Technical Brief

EIZO IP Decoder
Functional Comparison between Generations

FDF2304W-IP
FDF4627W-IP
FDF2711W-IP
DX0211-IP

Rev. A
(2/18/2022)

Indexes

1 Overview

EIZO IP decoders are divided into the following generations. This document describes the functional differences between the generations.

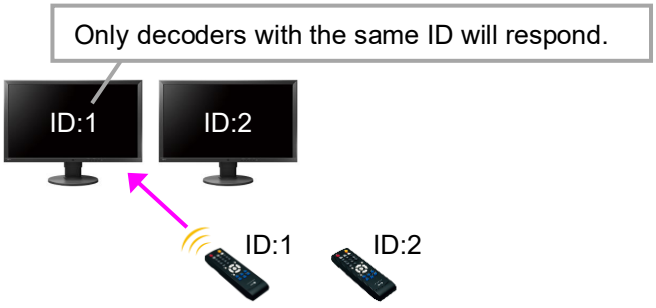
- The 1st generation: FDF2304W-IP, FDF4627W-IP
- The 2nd generation: FDF2711W-IP, DX0211-IP

Some functions of the 1st generation are not supported by the 2nd generation. Please check if the functions you are currently using are also available in the 2nd generation.

2 Functional Differences between Generations

2.1 Remote Control

For the 2nd generation, the remote control is included only with the decoder for Japan.

Function	Description	1st gen	2nd gen
Live Image Screen Operation	The live image screen can be operated with the remote control. 	✓	✓
Setting Screen Operation	The setting screen can be operated with the remote control. 	✓	
Remote Control ID	You can set the ID of the remote control and decoder. This prevents accidental operation in an environment where multiple decoders are located. 		✓

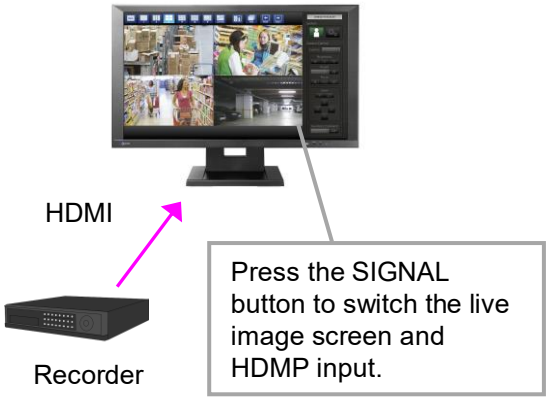
2.2 USB Storage Device

The 2nd generation decoder does not support USB storage devices (USB memory sticks).

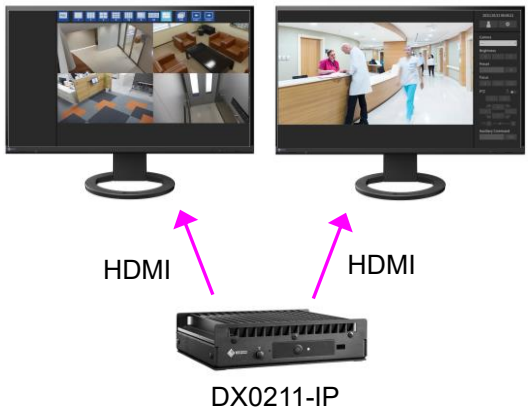
2.3 HDMI and Resolution

<table>
<tr><th>1st gen</th><th>2nd gen</th></tr>
<tr><td>HDMI input is supported.
The decoder can also be used as a display device for recorders.

FDF2301W-IP, FDF4627W-IP:
HDMI input x 1 (Maximum 1920 x 1080)

 
</td><td>HDMI output is supported.
The live image screen can be displayed on two monitors.

DX0211-IP:
HDMI output x 2 (Maximum 3840 x 2160)

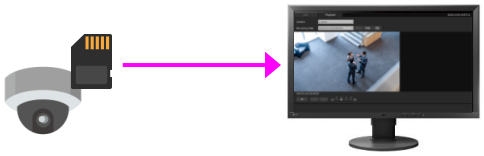
 

FDF2711W-IP:
HDMI output x 1 (Maximum 1920 x 1080)

 
</td></tr>
</table>

2.4 Display Capabilities

1st gen	2nd gen
Up to 16 cameras can be displayed simultaneously. Video codec H.264 and MJPEG[1] are supported. The reference values for the resolution and frame rate of cameras that can be displayed simultaneously are as follows: [When the bitrate is set to 4096kbps] • 1-screen layout: 1920 x 1080 / 30 fps • 4-screen layout: 1920 x1080 / 20 fps • 16-screen layout: 640 x 480 / 30 fps	Up to 32 cameras can be displayed. Video codec H.265[2], H.264 and MJPEG[1] are supported. The reference values for the resolution and frame rate of cameras that can be displayed simultaneously are as follows: [When the bitrate is set to 4096kbps] • 1-screen layout: 3840 x 2160 / 30 fps, 1920 x 1080 / 60 fps • 4-screen layout: 3840 x 2160 / 20 fps, 1920 x 1080 / 60 fps • 16-screen layout: 1920 x 1080 / 20 fps • 32-screen layout: 1280 x 720 / 15 fps

Function	Description	1st gen	2nd gen
Playback	You can play back recorded data stored on the camera's SD card. 		✓[3]
SRT	SRT is a next-generation video transmission protocol that securely, reliably, and without delay transfers streams such as H.264 and H.265 in unstable network environments like the Internet.		✓[4]
MPEG2-TS	MPEG2-TS is a standard for sending image and audio data together. The decoder extracts and displays the H.264 or H.265 images contained in the MPEG2-TS stream.		✓

[1] MJPEG is available only with the ONVIF protocol.

[2] For H.265 compatibility information, please click here.

[3] Enterprise License and Extension Playback License are required.

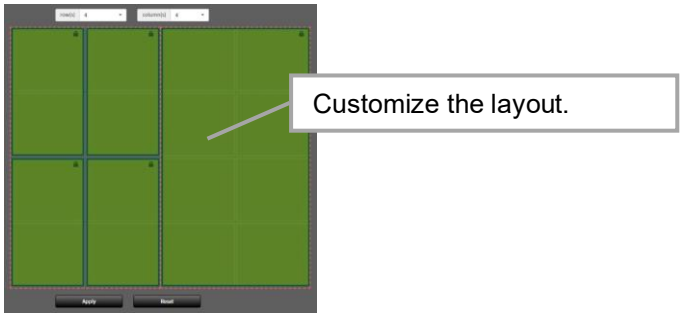
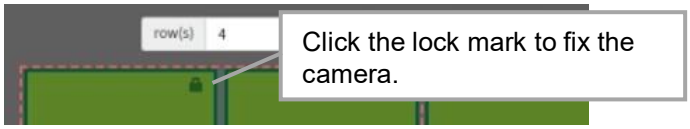
[4] Enterprise License and Extension SRT License are required.

2.5 Security

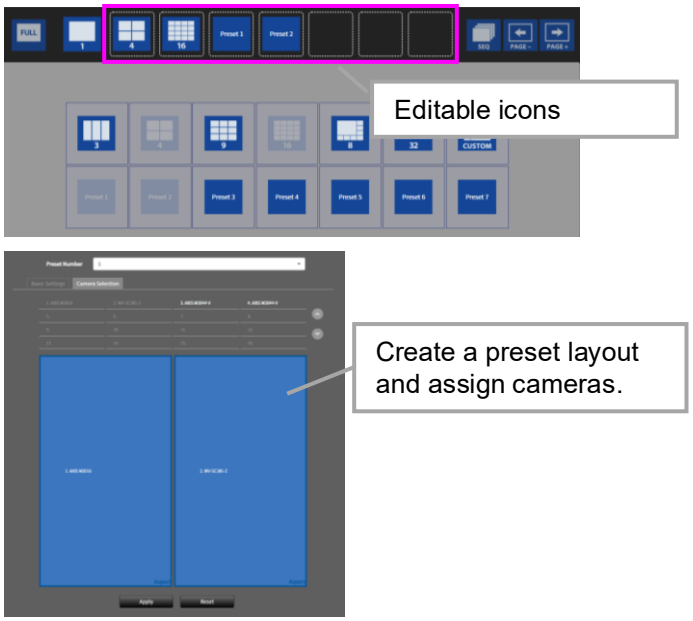
Function	Description	1st gen	2nd gen
Key Lock	Disables the buttons on the front of the decoder.	✓	✓
USB Lock	Disables the use of USB devices connected to the decoder.	✓	✓
Remote Control Lock	Disables the use of the remote control.	✓	✓
HTTPS	Encrypts communication between the decoder and other network devices (camera or computer).		✓
IP Address Filter	Restricts network devices that can access the decoder by IP address.		✓
AXIS SRTP	AXIS SRTP is AXIS's protocol for encrypted video streams.		✓[5]
LDAP	Users and passwords for decoders can be centrally managed on an LDAP server.		✓[5]
IEEE 802.1X	Enables the decoder to be connected to a network protected by IEEE 802.1X.		✓[5]

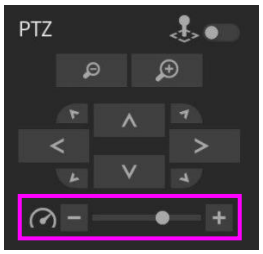
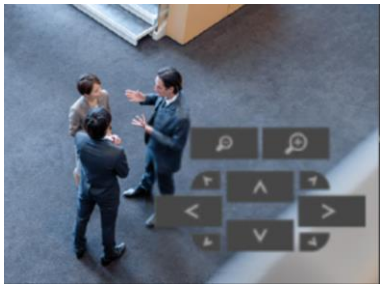
[5] Enterprise License is required.

2.6 Live Image Screen

Category	Function	Description	1st gen	2nd gen
Installation	Multi-monitor Display	Displays the screen on two monitors. Extended:  Duplicate: 		✓
	Portrait Display	Right rotation (90°) and left rotation (270°) are possible. Multi-monitor display is supported.		✓[6]
Layout	Custom Screen	You can customize the layout of the custom screen.  	✓	✓
	Fixing Camera Position	Fixes the camera so that it always appears in the same position, regardless of page switching. This is available for the custom screen only. 		✓

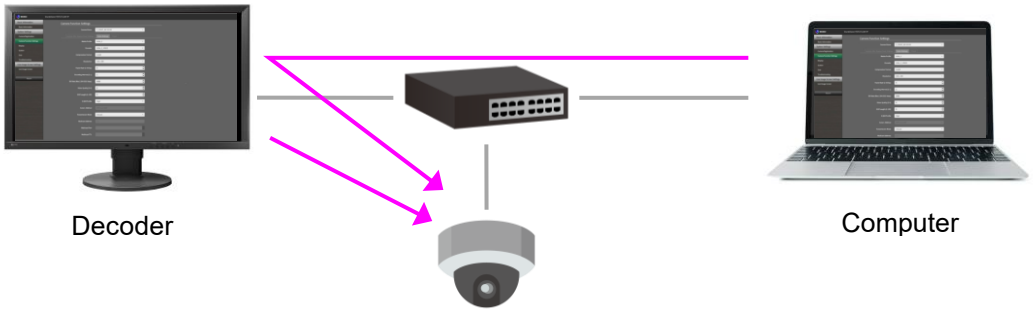
[6] Enterprise License is required.

	Icon Arranger	Rearranges and removes the layout icons. You can also create up to seven preset layouts and display their icons. 		✓[6]
Camera image	Camera Name Display	Displays the camera name in the upper left of the image.	✓	✓
	Camera Name Customization	Changes the camera name size, color (White / Black), border, background, and position (Upper left / Upper right / Lower left / Lower right).		✓
	Visibility Optimizer Function	Makes the camera image easier to view by the outline enhancement, low-light correction and noise reduction.	✓	
	Privacy Mask / Virtual Line	Displays privacy masks and virtual lines on camera images. 		✓
Camera PTZ	PTZ Operation	Operates the PTZ (pan/tilt/zoom) of the camera.	✓	✓
	Position Adjustment by Mouse	When you click the camera image with the mouse, panning and tilting work so that the place you clicked is centered.	✓	

	PTZ Adjust	You can adjust the amount of change when performing pan, tilt, and zoom. 		✓
	Overlay Display of PTZ Operation Screen	When you move the mouse cursor over the camera image, the PTZ operation screen will appear. 		✓
Auxiliary Command	Camera Auxiliary Command	Execute auxiliary commands of the camera to operate their wipers and infrared functions.	✓	✓
	Sending HTTP Command	You can use the auxiliary command on the live screen to send HTTP commands to other network devices. You can also execute the decoder's own Web API.		✓
Input Device	Remote Control	Operates the live image screen.	✓	✓
	Mouse	Operates the live image screen.	✓	✓
	Keyboard	Used for text input instead of a software keyboard. You can also use shortcut keys such as the L key to switch the layout.		✓
	Joystick	Operates the camera's PTZ. Only AXIS T8311 joystick is supported.		✓

2.7 Camera Function Settings

In the 2nd generation, you can change the camera's functional settings from either the decoder or the browser.



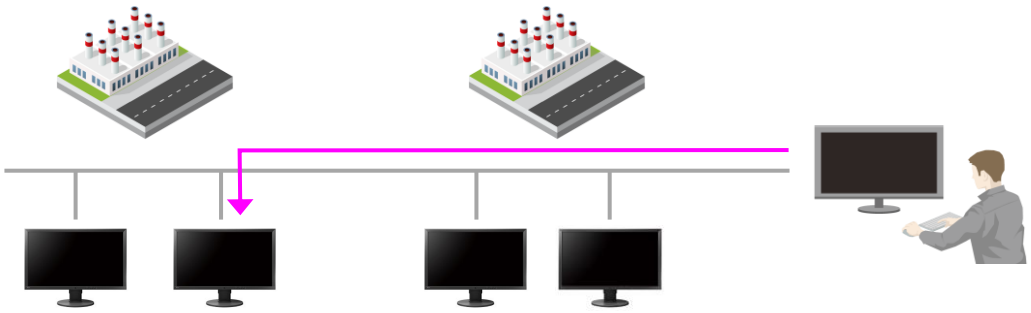
Protocol	Camera Function Settings	1st gen		2nd gen	
		Decoder	Browser	Decoder	Browser
Panasonic	Clock Settings	✓		✓	✓
	Video Settings	✓		✓[7]	✓[7]
	Preset	✓			
	Other	✓		✓	✓
AXIS	Clock Settings	✓		✓	✓
	Video Settings	✓		✓	✓
	Preset				
	Other				
ONVIF	Clock Settings	✓		✓	✓
	Video Settings	✓		✓	✓
	Preset	✓			✓
	Other				

[7] The Aspect Ratio is not supported. The Resolution is read-only.

2.8 Management of Decoders in Remote Locations

2.8.1 Decoder Management Using Browser

The ability to configure decoders using a browser has been added to the 2nd generation. This is useful for troubleshooting decoders in remote locations.



Function	Description	1st gen	2nd gen
Settings Data Migration	Saves settings information to a file. In addition to backup purposes, when multiple decoders are installed, after setting one decoder, the same settings information can be loaded into other decoders.	✓	✓
Displaying Logs	Displays the operation log and system log.	✓	✓
Saving Logs	Saves the operation log and system log to a file.	✓	✓
Connection Confirmation	Executes the ping and traceroute commands for the registered cameras.		✓
Software Update	Updates the decoder's software.	✓	✓
License Activation	Authenticates the decoder with an enterprise license or function extension license to add available functions.		✓
Livestream View	Displays the decoder's live image screen in your browser. If there is a problem with a remote decoder, you can check what is displayed on the live screen.		✓[8]
Refreshing Status of Video Stream	Refreshes the camera image on the live screen. When you execute a stream refresh, the decoder will reconnect to the camera. Executing it when the camera image shows an error may improve the situation.		✓

[8] Enterprise License is required.

2.8.2 Decoder Management Using Software

Software	Description	1st gen	2nd gen
EIZO IP Decoder Utility	EIZO IP Decoder Utility is software for managing EIZO decoders. • Software update and license activation for multiple decoders on a network can be performed at once. • Creates a diagnostic report for the decoder. The diagnostic report is used by EIZO to analyze the problem, and users cannot view the contents.		✓
EIZO Video Wall Plugin for Milestone XProtect	EIZO Video Wall Plugin is a plugin for managing EIZO decoders through Milestone XProtect VMS. • Decoders on the network can be centrally managed from the VMS. • You can build video walls with multiple decoders to display the camera images.		✓[9]
Third-party SNMP Monitoring Software (SNMP Manager)	Simple Network Management Protocol (SNMP) is a communication protocol for monitoring and controlling devices connected to a network. EIZO decoders work as an SNMP agent and can be monitored using an SNMP manager.		✓

2.9 Other Functions

Function	Description	1st gen	2nd gen
Web API	Web API is an API (Application Programming Interface) accessed using the HTTP protocol. EIZO Decoders provide APIs to get and changes the decoder settings for network devices and third-party software.	✓	✓
Event Rules	When a specified event occurs, the decoder sends HTTP commands to other network devices. You can also execute the decoder's own Web API.		✓
Failover	Failover is a function that is expected to be used with VMS. When a decoder with the failover function enabled is unable to communicate with the server, it connects directly to the camera registered for failover to display the image.		✓[10]

[9] Each decoder requires an Enterprise License.

[10] Enterprise License and Extension Failover License are required.

