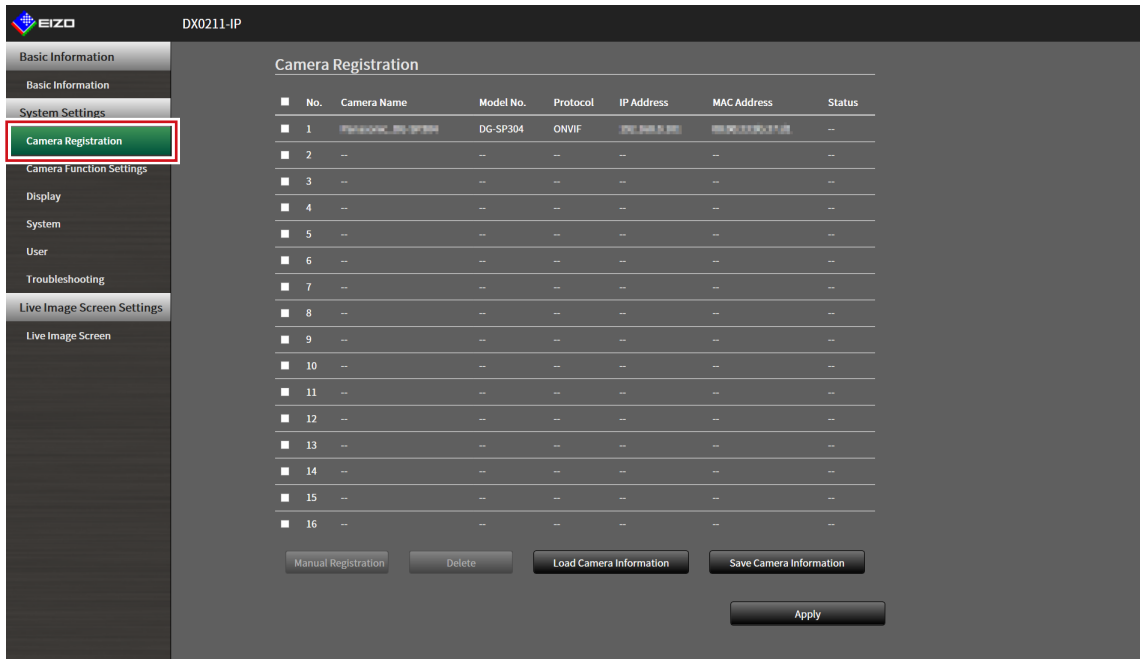
A CSV file that contains additional camera candidates can be imported and used for registration.

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.

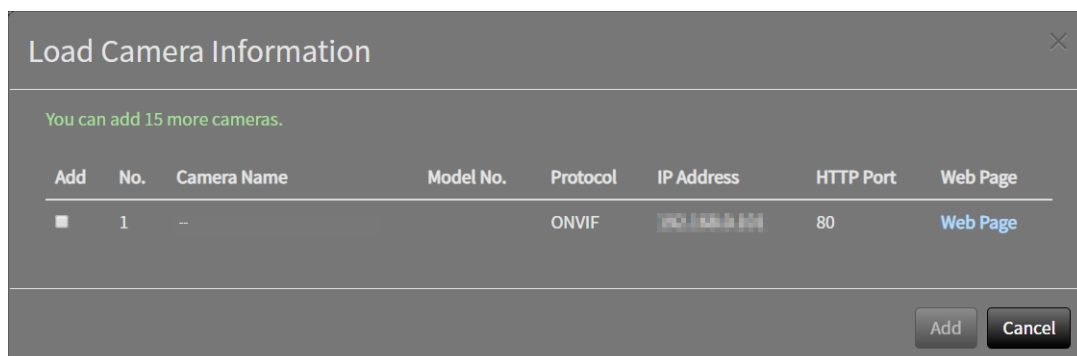


2. Select “Load Camera Information”.

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 is displayed.



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

Returns to the screen that shows a list of camera registration information in the above 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 [“4-4. Exporting Network Camera Information” \(page 30\)](#).
- When a user creates a CSV file, the following rules apply.
 - In line 1, enter the following as the item line: “CameraName, Protocol, IPAddress, Port, UserName, PassWord, Uri, Comm.Method”.
 - The columns are in random order.
 - Input of the “UserName, PassWord, Uri, Comm. Method” values is user-defined.

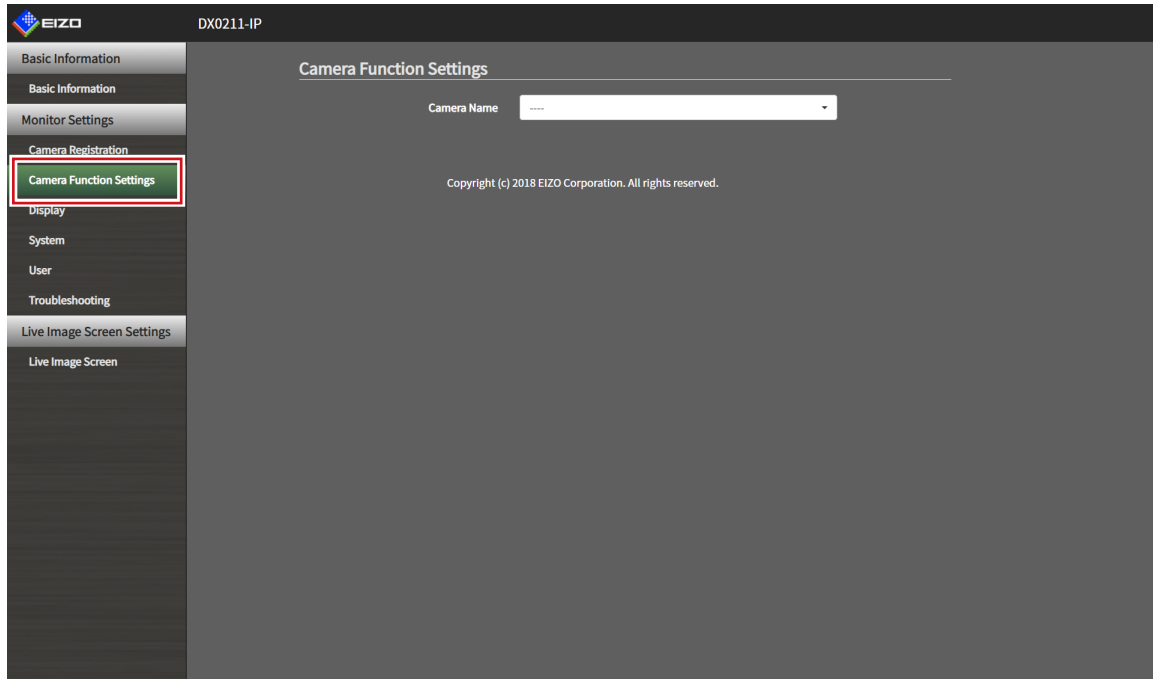
```
CameraName,Protocol,IPAddress,Port,UserName,PassWord,Uri,Comm.Method
[redacted],192.168.0.100,80,admin,[redacted]
[redacted],192.168.0.200,80,admin,[redacted]
[redacted],192.168.0.250,80,admin,[redacted]
```

4-6. Setting Network Camera Time

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

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” under “Camera Info. Display/Clock Settings”.

The clock is synchronized.

4-7. Setting Quality of Transmission Video Images

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

Note

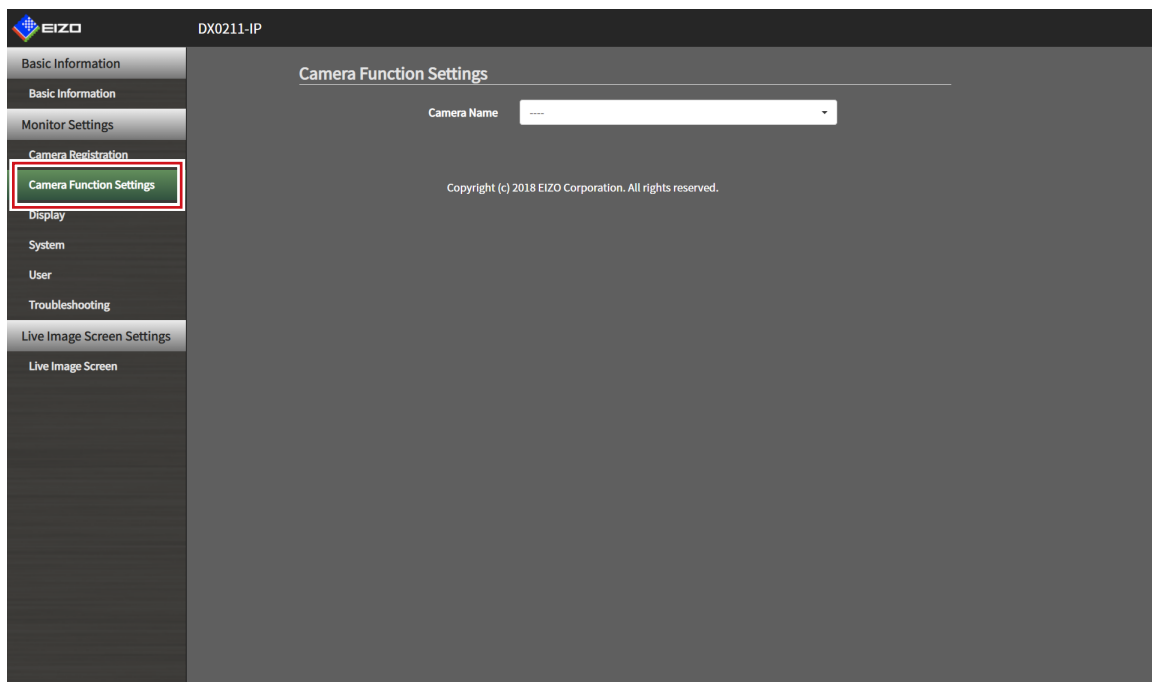
- This product supports H.264 and MJPEG (ONVIF only) video compression formats.

Attention

- When devices such as recorders are connected to a network camera, the display and recording of such devices may be affected.
- Setting cannot be performed if “Protocol” is a “DirectUri” network camera.

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”.

Item	Description	Setting range
Media Profile	Select the profile.	EIZO_Profile / Profile of each camera
Encoder	Select the encoder settings.	According to the camera specifications
Compression Format	Select the compression format.	H.264 / MJPEG
Resolution	Set the resolution.	According to the camera specifications
Frame Rate	Set the frame rate (video image update interval).	1 to 30 fps
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
Comm. Method	The communication methods for camera video images are displayed.	RTP over UDP / RTP over RTSP
Transmission Mode	Select the transmission mode.	Unicast / Multicast
Multicast Address ^{*2}	Set the Multicast address for Multicast transmission.	224.0.0.0 to 239.255.255.255
Multicast Port ^{*2}	Set the Multicast port number for Multicast transmission.	1824 to 65534: even numbers only
Multicast TTL ^{*2}	Set the network TTL value for Multicast transmission.	According to the camera specifications

^{*1} Displayed when “H.264” is selected for “Compression Format”.

^{*2} Displayed when “Multicast” is selected for “Transmission Mode”.

Note

- If “Protocol” of the network camera is set to “DirectUri”, setting contents are displayed.

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.

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.

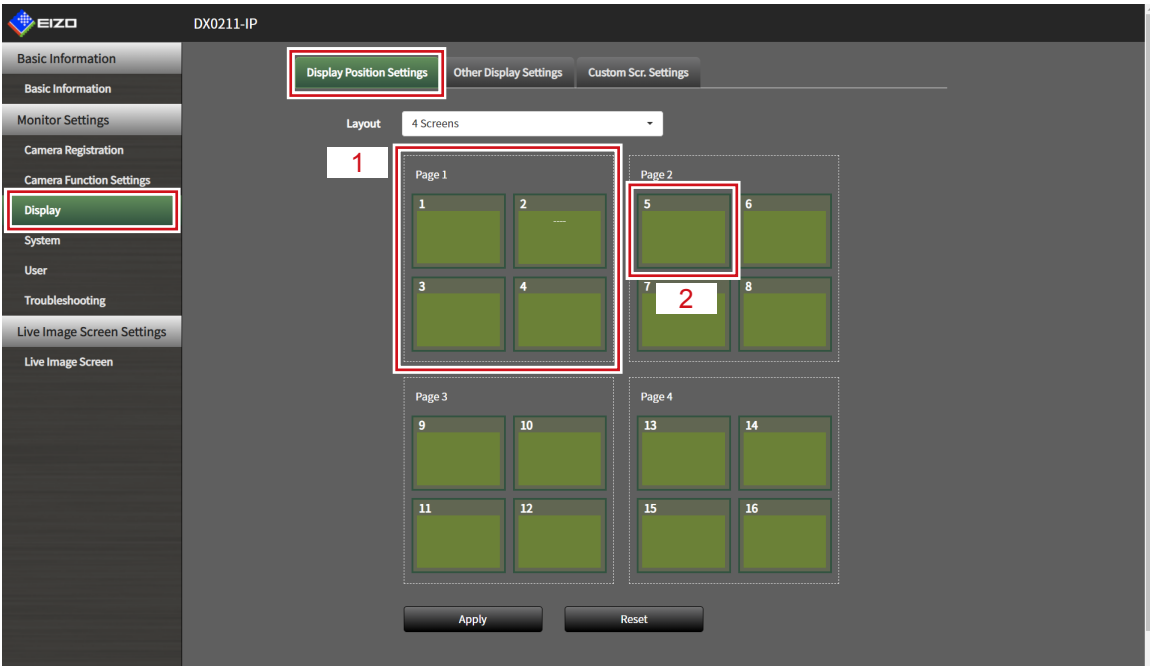
Note

- It is possible to set all the display positions of the registered network cameras.

1. Select “Display Position Settings” under “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 the 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 set for the current monitor.
-

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” on 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 monitor display setting.

Note

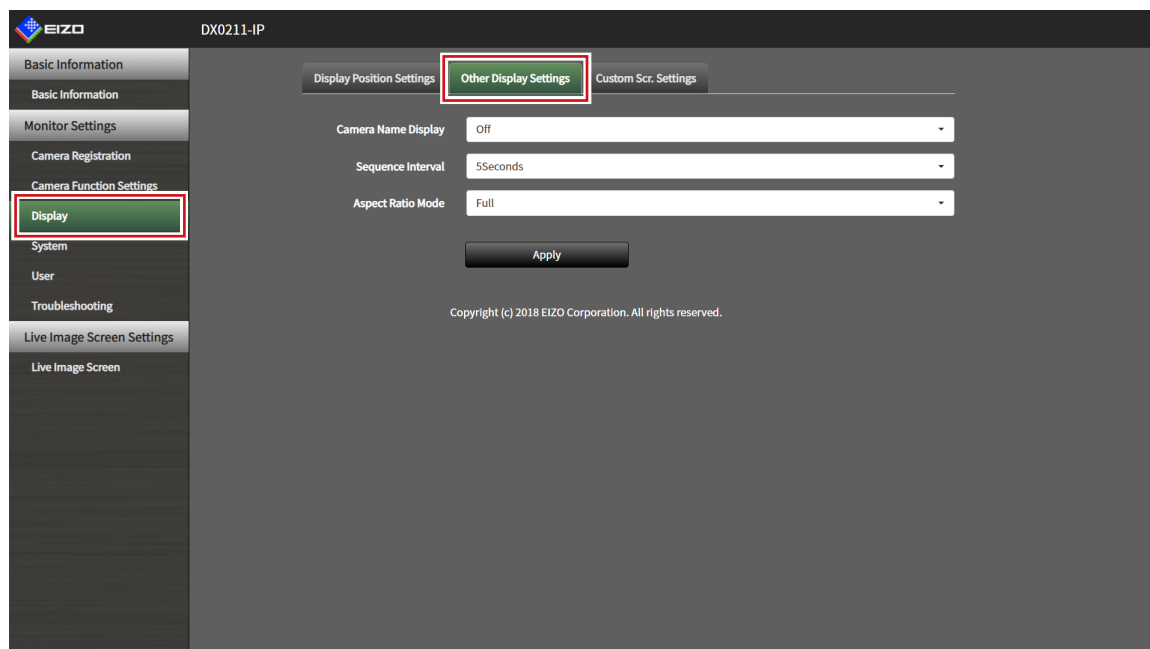
- If displayed on the web browser screen, a camera web page link is embedded in the frame where a camera name is assigned. (Excluding network cameras with their “Protocol” set to “DirectUri”.) Click the camera name, and a camera web page is displayed in a separate window.
-

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” under “Display”.

The “Other Display Settings” screen is displayed.



2. Set the following items.

Item	Description	Setting range
Camera Name Display	Select to display or hide the registered camera name on the live image screen. (The camera name is displayed at the upper left of the video image.)	On / Off
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 39) .	Full / Aspect

3. Select “Apply”.

The setting complete screen is displayed.

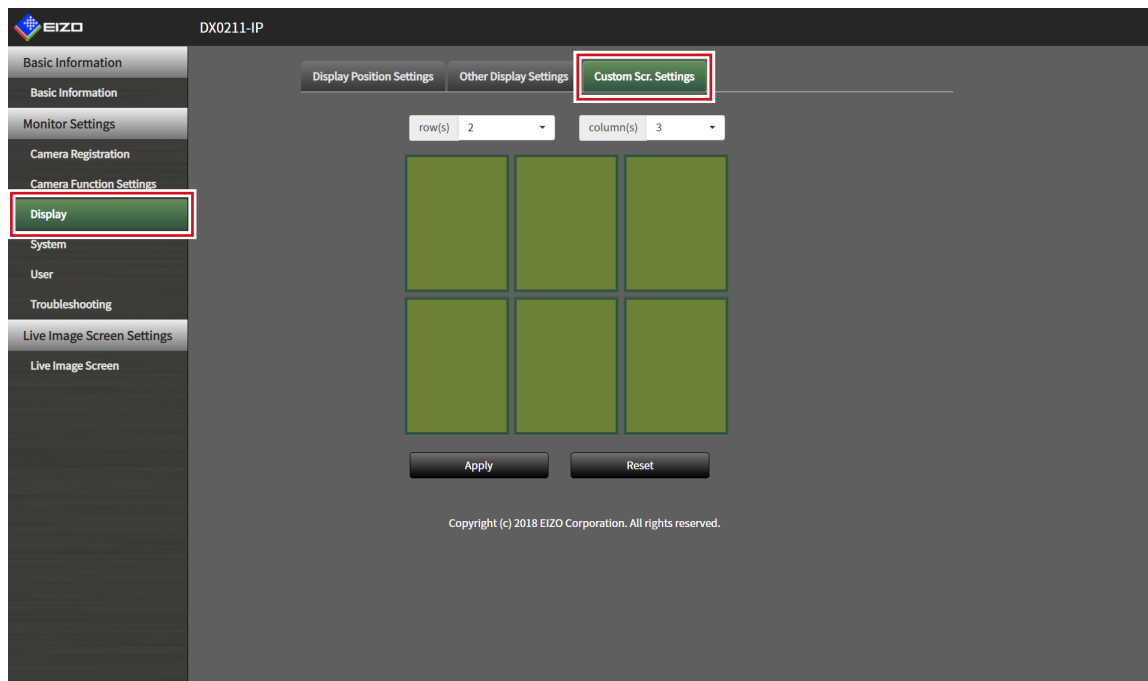
4. Select “OK”.

5-3. Setting Custom Screen Layouts

Set the screen layout when "Custom Screen" is selected for "Layout" under "Display Position Settings".

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

The "Custom Scr. Settings" screen is displayed.



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 monitor display setting.

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", refer to ["5-1. Setting Display Positions of Camera Video Images" \(page 36\)](#).

5-4. Setting the Display Methods of Live Image Screens

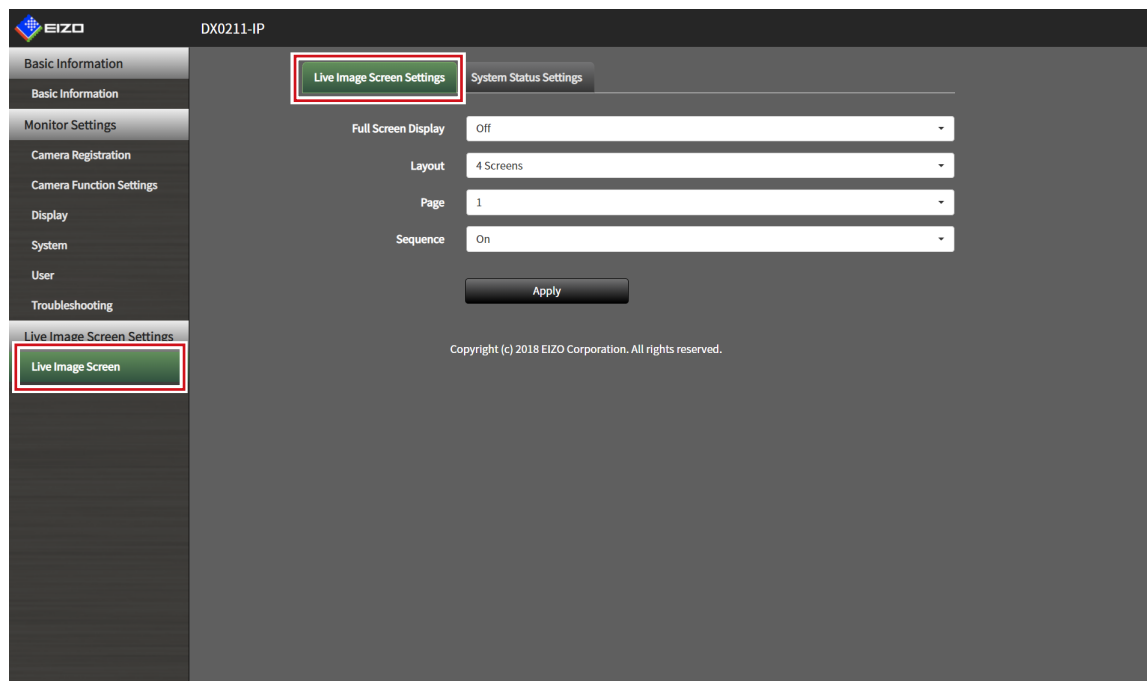
Display settings such as changing the live image screen layout are performed.

Attention

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

1. Select “Live Image Screen Settings” under “Live Image Screen”.

The “Live Image Screen Settings” screen is displayed.



2. Select each setting item from the list box.

Item	Description	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 / 8 Screens / Custom Screen
Page	Set to switch the page of camera video images to display on the monitor.	1 to 16
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”.

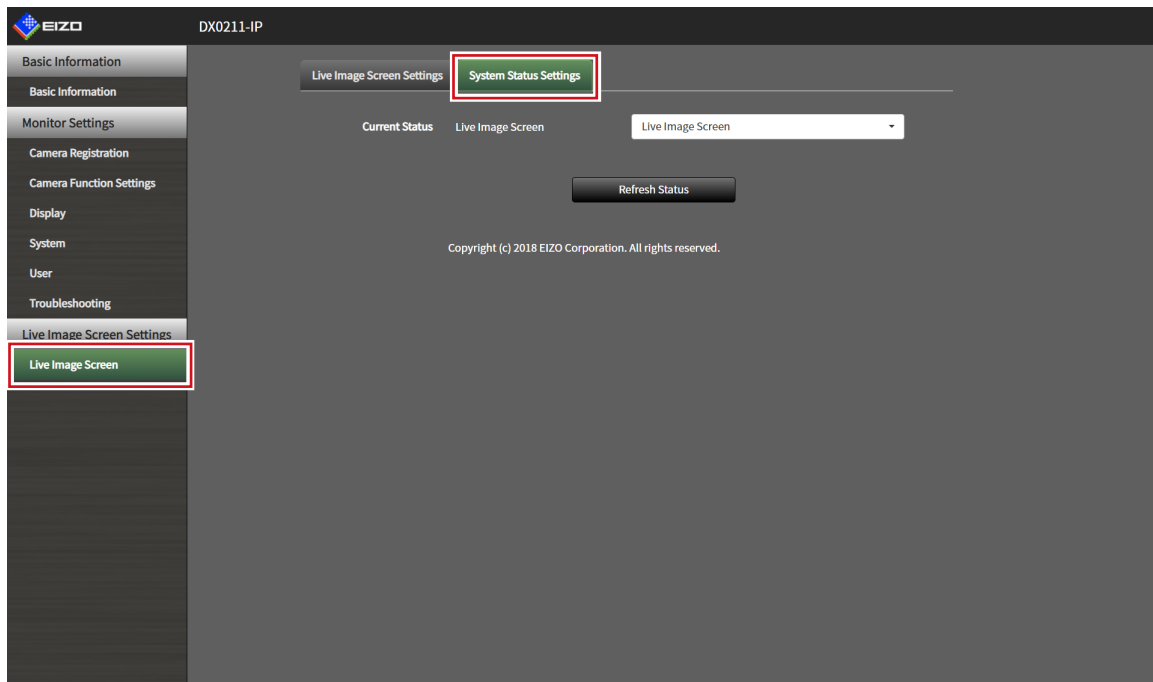
5-5. Setting Current Monitor Display Status

Attention

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

1. Select “System Status Settings” under “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	Description
Live Image Screen	The monitor screen shows a live image screen.
Quick Shutdown	The power is off.
Setting Screen	The monitor screen displays a setting screen.

3. Select “Refresh Status”.

The latest status is reflected.

Chapter 6 Management of the User Account

This section describes procedures for registering, changing, or deleting the user account (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".
- Enter the username with alphanumerics excluding " : ".

Note

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

(√: Operable, -: Inoperable)

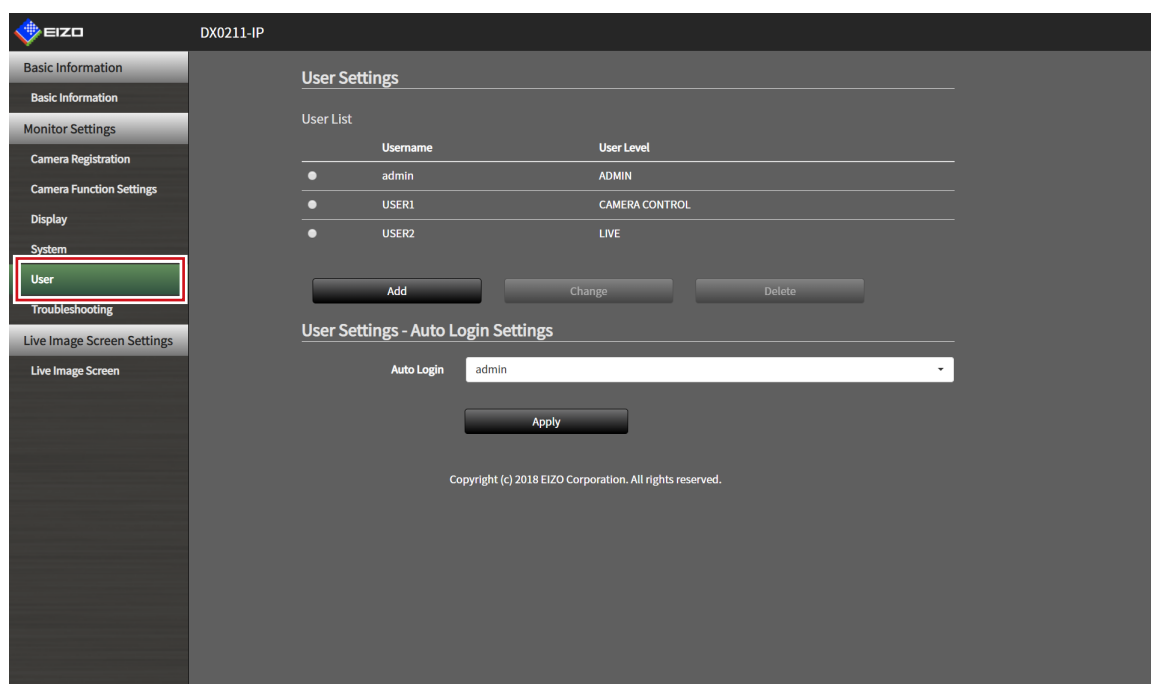
Operation Level	Menu display	Layout change	Page change	Login operation	System settings
LIVE	√	√	√	√	-
CAMERA CONTROL	√	√	√	√	-
ADMIN	√	√	√	√	√

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

6-1. Registering the User Account

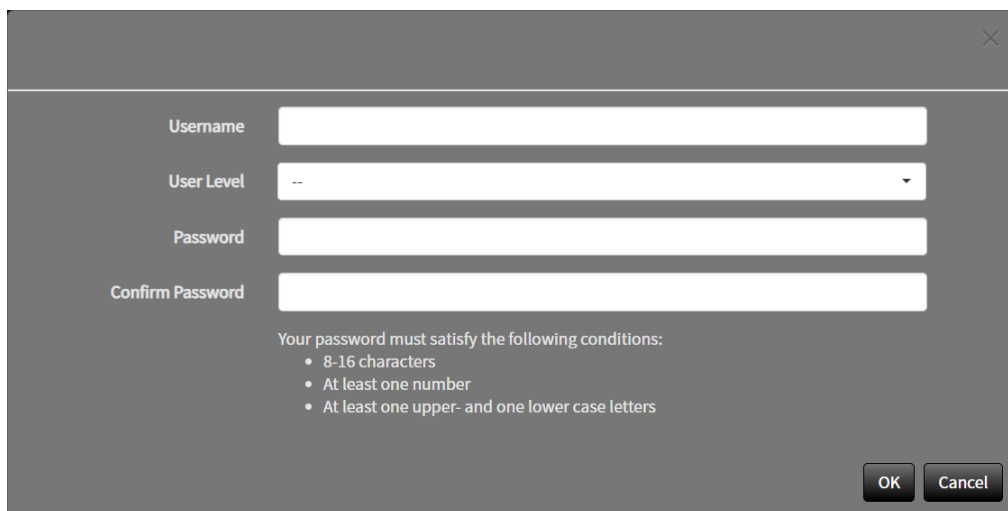
1. Select "User".

The "User Settings" screen is displayed.



2. Select “Add”.

A dialog box for setting the user account is displayed.



Username

User Level

Password

Confirm Password

Your password must satisfy the following conditions:

- 8-16 characters
- At least one number
- At least one upper- and one lower case letters

OK Cancel

3. Set the user account.

Item	Description
Username	Enter a username. Enter the username with alphanumerics excluding “ : ”.
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. <ul style="list-style-type: none">• 8-16 characters• At least one number• At least one upper case and one lower case letter
Confirm Password	Enter the same password again for confirmation.

4. Select “OK”.

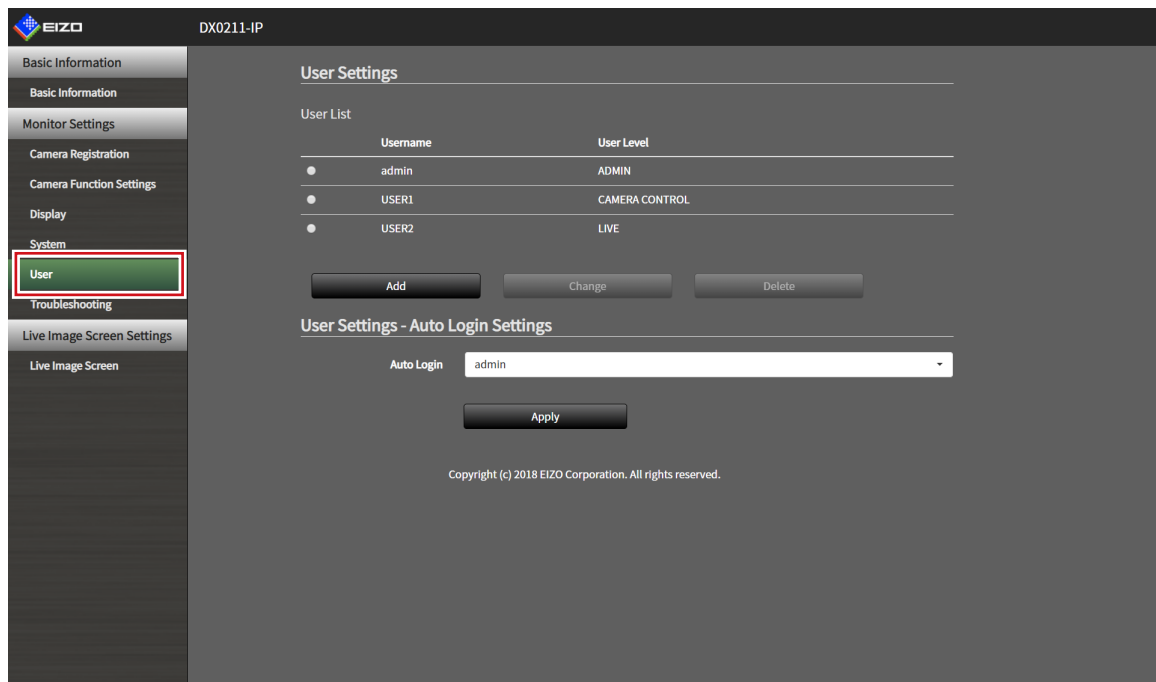
The setting complete screen is displayed.

5. Select “OK”.

6-2. Changing the User Account

1. Select “User”.

The “User Settings” 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.

Username: admin

User Level: ADMIN

Password:

Confirm Password:

Your password must satisfy the following conditions:

- 8-16 characters
- At least one number
- At least one upper- and one lower case letters

OK Cancel

4. Change the user information.

5. Select “OK”.

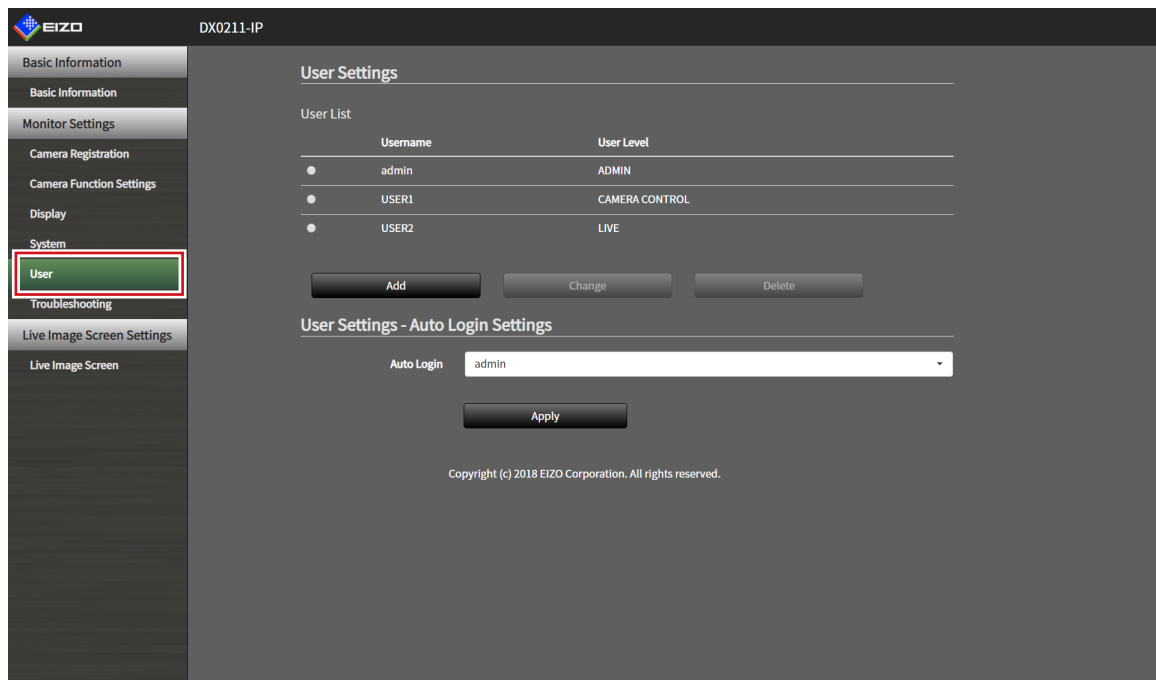
The setting complete screen is displayed.

6. Select “OK”.

6-3. Deleting the User Account

1. Select “User”.

The “User Settings” screen is displayed.



2. Select a user to be deleted from “User List”.

3. Select “Delete”.

A “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”.

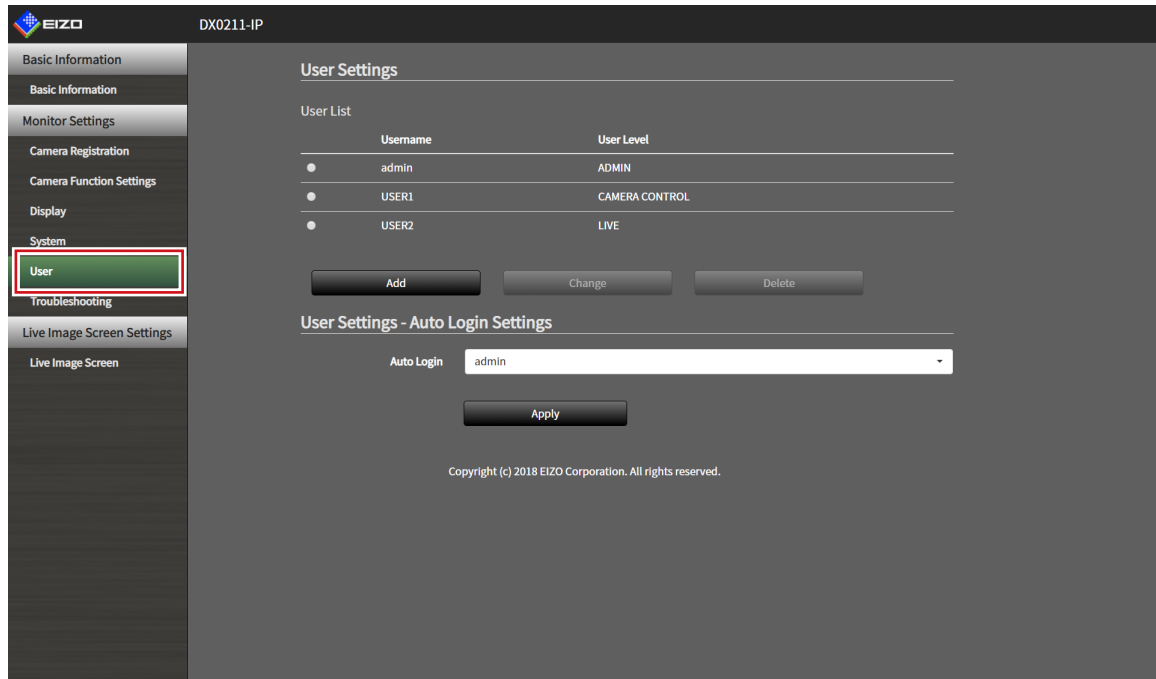
6-4. Configuring Auto Login Settings

Attention

- 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 “User”.

The “User Settings” 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”.

Chapter 7 Troubleshooting

7-1. Imaging Problems

Problem	Possible cause and remedy
The screen is not displayed on the monitor	<ul style="list-style-type: none">• Check that the power supply to the monitor is turned on.• Is the HDMI cable correctly connected? Is the input signal on the monitor set to the HDMI input?
The display images are not smooth / camera images are not displayed	<ul style="list-style-type: none">• Reduce the resolution and / or bit rate set for the network camera. (Refer to “4-7. Setting Quality of Transmission Video Images” (page 34).)• 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.
Camera images are not displayed properly on the live image screen for approximately 30 seconds after the power is supplied to this product	<ul style="list-style-type: none">• 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 is reset to a normal display.
The time of the network camera and the time of the system do not match (when a camera images are being displayed)	<ul style="list-style-type: none">• On the setting screen, adjust the time of the network camera to the time of this product. (Refer to “4-6. Setting Network Camera Time” (page 33).)

Problem	Possible cause and remedy
<p>An error message “E**-**” is displayed on the camera image display area</p>	<ul style="list-style-type: none"> • When Communication failed (“E01-**”) <ul style="list-style-type: none"> - 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 “4-7. Setting Quality of Transmission Video Images” (page 34).) • When Communication failed (“E02-**”) <ul style="list-style-type: none"> - 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. • When Communication failed (“E03-**”) <ul style="list-style-type: none"> - 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 “4-7. Setting Quality of Transmission Video Images” (page 34).) • When in Incompatible resolution (“E04-**”) <ul style="list-style-type: none"> - 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-**”) <ul style="list-style-type: none"> - 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-**”) <ul style="list-style-type: none"> - The Multicast setting value may not be set correctly. Check the settings of the camera.

7-2. Setting Problems

Problem	Possible cause and remedy
Cannot log in.	<ul style="list-style-type: none">• Enter the username and password again.• Reset the account information using the RESET button and log in as the default setting account.
Only one camera is recognized when using a video encoder that supports multiple channels	<ul style="list-style-type: none">• Manually register the number of channels that will be used. (Refer to “4-1. Registering the Network Cameras” (page 25).)
A communication error message is displayed when “Apply” is selected for network camera manual registration	<ul style="list-style-type: none">• There may be a problem with network camera communication. Check the network connection status and camera registration details.
Cannot register a new user	<ul style="list-style-type: none">• Duplicate user names cannot be registered.• A maximum of ten users can be registered. Check whether ten users have already been registered. (Refer to “Chapter 6 Management of the User Account” (page 42).)
Cannot delete a user	<ul style="list-style-type: none">• 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 42).)
Cannot communicate with the camera	<ul style="list-style-type: none">• Check the settings of the network camera and the system. For details, contact the system administrator.
The set date and time are not displayed correctly.	<ul style="list-style-type: none">• 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 14).)

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*1 This can be used only when using the Web browser.

Appendix

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