

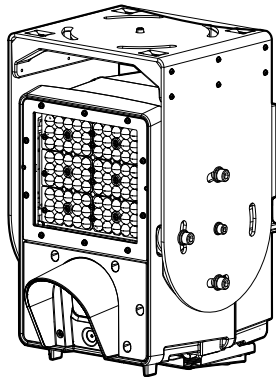
# ∴PRO

## Basic Information

### Network Camera

Model No.

# WV-X5550LT WV-X5550LTPJ



#### About the user manuals

Product documentation is composed of the following documents.

- **Installation Guide (accessory):** Provides information about “Precautions”, “Precautions for installation” and the installation method
- **Basic Information (this document):** Provides information about “Precautions for use” and “Detail specifications”.
- **Operating Instructions (in the following website):** Explains how to perform the settings and how to operate this camera.

<https://i-pro.com/global/en/surveillance/training-support/support/library/vcc>

"<Control No.: C\*\*\*\*>" used in these documents should be used to search for information on our support website (<https://i-pro.com/global/en/surveillance/training-support/support/technical-information>) and will guide you to the right information.

- WV-X5550LT and WV-X5550LTPJ have the same capabilities and functions.
- The external appearance and other parts shown in this manual may differ from the actual product within the scope that will not interfere with normal use due to improvement of the product.
- The model number is abbreviated in some descriptions in this manual.

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- (7) LOSS OF REGISTERED DATA CAUSED BY ANY FAILURE (INCLUDING INITIALIZATION OF THE PRODUCT DUE TO FORGOTTEN AUTHENTICATION INFORMATION SUCH AS A USER NAME AND PASSWORD).

# System requirements for a PC

CPU:	Intel® Core™ Processor family *1 - Intel® Core™ i7-6700 or faster recommended
Memory:	8 GB (4 GB x 2, Dual Channel) or more recommended.
Network interface:	10BASE-T/100BASE-TX 1 port
Monitor:	Image capture size: 1024 x 768 pixels or more Color: 24-bit True color or better
OS:	Microsoft Windows 10 Microsoft Windows 8.1
Web browser:	Internet Explorer 11 (32-bit)
Others:	Adobe® Reader® or Acrobat® Reader® (It is necessary to view the PDF file.)

\*1 In order to view camera images with Internet Explorer, we recommend using the hardware decode function. For details, refer to our support website <Control No.: C0313>.

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## **IMPORTANT:**

- For information on the operation verification of the supported operating systems and web browsers, refer to our support website <Control No.: C0104, C0122>.
  - When using a PC that does not meet the above requirements, displaying of images may become slower or the web browser may become inoperable.
  - When using Microsoft Windows 8.1, use it in the desktop. The software cannot be used in the Modern UI design.
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# Network security

As you will use this unit connected to a network, your attention is called to the following security risks.

- ① Leakage or theft of information through this unit
- ② Use of this unit for illegal operations by persons with malicious intent
- ③ Interference with or stoppage of this unit by persons with malicious intent

It is your responsibility to take precautions such as those described below to protect yourself against the above network security risks.

- Use this unit in a network secured by a firewall, etc.
- If this unit is connected to a network that includes PCs, make sure that the system is not infected by computer viruses or other malicious entities (using a regularly updated anti-virus program, anti-spyware program, etc.).
- To prevent unauthorized access, use user-authentication, set user names and passwords, and limit which users can log in.
- Apply measures such as user authentication to protect your network against leakage or theft of information, including image data, authentication information (user names and passwords).
- After the unit is accessed by the administrator, make sure to close the browser.
- Change the administrator password periodically. Additionally, save user authentication information (user names and passwords) in such a way that it is kept out of the hands of third parties.
- Do not install the camera in locations where the camera or the cables can be destroyed or damaged by persons with malicious intent.

# Precautions for use

## **When the product is accessible from the Internet**

To prevent unauthorized access, note the following.

- Leave user authentication turned on.
- Periodically change passwords that are used to access the product.

Refer to the Operating Instructions for information about how to change passwords.

## **To keep on using with stable performance**

Do not use this product in hot and humid conditions for a long time. Failure to observe this causes component degradation resulting in life shortening of this product. Do not expose this product to direct heat sources such as a heater.

## **Turning the power supply ON and OFF frequently can lead to malfunctions.**

### **Handle this product with care.**

Do not drop this product, nor apply shock or vibration to the product. Failure to observe this may cause trouble.

### **Do not subject front panels to strong impact.**

Doing so may cause damage or immersion.

### **Do not touch the front panels with your bare hands.**

A dirty front panel causes deterioration of picture quality.

### **When an error is detected, this product will restart automatically.**

This product will be inoperable for around 2 minutes after the restart just as when the power is turned on.

### **About the automatic status detection function**

When this product malfunctions due to exogenous noise, etc. for 30 seconds or more, the product will automatically reset and will return to normal state. When the product is reset, initialization will be carried out as when the power of the product is turned on. When the product repeatedly resets, exogenous noise level around the product may be high and that may cause malfunction. Contact your dealer for instructions.

## **Periodically images on the screen appear to be distorted**

When the camera is installed in a location where it is subject to small vibrations (for example, when it is installed near devices that vibrate), images may appear distorted and stretched lengthways. This phenomenon is a characteristic of image pickup devices that use CMOS sensors and is caused by the relationship between the periodic movements of the camera and the timing that the image sensor reads images. This is not a problem with the camera. To reduce the possibility of this phenomenon occurring, install the camera in a secure location.

## **About the CMOS image sensor**

- When continuously shooting a bright light source such as a spotlight, the color filter of the CMOS image sensor may become deteriorated and this may cause discoloration. Even when changing the fixed shooting direction after continuously shooting a spotlight for a certain period, the discoloration may remain.
- When shooting fast-moving subjects or objects crossing the shooting area may look to be bending askew.

## **Cleaning this product body**

Be sure to turn off the power before cleaning. Failure to observe this may cause injury.

Do not use benzene, thinner, alcohol, or any other types of solvents or detergents. Otherwise, it may cause discoloration. When using a chemical cloth for cleaning, read the caution provided with the chemical cloth product.

- Do not loosen or remove screws unless instructed to do so in the product documentation.

## **Cleaning of the front panel**

Use lens cleaning paper (used to clean camera or spectacles lenses) to remove any dirt on the front panel. If dust or the like is adhered at this time, the front panel may get scratched. We recommend rinsing for stubborn stains.

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## Product disposal/transfer

Data saved on this product or a storage device used with this product may lead to personal information leakage. When it is necessary to dispose or give this product to someone, even when for repair, make sure that there is no data on this product.

When abandoning the memory media, it is recommended to destroy it physically after deleting data by PC.

## Heater unit

This product is equipped with an internal heater unit for use in cold climates. The heater unit turns on automatically when the temperature inside the product drops below around 20 °C{68 °F}.

When this product is installed and operated in low temperatures below -20 °C{-4 °F}, it may require time to start up since the camera will wait to be warmed up internally by the internal heater right after the power is turned on.

Also, the camera may not function properly, if it is installed and operated in an environment where the temperature is below -25 °C {-13 °F}. In such a case, wait approximately 2 hours or more until the camera is warmed up. Then, turn on the power again.

As the camera warms up, snow or frost accumulated on the dome cover will melt. However, it may not be defrosted from the cover depending on the ambient temperature or weather condition.

## Effects on images and image quality

Under the following conditions, image quality may deteriorate or images may become difficult to see.

- When there are raindrops on the front panel due to wind during rainfall.
- When there is snow on the front panel due to wind during snowfall (varies depending on the amount and quality of snowfall).
- When there are raindrops or snow on the front windscreen of vehicles.
- When the front panel is dirty due to dust in the air or vehicle exhaust.

## Effects on images due to the tilt of the front windscreens

When the shape of the front windscreen is upright in regards to the road such as with a bus or truck, it may be difficult to see the interior of vehicles.

## About the effects of sunlight and lighting

When sunlight or other lighting reflects off the front glass, roof, or bumper of a car directly into the lens of the camera, it may not be able possible to view images of inside the car.

## About the day mode and night mode

The camera has a built-in polarizing filter used by day mode and a bandpass filter used by night mode that can be switched automatically.

- Day mode polarizing filter (reduces reflected light from front glass or number plates)
- Night mode bandpass filter (reduces visible radiation from headlights, etc. when using IR lights)

When the mode switching is set to Auto, pictures may become temporarily difficult to view when switching modes.

## Router

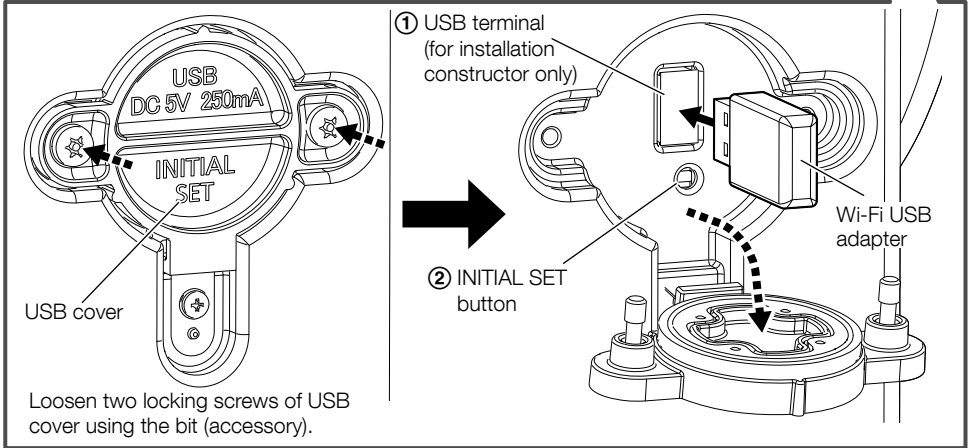
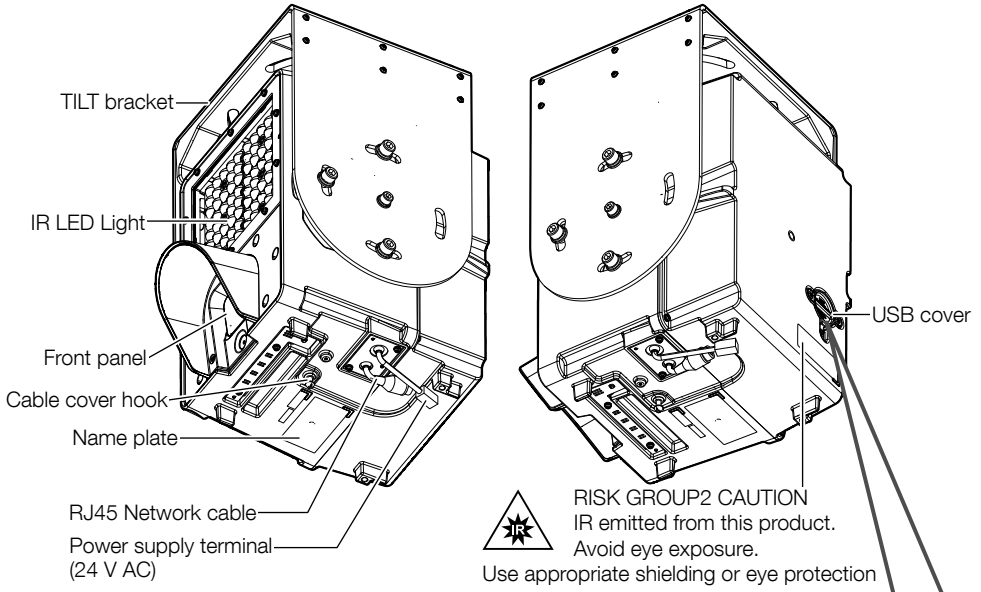
When connecting this product to the Internet, use a broadband router with the port forwarding function (NAT, IP masquerade).

Refer to the Operating Instructions for further information about the port forwarding function.

## Time & date setting

It is necessary to set the time & date before putting this product into operation. Refer to the Operating Instructions for descriptions of how to perform the settings.

# Parts and functions



## ① USB terminal (for installation constructor only)

Use to adjust the angle of view at the time of installation.  
 For how to use, refer to the supplied "Installation Guide".  
 Maximum supply current: 250 mA (DC 5 V)

## ② INITIAL SET button

Follow the steps below to initialize the network camera.

(1) Turn off the power of the camera.

Disconnect the 24 V AC power supply connector from the power supply terminal (24 V AC).



- (2) Turn on the power of the camera while pressing the INITIAL SET button, and make sure to release the button after approximately 15 seconds. In about 2 minutes later, the camera will start up and the settings including the network settings will be initialized. Retry if the camera does not start up normally.

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**IMPORTANT:**

- When the camera is initialized, the settings including the network settings will be initialized. Before initializing the settings, it is recommended to write down the settings in advance.
  - Do not turn off the power of the camera during the process of initialization. Otherwise, it may fail to initialize and may cause malfunction.
-

# Troubleshooting

**Before asking for repairs, check the symptoms with the following table.**

Contact your dealer if a problem cannot be solved even after checking and trying the solution in the table or a problem is not described below.

Symptom	Cause/solution	Reference pages
<b>Power is not turned on.</b>	<ul style="list-style-type: none"> <li>Is the power cable appropriately connected with a power supply that matches the specifications of the camera? Check whether the connection is appropriately established.</li> <li>Is the connector housing appropriately attached to the camera? Check whether it is appropriately attached.</li> </ul>	Installation Guide
<b>The power cable's cover is damaged.</b>	<ul style="list-style-type: none"> <li>The power cable or terminal is damaged. Continuing to use the power cable or terminal in this condition may cause electric shock or fire. Turn the power off at the main power supply immediately and contact qualified service personnel for service.</li> </ul>	-
<b>The power cable or part of the terminal is hot during use.</b>		
<b>If the power cable is bent or stretched during use, it may become warm.</b>		
<b>The live camera images are not displayed.</b>	<ul style="list-style-type: none"> <li>Is the Ethernet cable connected appropriately? Connect the Ethernet cable appropriately.</li> <li>Is the hub or router connected to the camera operating appropriately? Check if the hub or router in use is operating appropriately.</li> <li>Isn't the Ethernet cable connected to the camera broken? Replace the cable with another one.</li> </ul>	Installation Guide
<b>Images from the camera are black and white.</b>	<ul style="list-style-type: none"> <li>This is not a malfunction. The camera is a black and white camera.</li> </ul>	-
<b>The screen is dark when viewing images at night.</b>	<ul style="list-style-type: none"> <li>Is the IR LED lit? When viewing the camera using the camera of a smartphone or tablet, does the IR LED part appear to be lit in white? If it does not appear to be lit in white, the IR LED is not lit.</li> <li>Is the [IR LED Light] setting of the camera off in the software settings? Set it to on.</li> </ul>	Operating Instructions
<b>The interior of vehicles is dark when viewing images in the day time.</b>		

Symptom	Cause/solution	Reference pages
<p><b>Part of the screen is lit in white.</b></p>	<ul style="list-style-type: none"> <li>• The IR from the camera reflects off reflective objects (near walls or white reflective objects) and makes part of the screen appear white. Install the camera after checking if there are any reflective objects near the camera. Change the area or angle of the camera so that it does not receive interference.</li> <li>• Is IR LED light from a nearby WV-X5550LT affecting camera images? Turn off the IR LED light for the WV-X5550LT and check if there are any changes in the screen. If the WV-X5550LT is affecting camera images, take measures such as installing it in another location.</li> </ul>	<p>–</p>
<p><b>The auto focus does not focus.</b></p>	<ul style="list-style-type: none"> <li>• With the following locations or subjects, the auto focus may not be able to adjust the focus. In this case, adjust the focus manually. <ul style="list-style-type: none"> <li>• when there are large changes to the lighting intensity</li> <li>• when the subject or location is extremely bright or reflective</li> <li>• when the front panel is in a location where it can easily become dirty</li> <li>• when there is harsh flickering</li> </ul> </li> </ul>	<p>Operating Instructions</p>

# Detail specifications

## • Basic

Power source *1:	AC 24 V (50 Hz/60 Hz)
Power consumption *1:	AC 24 V : 3.8 A / Approx. 68 W
Operating environment	
Ambient operating temperature:	-40 °C to +60 °C {-40 °F to +140 °F} (Power On range: -20 °C to +60 °C {-4 °F to +140 °F})
Ambient operating humidity:	10 % to 100 % (no condensation)
Storage environment	
Storage temperature:	-30 °C to +60 °C {-22 °F to +140 °F}
Storage humidity:	10 % to 95 % (no condensation)
Waterproof *2:	IP66 (IEC 60529), Type 4X (UL50E) NEMA 4X compliant
Shock resistance:	IK10 (IEC 62262) (Except for front panels)
Wind resistance:	Up to 40 m/s {approx. 89 mph}
Dimensions:	<b>Ceiling mount:</b> 303 mm {11-15/16 inches} (W), 475 mm {18-11/16 inches} (H), 368 mm {14-1/2 inches} (D) <b>Pole mount:</b> 303 mm {11-15/16 inches} (W), 396 mm {15-19/32 inches} (H), 458 mm {18-1/32 inches} (D) <b>Stationary mount:</b> 303 mm {11-15/16 inches} (W), 440 mm {17-5/16 inches} (H), 368 mm {14-1/2 inches} (D)
Mass:	<b>Main body:</b> Approx. 11.5 kg {25.39 lbs} <b>With TILT bracket:</b> Approx. 16.0 kg {35.32 lbs}
Finish:	<b>Main body:</b> Aluminum die cast, Silver, Glass and Polycarbonate resin, Clear <b>Outer fixing screws:</b> Stainless steel (Corrosion-resistant treatment) <b>TILT bracket:</b> Aluminum plate and Aluminum die cast, Silver

\*1 Refer to our support website <Control No.: C0106> for further information about Power source and Power consumption information.

\*2 Only when installation work is properly performed according to the Installation Guide and appropriate waterproof treatment is performed.

## • Camera

Image sensor:	Approx. 2/3 type CMOS image sensor
Effective pixels:	Approx. 5.1 megapixels
Scanning area:	8.45 mm (H) × 6.62 mm (V) {11/32 inches (H) × 1/4 inches (V)}
Scanning system:	Progressive, Global shutter
Intelligent auto:	On/ Off
Multi-sampling dynamic range:*1	120dB typ
Maximum gain:	The level can be set in the range of 0 to 11.
Auto contrast adjust:	On/ Off
Adaptive black stretch:	The level can be set in the range of 0 to 255.
Back light compensation (BLC) / High light compensation (HLC):	BLC/ HLC/ Off
Light control mode setting:	The level can be set in the range of 0 to 31. (only when Intelligent auto: Off)
Shutter speed:	Outdoor scene/ Fix shutter <b>[15 fps/30 fps mode]</b> 1/30 Fix, 1/60 Fix, 1/120 Fix, 1/250 Fix, 1/500 Fix, 1/1000 Fix, 1/1500 Fix, 1/2000 Fix, 1/3000 Fix, 1/4000 Fix, 1/10000 Fix <b>[12.5 fps/25 fps mode]</b> 1/25 Fix, 1/50 Fix, 1/100 Fix, 1/250 Fix, 1/500 Fix, 1/1000 Fix, 1/1500 Fix, 1/2000 Fix, 1/3000 Fix, 1/4000 Fix, 1/10000 Fix
Maximum shutter:	<b>[15 fps/30 fps mode]</b> Max. 1/10000 s, Max. 1/4000 s, Max. 1/3000 s, Max. 1/2000 s, Max. 1/1500 s, Max. 1/1000 s, Max. 1/500 s, Max. 1/250 s, Max. 1/120 s, Max. 1/60 s, Max. 1/30 s <b>[12.5 fps/25 fps mode]</b> Max. 1/10000 s, Max. 1/4000 s, Max. 1/3000 s, Max. 1/2000 s, Max. 1/1500 s, Max. 1/1000 s, Max. 1/500 s, Max. 1/250 s, Max. 1/100 s, Max. 1/50 s, Max. 1/25 s
Day/Night:*2	Auto*/ Day/ Night * The level can be set in the range of 0 to 9.
IR LED Light:	On/ Off
Digital noise reduction:	The level can be set in the range of 0 to 255.

\*1 2 types of images, images of driver's face (source 1) and images of number plates (source 2), are output from the camera at the same time. This specification is the maximum exposure ratio of source 1 and source 2.

\*2 The output from the camera is a black and white signal. Use a polarizing filter when using day mode and use an bandpass filter when using night mode.

• **Lens**

Zoom ratio:      Optical zoom	1.7x (Motorized zoom / Motorized focus)
Focal length:	51 mm – 85 mm {2-9/16 inches – 3-11/32 inches}
Maximum aperture ratio:	1:1.6
Focus range:	25 m±5 m
Aperture range:	F1.6 – T405
Angular field of view:	[4:3 mode] Horizontal: 5.5° (TELE) – 9.2° (WIDE) Vertical: 4.4° (TELE) – 7.3° (WIDE)
Adjusting angle:	Horizontal (PAN) angle: ±17° (can be adjusted with the installation angle of the TILT bracket) Vertical (TILT) angle: ±10° Azimuth (YAW) angle: None

• **Network**

Network:	10BASE-T/100BASE-TX, RJ45 connector
Resolution:	H.265/ H.264 <b>Dual sources [4:3] (15fps mode) /  Dual sources [4:3] (12.5fps mode) /  Single source[4:3] (30fps mode) /  Single source[4:3] (25fps mode)</b> 2560×1920/ 1600×1200/ 1280×960/ VGA JPEG (MJPEG) 1280×960/ VGA
Image compression method *1:	H.265/ H.264 <b>Transmission priority:</b> VBR/ Frame rate <b>Frame rate:</b> <b>[30 fps mode]</b> <ul style="list-style-type: none"> <li>• Stream1: 30 fps*</li> <li>• Stream2: 1 fps*/ 3 fps*/ 7.5 fps*/ 10 fps*/ 15 fps*/ 30 fps*</li> </ul> <b>[25 fps mode]</b> <ul style="list-style-type: none"> <li>• Stream1: 25 fps*</li> <li>• Stream2: 1 fps*/ 3.1 fps*/ 6.25 fps*/ 8.3 fps*/ 12.5 fps*/ 25 fps*</li> </ul> <b>[15 fps mode]</b> <ul style="list-style-type: none"> <li>• Stream1: 15 fps*</li> <li>• Stream2: 1 fps*/ 3 fps*/ 7.5 fps*/ 10 fps*/ 15 fps*</li> </ul> <b>[12.5 fps mode]</b> <ul style="list-style-type: none"> <li>• Stream1: 12.5 fps*</li> <li>• Stream2: 1 fps*/ 3.1 fps*/ 6.25 fps*/ 8.3 fps*/ 12.5 fps*</li> </ul> (The frame rate is limited to “bit rate”. When a value with an asterisk (*) is selected, the actual frame rate may be lower than the value selected.) <b>Bit rate per client:</b> 64 kbps/ 128 kbps*/ 256 kbps*/ 384 kbps*/ 512 kbps*/ 768 kbps*/ 1024 kbps*/ 1536 kbps*/ 2048 kbps*/ 3072 kbps*/ 4096 kbps*/ 6144 kbps*/ 8192 kbps*/ 10240 kbps*/ 12288 kbps*/ 14336 kbps*/ 16384 kbps*/ 20480 kbps*/ 24576 kbps*/ --FREE ENTRY-- (The available range of the bit rate varies depending on the setting selected for “image capture size”). <b>Image quality:</b> <ul style="list-style-type: none"> <li>• For “Frame rate”:  Low(Motion priority)/ Normal/ Fine(Image quality priority)</li> <li>• For “VBR”:  0 Super fine/ 1 Fine/ 2/ 3/ 4/ 5 Normal/ 6/ 7/ 8/ 9 Low</li> </ul> JPEG (MJPEG) <b>Transmission type:</b> PULL (Refresh Interval)/ PUSH (MJPEG) <b>Refresh interval:</b> <b>[30 fps mode]</b> 0.1 fps/0.2 fps/0.33 fps/0.5 fps/ 1 fps/3 fps/5 fps/ 10 fps/ 15 fps/ 30 fps <b>[25 fps mode]</b> 0.08 fps/0.17 fps/0.28 fps/0.42 fps/ 1 fps/3.1 fps/4.2 fps/5 fps/ 8.3 fps/ 12.5 fps/ 25 fps <b>[15 fps mode]</b> 0.1 fps/0.2 fps/0.33 fps/0.5 fps/ 1 fps/3 fps/5 fps/ 10 fps/ 15 fps <b>[12.5 fps mode]</b> 0.08 fps/0.17 fps/0.28 fps/0.42 fps/ 1 fps/3.1 fps/4.2 fps/ 8.3 fps/ 12.5 fps (JPEG frame rates are limited when using JPEG and H.265/H.264 simultaneously.)

Bandwidth control:	Unlimited/ 64 kbps/ 128 kbps/ 256 kbps/ 384 kbps/ 512 kbps/ 768 kbps/ 1024 kbps/ 2048 kbps/ 4096 kbps/ 6144 kbps/ 8192 kbps/ 10240 kbps/ 12288 kbps/ 15360 kbps/ 20480 kbps/ 25600 kbps/ 30720 kbps/ 35840 kbps/ 40960 kbps/ 51200 kbps/ 61440 kbps
Protocol:	IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, DNS, NTP, DHCPv6, RTP, MLD, ICMP, ARP IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, DHCP, DNS, NTP, IGMP, ICMP, ARP
Security:	User authentication / Host authentication / HTTPS
OS *2:	Microsoft Windows 10 Microsoft Windows 8.1
Browser *2:	Internet Explorer 11 (32-bit)
Maximum concurrent access number:	14* (Number of sessions that can connect to cameras at the same time) * Depends on network conditions
Mobile terminal/Tablet terminal compatibility:	iPad / iPhone (iOS 10 or later), Android™ mobile terminals

\*1 Transmission for 2ch-2streams can be individually set.

\*2 For information on the operation verification of the supported operating systems and web browsers, refer to our support website <Control No.: C0104, C0122>.



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