



User's Manual

DuraVision[®]

DX0231-IP

IP Decoding Box

DuraVision[®]

FDF2731W-IP

Color LCD Monitor

Software Version 7.3

Important

Carefully read this User's Manual and Setup Manual before use to use the monitor correctly.

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

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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1 Introduction

This document explains camera (network camera) settings, system settings, and specifications.

1.1 Features

1.1.1 Communication with the cameras

- Can receive video images from a 4K camera (3840 x 2160 / 30 fps)
- Can display video signals from cameras on a monitor
 - Supports H.265, H.264, and MJPEG compression formats.
 - Supports RTP, MPEG2-TS, and SRT transmission modes.
 - Can register a maximum of 48 cameras.
 - 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 cameras.
 - Supports unicast and multicast communication methods.
 - Can switch display position of camera video images while displaying video images.

1.1.2 Output to other monitors (DX0231-IP only)

- Supports output to 4K monitors (3840 x 2160 / max. 60 fps)

1.1.3 Supports multiple types of cameras

- Compatible with ONVIF® Profile S
- Supports camera control using camera manufacturer specific protocols (When connecting AXIS and Panasonic/i-PRO cameras)
- Can receive video streams from streaming servers such as VMS (Video Management Software)

1.1.4 System management

- Can register cameras or set the live image screen using a web browser
- Can save and load settings data
 - Can save or load the setting data a computer.

1.1.5 Event link function

- Event rules
 - You can set actions to be executed as triggers for specific events.
- Schedule function
 - You can set a schedule, such as turning the system off and on at a specified day/time.

1.1.6 Various software extensions

- Icon arranger
Allows you to rearrange or delete live image 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).
- Virtual PTZ
Even if the camera does not have PTZ functionality, this product enables PTZ operations by digitally processing the camera images internally.

1.1.7 Security

- Communication error detection
Allows displaying of a red frame alert message on the live image screen within a few seconds when communication with cameras is lost.
- Lock function
Disables USB devices, front key operation, and remote control operation.
- Network security protocols
Supports protocols required for building high-level security systems including IEEE802.1X, SNMP, and LDAP.

1.1.8 Supports secure communication

- Utilizes SSL and TLS secure protocols.
Communication between cameras and web pages is encrypted using SSL.
- Secure login via LDAP authentication is possible

1.1.9 Support

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

1.1.10 Operations

- The live image screen can be controlled using a USB mouse, USB keyboard, remote control, or joystick

1.2 User Level

There are three levels of user accounts that access this product. The operable range differs according to the level of the user.

- ADMIN
- CAMERA CONTROL
- LIVE

The range of operation for each level is shown below.

✓: Operable, -: Inoperable

	Live image screen				Setting screen
	Switch layout	Switch displayed pages	Switch camera image display positions	Camera control	
ADMIN	✓	✓	✓	✓	✓
CAMERA CONTROL	✓	✓	✓	✓	-
LIVE	✓	✓	-	-	-

When the power is turned on and logged off, the user level is "LIVE." For information on user level settings, refer to [7 Managing User Accounts \[▶ 73\]](#).

1.3 Licenses

This product has features that can be used by applying a paid license. The types of system licenses are as follows.

- VMS extended functionality license
- Live View extended functionality license
- Decoding extended functionality license

You can check the application status of the system license on the setting screen after logging in (refer to [2.2 Displaying the Setting Screen \[▶ 11\]](#)). For information on registering a system license, refer to [4.11 Registering a License \[▶ 30\]](#).

2 Displaying the Live Image Screen / Setting Screen

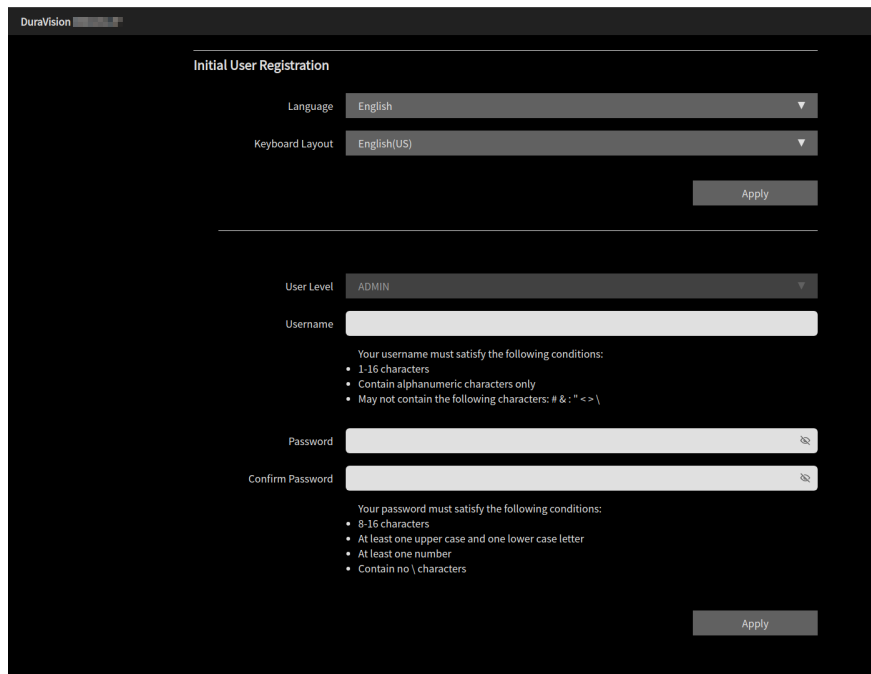
2.1 Turning on the Power and Displaying the Live Image Screen

1. Press the power button (⏻) on the front of the product.
 The power indicator flashes blue while the system is preparing to start. It takes about 1 minute to start up.
 Once the system starts, the power indicator will turn blue, and the screen will appear. If user registration has already been completed, the live screen will appear.

Note

- For the FDF2731W-IP, make sure the main power switch on the back is turned on.

2. When starting this product for the first time, the initial user registration screen will appear. Set each item.
 - "Language" ([Language \[▶ 10\]](#))
 - "Keyboard Layout" ([Keyboard Layout \[▶ 10\]](#))
 - "User Level"
 The user level cannot be selected when registering for the first time (fixed to "ADMIN").
 - "Username" ([Username \[▶ 10\]](#))
 - "Password" ([Password \[▶ 11\]](#))
 - "Confirm Password"
 For confirmation, re-enter the same password.

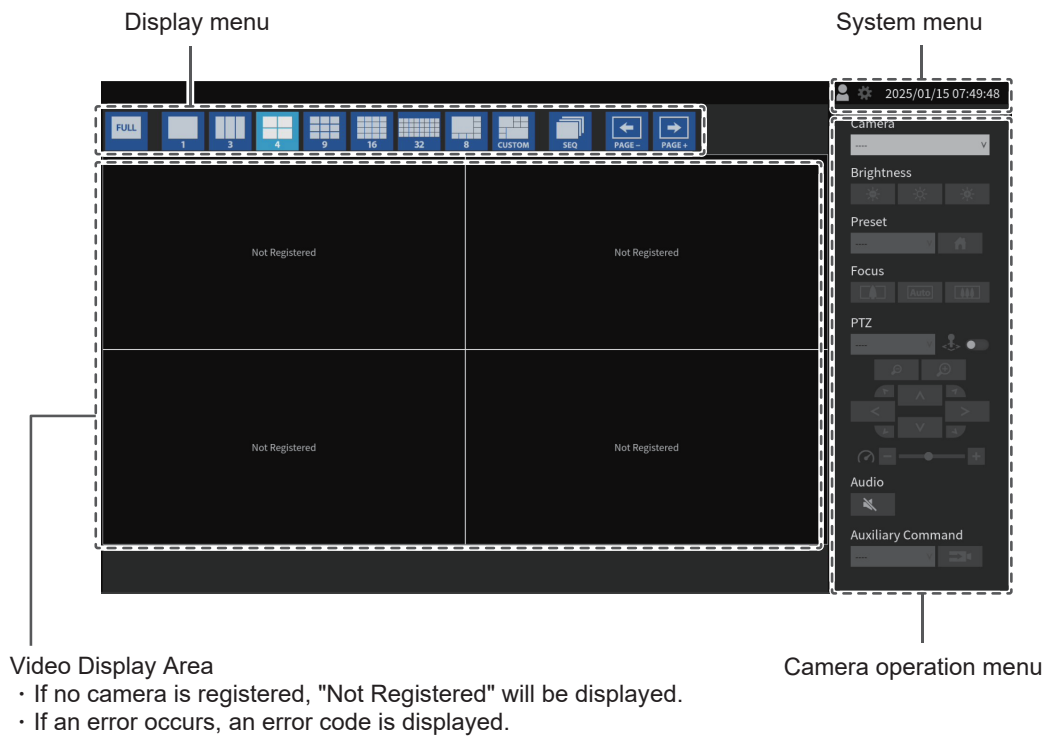


Note

- Initial user registration can also be done from the web console (refer to [When Using the Web Console \[▶ 12\]](#)).

3. Click "Apply."

- Click "OK" in the confirmation dialog box.
After the system restarts, the live screen will be displayed.



Note

- Press the power button (⏻) on the front panel.
- You can also turn the power on/off with the power button (⏻) on the remote control.

Language

Settings: "日本語" / "English" / "Deutsch"

Select the language.

Keyboard Layout

Settings: "Japanese" / "English(US)" / "English(UK)" / "German"

Select the keyboard layout.

Username

Enter the username. Set the username so that it meets the following conditions.

- At least 1 character, 16 characters or less
- Alphanumeric characters only
- At least 1 number
- Does not contain the characters # &: "<>\"

The following username cannot be set.

- "." / ".." / "auto-login"

Password

Enter the password. Set a password that is difficult for a third party to guess.

- 8 to 16 characters
- At least one uppercase and lowercase English letter
- At least one number
- Does not contain the character \

2.2 Displaying the Setting Screen

[User Level "ADMIN"]

The setting screen can be operated using the monitor console (screen displayed on the monitor) or the web console (screen displayed on the browser).


To display the setting screen, it is necessary to log in as a user with a user level of "ADMIN."

Note
<ul style="list-style-type: none"> • For information on user levels, refer to 1.2 User Level [▶ 8]. • To prevent third parties from operating the camera or tampering with settings, it is recommended that you log out after completing the settings. • If you set up auto login, you can log in to the system without entering a username and password (refer to 7.4 Configuring Auto Login Settings [▶ 75]).



2.2.1 When Using the Monitor Console

Use a USB mouse to perform operations. The setting screen cannot be operated using the remote control.

Clicking an item that requires characters to be input will display a software keyboard.

1. On the live image screen, click the login icon (.
2. Enter a username and a password.

Note
<ul style="list-style-type: none"> • If LDAP is set up, enable "Allow choosing of account type on the login dialog." in the LDAP settings beforehand to be able to select the account type (LDAP/local user) on the login screen (refer to 7.5 Configuring LDAP Settings [▶ 75]).

3. Click "Login."
The setting icon () can then be selected.
4. Click the setting icon (.

2.2.2 When Using the Web Console

Perform operations from a computer connected to the network.

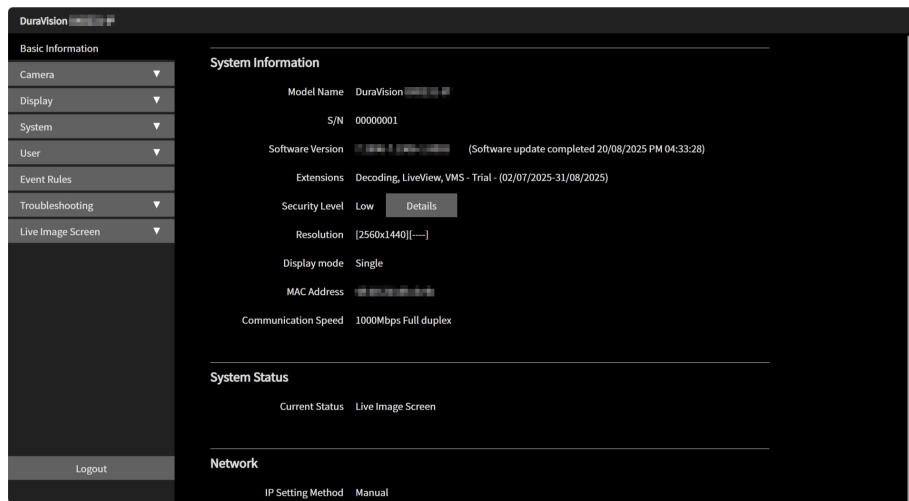
Note

- It is recommended to use Microsoft Edge version 79 or later.
- Since communication via HTTP is not encrypted, there is a risk that data may be intercepted by a third party. To ensure secure communication, it is recommended to use HTTPS.
- When accessing via https:// during the initial startup, a warning may appear in your browser due to the use of a self-signed certificate. This is normal behavior. If a warning appears, click "Advanced Settings" or "More Information" and select "Access this site (not secure)." After logging in, register "CA-Signed Certificate" and the warning will no longer be displayed.
- You cannot select an account type.

1. Launch the browser.
2. Enter the following address to access the site.
Address: http://<IP address of this product>/ or https://<IP address of this product>/
In the default settings, the IP address is http://192.168.0.150/ or https://192.168.0.150/.
3. Enter a username and a password.
4. Click "OK."
The setting screen appears.

Note

- If you cannot log in, try the following address.
http://<IP address of product>/index.html or https://<IP address of product>/index.html







On the monitor console, the "Logout" menu at the bottom left of the screen changes to the "Return" menu.

3 Operating the Live Image Screen

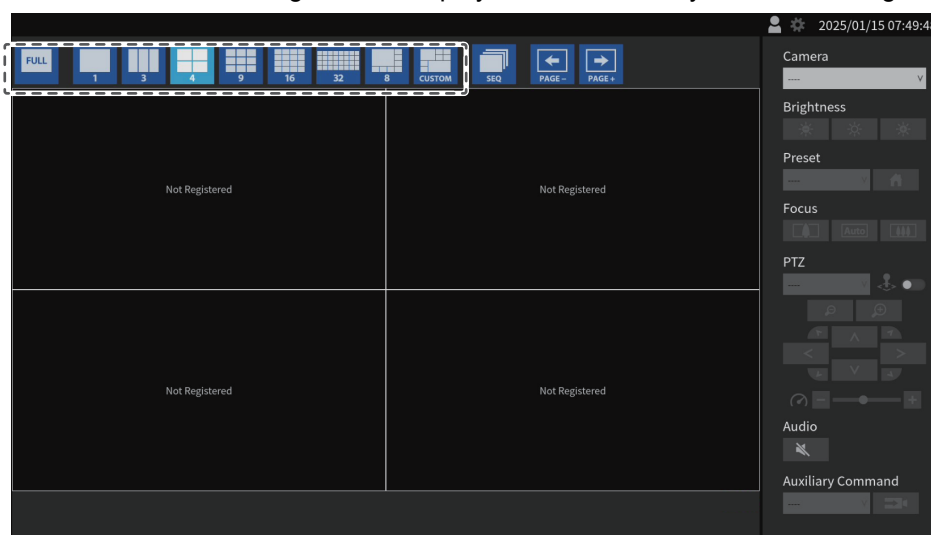
The live image screen can be operated with a USB mouse, USB keyboard, remote control, or joystick.

- USB keyboard and remote control operations

Item	USB keyboard	Remote Control
To select an item	Arrow keys	 /  /  / 
To set a selected item	Enter key	ENTER
When deselecting a camera	Escape key	RETURN

3.1 Switching the Live Image Screen Layout

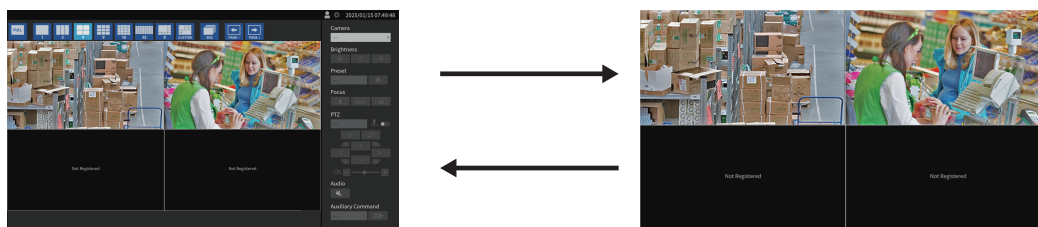
Set the number of camera images to be displayed simultaneously on the live image screen.



3.1.1 Displaying in Full Screen

1. Click **FULL**.

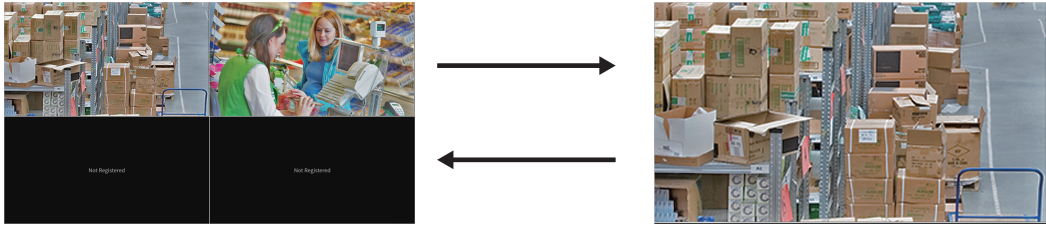
The menu is hidden, and the image is displayed on the entire screen. To display the menu, hover over the top edge of the screen. Double-click **FULL** on the display menu to return to the original display state.



Note

- You can also use the following methods to perform this operation.
 - USB keyboard: Shortcut key (F)
 - Remote Control: **FULL**
 - Setting screen: Go to "Live Image Screen" > "Live Image Screen Status" and check "Enable" for "Full Screen Display"

- To display a specific camera image in full screen, double-click the target camera image. The selected camera image is displayed in full screen. Double-click the camera image to return to the original display state.



Note

- You can also use the following methods to perform this operation.
 - Remote control: Press and hold **ENTER** for 1 second

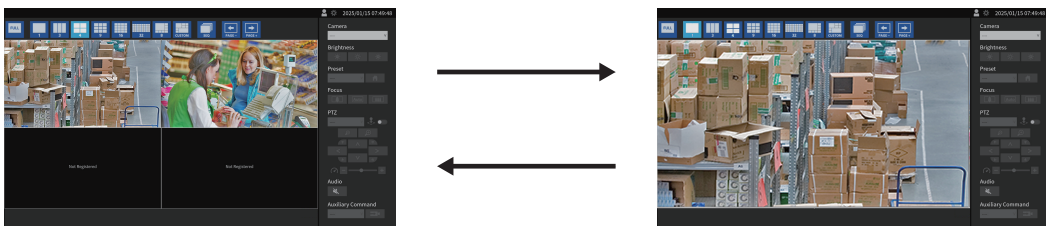
3.1.2 Switching the Screen Layout

- Click the icon for the layout you want to display. The screen layout is changed by selecting the layout icon in the Display mode menu.

Note

- When using a 3 screens layout, the camera must be configured to display vertical images. For details, refer to the User's Manual of the camera.
- You can also use the following methods to perform this operation.
 - USB keyboard: Shortcut key (L)
 - Remote Control: **LAYOUT**
 - Setting screen: Go to "Live Image Screen" > "Live Image Screen Status" and select "Layout"

- To display a specific camera image in a single screen layout, double-click the target camera image. The selected camera image is displayed in single screen layout. Double-click the camera image to return to the original display state.





Note

- You can also use the following methods to perform this operation.
 - Remote control: Press and hold **ENTER** for 1 second

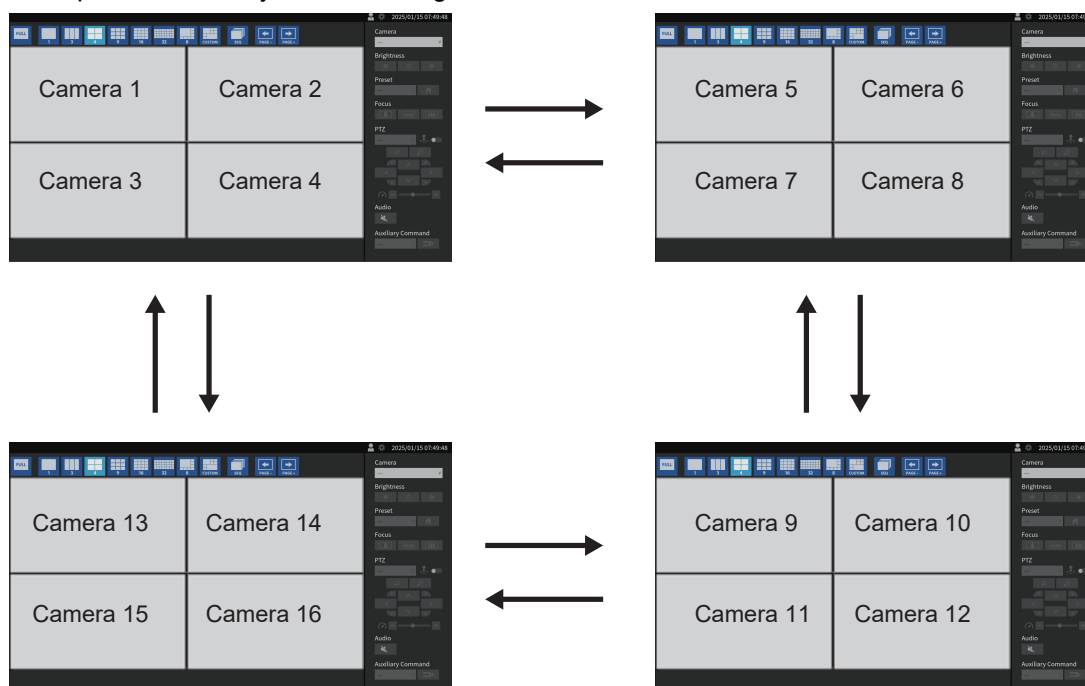
3.2 Switching the Page Displayed on the Live Image Screen

Switch between pages to display camera images. Pages can be changed over either manually or automatically at a set interval (sequential display).


3.2.1 Changing Pages Manually

1. Click  or  on the Display mode menu.

Example: 4-screen layout with 16 registered cameras



Note



- You can also use the following methods to perform this operation.
 - USB keyboard: Shortcut key (PageDown or PageUp)
 - Remote control: 
 - Settings screen: Go to "Live Image Screen" > "Live Image Screen Status" and select "Page"

3.2.2 Switching Pages Automatically (Sequential Display)

1. Click  on the Display mode menu.

The pages displayed on the screen will automatically change at specified intervals.

Note

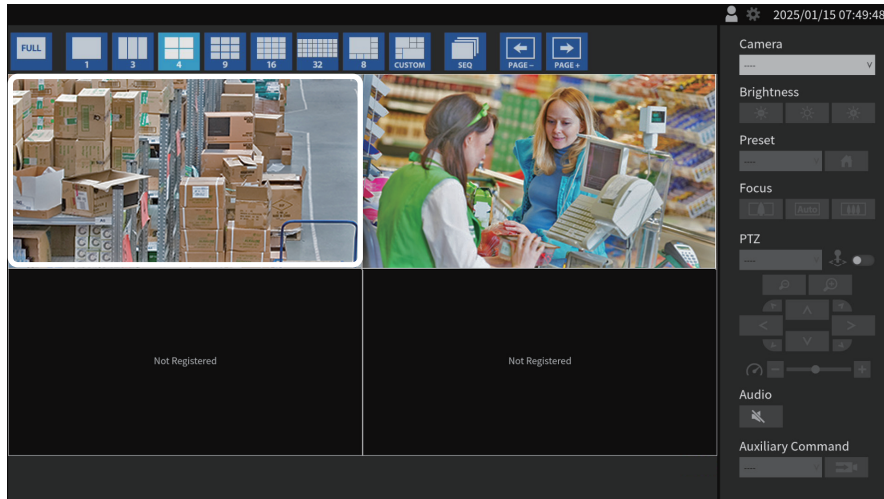
- The interval for switching between pages can be changed on the setting screen ([6.2 Setting the Display Method of Camera Video Images \[▶ 61\]](#)). The default setting is 10 seconds.
- To stop the sequential display, click  again.
- Click the camera image to stop the sequential display.
- You can also use the following methods to perform this operation.
 - USB keyboard: Shortcut key (S)
 - Remote control: 
 - Settings screen: Go to "Live Image Screen" > "Live Image Screen Status" and check "Enable" for "Sequence"

3.3 Switching Camera Image Display Positions

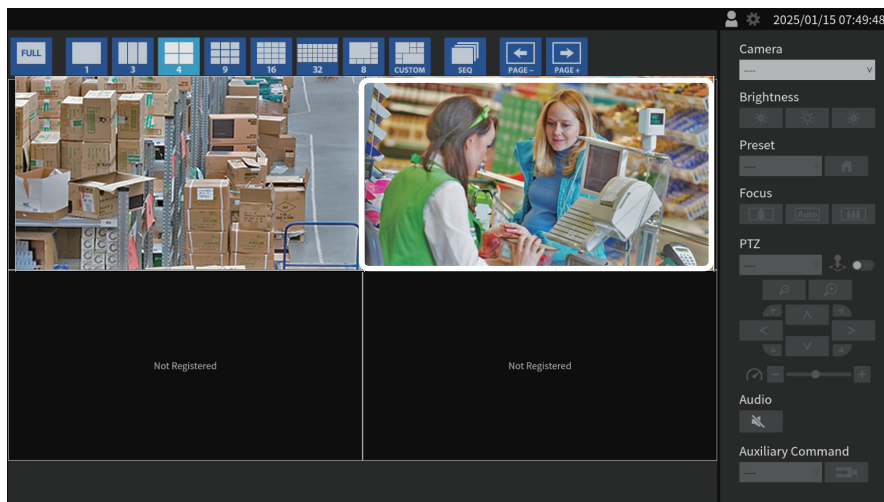
[User Level "ADMIN" or "CAMERA CONTROL"]

If the image layout is displayed in multiple screens, the camera image display positions can be switched. Use a USB mouse to perform operations. It cannot be operated using the USB keyboard or remote control.

1. Select the camera image to be moved with the USB mouse, and drag the image and drop it on the desired camera image position.



The display positions of the camera images of the source and destination will switch.



3.4 Controlling Cameras

[User Level "ADMIN" or "CAMERA CONTROL"]

Note

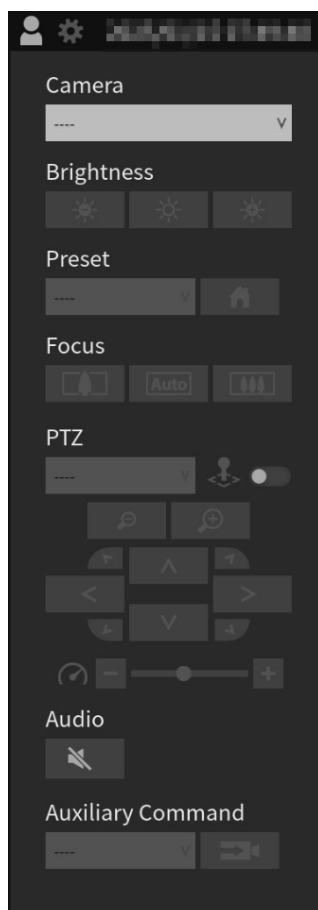
- Not all features may be available. For functions that are not available from this product or do not work as expected, please operate them directly on the camera.
- The display position of the camera image can be changed on the setting screen (6.1 Setting Display Positions of Camera Video Images [▶ 60]).

1. From the "Camera" list box, select the camera you want to operate.
The frame of the selected camera image will be highlighted in light blue.

Note


- You can also select the camera to operate using the following methods.
 - Click the camera image with a USB mouse


2. Operate the functions.




Brightness

Adjusts the camera brightness.

: Makes the image darker.


: Resets the brightness to the default settings.*¹

: Makes the image brighter.

*¹ When "Protocol" is "ONVIF," "AXIS®" cameras cannot be set.


Preset


Moves the camera orientation to the position registered in advance.


Select  to move the camera orientation to the home position.

Focus

Adjusts the camera focus.*¹

: Moves the focus point closer.*²

: Adjusts the focus point automatically.*³

: Moves the focus point farther away.*²

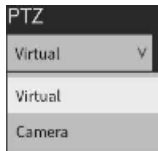
*¹ When "Protocol" is a "AXIS" camera, it cannot be set.

*² If "Protocol" is a "ONVIF" or "AXIS" camera, it will switch to manual adjustment mode.

*³ If "Protocol" is a "ONVIF" or "AXIS" camera, it will switch to automatic adjustment mode.

PTZ: Target selection

Selects the target for the PTZ operation.



Virtual: Performs the PTZ operation by digitally processing the camera images inside the product.


Camera: Performs PTZ operations using camera functions on the camera.


Note

- If "Virtual" is selected, PTZ operations are available regardless of the "Protocol" settings of the camera. However, the following restrictions apply.
 - Joystick mode cannot be enabled.
 - When the compression format is MJPEG, PTZ operations are not available.

PTZ: Joystick mode

Enable when you want to continuously perform PTZ operation of a camera.


 : Joystick mode is disabled.

 : Joystick mode is enabled.

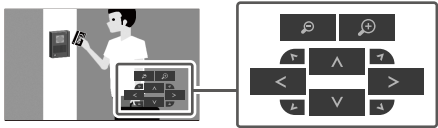
<p>Note</p> <ul style="list-style-type: none"> • If the PTZ target is set to "Virtual," Joystick mode cannot be enabled. • You can also use the following methods to perform this operation. <ul style="list-style-type: none"> – USB keyboard: Shortcut key (J) – Joystick: R button

PTZ: Zoom

Adjusts the camera display magnification.

 : Zooms out.

 : Zooms in.

<p>Note</p> <ul style="list-style-type: none"> • You can also use the following methods to perform this operation. <ul style="list-style-type: none"> – USB keyboard: Shortcut key (+ or -) • If Joystick Mode is enabled, you can also use the following methods to perform this operation. <ul style="list-style-type: none"> – Joystick: Rotate knob – USB mouse: Rotate the wheel button • When a camera image is selected in the image display area, PTZ operation can be performed with the buttons displayed on top of the image. <div style="text-align: center;">  </div>

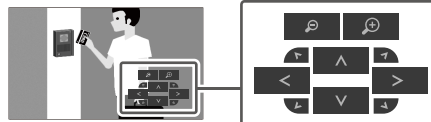
PTZ: Position

Adjusts the horizontal position (pan) and vertical position (tilt) of the camera.



Note

- You can also use the following methods to perform this operation.
 - USB keyboard: Shortcut keys (Ctrl + Up arrow key, Ctrl + Down arrow key, Ctrl + Left arrow key, or Ctrl + Right arrow key)
- If Joystick mode is enabled, you can also use the following methods to perform this operation.
 - Joystick: Tilt the stick
 - USB mouse: Move the mouse while clicking the left button
- When a camera image is selected in the image display area, PTZ operation can be performed with the buttons displayed on top of the image.



PTZ: PTZ adjust

Adjusts the movement amount of the PTZ operation. The movement amount increases as the slider moves to the right.



Note

- When using a USB keyboard, pressing the shortcut keys (Ctrl and - or Ctrl and +) adjusts the PTZ adjust.

Audio

Enable if you want to playback the audio of the camera.



: Audio is not output.




: Audio is output.

Note

- When a camera image is selected in the image display area, audio operations can be performed with the buttons displayed on top of the image.
- If "Protocol" is "EIZO Streaming Gateway," "Qognify," or "Still Image File," this function is disabled.
- If "Protocol" is "DirectUri" and the following conditions are met, this function is disabled.
 - if "URI" starts with rtp://
 - If "Comm. Method" is "MPEG2-TS over UDP"
 - If "Transmission Mode" is "Source-Specific Multicast"

Auxiliary Command

Operates the auxiliary functions of a camera, or executes actions of registered event rules.

1. Select the "Auxiliary Command" list box.
2. Select .

Note

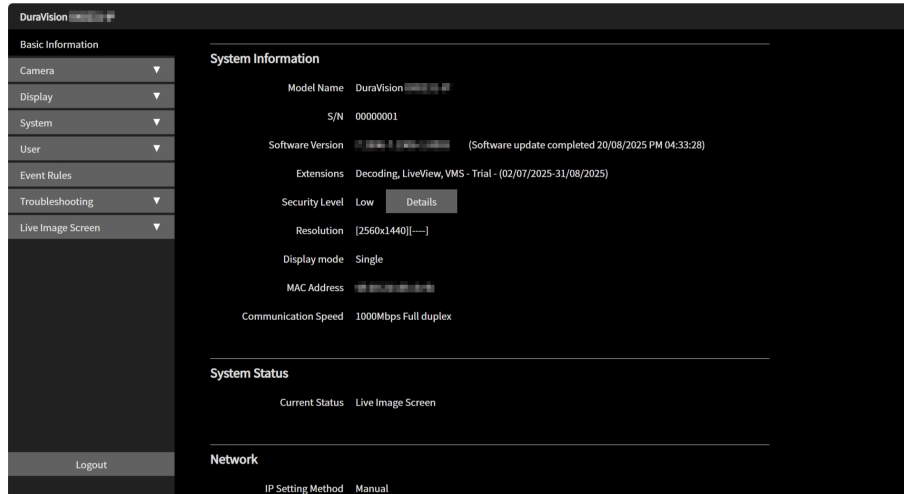
- The auxiliary functions of a camera can only be operated with specific devices whose protocol is set to "ONVIF" or "Panasonic/i-PRO."
- Event rule events can only be executed when a camera is not selected.

4 System Settings

Perform settings for the date and time of the system, network settings, and maintenance.

4.1 Confirming the Basic Information

The current state of each setting for this product is displayed in a list.



System Information

- Model Name
- S/N (serial number)
- Software Version
- Extensions
- Security Level ([Security level \[▶ 23\]](#))
- Resolution
- Display mode
- MAC Address
- Communication Speed

System Status

[Only for the web console]

- Current Status

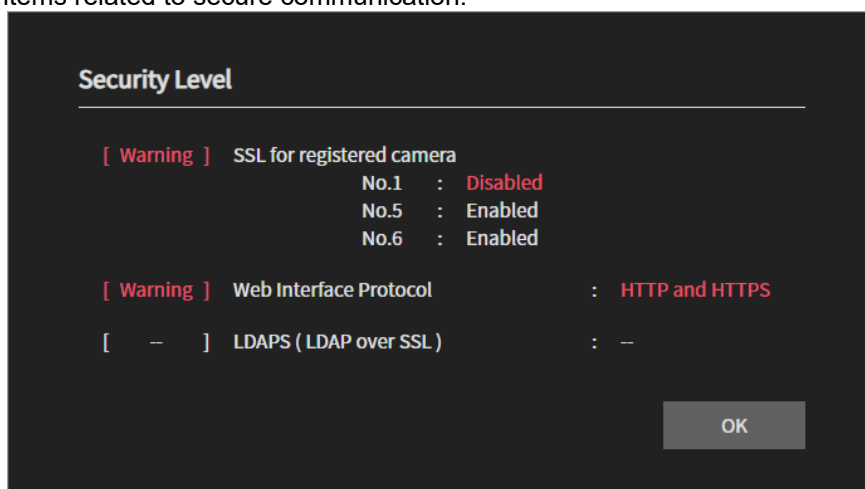
Network

- IP Setting Method
- IP Address
- Subnet Mask
- Gateway
- Hostname
- DNS
- Primary server address
- Secondary server address
- NTP
- Server Address

Security level

You can check whether this product is configured securely. If settings related to secure communication require attention, "Low" is displayed in "Security Level." If the settings are secure, "High" will be displayed.

1. Select "Basic Information."
2. Check "Security Level." If you want to check the settings details, click "Details."
The "Security Level" dialog box is displayed, and you can check the current settings for items related to secure communication.



SSL for registered camera

A list of the SSL settings of registered cameras is displayed. When SSL settings are enabled, "Enabled" is displayed; when disabled, "Disabled" is displayed, and for protocols where SSL settings cannot be configured, "--" is displayed.

If there is at least one camera displayed as "Disabled," it is considered to be in a state requiring attention ([Warning] is displayed). For information on the setting, refer to [5.2 Registering a Camera Manually](#) [▶ 46].

Web Interface Protocol

If "Web Interface" > "Protocol" is set to "HTTPS," "OK" is displayed. If it is set to anything else, it is considered a state requiring attention ("Warning" is displayed). For information on the setting, refer to [Protocol](#) [▶ 26].

LDAPS (LDAPS over SSL)

If "LDAP" > "SSL" is enabled, "OK" is displayed. If it is disabled, it is considered a state requiring attention ("Warning" is displayed). For information on the setting, refer to [SSL \[▶ 76\]](#).

4.2 Performing Network Settings

Configure network settings such as IP addresses, DNS, and NTP.

1. Select "System" > "Network."
2. Set each item.
 - "Network" ([Network \[▶ 24\]](#))
 - "DNS" ([DNS \[▶ 25\]](#))
 - "NTP" ([NTP \[▶ 25\]](#))
3. Click "Apply."

4.2.1 Network

IP Setting Method

Settings: "DHCP" / "Manual"

Select the IP address setting method.

Note

- If you have a DHCP server, select "DHCP" and the IP address will be set automatically. Since the configured IP address cannot be viewed on the web console, check it on the monitor console.

IP Address

Settings: "0.0.0.1" to "255.255.255.254"

Set an IP address that does not overlap with another device.

Note

- The default IP address is "192.168.0.150." When installing multiple units of this product, set unique IP addresses.

Subnet Mask

Settings: "0.0.0.1" to "255.255.255.254"

Set the subnet mask.

Gateway

Settings: "0.0.0.1" to "255.255.255.254"

Set the default gateway.

If your network environment does not have a gateway, you do not need to set "Gateway." Leave either as default setting or blank.

Hostname

Settings: Alphanumeric characters and hyphens (up to 63 characters)

If "IP Setting Method" is set to "DHCP," enter the host name to be registered in the DHCP server. The default setting is "Product name - MAC address." Automatic registration to DNS depends on the DHCP/DNS server settings.

4.2.2 DNS**DNS**

Settings: "Auto" / "Manual"

Set "DNS." (only if "Network" > "IP Setting Method" is set to "Manual")

Primary Server Address

Settings: "0.0.0.1" to "255.255.255.254"

If "DNS" is set to "Manual," set the "Primary Server Address."

Secondary Server Address

Settings: "0.0.0.1" to "255.255.255.254"

If "DNS" is set to "Manual," set the "Secondary Server Address."

4.2.3 NTP**NTP**

When using an NTP server, check "Enable."

Server Address

If "Enable" of NTP is checked, set the NTP server address.

Enter alphanumeric characters and symbols.

4.3 Configuring Communication Settings

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

1. Select "System" > "Communication."
2. Set each item.
 - "Comm. Error Detection" ([Comm. Error Detection \[▶ 25\]](#))
 - "Web Interface" ([Web Interface \[▶ 26\]](#))
 - "Protocol" ([Protocol \[▶ 26\]](#))
 - "HTTP Port" ([HTTP Port \[▶ 26\]](#))
 - "AUTH Method" ([AUTH Method \[▶ 26\]](#))
 - "HTTPS Port" ([HTTPS Port \[▶ 26\]](#))
3. Click "Apply."

Comm. Error Detection

Set the message display timing when video data reception stops.

- If "Enable" is checked
 - 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.

- If "Enable" is not checked

When approx. 10 seconds have elapsed after the reception of video image data stops, a communication error message is displayed.

Web Interface

If you want to enable operations and settings of this product from a web browser via a network, check "Enable." If unchecked, external web access is blocked, and settings cannot be performed from a web browser.

Note
<ul style="list-style-type: none">• If "USB Lock" and "Remote Controller Lock" are both enabled, you cannot uncheck "Enable" in the web interface.

Protocol

Settings: "HTTP" / "HTTPS" / "HTTP and HTTPS"

Select the communication protocol with the web server.

Depending on the selected protocol, the address for accessing this product from a web browser will vary.

- "HTTP": http://<Address of this product>
- "HTTPS": https://<Address of this product>
- "HTTP and HTTPS": can be accessed from either of the above

HTTP Port

Settings: "80" / "1024" to "65535"

Set the HTTP port of the web interface.

AUTH Method

Settings: "Digest authentication" / "BASIC authentication"

Set the authentication method of the web interface.

This cannot be set if "LDAP" is selected in "User Account" > "Type."

HTTPS Port

Settings: "443" / "1024" to "65535"

Set the HTTPS port of the web interface.

4.4 Setting the Date and Time

Attention

- Set the correct date. If the correct date is not set, it may cause secure communication during certificate validation to fail. If SSL is used for communication with the camera, LDAP settings, or 802.1X is used, avoid leaving the system powered off for extended periods, or ensure that NTP is used to keep the correct time always set.
- If the system is not connected to the power supply for one week or longer, the date and time on the product will no longer be displayed accurately. In such a case, set the date and time again.

1. Select "System" > "Date and Time."
2. Set each item.
 - "Current Time" ([Current Time \[▶ 27\]](#))
 - "Date/Time Display Settings" ([Date/time display settings \[▶ 27\]](#))
 - "Time Zone Settings" ([Time Zone Settings \[▶ 27\]](#))
 - "Clock Settings" ([Clock Settings \[▶ 27\]](#))
3. Click "Apply."

4.4.1 Current Time

Current Time

The current date and time of the product are displayed.

Current Time of PC

It is displayed when using the web console.

When "Sync with PC" is clicked, the current date and time of the computer is set on this product.

4.4.2 Date/time display settings

Date Format

Settings: "yyyy/mm/dd" / "Mmm/dd/yyyy" / "dd/Mmm/yyyy" / "mm/dd/yyyy" / "dd/mm/yyyy" / "No Date Display"

Select the date display format.

Time Format

Settings: "24h" / "12h"

Select the time display format.

4.4.3 Time Zone Settings

Time Zone

Select the time zone.

4.4.4 Clock Settings

Date and Time

Set the current time.

4.5 Configuring the Language

1. Select "System" > "Language."
2. Set each item.
 - "Language" ([Language \[▶ 28\]](#))
 - "Keyboard Layout" ([Keyboard Layout \[▶ 28\]](#))
3. Click "Apply."

Language

Settings: "日本語" / "English" / "Deutsch"

Select the language.

Keyboard Layout

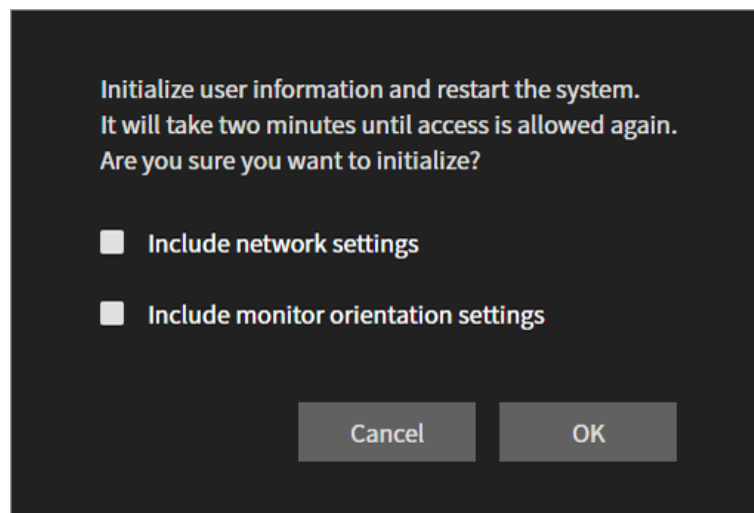
Settings: "Japanese" / "English(US)" / "English(UK)" / "German"

Select the keyboard layout.

4.6 Initializing the System

Initializing the system will reset all settings to their default state except for system logs, operation logs, the current time, time zone settings, license activation information, and the software version.

1. Select "System" > "Maintenance."
2. Click "Factory Reset" > "Start."
3. If you want to include network settings as part of the initialization, check "Include network settings."



4. Click "OK."

4.7 Restarting the System

1. Select "System" > "Maintenance."
2. Click "Restart" > "Execute."
3. Click "OK."

4.8 Updating the Software

[Only for the web console]

The software version can be upgraded. Please download the version update file from the EIZO website (www.eizoglobal.com) in advance. For stable operation of the system, it is recommended to use the latest software. It is not possible to revert to an older version.

1. Select "System" > "Maintenance."
2. Click "Software Update" > "File" > "Browse."
3. Select the software file (extension: duraup4).
4. Click "Start."
5. Click "OK" in the confirmation dialog box.

The process starts.

During processing, the power indicator flashes red. Do not turn off the power. It takes approximately 5 minutes to update the software.

4.9 Saving Settings Data

[Only for the web console]

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

1. Select "System" > "Maintenance."
2. Click "Settings Data Migration" > "Settings Data" > "Save."
3. In the "Save Settings Data" dialog box, enter a password in "Password" to set a password for the file.
4. Click "OK."
5. Specify where to save the file.

The settings data file is saved.

Attention

- Some of the settings cannot be saved.
- If you forget the password you specified when saving the file, you will not be able to load the settings file.

Note

- Saved file name: (product name)_Backup(save date and time).duraconf2

4.10 Loading System Settings Data

[Only for the web console]

Load settings data from a file.

Attention

- Settings that use server certificates and client certificates cannot be loaded.
- 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 access this product from a web browser.

1. Select "System" > "Maintenance."
2. Click "Settings Data Migration" > "Settings Data" > "Load."

3. Select the settings data file and enter the password set for the file.
Do not check "Network Settings."
4. Click "OK."
5. Click "OK" in the confirmation dialog box.
The process starts.
Close the browser and wait 2 minutes before accessing again.

4.11 Registering a License

[Only for the web console]

If you register an extended functionality license, more features will be available.


1. Select "System" > "Maintenance."
2. Click "License Activation" > "Extensions" > "Activate."
3. Click "Browse" and select the license file (extension: duralic).
4. Click "OK."
The process starts.
Close the browser and wait 2 minutes before accessing again.

Note
<ul style="list-style-type: none">• If you click "Deactivate," all additionally registered licenses will be deactivated.

4.12 Setting Event Rules

An event rule is a function that triggers a specific event to perform a specific action.

Note
<ul style="list-style-type: none">• Up to 32 event rules can be set.

1. Select "Event Rules."
2. Click Edit () on the number to which you want to register an event rule.
3. Set each item.
 - "Name" ([Name \[▶ 30\]](#))
 - "Status" ([Status \[▶ 30\]](#))
 - "Event" ([Event \[▶ 31\]](#))
 - "Action" ([Action \[▶ 33\]](#))
4. Click "OK."

Name

Settings: Any character (up to 32 characters)

Enter a name for the event rule. To enter characters other than alphanumeric characters and symbols, use the web console.

Status

Check "Enable" to enable the event rule.

Event

Settings: "Alert request received"^{*1} / "Timer expired" / "Video output status change"^{*2} / "Auxiliary command"^{*3} / "System Startup" / "Network Link Up" / "Schedule" / "Stream error detected" / "Remote Control Event Button"

Select the actions to be executed when an event occurs. The items that can be configured vary depending on the event.

*1 Sending a alert display HTTP command from external device is required.

*2 Only for DX0231-IP only.

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

- "Alert request received"
HTTP alert command was received.
For more information, refer to [When "Event" is selected for "Alert request received" \[▶ 31\]](#).
- "Timer expired"
Timer set in "Action" has expired.
For more information, refer to [When "Event" is selected for "Timer expired" \[▶ 32\]](#).
- "Video output status change"
HDMI signal connection state changed while the power was on.
- "Auxiliary command"
Event was executed with an auxiliary command on the live image screen.
- "System Startup"
Main power was turned on.
- "Network Link Up"
Network communication is enabled.
- "Schedule"
The set day of the week and time arrived.
For more information, refer to [When "Event" is selected for "Schedule" \[▶ 32\]](#).
- "Stream error detected"
Data reception from the camera displayed on the live image screen stopped for a certain period of time.
For more information, refer to [When "Event" is selected for "Stream error detected" \[▶ 32\]](#).
- "Remote Control Event Button"
The EVENT button (1/2/3) on the remote control was pressed.

When "Event" is selected for "Alert request received"

Camera No.

Settings: "any" / "1" to "48"

Select the camera that will receive the alert.

Trigger Type

Settings: "any" / "On" / "Off"

Select when the event will occur.

Select "On" when setting the display alert as the trigger, and "Off" when setting to hide the alert as the trigger.

ID

Settings: "any" / "1" to "16"

Specify the ID^{*1}.

*1 Can be set if "Trigger Type" is "any" or "On."

When "Event" is selected for "Timer expired"

Timer No.

Settings: "1" to "8"

Select the timer number.

When "Event" is selected for "Schedule"

Execution time

Settings: "00:00" to "23:59"

Set the time.

Day of Week

Settings: "Mon." / "Tue." / "Wed." / "Thu." / "Fri." / "Sat." / "Sun."

Select the day of week. Multiple selections are possible.

When "Event" is selected for "Stream error detected"

Camera No.

Settings: "any" / "1" to "48"

Select the camera to be the detection target. If a stream error occurs for a camera that is both the detection target and currently not displayed on the live image screen, it will be detected when the corresponding camera is displayed on the live image screen.

Detection Sensitivity

Settings: "Low" / "High"

Set the time for determining a communication failure after reception of video data has stopped.

- "Low"
If reception of video data stops for about 10 seconds, it determines that communication has failed.
- "High"
If reception of video data stops for several seconds, it determines that communication has failed.

Action

Settings: "Notification" / "Power Management" / "Start a timer" / "SNMP Trap"

Select the action you want to take when the event occurs. The items that can be configured vary depending on the action.

- "Notification" ([When "Action" is selected for "Notification" \[▶ 33\]](#))
- "Power Management" ([When "Action" is selected for "Power Management" \[▶ 34\]](#))
- "Start a timer" ([When "Action" is selected for "Start a timer" \[▶ 34\]](#))
- "SNMP Trap" ([When "Action" is selected for "SNMP Trap" \[▶ 34\]](#))

When "Action" is selected for "Notification"**Protocol**

Settings: "HTTP" / "HTTPS"

Select the communication protocol.

Method

Settings: "GET" / "PUT" / "POST"

Select the method to be used for the request.

URL

Settings: Alphanumerics and symbols (up to 255 characters)

Enter the URL of the notification destination.

Username

Settings: Alphanumerics and symbols (up to 32 characters)

Enter the username for accessing the URL.

Password

Settings: Alphanumerics and symbols (up to 32 characters)

Enter the password for accessing the URL.

Certificate Validation

If you want to validate the server certificate, check "Enable." *1

*1 Displayed only when HTTPS is selected.

Request Body (JSON)

Settings: Alphanumerics and symbols (up to 4096 characters)

If "Method" is "PUT" or "POST," enter the request body in JSON format to be sent.

Test

Settings: "Execute"

Performs a confirmation test in order to access the specified URL.

When "Action" is selected for "Power Management"

Power Status

Settings: "On" / "Quick Shutdown" / "Restart"

Select the power status.

When "Action" is selected for "Start a timer"

Timer No.

Settings: "1" to "8"

Select the timer number.

Duration - Minute

Settings: "0" to "60"

Set "Minute."

Duration - Second

Settings: "0" to "59"

Set "Second."

When "Action" is selected for "SNMP Trap"

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

Trap Name

Settings: Unicode printable characters (up to 128 characters)

Enter the trap name.

Trap Message

Settings: Unicode printable characters (up to 128 characters)

Enter the trap message.

Test

Settings: "Execute"

Perform the SNMP trap send test.

4.13 Registering a Server Certificate

A server certificate is used when accessing this product from a web browser via HTTPS.

Attention

- A Certificate Signing Request (CSR) cannot be created with this product.

1. Select "System" > "Certificate."
2. Select the certificate type from the "Server Certificate" > "Type" list box.
 - "Self-Signed Certificate" ([Self-Signed Certificate ▶ 35](#))
 - "CA-Signed Certificate" ([CA-Signed Certificate ▶ 35](#))
3. Click "Apply."

Self-Signed Certificate

Click "Self-Signed Certificate" under "Update," renew the certificate, and then select it.

CA-Signed Certificate

Using the web console, click "CA-Signed Certificate" > "Register," register the certificate, and then select it. Registration of information issued from the certifying body is required for registration.

4.14 Registering a Root Certificate

[Only for the web console]

The root certificate is used in the following situations:

- HTTPS connection to a camera
- IEEE 802.1X authentication
- LDAPS connection to LDAP server

Attention

- A root certificate is not pre-installed in this product.

1. Select "System" > "Certificate."
2. Click "Root Certificate" > "Register."
3. Click "Browse" and select the root certificate.
4. Click "OK."

4.15 Setting the Remote Control ID

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 initial value of the remote control ID is "0."

4.15.1 Setting the Product ID

1. Select "System" > "Remote Control."
2. Set each item.
 - "ID" (ID ▶ 36])
 - "Display ID " (Display ID ▶ 36])
3. Click "Apply."

ID





Settings: "0" to "3"

Select the number that will be the ID.

Display ID

If you check "Enable", the ID will be displayed in the upper right corner of the live image screen when you press the ID button on the remote control.

4.15.2 Setting the Remote Control ID

1. Press and hold **ID** for more than 3 seconds.
2. Hold down **ID** and press the button (   ) of the ID you want to set.
3. Release the **ID**.

Note

- When confirming the ID of the remote control, set "Display ID " to "Enable," and press **ID**. The current ID is displayed in the upper right of the live image screen.

4.16 Configuring USB Device Hotkeys

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

Note

- Supported USB devices are shown below.
 - AXIS T8311 (Joystick)
 - AXIS TU9002 (Joystick)

1. Select "System" > "Hotkeys."
2. From the "Device" list box, select the USB device you want to configure.

3. Set the function of each button.
 - List of Functions ([List of Functions ▶ 37](#))
 - AXIS T8311 Default Settings ([AXIS T8311 Default Settings ▶ 37](#))
 - AXIS TU9002 Default Settings ([AXIS TU9002 Default Settings ▶ 38](#))

4.16.1 List of Functions

Item	Description
Full Screen	Displays/hides the menu of the live image screen.
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 screens.
4 Screens Layout ^{*1}	Changes the layout of the live image screen to 4 screens.
9 Screens Layout ^{*1}	Changes the layout of the live image screen to 9 screens.
16 Screens Layout ^{*1}	Changes the layout of the live image screen to 16 screens.
32 Screens Layout ^{*1}	Changes the layout of the live image screen to 32 screens.
8 Screens Layout ^{*1}	Changes the layout of the live image screen to 8 screens.
Custom Screen Layout ^{*1}	Change the layout of the live image screen to custom.
Sequence Mode	Turns the sequential 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.
Unassigned	No function is assigned.

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

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

4.16.2 AXIS T8311 Default Settings

Item	Description
J1	Full screen
J2	Layout change
J3	Next page
J4	Previous page
L ^{*1}	Left-click
R ^{*1}	Joystick mode

*1 Cannot be changed.

4.16.3 AXIS TU9002 Default Settings

Item	Description
J1	Full screen
J2	Layout change
J3	Next page
J4	Previous page
J5	1 screen layout
J6	4 screens layout
L*1	Left-click
R*1	Joystick mode

*1 Cannot be changed.

4.17 Setting IEEE 802.1X Authentication

Note

- This product operates using EAPOL version 2 (IEEE802.1X-2004).

1. Select "System" > "802.1X."
2. Set each item.
 - "Authentication" ([Authentication \[▶ 38\]](#))
 - "Certificate Validation" ([Certificate Validation \[▶ 39\]](#))
 - "Identity" ([Identity \[▶ 39\]](#))
3. Click "Apply."

Authentication

Settings: "Off" / "EAP-TLS" / "EAP-PEAP"

Select the authentication method.

If "Authentication" is "EAP-TLS"

In "Client Certificate," click "Register" and set each field.

Client Certificate

[Only for the web console]

Specify the client certificate.

Private Key

Specify the private key.

If "Authentication" is "EAP-PEAP"

In "Client Certificate," click "Register" and set each field.

Password

Settings: Alphanumerics and symbols (up to 32 characters)

Enter a password.

Certificate Validation

If you want to validate the server certificate, check "Certificate Validation" > "Enable." The root certificate of the authentication server must be registered in "System" > "Certificate" > "Root Certificate" of this product.

Identity

Settings: Alphanumerics and symbols (up to 32 characters)

Enter the username.

4.18 Setting the Product SNMP

You can obtain information via SNMP and set SNMP traps as an event rule action.

1. Select "System" > "SNMP."
2. Select a version from the "Version" list box.
3. If "Version" is "v1 & v2c," set each item.
 - "Read Community" ([Read Community \[▶ 39\]](#))
 - "Trap Address" ([Trap Address \[▶ 39\]](#))
 - "Trap Community" ([Trap Community \[▶ 39\]](#))
4. Click "Apply."

Attention

- If the "Read Community" is blank, information cannot be obtained by SNMP.
- If "Trap Address" and "Trap Community" are blank, SNMP traps for event rules will not work.

Read Community

Settings: Alphanumerics and symbols (up to 32 characters)

Enter the read community.

Trap Address

Settings: "0.0.0.1" to "255.255.255.254"

Enter the SNMP trap notification destination address of the event rule.

Trap Community

Settings: Alphanumerics and symbols (up to 32 characters)

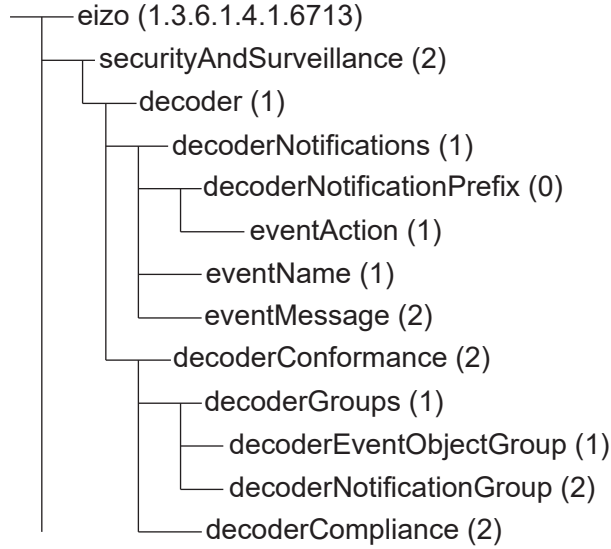
Enter the trap community.

4.18.1 EIZO MIB Structure

When using SNMP with this product, the following modules must be imported into the SNMP manager. Please download the MIB file from the EIZO website (www.eizoglobal.com) in advance.

- EIZO-ROOT-MIB
- EIZO-SECURITY-MIB
- EIZO-DECODER-MIB

MIB Tree



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	accessiblefornotify	Event name defined in the event rule
eventMessage	.6713.2.1.1.2	OBJECT-TYPE	SnmpAdminString	accessiblefornotify	Event message defined in the event rule

4.19 Setting an IP Address Filter

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

<p>Attention</p> <ul style="list-style-type: none"> • If the IP address filter is not set up correctly, it will not be possible to access this product. • If "IP Address Filter" is "On," the camera will not be found when performing a camera search. • Even when "IP Address Filter" is "On," communication for receiving camera images is not restricted.

1. Select "System" > "IP Address Filter."
2. Set each item.
 - "IP Address Filter" ([IP Address Filter \[▶ 41\]](#))
 - "Permitted IP Address Settings" ([Permitted IP Address Settings \[▶ 41\]](#))
3. Click "Apply."

IP Address Filter

If an IP address filter is used, check "Enable."

Permitted IP Address Settings

Settings: "0.0.0.1" to "255.255.255.254 / 32"

Enter the IP address of the computer you want to allow access to. When specifying an IP address as a range, enter it in CIDR notation.

4.20 Saving Logs

[Only for the web console]

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 of a problem when it occurs.

1. Select "Troubleshooting" > "Log."
2. Click "Save" for the items you want to save in the log.

4.21 Saving Basic Information

[Only for the web console]

Displays basic information of this product. You can use this to check the current settings of the system and find the cause of a problem when it occurs.

1. Select "Troubleshooting" > "Log."
2. Click "Basic Information" > "Save."

4.22 Confirming the Camera Connection

You can check the connection status of the network camera.

1. Select "Troubleshooting" > "Network Connection Status."
2. From the "Camera Name" list box, select the camera.
3. Click "ping" or "traceroute" for "Execute."
The connection status is displayed.

4.23 Confirming the Network Connection Status

1. Select "Troubleshooting" > "Network Connection Status."
The current communication bandwidth (sending, receiving) is displayed.
2. Select "Current Status."
The connection status is displayed.

Note
<ul style="list-style-type: none">• Select "Reconnect" to reset the network status. The connection status is not displayed.

4.24 Configuring Monitor Display Settings

Configure the settings related to the display of the monitor.

1. Select "System" > "Monitor Output."
2. Set each item.
 - "Resolution"^{*1} ([Resolution \[▶ 42\]](#))
 - "Multi-Monitor"^{*1} ([Multi-Monitor \[▶ 42\]](#))
 - "Orientation" ([Orientation \[▶ 43\]](#))
 - "Rotate"^{*1} ([Rotate \[▶ 43\]](#))

^{*1} DX0231-IP only

3. Click "Apply."

Resolution

Settings: "3840x2160" / "3840x1600" / "3440x1440" / "2560x1440" / "1920x1080"

Select the output resolution for the monitor.

Note
<ul style="list-style-type: none">• This setting specifies the maximum output resolution. The output resolution will be equal to or lower than the set value, depending on the supported resolution of the connected monitor.

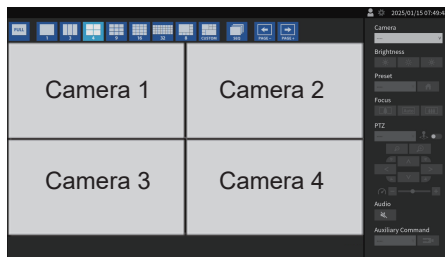
Multi-Monitor

Settings: "Single" / "Extended" / "Duplicate"

Select how to output the signal from the HDMI® connector on the back.

Example: When the screen layout is 4 screens

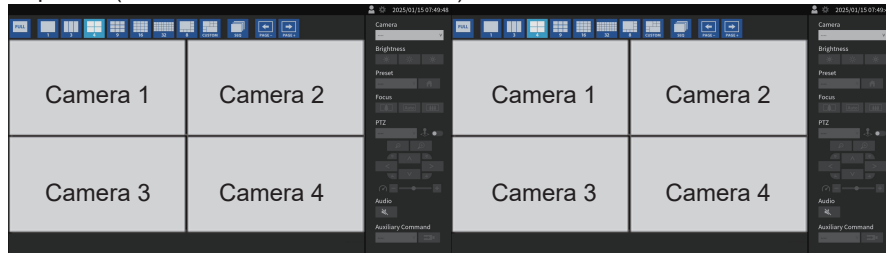
Single screen



Extended (when 2 monitors are connected)



Duplicate (when 2 monitors are connected)



Orientation

Settings: "Landscape" / "Portrait"

Switches the display orientation of the video.

Rotate

Settings: "Left" / "Right"

If "Orientation" is "Portrait," set the rotation direction for the system output video.

4.25 Setting the Audio Function

1. Select "System" > "Audio."
2. Set each item.
 - "Audio Function" ([Audio Function \[▶ 43\]](#))
 - "Always Display Play Button" ([Always Display Play Button \[▶ 43\]](#))
3. Click "Apply."

Audio Function

Check "Enable" to use the audio function.

Always Display Play Button

When "Enable" is checked, the Play button is always displayed on top of the camera image.

4.26 Configuring Other Settings

1. Select "System" > "Hardware."
2. Set each item.
 - "Key Lock" ([Key Lock \[▶ 44\]](#))
 - "USB Lock" ([USB Lock \[▶ 44\]](#))
 - "Remote Controller Lock" ([Remote Controller Lock \[▶ 44\]](#))
 - "Startup logo"^{*1} ([Startup logo \[▶ 44\]](#))
 - "Power Indicator" ([Power Indicator \[▶ 44\]](#))

*1 FDF2731W-IP only

3. Click "Apply."

Key Lock

If you want to lock the button operations on the front of the product, check "Enable."

USB Lock

[Only for the web console]

If you want to lock operations of the USB device, check "Enable."

Attention
<ul style="list-style-type: none">• When the setting is changed, the product needs to be restarted.

Remote Controller Lock

[Only for the web console]

If you want to lock operations of the remote control, check "Enable."

Startup logo

To display the logo at startup, check "Enable."

Power Indicator

To turn on the power indicator (blue) during normal operations, check "Enable."

4.27 Linking with a Qognify VMS

If the corresponding extended functionality license has been registered for this product, this product can be controlled directly from Qognify VMS (Video Management Software).

For more information, refer to the User's Manual for Video Wall Integration for Qognify. The User's Manual for Video Wall Integration for Qognify can be downloaded from the EIZO web site (www.eizoglobal.com).

5 Managing Cameras

This section describes the procedure for registering cameras, configuring functions, and applying them to the system.

5.1 Registering a Camera Using Auto Discovery

Cameras connected to the network can be automatically detected and registered.

Attention

- The following cameras and video encoders must be registered manually (refer to [5.2 Registering a Camera Manually \[▶ 46\]](#)).
 - Cameras that cannot be discovered automatically
 - Cameras on different subnets cannot be discovered automatically.
 - Some cameras can be set to deny auto discovery or allow auto discovery only for a certain period of time after the camera is turned on.
 - Fisheye/panoramic cameras with multiple video streams
 - Video encoder with multiple cameras connected

1. Select "Camera" > "Camera Registration."
2. Click "Camera Auto Discovery."
3. Set each item.
 - "Protocol" ([Protocol \[▶ 45\]](#))
 - "User Name" ([User Name \[▶ 45\]](#))
 - "Password" ([Password \[▶ 45\]](#))
4. Click "OK."

A list of detected cameras is displayed.

Whether a camera can be automatically detected depends on the camera and network. Cameras that do not appear in the list must be registered manually.
5. Check the camera to register, and select "Add."
6. Click "Apply."
7. Click "OK" in the confirmation dialog box.

Protocol

Select the protocol to control the camera.

- "ONVIF"^{*1}
 - ONVIF Profile S compatible cameras
- "AXIS"
 - Axis cameras (VAPIX®)
- "Panasonic/i-PRO"
 - Panasonic/i-Pro cameras

*1 When "Protocol" is set to "ONVIF," the "Media Type" will be "Media1."

User Name

Enter the username of the camera. A user with administrative privileges is required.

Password

Enter the password for the camera.


5.2 Registering a Camera Manually

The following cameras and video encoders must be registered manually.

- Cameras that cannot be detected automatically
- Fisheye/panoramic cameras multiple streams of different images
 - Register multiple fisheye/panoramic cameras with the same IP address and specify the stream to be displayed.
- Video encoder with multiple cameras connected
 - Register multiple video encoders with the same IP address and specify the streams to be displayed. For Panasonic/i-PRO video encoders that support multiple channels, specify the camera to be displayed in "Channel."

Attention

- The camera must be connected to the network even when registering it manually.

1. Select "Camera" > "Camera Registration."
2. Check the position number to register, and click Edit ()
3. Set each item.
The displayed items vary depending on the protocol. First, select "Protocol" (refer to [Protocol \[▶ 46\]](#)).
 - Common items ([Common items \[▶ 46\]](#))
 - "ONVIF" ([ONVIF \[▶ 47\]](#))
 - "AXIS" ([AXIS \[▶ 48\]](#))
 - "Panasonic/i-PRO" ([Panasonic/i-PRO \[▶ 49\]](#))
 - "EIZO Streaming Gateway" ([EIZO Streaming Gateway \[▶ 50\]](#))
 - "DirectUri" ([DirectUri \[▶ 52\]](#))
 - "SRT" ([SRT \[▶ 53\]](#))
 - "Still Image File" ([Still Image File \[▶ 53\]](#))
 - "Qognify" ([Qognify \[▶ 53\]](#))
4. Click "OK."
5. Click "Apply."

5.2.1 Common items

Protocol

Settings: "ONVIF" / "AXIS" / "Panasonic/i-PRO" / "EIZO Streaming Gateway" / "DirectUri" / "SRT"^{*1} / "Still Image File" / "Qognify"^{*1}

^{*1} This can be selected when the corresponding extended functionality license are registered for this product.

Select the protocol to control the camera.

- "ONVIF"
ONVIF Profile S compatible cameras
- "AXIS"
Axis cameras (VAPIX)
- "Panasonic/i-PRO"
Panasonic/i-PRO cameras
- "EIZO Streaming Gateway"
Select if you want to connect to a product that has the streaming gateway feature enabled.

- "DirectUri"
Select when connecting to an RTSP stream URI (URI starting with rtsp://) or an RTP stream URI (URI starting with rtp://).
- "SRT"
Select to connect to an SRT stream URI.
- "Still Image File"
Select this option to select an uploaded still image.
- "Qognify"
Select this when linking with a Qognify VMS.

Camera Name

Settings: Any character (up to 100 characters)

Enter the camera name. To enter characters other than alphanumeric characters and symbols, use the web console. If you want to insert a line break in the camera name, enter \n at the position where you want the line to break.

Enter "IP Address," "Port," "Username," "Password" and click "Obtain Camera Name" to get the camera name from the camera.

5.2.2 ONVIF

IP Address

Settings: "0.0.0.1" – "255.255.255.254"

Enter the IP address of the camera.

Click "Ping" to perform a connection test on the camera.

Port

Settings: "1" – "65535"

Enter the port number of the camera.

The typical port number is "80" ("443" if SSL is enabled).

SSL

Configures secure settings.

The camera must have a server certificate set up.

Since communication via HTTP is not encrypted, there is a risk that data may be intercepted by a third party. To ensure secure communication, it is recommended to use SSL (HTTPS).

Certificate Validation

Performs certificate validation during SSL communication.

The camera's root certificate must be registered in "Certificate" > "Root Certificate."

Username

Settings: Alphanumeric characters and symbols (up to 32 characters)

Enter the username of the camera. A user with administrative privileges is required.

Password

Settings: Alphanumeric characters and symbols (up to 32 characters)

Enter the password for the camera.

Media Type

Settings: "Media1" / "Media2"

Select the media type.

- "Media1" (default setting)
Select to connect to H.264 and MJPEG streams.
- "Media2"
Select to connect to H.265 and H.264 streams. The camera must comply with both ONVIF Profile S and ONVIF Profile T.

Media Profile

Settings: Depends on the camera

Specify the stream to connect to by selecting a media profile. Click "Obtain Profile" to get a list of profiles from the camera.

Transmission Mode

Settings: "Unicast" / "Multicast"

Select the transmission mode

Comm. Method

Settings: "RTP over UDP" / "RTP over RTSP"

Select the communication method for camera video images.

5.2.3 AXIS

IP Address

Settings: "0.0.0.1" – "255.255.255.254"

Enter the IP address of the camera.

Click "Ping" to perform a connection test on the camera.

Port

Settings: "1" – "65535"

Enter the port number of the camera.

The typical port number is "80" ("443" if SSL is enabled).

SSL

Configures secure settings.

The camera must have a server certificate set up.

Since communication via HTTP is not encrypted, there is a risk that data may be intercepted by a third party. To ensure secure communication, it is recommended to use SSL (HTTPS).

Certificate Validation

Performs certificate validation during SSL communication.

The camera's root certificate must be registered in "Certificate" > "Root Certificate."

Username

Settings: Alphanumeric characters and symbols (up to 32 characters)

Enter the username of the camera. A user with administrative privileges is required.

Password

Settings: Alphanumeric characters and symbols (up to 32 characters)

Enter the password for the camera.

Video Stream

Settings: Depends on the camera

Select the view area for the stream. Click "Obtain Stream" to get a list of view areas from the camera.

The view area is used to stream a portion of the entire image. Refer to the User's Manual of the camera for details.

Stream Profile

Settings: Depends on the camera

Specify the stream to connect to by selecting a stream profile. Click "Obtain Profile" to get a list of profiles from the camera.

If no profile is registered on the camera, this product will automatically register the "EIZO_Profile" profile to the camera.

Transmission Mode

Settings: "Unicast" / "Multicast"

Select the transmission mode

Comm. Method

Settings: "RTP over UDP" / "RTP over RTSP"

Select the communication method for camera video images.

5.2.4 Panasonic/i-PRO

Unicast/Multicast cannot be set from this product. Change the transmission mode on the camera.

IP Address

Settings: "0.0.0.1" – "255.255.255.254"

Enter the IP address of the camera.

Click "Ping" to perform a connection test on the camera.

Port

Settings: "1" – "65535"

Enter the port number of the camera.

The typical port number is "80" ("443" if SSL is enabled).

SSL

Configures secure settings.

The camera must have a server certificate set up.

Since communication via HTTP is not encrypted, there is a risk that data may be intercepted by a third party. To ensure secure communication, it is recommended to use SSL (HTTPS).

Certificate Validation

Performs certificate validation during SSL communication.

The camera's root certificate must be registered in "Certificate" > "Root Certificate."

Username

Settings: Alphanumeric characters and symbols (up to 32 characters)

Enter the username of the camera. A user with administrative privileges is required.

Password

Settings: Alphanumeric characters and symbols (up to 32 characters)

Enter the password for the camera.

Stream

Settings: "1" / "2" / "3" / "4"

Select the stream to connect to.

Channel

Settings: "1" / "2" / "3" / "4"

Select a stream channel.

Comm. Method

Settings: "RTP over UDP" / "RTP over RTSP"

Select the communication method for camera video images.

5.2.5 EIZO Streaming Gateway

IP Address

Settings: "0.0.0.1" – "255.255.255.254"

Enter the IP address of the Streaming Gateway.

Click "Ping" to perform a connection test.

Port

Settings: "1" – "65535"

Enter the port number of the Streaming Gateway.

If "Protocol" is set to "EIZO Streaming Gateway," enter the access port of the Streaming Gateway web server (default: "80," or "443" if SSL is enabled).

SSL

Ensures secure communication.

A server certificate must be configured on the Streaming Gateway.

Since communication via HTTP is not encrypted, there is a risk that data may be intercepted by a third party. To ensure secure communication, it is recommended to use SSL (HTTPS).

Certificate Validation

Performs certificate validation during SSL communication.

The root certificate for the Streaming Gateway must be registered in "Certificate" > "Root Certificate."

Username

Settings: Alphanumerics and symbols (up to 32 characters)

Enter the user name of the Streaming Gateway. A user with administrative privileges is required.

Password

Settings: Alphanumerics and symbols (up to 32 characters)

Enter the password of the Streaming Gateway.

Stream List

Specify the stream to connect to. Click the "Obtain Stream List" button to get a list of streams from the transmitter.

If "Streaming Gateway" > "Streaming settings" > "Protocol" of the source is set to "RTP," you cannot select that stream.

RTSP Username

Settings: Alphanumeric characters and symbols (up to 79 characters)

The RTSP username is automatically set. It can also be changed.

RTSP Password

Settings: Alphanumeric characters and symbols (up to 79 characters)

The RTSP password is automatically set. It can also be changed.

RTSP Comm. Method

Settings: "RTP over RTSP"

Select the communication method for camera video images.

SRT Latency

Settings: "20 ms" to "8000 ms"

Set the latency.

This can be selected when the corresponding extended functionality license are registered for this product.

SRT Passphrase

Settings: Alphanumeric characters and symbols (up to 79 characters)

Set the passphrase.

This can be selected when the corresponding extended functionality license are registered for this product.

5.2.6 DirectUri

Note

- To receive an MPEG2-TS stream with RTP, select "Comm. Method" or "RTP over UDP" in "RTP over RTSP."
- To receive an MPEG2-TS stream over UDP, check the following points.
 - Specify the port number (1024 to 65535) that receives the stream in "Port" and select "MPEG2-TS over UDP" in "Comm. Method."
 - You should make stream transmission settings for this product from the transmitter in advance.
 - For non-multicast communication, leave the IP address blank.

IP Address

Settings: "0.0.0.1" – "255.255.255.254"

Enter the IP address of the camera.

Click "Ping" to perform a connection test on the camera.

Port

Settings: "1" – "65535"

Enter the port number of the camera.

Typical port numbers are "554" when "Protocol" is "DirectUri," and "URI" is an RTSP stream URI.

Username

Settings: Alphanumeric characters and symbols (up to 32 characters)

Enter the username of the camera. A user with administrative privileges is required.

Password

Settings: Alphanumeric characters and symbols (up to 32 characters)

Enter the password for the camera.

URI

Settings: Alphanumeric characters (up to 1023 characters)

Enter an RTSP stream URI (starting with rtsp://, http://, or https://) or an RTP stream URI (starting with rtp://).

Transmission Mode

Settings: "Unicast" / "Multicast" / "Source-Specific Multicast"

Select the transmission mode.

Comm. Method

Settings: "RTP over UDP" / "RTP over RTSP" / "MPEG2-TS over UDP" / "RTSP over HTTP" / "RTSP over HTTPS"

Select the communication method for camera video images.

5.2.7 SRT

IP Address

Settings: "0.0.0.1" – "255.255.255.254"

Enter the IP address of the camera.

Click "Ping" to perform a connection test on the camera.

Port

Settings: "1" – "65535"

Enter the port number of the camera.

Latency

Settings: "20 ms" to "8000 ms"

Set the latency.

Passphrase

Settings: Alphanumeric characters and symbols (up to 79 characters)

Set the passphrase.

5.2.8 Still Image File

Content number

Settings: "1" – "4"

Select an image uploaded using the "Still Image Registration" function ([5.7 Registering Still Images](#) ▶ 58). A preview of the selected image is displayed.

5.2.9 Qognify

IP Address

Settings: "0.0.0.1" – "255.255.255.254"

Enter the IP address of the camera.

Click "Ping" to perform a connection test on the camera.

Port

Settings: "1" – "65535"

Enter the port number of the camera.

If "Protocol" is set to "Qognify," enter the server access port of the Qognify VMS (default: 62000).

Username

Settings: Alphanumeric characters and symbols (up to 32 characters)

Enter the username of the camera. A user with administrative privileges is required.

Password

Settings: Alphanumeric characters and symbols (up to 32 characters)

Enter the password for the camera.

Camera List


Click "Obtain Camera Name" to retrieve a list of camera names.

Comm. Method

Settings: "RTP over RTSP"

Select the communication method for camera video images.

5.3 Changing Camera Information


1. Select "Camera" > "Camera Registration."
2. Click Edit () for the camera position number you want to change.
3. Set each item.

Note

- Refer to [5.2 Registering a Camera Manually \[▶ 46\]](#) for details about each item.

4. Click "OK."
5. Click "Apply."

5.4 Deleting Cameras

1. Select "Camera" > "Camera Registration."
2. Click Delete () on the position number of the camera you want to delete.
3. Click "Apply."

5.5 Importing Camera Information**[Only for the web console]**

A CSV file that contains additional camera information can be imported for registration.

Note

- Up to 255 cameras can be imported.
- The CSV files that can be imported are as follows.
 - CSV files saved with the "Save Camera Information" function ("Save Camera Information" is a function available in version 6.0 or earlier.)
 - CSV files created by users
 - For information on CSV files that can be imported, refer to [8.1 CSV File Format for Registering Cameras \[▶ 78\]](#).
- If "CameraName" appears garbled, a character encoding other than Unicode UTF-8 may be used. In such a case, change the encoding to Unicode UTF-8.

1. Select "Camera" > "Camera Registration."
2. Click "Load Camera Information."
3. Select the CSV file containing the camera information and click "Open."
4. Select the camera you want to add from the camera list and click "Add."
5. Click "Apply."

5.6 Setting the Quality of Streaming Video Images

Set the quality of streaming video images from cameras.

Note

- This product supports H.265, H.264, and MPEG (only cameras that support ONVIF Profile S) video compression formats.
- This function accesses the camera and changes image quality settings. Changing image quality settings such as resolution may affect the image quality of other recording devices and display devices using the same "Encoder." Please check the impact of changing the quality settings in advance.
- Depending on the camera, the set values may not be reflected. Check the camera specifications.
- It can be set only if "Protocol" is "ONVIF" or "AXIS." If "Protocol" is "Panasonic/i-PRO," the setting information is displayed.

1. Select "Camera" > "Camera Function."
2. Select the camera you want to set up from the "Camera Name" list box.
3. Set the "Video" tab of each item.
The displayed items vary depending on the protocol.
 - "ONVIF" ([ONVIF \[▶ 55\]](#))
 - "AXIS" ([AXIS \[▶ 57\]](#))
4. Click "Apply."

5.6.1 ONVIF

If "Media Type" is "Media2," all items are read-only, and settings cannot be changed.

Camera Web Console

Displays a link to the web page of the camera.

Media Type

Displays the media type (Media1 / Media2).

Media Profile

Settings: EIZO_Profile / Profile of each camera

Select the profile.

Encoder

Settings: Depends on camera specifications

Select the encoder settings.

Compression Format

Settings: "H.264" / "MJPEG"

Select the compression format (if "Media Type" is "Media1").

When "Media Type" is set to "Media2," the setting information is displayed ("H.265" or "H.264").

Resolution

Settings: Depends on camera specifications

Set the resolution.

Frame Rate

Settings: Depends on camera specifications
Set the frame rate (video image update interval).

Encoding Interval

Settings: Depends on camera specifications
Set the encoding interval.
If "Media Type" is "Media2," this item is not displayed.

Bit Rate (Max.)

Settings: Depends on camera specifications
Set the maximum bit rate for the video to be transmitted.

Video Quality

Settings: Depends on camera specifications
Set the image quality. The higher the value, the higher the image quality.

GOV Length

Settings: Depends on camera specifications
Set the frame interval.

Profile

Settings: Depends on camera specifications
Set the profile.

Comm. Method

Displays the camera image connection method (RTP over UDP / RTP over RTSP).

Transmission Mode

Settings: "Unicast" / "Multicast"
Select the transmission method.

Multicast Address

Settings: "224.0.0.0" to "239.255.255.255"
Set the multicast address for multicast transmission.

Multicast Port

Settings: "1024" to "65534" (even numbers only)
Set the multicast port number for multicast transmission.

Multicast TTL

Settings: "1" to "255"
Set the network TTL value for multicast transmission.

5.6.2 AXIS

Camera Web Console

Displays a link to the web page of the camera.

Video Stream

Settings: Depends on camera specifications

Select the display mode to be used in the camera display.

Stream Profile

Settings: EIZO_Profile / Profile of each camera

Select the profile stored in the camera.

Compression Format

Displays the compression format (H.264 / H.265 / MJPEG).

Resolution

Settings: Depends on camera specifications

Set the resolution.

Frame Rate

Settings: "1 fps" to "60 fps"

Set the frame rate (video image update interval).

Rotation

Displays the direction of rotation of the image (0 / 90 / 180 / 270).

GOP Length

Displays the GOP length of the video.

Bit Rate (Max.)

Settings: "0 kbps" to "8192 kbps"

Set the maximum bit rate for the video to be transmitted.

Priority

Settings: "None" / "Frame Rate" / "Quality"

Set the priority for video compression.

Comm. Method

Displays the camera image connection method (RTP over UDP / RTP over RTSP).

Transmission Mode

Settings: "Unicast" / "Multicast"

Select the transmission method.

Multicast Address

Displays the multicast address for multicast transmission.

Multicast Port

Displays the multicast port number for multicast transmission.

Multicast TTL

Displays the network TTL value for multicast transmission.

5.7 Registering Still Images

Upload images to the product. If you specify an image uploaded during camera registration, it can be displayed in the camera display area (see [5.2 Registering a Camera Manually](#) [▶ 46]).

1. Select "Camera" > "Still Image Registration."
2. Click "Upload."
3. Select the image to register, then click "Open."

5.8 Registering the Camera Preset Position

Attention

- The following settings are only possible on the monitor console and when "Protocol" is set to "ONVIF" during camera registration.

1. Select "Camera" > "Camera Function."
2. Select the camera you want to set up from the "Camera Name" list box.
3. Set the "Preset" tab of each item.
 - "Preset" ([Preset \[▶ 59\]](#))
 - "Preset Name" ([Preset Name \[▶ 59\]](#))
 - "Brightness" ([Brightness \[▶ 59\]](#))
 - "Focus" ([Focus \[▶ 59\]](#))
 - "PTZ Adjust" ([PTZ Adjust \[▶ 59\]](#))
4. Click "Register."

Note

- Clicking "Delete" will delete the selected registered preset settings.

Preset

Settings: "Not Selected" / "New" / "Registered Presets"^{*1} / "HOME"

^{*1} Displays when there are registered presets.

Selects a preset.

Preset Name

Settings: Unicode (up to 255 characters) ^{*1}

^{*1} Depending on camera specifications, registration may not be possible even if the conditions are met.

Sets a name for the preset.

Brightness

Adjusts the camera brightness.

Focus

Adjusts the camera focus.

PTZ Adjust

Adjusts the display magnification, horizontal position (pan), vertical position (tilt), and PTZ operation quantity of the camera.

6 Live Image Screen Settings

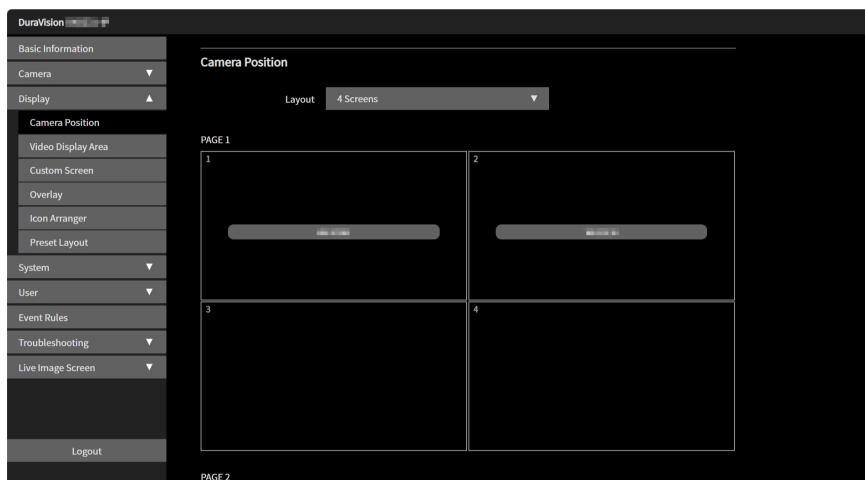
You can configure display settings such as changing the live image screen layout and the current system status.

6.1 Setting Display Positions of Camera Video Images

Set the display position for video images from the cameras.

You can switch the display positions of the source and destination camera images by dragging and dropping the camera name.

1. Select "Display" > "Camera Position."
The "Camera Position" screen appears.



2. From the "Layout" list box, select a live image screen layout.
When a layout is selected, the display on the page changes to the selected state. You can configure settings while visualizing the display state.
3. Select the name of the camera to be moved, then drag it and drop it onto the camera name where it will be moved to.
The display positions of the source and destination camera video image will switch.
4. Click "Apply."
The display positions of camera video images are updated. If "Reset" is clicked, the information of the setting being changed is discarded and the setting is reset to the current display setting of the product.

6.2 Setting the Display Method of Camera Video Images

Configure settings for the items displayed on the live image screen.

1. Select "Display" > "Video Display Area."
2. Set each item.
 - "Camera Name Display" ([Camera Name Display \[▶ 61\]](#))
 - "Size" ([Size \[▶ 61\]](#))
 - "Color" ([Color \[▶ 61\]](#))
 - "Border" ([Border \[▶ 61\]](#))
 - "Background" ([Background \[▶ 61\]](#))
 - "Position" ([Position \[▶ 61\]](#))
 - "Time Display in Full Screen" ([Time Display in Full Screen \[▶ 61\]](#))
 - "Size" ([Size \[▶ 62\]](#))
 - "Color" ([Color \[▶ 62\]](#))
 - "Border" ([Border \[▶ 62\]](#))
 - "Background" ([Background \[▶ 62\]](#))
 - "Position" ([Position \[▶ 62\]](#))
 - "Sequence Interval" ([Sequence Interval \[▶ 62\]](#))
 - "Aspect Ratio Mode" ([Aspect Ratio Mode \[▶ 62\]](#))
 - "'Not Registered' Display" (["Not Registered" Display \[▶ 62\]](#))
 - "Layout frame" ([Layout frame \[▶ 62\]](#))
3. Click "Apply."

Camera Name Display

If you want to display the registered camera name on the live image screen, check "Enable."

Size

Settings: "Large" / "Medium" / "Small"

Set the font size.

Color

Settings: "White" / "Black"

Set the text color.

Border

If you want to add a border to the text, check "Enable."

Background

If you want the text background to be semi-transparent, check "Enable."

Position

Settings: "Upper left" / "Upper center" / "Upper right" / "Lower left" / "Lower center" / "Lower right"

Set the display position for the text.

Time Display in Full Screen

To display the time on the screen during full screen display, check "Enable."

Size

Settings: "Extra large" / "Large" / "Medium" / "Small"

Set the font size.

Color

Settings: "White" / "Black"

Set the text color.

Border

If you want to add a border to the text, check "Enable."

Background

If you want the text background to be semi-transparent, check "Enable."

Position

Settings: "Upper left" / "Upper center" / "Upper right" / "Lower left" / "Lower center" / "Lower right"

Set the display position for the text.

Sequence Interval

Settings: "5 Seconds" to "60 Seconds"

Set the interval for changing screens during sequential display.

Aspect Ratio Mode

Settings: "Full" / "Aspect"

Set which aspect ratio to apply when the aspect ratio of the video image transmitted from the camera is different from the aspect ratio displayed in the image display area on the monitor. When "Layout" is selected for "Custom Screen," if "Aspect" is selected, "Full" or "Aspect" can be selected for each camera image. For details, refer to [6.3 Setting Custom Screen Layouts](#) [▶ 63].

"Not Registered" Display

To display the text "Not Registered" if the camera is not registered, check "Enable."

Layout frame

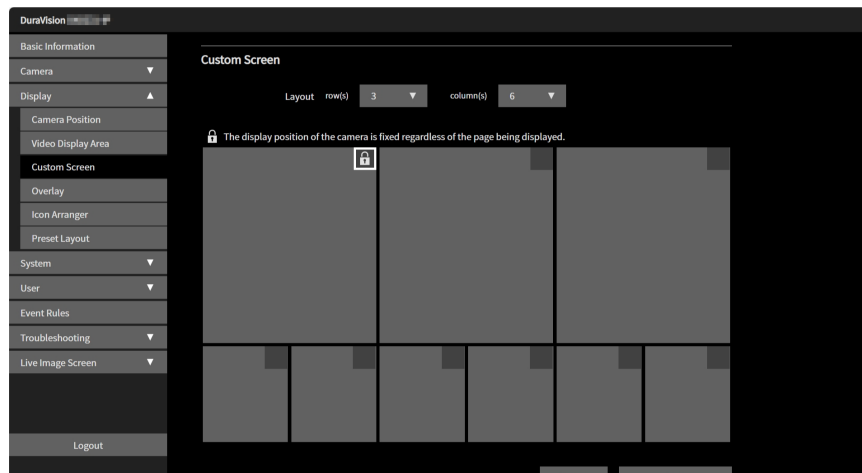
Settings: "White" / "Black"

Set the color of the camera image frame.


6.3 Setting Custom Screen Layouts

Set the display layout when "Custom Screen" is selected in "Layout" on the live image screen.

1. Select "Display" > "Custom Screen."
The "Custom Screen" screen appears.



Note

- When "Multi-Monitor" is set to "Extended," the range displayed on each monitor is indicated by a dotted line.
- If you click the top-right corner within the display position frame, the  is displayed and can lock the display position of any camera video. The camera image display position will remain fixed even when switching pages.

2. Select the number of "row(s)" and "column(s)" from the list box.
The screen will change according to the number of rows and columns selected.
3. Drag a camera image display position and drop it on the display position you want to link it with.
The selected display positions will be linked.
4. Click "Apply."
The linked display position is applied. If "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

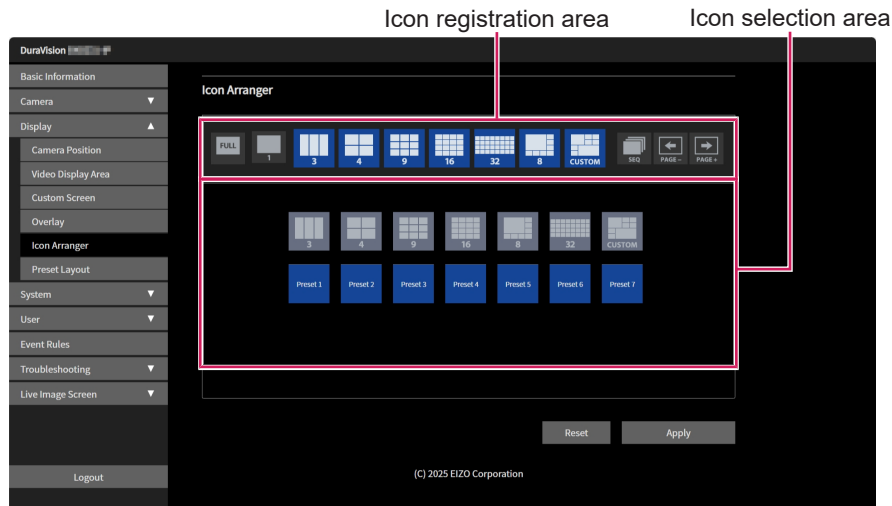
- To unlink, click the linked display position. Alternatively, you can unlink by changing the rows and columns in the list box.
- If "Aspect Ratio Mode" is set to "Aspect," "Full" or "Aspect" is displayed for the camera display position, and the setting changes every time either one of them is selected. For information on the "Aspect Ratio Mode" setting, refer to [6.2 Setting the Display Method of Camera Video Images](#) [▶ 61].

6.4 Changing the Selectable Layout on the Live Image Screen

You can change the selectable layout on the live image screen.






1. Select "Display" > "Icon Arranger."

The "Icon Arranger" screen appears. The layout of the icons registered in the "Icon Registration Area" can be selected on the live image screen.



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

Note

- If another icon is already registered at the destination, the position of the icons will switch.
- To delete a registration, drag and drop it from the icon registration area to the icon selection area.
- The      settings cannot be changed.

3. Click "Apply."

6.5 Setting Layout Presets

If the corresponding extended functionality license has been registered for this product, the live image screen display layout and camera arrangement can be saved as a preset.

Note

- You can save up to 7 presets.

1. Select "Display" > "Preset Layout."
2. Select the preset number you want to set from the "Preset Number" list box.
3. Select the "Basic Settings" tab and enter "Preset Name."
 - "Preset Name" ([Preset Name \[▶ 65\]](#))
4. Select the number of "row(s)" and "column(s)" from the list box.

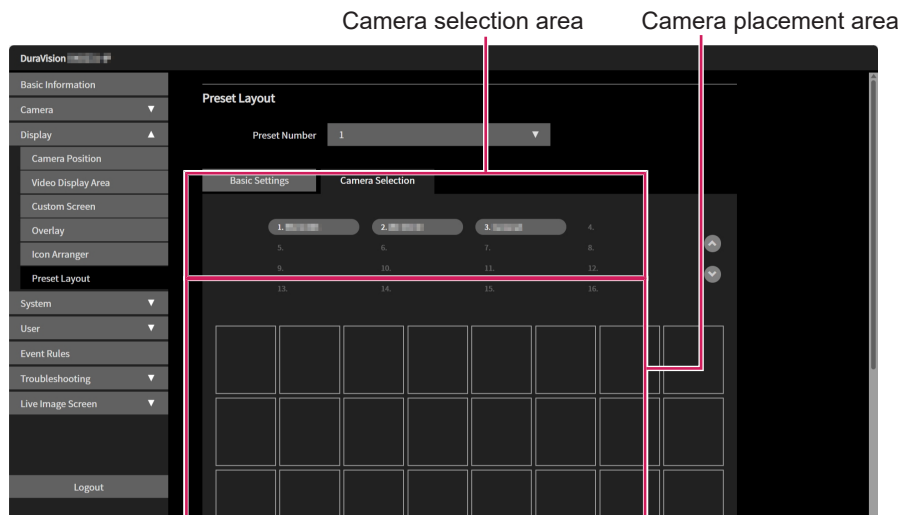
The screen will change according to the number of rows and columns selected.
5. Drag a camera image display position and drop it on the display position you want to link it with.

The selected display positions will be linked.

Note

- To unlink, click the linked display position. Alternatively, you can unlink by changing the rows and columns in the list box.

6. Click "Apply."
7. Select the "Camera Selection" tab.



8. Drag the camera to be set from the camera selection area or camera placement area and drop it in the desired position in the camera placement area.

Note

- If the camera to be set is clicked in the camera selection area, it is placed in an empty position in the camera placement area.
- If another camera is already placed at the destination, the position of the cameras will switch.
- To cancel the settings, drag and drop from the camera placement area to the camera selection area.

9. Click "Apply."

Preset Name

Settings: Any character (up to 16 characters)

Enter the name of the preset. To enter characters other than alphanumeric characters and symbols, use the web console.

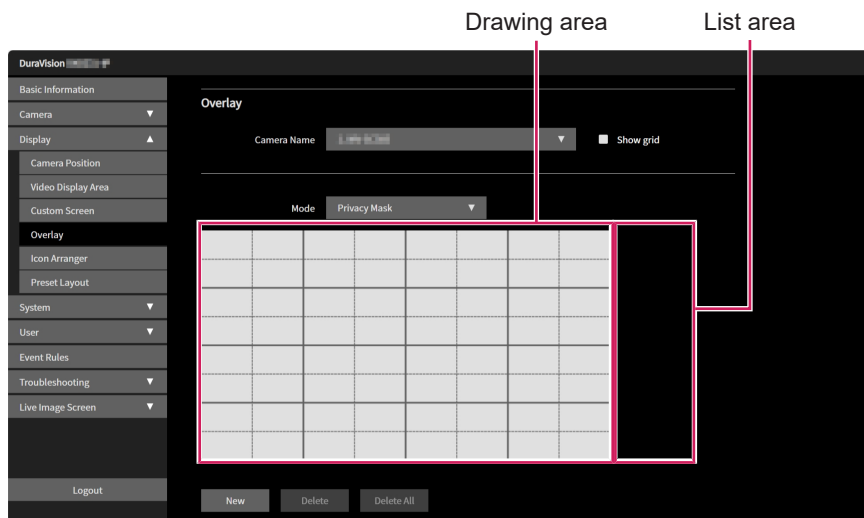
6.6 Setting the Overlay

Privacy masks and virtual lines can be displayed on the camera image on the live image screen.

1. Select "Display" > "Overlay."
2. Select the camera you want to set up from the "Camera Name" list box.
The setting screen of the selected camera is displayed.

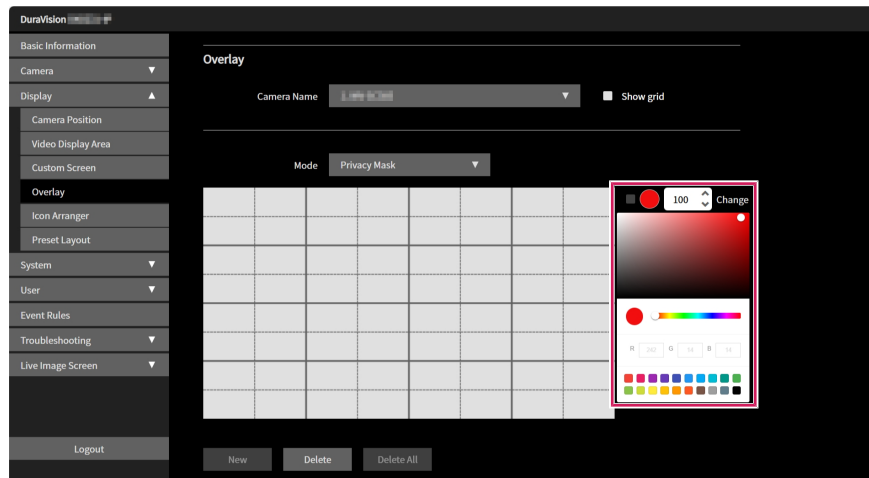
Note

- In the web console, if you check "Show grid," you can display a grid on the camera image on the live image screen.
- In the monitor console, the camera image is displayed in the drawing area.



3. Select the type of overlay you want to set from the "Mode" list box.
 - "Privacy Mask"
You can set up to 10 privacy masks.
Designates 3 or 4 points in the drawing area and draws polygonal shaped privacy masks.
 - "Virtual Line"
You can set up to 10 virtual lines.
Designates 2-10 points in the drawing area and draws virtual lines.
4. Click "New."
A new overlay item is added to the list area.

5. Set each overlay item.



- "Check box" ([Check box ▶ 67\]](#))
- "Color" ([Color ▶ 67\]](#))
- "Opacity" ([Opacity ▶ 67\]](#))
- "Weight" ([Weight ▶ 67\]](#))

6. Draw the overlay in the drawing area.

7. Click "Apply."

The overlay is displayed in the drawing area.

Note

- You can remove specific overlays by following these steps.
 1. Select the overlay you want to remove in the drawing area. "Selected" is displayed on the selected overlay item in the list area.
 2. Click "Delete."
 3. Click "Apply."
- Click "Delete All" to remove all overlays.

Check box

Switch between displaying/hiding the overlay.

Color

Select a color from the color palette.

Opacity

Settings: "0" to "100"

For "Privacy Mask," select the opacity.

Weight

Settings: "1" to "12"

For "Virtual Line," select the line weight.

6.7 Setting the Display Methods of Live Image Screens

You can configure display settings such as changing the live image screen layout.

1. Select "Live Image Screen" > "Live Image Screen Status."
2. Select each setting item from the list box.
 - "Full Screen Display" ([Full Screen Display ▶ 68](#))
 - "Layout" ([Layout ▶ 68](#))
 - "Page" ([Page ▶ 68](#))
 - "Sequence" ([Sequence ▶ 68](#))
 - "Single Layout Display"^{*1} ([Single Layout Display ▶ 68](#))

*1 DX0231-IP only

3. Click "Apply."

Full Screen Display

If you want to display the menu on the live image screen, check "Enable."

Layout

Settings: "1 Screen" / "3 Screens" / "4 Screens" / "9 Screens" / "16 Screens" / "32 Screens" / "8 Screens" / "Custom Screen"

Set the layout to be displayed on the live image screen.

Page

Settings: "1" to "48"

Switch the page with the camera image displayed on the monitor.

Sequence

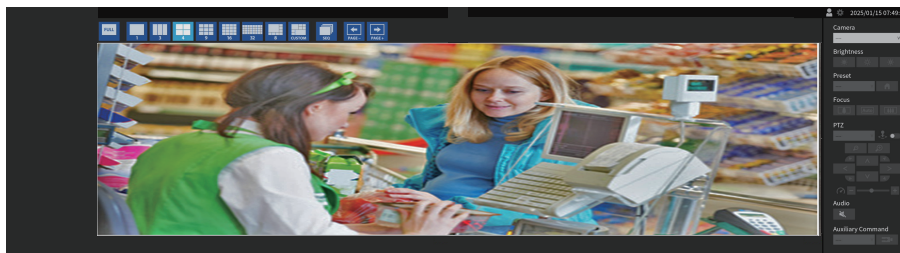
If you want to enable sequential display of pages, check "Enable."

Single Layout Display

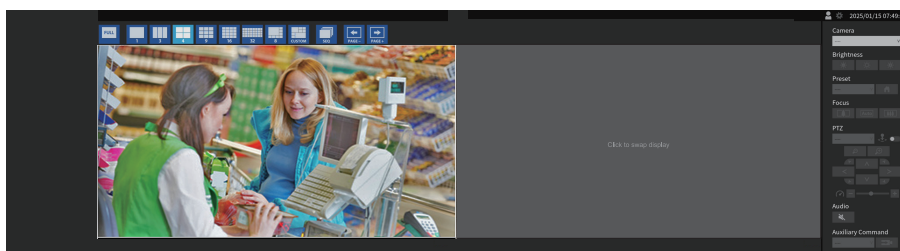
Settings: "All" / "Left Screen" / "Right Screen"

When "Multi-Monitor" is "Extended" (refer to [Multi-Monitor ▶ 42](#)), set how the single screen layout is displayed across the two monitors.

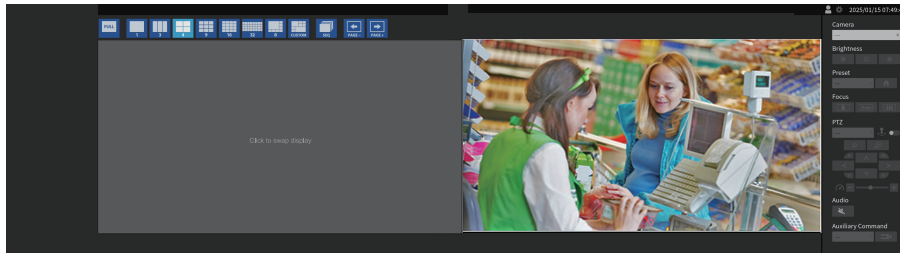
- "All"



- "Left Screen"



- "Right Screen"



6.8 Setting the Current Monitor Display Status

[Only for the web console]

1. Select "Live Image Screen" > "System Status."
2. Set each item.
 - "Current Status" ([Current Status ▶ 69](#))
 - "Brightness"*1 ([Brightness ▶ 69](#))
 - "Volume"*1 ([Volume ▶ 69](#))
 - "Mute"*1 ([Mute ▶ 69](#))

*1 FDF2731W-IP only

3. Click "Apply."

Current Status

Settings: "Live Image Screen" / "Quick Shutdown" / "Setting Screen"

Select the status.

- "Live Image Screen"
The monitor screen is displaying the live image screen
- "Quick Shutdown"
The power is off
- "Setting Screen"
The monitor screen is displaying the setting screen

Attention

- "Current Status" cannot be changed to "Setting Screen." You can change to any other status from the "Setting Screen."

Brightness

Settings: "0" to "100"

Adjusts the screen brightness.

Volume

Settings: "0" to "30"

Adjusts the volume.

Mute

To mute the audio, check "Enable."

6.9 Checking the Livestream View

[Only for the web console]

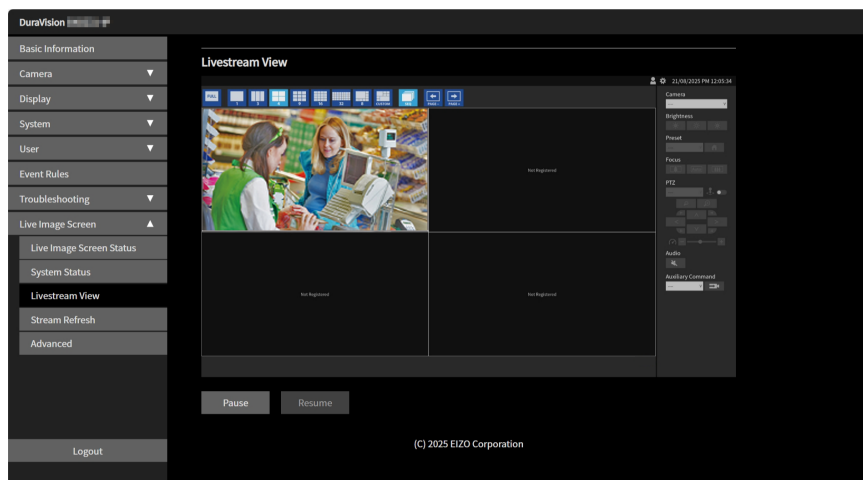
You can check the current live image screen display as a video through a web browser.

Attention

- Up to 2 users can use this feature at the same time.
- The display frame rate for this feature is 1 fps.
- This function will not work if your web browser is Internet Explorer.

1. Select "Live Image Screen" > "Livestream View."

The live image screen is displayed as a video. Click "Pause" to pause the video, and click "Resume" to play the video. You can switch to full screen by double-clicking the livestream view display.



6.10 Updating the Camera Image of the Live Image Screen to the Latest Status

[Only for the web console]

Update the camera image on the live image screen to the latest status.

1. Select "Live Image Screen" > "Stream Refresh."
2. Click "Execute."

6.11 Configuring Advanced Settings for Camera Videos

Configure advanced settings for displaying camera video on the live image screen. Normally, there is no need to change these settings.

Attention

- Changing the settings may cause the display to function improperly.

1. Select "Live Image Screen" > "Advanced."
2. Set each item.
 - "B Frame Decode Buffer" ([B Frame Decode Buffer \[▶ 71\]](#))
 - "Skip non-reference frames" ([Skip non-reference frames \[▶ 71\]](#))
 - "Suspend while in Background" ([Suspend while in Background \[▶ 71\]](#))
 - "Instant camera switch" ([Instant Camera Switching \[▶ 71\]](#))
 - "Sync timestamp" ([Sync timestamp \[▶ 72\]](#))
 - "Latency [0-1000 ms]" ([Latency \[0-1000 ms\] \[▶ 72\]](#))
 - "Network traffic condition" ([Network traffic condition \[▶ 72\]](#))
 - "RTP receive port restrictions" ([RTP receive port restrictions \[▶ 72\]](#))
 - "RTP receive port range" ([RTP receive port range \[▶ 72\]](#))
3. Click "Apply."

B Frame Decode Buffer

When "Enable" is checked, streams containing B-frames can be displayed, but the following issues occur. By default, "Enable" is not checked.

- The display of camera images is delayed.
- Video with a low frame rate such as 1 fps may not be displayed.

Skip non-reference frames

When "Enable" is checked, non-reference frames are skipped to maintain the display, but the following may occur.

- Camera video stuttering may increase.

Suspend while in Background

When "Enable" is checked, 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 camera can be minimized, but the following issues occur. By default, "Enable" is not checked.

- Since communication with the camera starts when the display starts, it takes time for the camera image to be displayed.

Instant Camera Switching

If you check "Enable," decoding for cameras that are not displayed is maintained, reducing the time until camera images appear when switching pages. However, the following restrictions apply. By default, "Enable" is not checked.

- Up to 32 cameras can be displayed (communication fails after the 33rd).
- If the "Suspend while in Background" function is enabled, this function is disabled (the "Suspend while in Background" function takes priority).
- Since camera feeds not displayed on the screen are also decoded in parallel, the decoding performance depends on the total number of cameras registered in the system rather than the current display layout (refer to [9.2 Decoding Performance \[▶ 85\]](#)).

Sync timestamp

This feature applies only to video streams received via RTSP or RTP.

If "Enable" is checked, the live stream will be displayed according to the time stamp received from the camera. Display stuttering may be improved, but the following issues occur. By default, "Enable" is not checked.

- Increasing the delay time (buffering time) improves display stability but increases display delay. Reducing the delay time setting shortens display delay but may result in unstable display.
- Increased CPU load may lead to reduced performance, such as a decrease in the frame rate that can be displayed.

Latency [0-1000 ms]

The delay time for "Sync timestamp" can be set from 0 to 1000 ms.

Network traffic condition

If you check "Enable," the data reception and network status can be checked by the color of the circle displayed in the upper right of the screen. By default, "Enable" is not checked.

- Black
Default status
- Red
Packet lost detection
- Yellow
No packets received for a certain period of time
- Gray
Frame rate drops due to high load
- Green
Normal reception of 30 frames or higher

RTP receive port restrictions

When "Enable" is checked, the "RTP receive port range" setting becomes active, and the range of receive ports is restricted. By default, "Enable" is not checked.

RTP receive port range

Settings: "1024" to "65535"

Specifies the range of RTP receive ports (UDP) used after RTSP communication begins.

7 Managing User Accounts

You can configure settings 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

- You can register up to 10 user accounts. If there are more than 10 users, no new user information can be registered.
- You cannot register a username that is the same as a registered user account.
- At least one user with a user level of "ADMIN" must be registered.

7.1 Registering User Accounts

1. Select "User" > "Local User."
2. Click "Add."

A dialog box for setting the user account is displayed.

The dialog box contains the following fields and validation rules:

- User Level:** A dropdown menu.
- Username:** A text input field. Validation rules:
 - 1-16 characters
 - Contain alphanumeric characters only
 - May not contain the following characters: # & : " < > \
- Password:** A text input field with a visibility icon.
- Confirm Password:** A text input field with a visibility icon. Validation rules:
 - 8-16 characters
 - At least one upper case and one lower case letter
 - At least one number
 - Contain no \ characters

Buttons: Cancel, OK

3. Set each item.
 - "User Level" ([User Level \[▶ 73\]](#))
 - "Username" ([Username \[▶ 74\]](#))
 - "Password" ([Password \[▶ 74\]](#))
 - "Confirm Password"

For confirmation, re-enter the same password.
4. Click "OK."

User Level

Select "LIVE," "CAMERA CONTROL," and "ADMIN."

Each level differs in the extent to which you can manipulate this product. For details, refer to [1.2 User Level \[▶ 8\]](#).

Username

Enter the username. Set the username so that it meets the following conditions.

- At least 1 character, 16 characters or less
- Alphanumeric characters only
- At least 1 number
- Does not contain the characters # & " < > \

The following username cannot be set.


- "." / ".." / "auto-login"

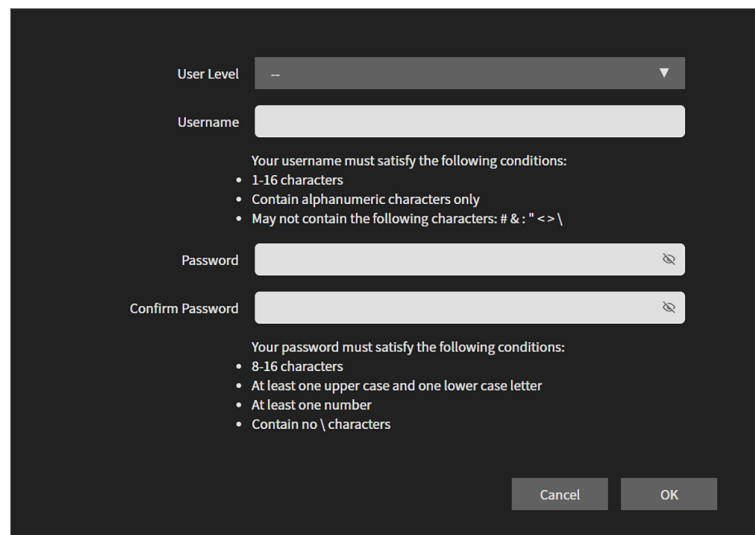
Password

Enter the password. Set a password that is difficult for a third party to guess.

- 8 to 16 characters
- At least one uppercase and lowercase English letter
- At least one number
- Does not contain the character \

7.2 Changing User Accounts

1. Select "User" > "Local User."
2. Click Edit () for the user you want to change.
3. Set each item.
 - "User Level" ([User Level \[▶ 73\]](#))
 - "Username" ([Username \[▶ 74\]](#))
 - "Password" ([Password \[▶ 74\]](#))
 - "Confirm Password"For confirmation, re-enter the same password.



User Level

Username

Your username must satisfy the following conditions:

- 1-16 characters
- Contain alphanumeric characters only
- May not contain the following characters: # & " < > \

Password

Confirm Password


Your password must satisfy the following conditions:

- 8-16 characters
- At least one upper case and one lower case letter
- At least one number
- Contain no \ characters

Cancel OK

4. Click "OK."

7.3 Deleting User Accounts

1. Select "User" > "Local User."
2. Click Delete () for the user you want to delete.
A confirmation dialog box asking "Are you sure you want to delete user XXX?" is displayed.
3. Click "OK."

7.4 Configuring Auto Login Settings

Attention

- Enabling auto login makes it easier for malicious third parties to perform unauthorized operations. Use this setting only in environments with adequate security measures in place.
- This function cannot be used if "LDAP" is selected in "User Account" > "Type."

1. Select "User" > "Local User."
2. Select the user you want to set up auto login from the "Auto Login" list box.
3. Click "Apply."

7.5 Configuring LDAP Settings

If you use a directory service (LDAP) for user management, you can log in to this product using a user account on an LDAP server.

Attention

- Web browser access is only possible for accounts with an "ADMIN" user level.
- Before applying LDAP settings, perform a login test to ensure that you can log in with an "ADMIN" user account. If LDAP settings are incorrect, you will not be able to log in to this product.

1. Select "User" > "LDAP."
2. Set each item.
 - "User Account" ([User Account \[▶ 75\]](#))
 - "LDAP" ([LDAP \[▶ 76\]](#))
 - "Search Filter Settings" ([Search Filter Settings \[▶ 76\]](#))
 - "Login Test" ([Login Test \[▶ 77\]](#))
3. Click "Apply."

7.5.1 User Account

Type

Settings: "Local User" / "LDAP"

Select the user account type. If set to "LDAP," login using a local user account is disabled.

Note

- To select an account type when logging in to the monitor console, check "Allow choosing of account type on the login dialog.."

7.5.2 LDAP

Server Address

Settings: Alphanumerics and symbols (up to 255 characters)

Enter the IP address or host name of the LDAP server.

Port

Settings: "1" – "65535"

Enter the port number.

The typical port number is "389" ("636" if SSL is enabled).

Base DN

Settings: Alphanumerics and symbols (up to 255 characters)

Enter the distinguished name of the branch you want to search.

Example: ou=ldap,dc=example,dc=com

Bind DN

Settings: Alphanumerics and symbols (up to 255 characters)

Enter the username of a user who has access rights to the Base DN.

Example: cn=binduser,ou=ldap,dc=example,dc=com

Bind Password

Settings: Alphanumerics and symbols (up to 255 characters)

Enter the password for the Bind DN.

Username Attribute

Settings: Alphanumerics and symbols (up to 255 characters)

Enter the attribute for the user account name used for login.

Example: cn

SSL

Check "Enable" to use SSL communication (LDAPS).

Certificate Validation

Check "Enable" to validate the certificate.

The root certificate of the LDAP server must be registered in "Root Certificate" of this product.

7.5.3 Search Filter Settings

ADMIN User Filter

Settings: Alphanumerics and symbols (up to 255 characters)

Configure filters for users with "ADMIN" access rights.

Example:

(memberOf=cn=admin,ou=ldap,dc=example,dc=com)

CAMERA CONTROL User Filter

To enable camera control access rights, check "Enable" and configure the filter.

LIVE User Filter

To enable LIVE access rights, check "Enable" and configure the filter.

7.5.4 Login Test

Username

Settings: Alphanumerics and symbols (up to 32 characters)

Enter the username.

Password

Settings: Alphanumerics and symbols (up to 32 characters)

Enter a password.

Test

Settings: "Execute"

Perform a login test.

8 Reference

8.1 CSV File Format for Registering Cameras

The CSV file that can be loaded using "Load Camera Information" (refer to [5.5 Importing Camera Information](#) ▶ 54]) must meet the following conditions.

- A comma-separated CSV file
- The first row is the header row
- All required fields are included in the header row
- The value of each field falls within the allowed setting range
- The character code for the CSV file is UTF-8

Name of the header row	Setting range				
	ONVIF	AXIS	Panasonic/i-PRO	DirectUri	SRT
CameraName	(Optional) Any character (up to 100 characters)	(Optional) Any character (up to 100 characters)	(Optional) Any character (up to 100 characters)	(Optional) Any character (up to 100 characters)	(Optional) Any character (up to 100 characters)
Protocol	ONVIF ^{*1}	AXIS	Panasonic	DirectUri	SRT ^{*2}
IPAddress	(Required) 0.0.0.1 to 255.255.255.254	(Required) 0.0.0.1 to 255.255.255.254	(Required) 0.0.0.1 to 255.255.255.254	(Required) 0.0.0.1 to 255.255.255.254	(Required) 0.0.0.1 to 255.255.255.254
Port ^{*3}	(Required) 1 to 65535	(Required) 1 to 65535	(Required) 1 to 65535	(Required) 1 to 65535	(Required) 1 to 65535
UserName	(optional) Alphanumerics and symbols (up to 32 characters)	(optional) Alphanumerics and symbols (up to 32 characters)	(optional) Alphanumerics and symbols (up to 32 characters)	(optional) Alphanumerics and symbols (up to 32 characters)	(optional) Alphanumerics and symbols (up to 32 characters)
PassWord	(optional) Alphanumerics and symbols (up to 32 characters)	(optional) Alphanumerics and symbols (up to 32 characters)	(optional) Alphanumerics and symbols (up to 32 characters)	(optional) Alphanumerics and symbols (up to 32 characters)	(optional) Alphanumerics and symbols (up to 32 characters)
Uri	Not required	Not required	Not required	(Required) Alphanumeric characters (up to 1023 characters)	(Required) Alphanumeric characters (up to 1023 characters)
Comm. Method	udp / rtsp	udp / rtsp	udp	udp / rtsp / m2ts_udp	Not required
Enable SSL	off / on	off / on	off / on	Not required	Not required
Certificate Validation	off / on	off / on	off / on	Not required	Not required
Passphrase	Not required	Not required	Not required	Not required	(optional) Alphanumerics and symbols (up to 79 characters)
Latency	Not required	Not required	Not required	Not required	(Required) 20 ms to 8000 ms
TransmissionMode	unicast / multicast	unicast / multicast	Not required	unicast / multicast / ssm	Not required

*1 When "Protocol" is set to "ONVIF," the "Media Type" will be "Media1."

*2 If the corresponding extended functionality license is registered for this product, an error will occur during camera registration.

*3 Typical port numbers are "80" ("443" if SSL is enabled) when "Protocol" is "ONVIF," "AXIS," "Panasonic/i-PRO," and "554" when "Protocol" is "DirectUri" and "URI" is an RTSP stream URI.

CSV file sample

```
CameraName,Protocol,IPAddress,Port,UserName,PassWord,Uri,Comm. Method,Enable
SSL,Certificate Validation,Latency,Passphrase,TransmissionMode
camera1,panasonic,192.168.0.101,80,user,pass,,udp,off,off,,
camera2,onvif,192.168.0.103,80,user,pass,,udp,off,off,,unicast
camera3,srt,192.168.0.104,5000,user,pass,srt://192.168.0.104,,off,off,125,12345678,
camera4,directUri,192.168.0.105,554,user,pass,rtsp://192.168.0.105/stream1,udp,off,off,,unicast
camera5,directUri,224.0.0.1,10002,user,pass,,m2ts_udp,off,off,,multicast
```

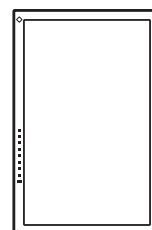
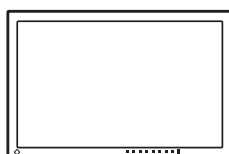
8.2 Attaching an Optional Monitor Arm (FDF2731W-IP)

This product can be attached to an optional arm (or stand) by removing the stand. Refer to the EIZO website for compatible arms (or stands).

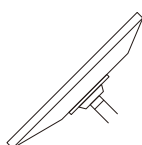
(www.eizoglobal.com)

The installation direction and range of motion (tilt angle) when the arm or stand is attached are as follows.

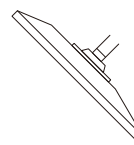
- Installation direction



- Installation angle (tilt angle)



Up: 45°



Down: 45°

Attention

- Follow the instructions in the arm or stand's instruction manual when installing.
- If you use an arm or stand made by another company, check the following with the manufacturer and select one that complies with VESA standards.
 - Mounting screw hole spacing: 100 mm x 100 mm
 - External dimensions of the VESA mount on the arm or stand: 122 mm x 122 mm or less
 - Plate thickness: 2.6 mm
 - Allowable weight: Must be able to withstand the weight of the monitor (without a stand) plus the total mass of attached objects such as cables.
- Connect the cables after attaching the arm or stand.
- The monitor and arm or stand are heavy and may cause injury or equipment failure if dropped.
- Periodically check that the screws are tight. If screws are not tightened sufficiently, the monitor may fall off, causing injury or equipment failure.

1. To prevent damage to the LCD panel, place a soft cloth on a stable surface and place the monitor face down on it.
2. Remove the stand.
Prepare a screwdriver separately. Using a screwdriver, remove the screws securing the stand to the monitor.
3. Attach the arm (or stand) to the monitor.
Use the screws removed in step 2 for installation.

9 Specifications

9.1 List of Specifications

9.1.1 DX0231-IP List of Specifications

Decoding Process

Interlaced video streams cannot be displayed.

Number of cameras that can be displayed simultaneously	32 (Max.)
Number of cameras that can be registered	48 (Max.)
Camera protocol	ONVIF Profile S, AXIS VAPIX, Panasonic/i-PRO, RTSP
Video compression formats	H.265, H.264, MJPEG
Audio compression formats	AAC, Opus, G.711, G.726
Streaming protocols	RTP (H.265, H.264, MJPEG, MPEG2-TS), SRT (H.265, H.264), UDP (MPEG2-TS)
Bit rate	8192 kbps (Max)
Maximum resolution	H.265, H.264: 3840 x 2160 ^{*1} MJPEG: 640 x 480
Maximum frame rate	60 fps ^{*2}

*1 If the maximum resolution is exceeded, the image will not be displayed. Lower the resolution and bit rate of the camera.

*2 The maximum frame rate depends on the resolution (refer to [9.2 Decoding Performance \[▶ 85\]](#)).

Video Signals

Output terminals	HDMI x 2
Transmission method	TMD5 (Single Link)

Network

Wired LAN standard	RJ-45 (1000BASE-T, 100BASE-TX)
Communication protocols	DHCP, DNS, HTTP, HTTPS, LDAP, LDAPS, NTP, RTP, RTSP, SNMP, SRT, IEEE802.1X

USB

Port (downstream)	USB-A (USB 2.0) x 1
Standard	USB Specification Revision 2.0
Communication speed	480 Mbps, 12 Mbps, 1.5 Mbps
Power Supply (Downstream)	USB-A (USB 2.0): Maximum of 500 mA

Sound

Output terminals	HDMI x 2 (shared with video signal) Stereo mini jack x 1
------------------	---

Power

Input	PoE+ input: IEEE802.3at Type2 AC adapter: DC 12 V \pm 10 %, 2.0 A
Maximum power consumption	PoE+ input: 25.5 W AC adapter: 24 W

Physical Specifications

Dimensions	165 mm x 44.2 mm x 130 mm (W x H x D)
Net weight	Approx. 720 g

Operating Environment Conditions

Temperature	0 °C – 40 °C
Humidity	20 % – 80 % R.H. (no dew condensation)
Air Pressure	540 hPa – 1060 hPa

Transport / Storage Conditions

Temperature	-20 °C – 60 °C
Humidity	10 % – 90 % R.H. (no dew condensation)
Air Pressure	200 hPa – 1060 hPa

9.1.2 FDF2731W-IP List of Specifications**LCD Panel**

Type	VA (Anti-Glare)
Backlight	LED
Size	27.0" (68.6 cm)
Resolution	1920 dots x 1080 lines
Maximum Brightness (typical)	350 cd/m ²
Display Size (H x V)	597.6 mm x 336.15 mm
Pixel Pitch	0.311 mm x 0.311 mm
Display Colors	8-bit colors 16.77 million colors
Viewing Angle (H / V, typical)	178° / 178°
Response Time (typical)	Gray-to-gray 11 ms

Decoding Process

Interlaced video streams cannot be displayed.

Number of cameras that can be displayed simultaneously	32 (Max.)
Number of cameras that can be registered	48 (Max.)
Camera protocol	ONVIF Profile S, AXIS VAPIX, Panasonic/i-PRO, RTSP
Video compression formats	H.265, H.264, MJPEG
Audio compression formats	AAC, Opus, G.711, G.726
Streaming protocols	RTP (H.265, H.264, MJPEG, MPEG2-TS), SRT (H.265, H.264), UDP (MPEG2-TS)
Bit rate	8192 kbps (Max)
Maximum resolution	H.265, H.264: 3840 x 2160 ^{*1} MJPEG: 640 x 480
Maximum frame rate	60 fps ^{*2}

*1 If the maximum resolution is exceeded, the image will not be displayed. Lower the resolution and bit rate of the camera.

*2 The maximum frame rate depends on the resolution (refer to [9.2 Decoding Performance \[▶ 85\]](#)).

Network

Wired LAN standard	RJ-45 (1000BASE-T, 100BASE-TX)
Communication protocols	DHCP, DNS, HTTP, HTTPS, LDAP, LDAPS, NTP, RTP, RTSP, SNMP, SRT, IEEE802.1X

USB

Port (downstream)	USB-A (USB 2.0) x 2
Standard	USB Specification Revision 2.0
Communication speed	480 Mbps, 12 Mbps, 1.5 Mbps
Power Supply (downstream)	USB-A (USB 2.0): Maximum of 500 mA

Sound

Speakers	1 W + 1 W
Output Terminals	Stereo mini jack x 1

Power

Input	100 – 240 VAC ±10 %, 50 / 60 Hz, 0.60 – 0.30 A
Maximum Power Consumption	55 W or less (with IP camera connected [number of units irrelevant] and USB load)
Standby Power Consumption	12 W or less (when power switch is off, no external load, and no IP cameras connected)

Physical Specifications

Dimensions	634.0 mm x 531.5 mm x 205.0 mm (W x H x D) (Tilt: 0°) 634.0 mm x 549.9 mm x 235.5 mm (W x H x D) (Tilt: 30°)
Dimensions (Without stand)	634.0 mm x 376.0 mm x 60.5 mm (W x H x D)
Net Weight	Approx. 7.4 kg
Net Weight (Monitor)	Approx. 5.5 kg
Tilt	Up 30°, down 0°
Vertical Rotation	Right 92°

Operating Environment Conditions

Temperature	0 °C – 40 °C
Humidity	20 % – 80 % R.H. (no dew condensation)
Air Pressure	540 hPa – 1060 hPa

Transport / Storage Conditions

Temperature	-20 °C – 60 °C
Humidity	10 % – 90 % R.H. (no dew condensation)
Air Pressure	200 hPa – 1060 hPa

9.2 Decoding Performance

Note
<ul style="list-style-type: none"> • Images are automatically enlarged or reduced in the product according to the resolution and layout of the monitor. • The values are provided for reference. Videos are not displayed properly if the decoding performance is exceeded due to camera settings, network installation environment or other reasons. If videos are not displayed properly, reduce the camera resolution and bit rate. Set camera settings according to the instructions in the manual of the camera. • MJPEG is only supported when "Protocol" is "ONVIF."

9.2.1 DX0231-IP Decoding Performance

H.265 / H.264 (when "Bit Rate" is set to "4096 kbps")

Resolution of the video display monitor is 1920 x 1080, 60 Hz

1 Screen Layout	3840 x 2160 / 30 fps, 1920 x 1080 / 60 fps, 1280 x 720 / 60 fps
4 Screens Layout	3840 x 2160 / 20 fps, 1920 x 1080 / 60 fps, 1280 x 720 / 60 fps
9 Screens Layout	1920 x 1080 / 30 fps, 1280 x 720 / 50 fps, 640 x 480 / 60 fps
12 Screens Layout	1920 x 1080 / 20 fps, 1280 x 720 / 40 fps, 640 x 480 / 60 fps
16 Screens Layout	1920 x 1080 / 20 fps, 1280 x 720 / 40 fps, 640 x 480 / 60 fps
32 Screens Layout	1280 x 720 / 15 fps, 640 x 480 / 30 fps

The resolution of the video display monitor is 3840 x 2160, 60 Hz

1 Screen Layout	3840 x 2160 / 30 fps, 1920 x 1080 / 30 fps, 1280 x 720 / 30 fps
4 Screens Layout	3840 x 2160 / 20 fps, 1920 x 1080 / 30 fps, 1280 x 720 / 30 fps
9 Screens Layout	1920 x 1080 / 25 fps, 1280 x 720 / 30 fps, 640 x 480 / 30 fps
12 Screens Layout	1920 x 1080 / 20 fps, 1280 x 720 / 25 fps, 640 x 480 / 30 fps
16 Screens Layout	1920 x 1080 / 20 fps, 1280 x 720 / 25 fps, 640 x 480 / 30 fps
32 Screens Layout	1280 x 720 / 15 fps, 640 x 480 / 20 fps

MJPEG

640 x 480 / 30 fps

9.2.2 FDF2731W-IP Decoding Performance

H.265 / H.264 (when "Bit Rate" is set to "4096 kbps")

1 Screen Layout	3840 x 2160 / 30 fps, 1920 x 1080 / 60 fps, 1280 x 720 / 60 fps
4 Screens Layout	3840 x 2160 / 20 fps, 1920 x 1080 / 60 fps, 1280 x 720 / 60 fps
9 Screens Layout	1920 x 1080 / 30 fps, 1280 x 720 / 50 fps, 640 x 480 / 60 fps
12 Screens Layout	1920 x 1080 / 20 fps, 1280 x 720 / 40 fps, 640 x 480 / 60 fps
16 Screens Layout	1920 x 1080 / 20 fps, 1280 x 720 / 40 fps, 640 x 480 / 60 fps
32 Screens Layout	1280 x 720 / 15 fps, 640 x 480 / 30 fps

MJPEG

640 x 480 / 30 fps

9.3 Output Resolution (DX0231-IP Only)

The output resolutions for the video display monitor are as follows.

Resolution	Vertical scan frequency (Hz)	Dot clock [MHz]
1920 x 1080	50.000	148.500
1920 x 1080	59.940	148.352
1920 x 1080	60.000	148.500
2560 x 1440	59.951	241.500
3440 x 1440	29.990	157.750
3440 x 1440	49.990	265.250
3440 x 1440	59.970	319.750
3840 x 1600	29.998	194.750
3840 x 1600	59.994	395.000
3840 x 2160	25.000	297.000
3840 x 2160	29.970	296.703
3840 x 2160	30.000	297.000
3840 x 2160	50.000	594.000
3840 x 2160	59.940	593.406
3840 x 2160	60.000	594.000

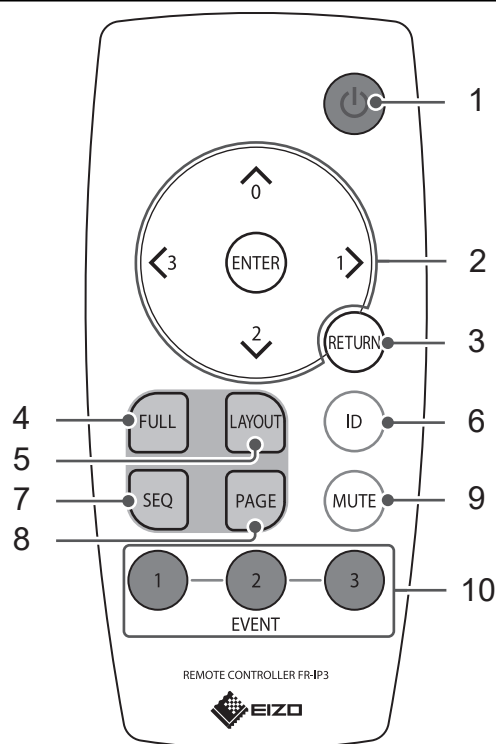
Attention

- If two monitors with different resolutions are connected, the resolution will be set to the monitor connected to HDMI 1.
 - When a monitor with a resolution of 3840 x 2160 is connected to HDMI 1 and a monitor with a resolution of 1920 x 1080 is connected to HDMI 2, a 3840 x 2160 signal is output from HDMI 1, but no signal is output from HDMI 2.
 - When a monitor with a resolution of 1920 x 1080 is connected to HDMI 1 and a monitor with a resolution of 3840 x 2160 is connected to HDMI 2, a signal of 1920 x 1080 resolution is output from both HDMI 1 and HDMI 2.
- When all of the following conditions are met, the refresh rate is limited to maximum 30 Hz.
 - Two monitors are connected
 - "Resolution" is "3840x2160"
 - "Multi-Monitor" is "Extended"
 - "Orientation" is "Portrait"

9.4 Remote Control Specifications

Note

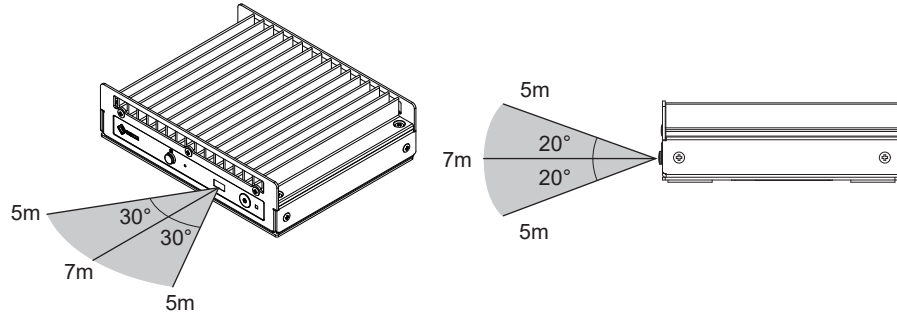
- The remote control is a separately sold optional accessory.



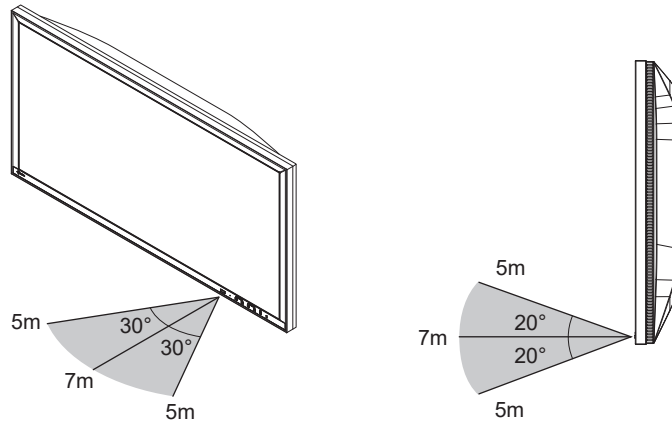
Name	Description
1. Power button	Turns the power on or off.
2. 0, 1, 2, 3, ENTER	Used to move items and operate cameras.
3. RETURN	Returns to the previous menu status when performing a menu operation.
4. FULL	Displays/hides the menu of the live image screen.
5. LAYOUT	Changes the live image screen layout. Switches the layout each time when pressed.
6. ID	When the display ID setting on the remote control is on, the ID registered on the remote control and main unit is displayed on the live image screen.
7. SEQ	Turns the sequential display of camera images on or off.
8. PAGE	Changes the camera image page to display on the live image screen.
9. MUTE	Temporarily mutes the audio.
10. EVENT (1, 2, 3)	Executes the action registered on the button.

Attention

- Use the remote control within the range shown in the figure below.
 - DX0231-IP



- FDF2731W-IP



- When installing multiple units of this product, leave sufficient space between each product so that only the intended product will be operated by the remote control.
- By setting the ID of the remote control, you can operate a specific device. By default, all products that have received a signal from the remote control work the same way.
- For information on the remote control ID settings, refer to [4.15 Setting the Remote Control ID](#) [▶ 36].
- The setting screen cannot be operated using the remote control.

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