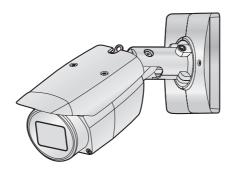
:::·PRO

Basic Information

Network Camera

Model No. WV-S1572L WV-S1552L



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/documentation_database

"<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.

- SDXC/ SDHC/ SD memory card is described as SD memory card.
- 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.



Contents

Limitation of liability	3
Disclaimer of warranty	
About notations	4
System requirements for a PC	
Network security	
Precautions for use	
Parts and functions	
Troubleshooting	
Detail specifications	
•	

Limitation of liability

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- (4) INCONVENIENCE OR ANY LOSS ARISING WHEN IMAGES ARE NOT DISPLAYED, DUE TO ANY REASON OR CAUSE INCLUDING ANY FAILURE OR PROBLEM OF THE PRODUCT;
- (5) ANY PROBLEM, CONSEQUENTIAL INCONVENIENCE, OR LOSS OR DAMAGE, ARISING OUT OF THE SYSTEM COMBINED BY THE DEVICES OF THIRD PARTY;
- (6) ANY CLAIM OR ACTION FOR DAMAGES BROUGHT BY ANY PERSON OR ORGANIZATION AS A PHOTOGRAPHED SUBJECT DUE TO VIOLATION OF PRIVACY CONCERNING A SURVEILLANCE CAMERA'S PICTURE OR SAVED DATA, FOR SOME REASON (INCLUDING USE WHEN USER AUTHENTICATION ON THE AUTHENTICATION SETTING SCREEN IS SET TO OFF), BECOMING PUBLIC OR BEING USED FOR ANY PURPOSE;
- (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).

About notations

The following notations are used when describing the functions limited for specified models. The functions without the notations are supported by all models.



The functions with this notation are available when using the model WV-S1572L. The functions with this notation are available when using the model WV-S1552L.

System requirements for a PC

CPU:	Intel [®] Core TM Processor family *1 - Intel [®] Core TM i5-6500 or faster - Intel [®] Core TM i7-6700 or faster recommended
Memory:	4 GB (2 GB x 2, Dual Channel) or more recommended.
Network interface:	10BASE-T/100BASE-TX 1 port
Audio interface:	Sound card (when using the audio function)
Monitor:	Image capture size: 1024 x 768 pixels or more
	High-resolution monitoring: 3840 x 2160 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)
	Microsoft Edge
	Firefox
	Google Chrome TM
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>.

- 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.
- Audio may not be heard if a sound card is not installed on a PC. Audio may be interrupted depending on the network environment.
- When using Microsoft Windows 8.1, use it in the desktop. The software cannot be used in the Modern UI design.

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), alarm mail information and DDNS server information.
- 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.

Usage such as switching the power ON/OFF frequently could lead to failure of the camera.

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 cover to strong impact.

Doing so may cause damage or immersion.

Do not touch the front panel and lens surface directly with your bare hands.

A dirty front panel or lens 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

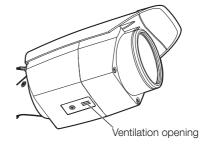
When this product malfunctions due to exogenous noise, etc. for 30 seconds or more, the product will automatically restart and will return to normal state. When the product is restart, initialization will be carried out as when the power of the product is turned on. When the product repeatedly resets, 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 ventilation opening

There is a ventilation opening on the bottom surface of the camera. Do not block the surface as internal humidity is discharged through this ventilation opening. Water does not come inside.



What to do if "WARMING UP-PLEASE WAIT" appears on the display.

This message indicates that the temperature inside the camera has become extremely low. The camera will be automatically restarted when the inside the camera is warmed up by the built-in heater. Please wait for a while.

We shall not be liable for content compensation, losses of recorded or edited content and any direct or indirect consequent damages caused by failure to record or edit due to faults with this unit or the SD memory card. In addition, the same provisions apply after unit is reparied.

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 benzine, 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 loozen or remove screws unless instructed to do so in the product documentation.

Cleaning the lens

Use a lens cleaning paper (used to clean camera lenses or lenses of spectacles). When using solvent, use an alcohols solvent and do not use a glass cleaner or a thinner.

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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SEE HTTP://WWW.MPEGLA.COM

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.

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 the front panel is dirty due to dust in the air or vehicle exhaust.

Router

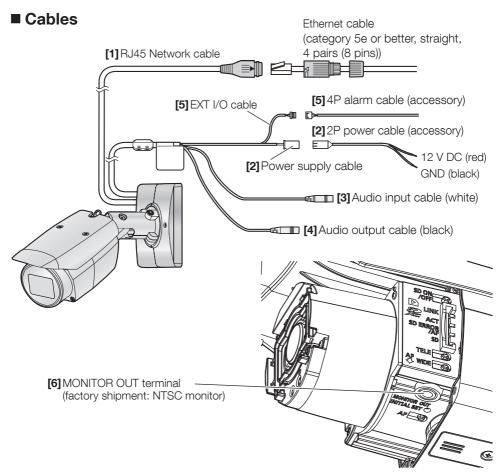
When connecting this product to the Internet, use a broadband router with the port forwarding function (NAT, IP masquerade).

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] RJ45 Network cable

Connect an Ethernet cable (category 5e or better, straight, 4 pairs (8 pins)) to the network connector.

- Use all 4 pairs (8 pins) of the Ethernet cable.
- The maximum cable length is 100 m {328 feet}.
- Make sure that the PoE device in use is compliant with IEEE802.3af standard.
- When connecting both the 12 V DC power supply and the PoE device for power supply, 12 V DC will be used for power supply.
- When the Ethernet cable is disconnected once, reconnect the cable after around 2 seconds. When the cable is quickly reconnected, the power may not be supplied from the PoE device.

[2] Power supply cable / 2P power cable (accessory)

Connect the output cable of the DC power supply to the 2P power cable.

IMPORTANT:

- Be sure to use the 2P power cable provided with this product.
- Be sure to fully insert the 2P power cable into the power supply cable. Otherwise, it may damage the camera or cause malfunction.
- When installing the camera, make sure that excessive force is not applied to the power cable.
- Be sure to use an AC adaptor compliant with the Specifications (written in the indication label on the bottom side of this unit) regarding power source and power consumption.

[3] Audio input cable (white)

Connect a microphone or the line out of an external device using a stereo mini plug (ø3.5 mm).

<For microphone input>

• Recommended microphone (locally procured): Plug-in power type (Sensitivity of microphone: -48 dB ±3 dB (0 dB=1 V/Pa,1 kHz))

 Input impedance: 	Approx. 2 kΩ (unbalanced)
 Supply voltage: 	2.5 V ±0.5 V
 Recommended cable length: 	Less than 1 m {3.28 feet}
<for input="" line=""></for>	
 Input level for the line input: 	Approx. –10 dBV
 Recommended cable length: 	Less than 10 m {32.8 feet}

[4] Audio output cable (black)

Connect an external speaker* using a stereo mini plug (ø3.5 mm). (Audio output is monaural.)

 Output impedance: 	Approx. 600 Ω (unbalanced)	
 Recommended cable length: 	Less than 10 m {	32.8 feet}
Output level:	–20 dBV	*Use a powered speaker.

- Connect/disconnect the audio cables and turn on the power of the camera after turning off the power of the audio output devices. Otherwise, loud noise may be heard from the speaker.
- Make sure that the stereo mini plug is connected to this cable. When a monaural mini plug is connected, audio may not be heard.
 When connecting a monaural speaker with amplifier, use a locally procured conversion cable (mono-stereo).

[5] EXT I/O cable / 4P alarm cable (accessory)

Note:

• Off, input, and output of the ALARM IN2 and 3 can be switched by configuring the setting. Refer to the Operating Instructions for further information about the ALARM IN2 and 3 settings ("Off", "Alarm input", "Alarm output").

<Ratings>

 Alarm input1 / Black & white input / Auto time adjustment input, Alarm input2, Alarm input3 Input specification: No-voltage make contact input (4 V - 5 V DC, internally pulled up) OFF: Open or 4 V - 5 V DC
 ON: Make contact with GND (required drive current: 1 mA or more)

 Alarm output, AUX output 			
Output specification:	Open collector output (maximum applied voltage: 20 V DC)		
OPEN:	4 V - 5 V DC by internal pull-up		
CLOSE:	Output voltage 1 V DC or less (maximum drive current: 50 mA)		

4P alarm cable

	GND (Black)
ζĊ	ALARM IN3 (Alarm input3 / AUX output) (Gray)
(—— ALARM IN2 (Alarm input2 / Alarm output) (Red)
	ALARM IN1 (Alarm input1 / Black & white input / Auto time adjustment input) (Green)

- Install external devices so that they do not exceed the rating of the network camera.
- When using the ALARM IN2 and/or 3 as the output terminals, ensure they do not cause signal collision with external signals.

[6] MONITOR OUT terminal (factory shipment: NTSC monitor)

Used to connect a monitor used for adjustments during installation or when performing service.

IMPORTANT:

- The adjustment monitor is used for checking the adjustment of the angular field of view when installing the camera or when servicing. It is not provided for recording/monitoring use.
- Depending on the monitor, some characters (date, time, camera title, etc.) may not be displayed on the screen.

Note:

• The monitor out is set to NTSC in the default settings of the camera. If you want to change the monitor out setting to PAL, refer to the Operating Instructions on the our support website.

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
Power is not turned	 When using a PoE device for power supply Are the PoE device (IEE802.3af compliant) and the RJ45 Network connector connected using an Ethernet cable? Check whether the connection is appropriately established. Depending on the PoE device, the power supply will stop when the demanded power exceeds its total power limit for all PoE ports. Refer to the operating instructions of the PoE device in use. 	Installation Guide
on.	 When using DC power supply Is the 2P power cable (accessory) firmly inserted into the power supply cable of the camera? Confirm the power plug is firmly connected. Is the AC adaptor in use compliant with the Specifications? Check the Specifications regarding AC adaptor. 	Guide
The LINK indicator does not light in orange even when the Ethernet cable is con- nected to the camera.	 Is the Ethernet cable connected appropriately? Connect the Ethernet cable appropriately. Is the hub or router connected to the camera operating appropriately? Check if the hub or router in use is operating appropriately. Isn't the Ethernet cable connected to the camera broken? Replace the cable with another one. 	Installation Guide
SD ERROR/AF indica- tor lights red	 This indicator lights up red when data cannot be saved on the SD memory card. Isn't the write protect switch of the inserted SD memory card set to "LOCK"? Unlock the write protect switch of the SD memory card. Hasn't the inserted SD memory card been formatted on a PC? Use an SD memory card formatted on the camera. Or install the software to format the SD memory card on the PC. Refer to our website <control c0105="" no.:=""> for further information about the supported software.</control> Isn't the inserted SD memory card faulty? Replace the card with a normal one. 	Installation Guide

Symptom	Cause/solution	Reference pages
Audio input contains noise.	 Check the following. Grounding of the camera, a switching hub or peripheral devices are not done. The camera is used near an electrical power line. The camera is used near a device which produces strong magnetic field or radio waves (such as near a TV/radio antenna, a motor of an air conditioning system, a transformer, etc.) When audio input still contains noise even after checking the above possibilities, use a powered microphone or connect audio output with low output impedance. 	Installation Guide
Auto focus (AF) can not be able to be auto- matically adjusted.	 In the following locations or with the following subjects, the focus may not be able to be automatically adjusted. In this case, manually adjust the focus. When the subject moves a lot When there are large changes to the lighting intensity When the light level is low When the subject or location is extremely bright or reflective When viewing through windows When the front panel is in a locations where it can easily become dirty Locations where there is not much contrast such as a white wall When there is harsh flickering 	Operating Instructions

Detail specifications

• Basic

Power source *1:	DC 12 V
Fower source :	PoE (IEEE802.3af compliant)
Device concentration *1	
Power consumption *1:	DC 12 V: 930 mA/ Approx. 11.2 W
	PoE DC 48 V: 240 mA/ Approx. 11.5 W (Class 0 device)
Operating environment	
Ambient operating temperature:	
	(Power On range: -30 °C to +60 °C {-22 °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)
Monitor output	VBS: 1.0 V [p-p]/75 Ω, composite, Pin jack
(for adjustment):	An NTSC or PAL signal can be outputted from camera
	(either press the INITIAL SET switch quickly (within 1 second) or
	use software to select NTSC or PAL signal).
EXT I/O terminals:	ALARM IN1
	(Alarm input 1/ Black & white input/ Auto time adjustment input) (x1)
	ALARM IN2 (Alarm input 2/ ALARM OUT) (x1)
	ALARM IN3 (Alarm input 3/ AUX OUT) (x1)
Audio input:	ø3.5 mm stereo mini jack
For microphone input:	
i or microphone input.	(Sensitivity of microphone: -48 dB \pm 3 dB (0 dB=1 V/Pa, 1 kHz))
	Input impedance: Approx. 2 k Ω (unbalanced)
For line input:	Supply voltage: 2.5 V ±0.5 V Input level: Approx. –10 dBV
Audio output *3:	ø3.5 mm stereo mini jack (Audio output is monaural.)
	Output impedance: Approx. 600 Ω (unbalanced)
	Output level: –20 dBV
Waterproof *4:	IP66 (IEC 60529), Type 4X (UL50E)
	NEMA 4X compliant
Shock resistance:	IK10 (IEC 62262)
Wind resistance:	Up to 40 m/s {approx. 89 mph}
Dimensions:	With adapter box :
	133 mm (W) x 133 mm (H) x 377 mm (L)
	{5-1/4 inches(W) x 5-1/4 inches(H) x 14-27/32 inches(L)}
	Without adapter box :
	130 mm (W) x 130 mm (H) x 337 mm (L)
	{5-1/8 inches(W) x 5-1/8 inches(H) x 13-9/32 inches(L)}
Mass:	With adapter box :
	Approx. 2.2kg {4.86 lbs}
	Without adapter box :
	Approx. 1.7kg {3.75 lbs}
Finish:	Main body: Aluminum die cast and resin, i-PRO white
	Outer fixing screws: Stainless steel (Corrosion-resistant treatment)

- *1 Refer to our support website <Control No.: C0106> for further information about Power source and Power consumption information.
- *2 When using with the IR LED light constantly lit, the upper limit of the operating temperature range is +50 °C {+122 °F}.
- *3 **S1572** This camera is not equipped with the function to change the audio output to the monitor output. **S1552** The audio output can be switched to the monitor output. Refer to the "Operating Instructions" on our support website for descriptions of how to switch the output.
- *4 Only when installation work is properly performed according to the Installation Guide and appropriate waterproof treatment is performed.

Camera

Image sensor:	<u>S1572</u>
	Approx. 1/1.8 type CMOS image sensor
	S1552
	Approx. 1/2.8 type CMOS image sensor
Effective pixels:	S1572
	Approx. 8.4 megapixels
	S1552
	Approx. 5.1 megapixels
Scanning area:	S1572
	7.68 mm (H)×4.32 mm (V) {5/16 inches (H) × 5/32 inches (V)}
	S1552
	5.12 mm (H)×3.84 mm (V) {3/16 inches (H) × 5/32 inches (V)}
Scanning system:	Progressive
Minimum illumination:	S1572
	Color: 0.09 lx {0.0084 footcandle}
	(50IRE, F1.5, Maximum shutter: Off (1/30 s), AGC: 11)
	0.006 lx {0.0006 footcandle}
	(50IRE, F1.5, Maximum shutter: max. 16/30 s, AGC: 11)*
	BW: 0 lx {0 footcandle}
	(50IRE, F1.5, Maximum shutter: OFF (1/30 s), AGC: 11, when the
	IR LED is lit)
	0.05 lx {0.0046 footcandle}
	(50IRE, F1.5, Maximum shutter: Off (1/30 s), AGC: 11)
	0.003 lx {0.0003 footcandle}
	(50IRE, F1.5, Maximum shutter: max. 16/30 s, AGC: 11)*
	S1552
	Color: 0.07 lx {0.0065 footcandle}
	(50IRE, F1.3, Maximum shutter: Off (1/30 s), AGC: 11)
	0.0044 lx {0.0004 footcandle}
	(50IRE, F1.3, Maximum shutter: max. 16/30 s, AGC: 11)*
	BW: 0 lx {0 footcandle}
	(50IRE, F1.3, Maximum shutter: OFF (1/30 s), AGC: 11, when the
	IR LED is lit)
	0.04 lx {0.0037 footcandle}
	(50IRE, F1.3, Maximum shutter: Off (1/30 s), AGC: 11)
	0.003 lx {0.0003 footcandle}
	(50IRE, F1.3, Maximum shutter: max. 16/30 s, AGC: 11)*
	* Converted value
Intelligent Auto:	On/ Off
	· · · · · · · · · · · · · · · · · · ·

Super Dynamic:	On/ Off
Super Dynamic.	The level can be set in the range of 0 to 31.
Dynamic range:	Max. 132 dB
Dynamie range.	(Super Dynamic: On, Level: 31, 15 fps/ 12.5 fps *1)
Maximum gain:	The level can be set in the range of 0 to 11.
Adaptive black stretch:	The level can be set in the range of 0 to 255.
· · · · · · · · · · · · · · · · · · ·	<u> </u>
Back light compensation (BLC) / High light compensation (HLC):	BLC/ HLC/ Off The level can be set in the range of 0 to 31.
rightight compensation (nec).	(only when Super Dynamic/ Intelligent auto: Off)
Fog compensation:	On/ Off
r og compensation.	The level can be set in the range of 0 to 8.
	(only when Intelligent Auto / auto contrast adjust: Off)
Light control mode patting:	
Light control mode setting:	Outdoor scene/ Indoor scene (50 Hz)/ Indoor scene (60 Hz)/ Fix shutter
Shutter speed:	[30 fps mode]
	1/30 Fix, 3/120 Fix, 2/100 Fix, 2/120 Fix, 1/100 Fix, 1/120 Fix, 1/250 Fix, 1/500 Fix, 1/1000 Fix, 1/2000 Fix, 1/4000 Fix, 1/10000 Fix
	[25 fps mode]
	1/25 Fix, 3/100 Fix, 2/100 Fix, 1/100 Fix, 1/250 Fix, 1/500 Fix,
	1/1000 Fix, 1/2000 Fix, 1/4000 Fix, 1/1000 Fix
Maximum shutter:	[30 fps mode]
Maximum shutter.	Max. 1/4000 s, Max. 1/2000 s, Max. 1/1000 s, Max. 1/500 s,
	Max. 1/200 s, Max. 1/200 s, Max. 1/100 s, Max. 2/120 s, Max. 2/100 s, Max. 1/250 s, Max. 1/120 s, Max. 1/100 s, Max. 2/120 s, Max. 2/100 s,
	Max. 3/120 s, Max. 1/30 s, Max. 2/30 s, Max. 4/30 s, Max. 6/30 s,
	Max. 10/30 s, Max. 16/30 s
	[25 fps mode]
	Max. 1/4000 s, Max. 1/2000 s, Max. 1/1000 s, Max. 1/500 s,
	Max. 1/250 s, Max. 1/100 s, Max. 2/100 s, Max. 3/100 s, Max. 1/25 s,
	Max. 2/25 s, Max. 4/25 s, Max. 6/25 s, Max. 10/25 s, Max. 16/25 s
Color/BW:	Off/ On(IR Light Off)/ On(IR Light On)/
	Auto1(IR Light Off)/ Auto2(IR Light On)/ Auto3(SCC)
IR LED Light:	High/ Middle/ Low/ Off
	Maximum irradiation distance: 40 m {Approx. 131 ft}
White balance:	ATW1/ ATW2/ AWC
Digital noise reduction:	The level can be set in the range of 0 to 255.
Privacy zone:	On/ Off
	Up to 8 zones available
Camera title on screen:	On/ Off
	Up to 20 characters (alphanumeric characters, marks)
Video Motion Detection (VMD):	On/ Off
	4 areas available
Scene Change Detection (SCD):	On/ Off
	1 area available
Image rotation*2 *3:	0° (Off)/ 90°/ 180° (Upside-down)/ 270°

*1 The frame rate is limited to 15 fps/ 12.5 fps for level 30 or higher.

*2 When the 320x180 resolution is used, the "90°" and "270°" settings are not available.

*3 When "0°(Off)" or "180° (Upside-down)" is used, the analog output of the MONITOR OUT terminal rotates according to the setting angle of the rotated image.

• Lens

Optical zoom2.0x (Motorized zoom / Motorized focus) max 6.0x (2.0x - 6.0x when resolution is 1280x720)Optical zoom $3.1x$ (Motorized zoom / Motorized focus) max 9.3x (3.1x - 9.3x when resolution is 640x360)Digital (electronic) zoom:Choose from 3 levels of x1, x2, x4Focal length: $$1552$ 2.9 mm - 8.6 mm {5/32 inches - 11/32 inches} S1552 2.9 mm - 9 mm {1/8 inches - 11/32 inches}Maximum aperture ratio: $$1572$ 1:1.5 (WIDE) - 1:2.4 (TELE) S1552 1:1.3 (WIDE) - 1:2.5 (TELE)Focus range: $$51572$ 0.3 m (11-13/16 inches} - ∞ S1552 0.3 m (11-13/16 inches] - ∞ Aperture range: $$1572$ F1.5 - Close S1552 F1.3 - Close		
Extra optical zoommax 6.0x (2.0x - 6.0x when resolution is 1280x720)Sit552Optical zoomDigital cleatronic zoom:Choose from 3 levels of x1, x2, x4Focal length:Sit572 (3.1x - 9.3x when resolution is 640x360)Digital (electronic) zoom:Choose from 3 levels of x1, x2, x4Focal length:Sit572 (3.1x - 9.3x when resolution is 640x360)Maximum aperture ratio:Sit552 (3.1x - 9.3x when resolution is 640x360)Focus range:Sit552 (3.1552) (1.1.5 (WDE) - 1:2.4 (TELE)Focus range:Sit552 (3.1552) (1.1.3 (WDE) - 1:2.5 (TELE)Focus range:Sit552 (1.1.3 (WDE) - 1:2.6 (TELE) - 0.04 (WIDE)Aperture range:Sit572 (1.1.3 (CLE) - 104 (WIDE)Fi.5 - Close (Sit52) (1.3.90 (TELE) - 506 (WIDE)Sit552 (1.6.9 mode] (1.3.90 (TELE) - 506 (WIDE)Sit552 (1.6.9 mode] (1.6.9 mode]Horizontal: 34° (TELE) - 106° (WIDE)Vertical:	Zoom ratio:	S1572
Optical zoom(2.0x - 6.0x when resolution is 1280x720)S1552 S1552 (3.1x - 9.3x when resolution is 640x360)Digital (electronic) zoom:Choose from 3 levels of x1, x2, x4Focal length:S1572 4.3 mm - 8.6 mm {5/32 inches - 11/32 inches} S1552 2.9 mm - 9 mm {1/8 inches - 11/32 inches}Maximum aperture ratio:S1572 1:1.5 (WIDE) - 1:2.4 (TELE) S1552 1:1.3 (WIDE) - 1:2.5 (TELE)Focus range:Int [39-3/8 inches] - ∞ S1552 0.3 m [11-13/16 inches] - ∞ Aperture range:S1572 F1.3 - CloseAngular field of view:S1572 F1.3 - CloseAngular field of view:S1572 F1.3 - CloseAngular field of view:S1572 F1.3 - Close S1552 F1.3 - Close S1552 F1.3 - CloseAngular field of view:S1572 F1.3 - Close S1552 F1.3 - Close S1552 <br< td=""><td>-</td><td></td></br<>	-	
Optical zoomS1552 3.1x (Motorized zoom / Motorized focus) max 9.3x (3.1x – 9.3x when resolution is 640x360)Digital (electronic) zoom:Choose from 3 levels of x1, x2, x4Focal length: $$1572$ 4.3 mm – 8.6 mm {5/32 inches – 11/32 inches} S1552 2.9 mm – 9 mm {1/8 inches – 11/32 inches} S1552 1.1.5 (WIDE) – 1:2.4 (TELE)Maximum aperture ratio: $$1572$ 1:1.5 (WIDE) – 1:2.5 (TELE)Focus range: $$1572$ 1 m {39-3/8 inches} – ∞ S1552 0.3 m {11-13/16 inches} – ∞ Aperture range: $$1572$ F1.3 – Close S1552 F1.3 – CloseAngular field of view: $$1572$ F1.3 – Close S1552 F1.3 – CloseAngular field of view: $$1572$ (16:9 mode] *[4:3 mode] is not supported. Horizontal: 53° (TELE) – 104° (WIDE) Vertical: 30° (TELE) – 56° (WIDE) Vertical: 19° (TELE) – 57° (WIDE) (4:3 mode] Horizontal: 34° (TELE) – 106° (WIDE) Vertical: 19° (TELE) – 57° (WIDE) (4:3 mode] Horizontal: 34° (TELE) – 106° (WIDE)	Extra optical zoom	
Optical zoon Extra optical zoon3.1x (Motorized zoom / Motorized focus) max 9.3x (3.1x - 9.3x when resolution is 640x360)Digital (electronic) zoom:Choose from 3 levels of x1, x2, x4Focal length: S1572 4.3 mm - 8.6 mm {5/32 inches - 11/32 inches} S1552 2.9 mm - 9 mm {1/8 inches - 11/32 inches}Maximum aperture ratio: S1572 1:1.5 (WIDE) - 1:2.4 (TELE) S1552 1:1.3 (WIDE) - 1:2.5 (TELE)Focus range: S1572 1 m {39-3/8 inches} - ∞ S1552 0.3 m {11-13/16 inches} - ∞ Aperture range: S1572 1:1.3 - Close S1552 F1.3 - CloseAngular field of view: S1572 (T6:9 mode]" [4:3 mode] is not supported. Horizontal: 53° (TELE) - 104° (WIDE) Vertical: 30° (TELE) - 56° (WIDE) S1552 [16:9 mode] Horizontal: 34° (TELE) - 106° (WIDE) Vertical: 19° (TELE) - 57° (WIDE) Vertical: 30° (TELE) - 106° (WIDE)		
Extra optical zoonmax $9.3x$ ($3.1x - 9.3x$ when resolution is $640x360$)Digital (electronic) zoom:Choose from 3 levels of x1, x2, x4Focal length: $$1572$ $4.3 mm - 8.6 mm {5/32 inches - 11/32 inches}$15522.9 mm - 9 mm {1/8 inches - 11/32 inches}Maximum aperture ratio:$15721:1.5 (WIDE) - 1:2.4 (TELE)Focus range:$15721:1.3 (WIDE) - 1:2.5 (TELE)Focus range:$15721 m {39-3/8 inches} - \inftyAperture range:$15721:1.5 (Cose$15521:1.5 (Cose$15521:1.$		
(3.1x - 9.3x when resolution is 640x360)Digital (electronic) zoom:Choose from 3 levels of x1, x2, x4Focal length: $$1572$ 4.3 mm - 8.6 mm {5/32 inches - 11/32 inches} $$1552$ 2.9 mm - 9 mm {1/8 inches - 11/32 inches}Maximum aperture ratio: $$1572$ 1.1.5 (WIDE) - 1:2.4 (TELE) $$1552$ 1.1.3 (WIDE) - 1:2.5 (TELE)Focus range: $$1572$ 1 m {39-3/8 inches} - ∞ $$1552$ 0.3 m {11-13/16 inches} - ∞ Aperture range: $$1572$ F1.5 - Close $$1552$ F1.3 - CloseAngular field of view: $$1572$ [16:9 mode] *[4:3 mode] is not supported. Horizontal: 53° (TELE) - 104° (WIDE) Vertical: 30° (TELE) - 56° (WIDE) $$1552$ [16:9 mode] Horizontal: 34° (TELE) - 106° (WIDE) Vertical: 30° (TELE) - 57° (WIDE) Horizontal: 34° (TELE) - 106° (WIDE)		
Digital (electronic) zoom:Choose from 3 levels of x1, x2, x4Focal length: $$1572$ 4.3 mm - 8.6 mm {5/32 inches - 11/32 inches} $$31552$ 2.9 mm - 9 mm {1/8 inches - 11/32 inches}Maximum aperture ratio: $$1572$ 1:1.5 (WIDE) - 1:2.4 (TELE) $$1552$ 1:1.3 (WIDE) - 1:2.5 (TELE)Focus range: $$1572$ 1 m {39-3/8 inches} - ∞ $$31552$ 0.3 m {11-13/16 inches} - ∞ Aperture range: $$1572$ F1.5 - Close $$1552$ F1.3 - CloseAngular field of view: $$1572$ [16:9 mode] *[4:3 mode] is not supported.Horizontal: 53° (TELE) - 104° (WIDE)Vertical:30° (TELE) - 56° (WIDE) $$1552$ [16:9 mode]Horizontal: 34° (TELE) - 106° (WIDE)Vertical:19° (TELE) - 57° (WIDE)[4:3 mode]Horizontal: 34° (TELE) - 106° (WIDE)Vertical:19° (TELE) - 57° (WIDE)[4:3 mode]Horizontal: 34° (TELE) - 106° (WIDE)	Extra optical zoom	
Focal length: $$$1572$ 4.3 mm - 8.6 mm {5/32 inches - 11/32 inches} $$$1552$ 2.9 mm - 9 mm {1/8 inches - 11/32 inches} Maximum aperture ratio: $$$1572$ 1:1.5 (WIDE) - 1:2.4 (TELE) $$$1552$ 1:1.5 (WIDE) - 1:2.5 (TELE) Focus range: $$$1572$ 1 m (39-3/8 inches) - ∞ $$$1552$ 0.3 m {11-13/16 inches} - ∞ $$$1552$ 0.3 m {11-13/16 inches} - ∞ Aperture range: $$$1572$ F1.5 - Close $$$1552$ F1.3 - Close $$$1552$ F1.3 - Close \$\$1552 F1.3 - Close \$\$1552 F1.3 - Close \$\$1552 F1.3 - Close \$\$1552 [16:9 mode] * [4:3 mode] is not supported. Horizontal: 30° (TELE) - 104° (WIDE) Vertical: 30° (TELE) - 106° (WIDE) \$\$1552 [16:9 mode] Horizontal: 34° (TELE) - 57° (WIDE) \$\$4:3 mode] Horizontal: 34° (TELE) - 57° (WIDE) \$\$4:3 mode]		
4.3 mm - 8.6 mm (5/32 inches - 11/32 inches) 4.3 mm - 8.6 mm (5/32 inches) Maximum aperture ratio: S1552 1:1.5 (WIDE) - 1:2.4 (TELE) S1552 1:1.3 (WIDE) - 1:2.5 (TELE) Focus range: S1552 1:1.3 (WIDE) - 1:2.5 (TELE) Focus range: S1552 1:1.3 (WIDE) - 1:2.5 (TELE) Focus range: S1552 0.3 m {11-13/16 inches} - ∞ S1552 F1.5 - Close S1552 F1.3 - Close S1552 I16:9 mode] * [4:3 mode] is not supported. Horizontal: 53° (TELE) - 104° (WIDE) Vertical: 30° (TELE) - 56° (WIDE) S1552 [16:9 mode] Horizontal: 34° (TELE) - 57° (WIDE) (4:3 mode] Horizontal: 3		Choose from 3 levels of x1, x2, x4
S1552 2.9 mm - 9 mm {1/8 inches - 11/32 inches}Maximum aperture ratio:S1572 1:1.5 (WIDE) - 1:2.4 (TELE) S1552 1:1.3 (WIDE) - 1:2.5 (TELE)Focus range:S1572 1 m {39-3/8 inches} - ∞ S1552 0.3 m {11-13/16 inches} - ∞ Aperture range:S1572 F1.5 - Close S1552 F1.3 - CloseAperture range:S1572 F1.3 - Close S1552 F1.3 - CloseAngular field of view:S1572 F1.3 - Close S1552 F1.3 - Close F1.3 - CloseAngular field of view:S1572 F1.3 - Close S1652 F1.3 - Close F1.3 - Close S1652 F1.3 - CloseAngular field of view:S1672 F1.3 - Close S1652 F1.3 - Close F1.3 - Close S1652 F1.3 - Close F1.3 - Close F1.3 - Close S1652 F1.3 - Close F1.3 - Close S1652 F1.3 - Close S1652 F1.3 - Close S1652 F1.3 - Close F1.3 - Close S1652 F1.3 - Close S1652 F1.3 - Close S1652 F1.3 - Close S1652 F1.3 - Close S1652 F1.3 - Close S1652 F1.3 - Close F1.3 - Close <br< td=""><td>Focal length:</td><td>S1572</td></br<>	Focal length:	S1572
2.9 mm - 9 mm {1/8 inches - 11/32 inches}Maximum aperture ratio: $$1572$ 1:1.5 (WIDE) - 1:2.4 (TELE) $$1552$ 1:1.3 (WIDE) - 1:2.5 (TELE)Focus range: $$1572$ 1 m {39-3/8 inches} - ∞ $$1552$ 0.3 m {11-13/16 inches} - ∞ Aperture range: $$1572$ F1.5 - Close $$1552$ F1.3 - Close $$1552$ F1.3 - Close $$1552$ F1.3 - CloseAngular field of view: $$1572$ F1.6 - mode] is not supported. Horizontal: 53° (TELE) - 104° (WIDE) Vertical: 30° (TELE) - 56° (WIDE) $$1552$ [16:9 mode] Horizontal: 34° (TELE) - 106° (WIDE) Vertical: 19° (TELE) - 57° (WIDE) [4:3 mode] Horizontal: 34° (TELE) - 106° (WIDE)		4.3 mm – 8.6 mm {5/32 inches – 11/32 inches}
Maximum aperture ratio:S1572 1:1.5 (WIDE) - 1:2.4 (TELE) S1552 1:1.3 (WIDE) - 1:2.5 (TELE)Focus range:S1572 1 m {39-3/8 inches} - ∞ S1552 0.3 m {11-13/16 inches} - ∞ Aperture range:S1572 F1.5 - Close S1552 F1.3 - CloseAngular field of view:S1572 F1.3 - CloseAngular field of view:S1572 [16:9 mode*] *[4:3 mode] is not supported. Horizontal: 53° (TELE) - 104° (WIDE) Vertical: 30° (TELE) - 56° (WIDE) [16:9 mode] Horizontal: 34° (TELE) - 106° (WIDE) Vertical: 19° (TELE) - 57° (WIDE) [4:3 mode] Horizontal: 34° (TELE) - 106° (WIDE)		S1552
1:1.5 (MIDE) = 1:2.4 (TELE)S15521:1.3 (WIDE) = 1:2.5 (TELE)Focus range: $$1572$ 1 m {39-3/8 inches} = ∞ S15520.3 m {11-13/16 inches} = ∞ Aperture range: $$1572$ F1.5 = CloseS1552F1.3 = CloseS1552F1.3 = CloseS1552[16:9 mode"] *[4:3 mode] is not supported.Horizontal: 53° (TELE) = 104° (WIDE)Vertical: 30° (TELE) = 56° (WIDE)S1552[16:9 mode]Horizontal: 34° (TELE) = 106° (WIDE)Vertical: 19° (TELE) = 57° (WIDE)[4:3 mode]Horizontal: 34° (TELE) = 106° (WIDE)Vertical: 39° (TELE) = 57° (WIDE)[4:3 mode]Horizontal: 34° (TELE) = 106° (WIDE)		2.9 mm – 9 mm {1/8 inches – 11/32 inches}
S15521:1.3 (WIDE) - 1:2.5 (TELE)Focus range: $$1572$ 1 m {39-3/8 inches} - ∞ $$S1552$ 0.3 m {11-13/16 inches} - ∞ Aperture range: $$1572$ F1.5 - Close $$1552$ F1.3 - Close $$1552$ F1.3 - Close $$1552$ [16:9 mode*] *[4:3 mode] is not supported.Horizontal: 53° (TELE) - 104° (WIDE)Vertical: 30° (TELE) - 56° (WIDE) $$1552$ [16:9 mode]Horizontal: 34° (TELE) - 56° (WIDE)Vertical: 19° (TELE) - 57° (WIDE)[4:3 mode]Horizontal: 34° (TELE) - 106° (WIDE)Vertical: 19° (TELE) - 57° (WIDE)[4:3 mode]Horizontal: 34° (TELE) - 106° (WIDE)	Maximum aperture ratio:	S1572
I:1.3 (WDE) – 1:2.5 (TELE)Focus range:S1572 1 m {39-3/8 inches} – ∞ S1552 0.3 m {11-13/16 inches} – ∞ Aperture range:S1572 F1.5 – Close S1552 F1.3 – CloseAngular field of view:S1572 [16:9 mode*] *[4:3 mode] is not supported. Horizontal: 53° (TELE) – 104° (WIDE) Vertical: 30° (TELE) – 56° (WIDE) S1552 [16:9 mode] Horizontal: 34° (TELE) – 106° (WIDE) Vertical: 19° (TELE) – 57° (WIDE) [4:3 mode] Horizontal: 34° (TELE) – 106° (WIDE)		1:1.5 (WIDE) – 1:2.4 (TELE)
Focus range: $$$1572$ 1 m {39-3/8 inches} - ∞ $$$15520.3 m {11-13/16 inches} - \inftyAperture range:$$1572F1.5 - Close$$1552F1.3 - CloseAngular field of view:$$1572[16:9 mode*] *[4:3 mode] is not supported.Horizontal: 53° (TELE) - 104° (WIDE)Vertical: 30° (TELE) - 56° (WIDE)$$1552[16:9 mode]Horizontal: 34° (TELE) - 106° (WIDE)Vertical: 19° (TELE) - 57° (WIDE)[4:3 mode]Horizontal: 34° (TELE) - 106° (WIDE)$		S1552
Im $(39-3)/8$ inches} - ∞ S15520.3 m $\{11-13/16 \text{ inches}\} - \infty$ Aperture range:S1572F1.5 - CloseS1552F1.3 - CloseS1572[16:9 mode*] *[4:3 mode] is not supported.Horizontal: 53° (TELE) - 104° (WIDE)Vertical: 30° (TELE) - 56° (WIDE)S1552[16:9 mode]Horizontal: 34° (TELE) - 106° (WIDE)Vertical: 19° (TELE) - 57° (WIDE)[4:3 mode]Horizontal: 34° (TELE) - 106° (WIDE)		1:1.3 (WIDE) – 1:2.5 (TELE)
S1552 0.3 m $\{11-13/16 \text{ inches}\} - \infty$ Aperture range:S1572 F1.5 - Close S1552 F1.3 - CloseAngular field of view:S1572 [16:9 mode*] *[4:3 mode] is not supported. Horizontal: 53° (TELE) - 104° (WIDE) Vertical: 30° (TELE) - 56° (WIDE) S1552 [16:9 mode] Horizontal: 34° (TELE) - 106° (WIDE) Vertical: 19° (TELE) - 57° (WIDE) [4:3 mode] Horizontal: 34° (TELE) - 106° (WIDE)	Focus range:	S1572
$0.3 \text{ m } \{11-13/16 \text{ inches}\} - \infty$ Aperture range: S1572 F1.5 - Close S1552 F1.3 - CloseAngular field of view: S1572 [16:9 mode*] *[4:3 mode] is not supported. Horizontal: 53° (TELE) - 104° (WIDE) Vertical: 30° (TELE) - 56° (WIDE) S1552 [16:9 mode] Horizontal: 34° (TELE) - 106° (WIDE) Vertical: 19° (TELE) - 57° (WIDE) [4:3 mode] Horizontal: 34° (TELE) - 106° (WIDE)		1 m {39-3/8 inches} – ∞
Aperture range: S1572 F1.5 - Close S1552 F1.3 - Close Angular field of view: S1572 [16:9 mode*] *[4:3 mode] is not supported. Horizontal: 53° (TELE) – 104° (WIDE) Vertical: 30° (TELE) – 56° (WIDE) S1552 [16:9 mode] Horizontal: 34° (TELE) – 106° (WIDE) Vertical: 19° (TELE) – 57° (WIDE) [4:3 mode] Horizontal: 34° (TELE) – 106° (WIDE)		S1552
F1.5 - Close S1552 F1.3 - Close Angular field of view: S1572 [16:9 mode*] *[4:3 mode] is not supported. Horizontal: 53° (TELE) – 104° (WIDE) Vertical: 30° (TELE) – 56° (WIDE) S1552 [16:9 mode] Horizontal: 34° (TELE) – 106° (WIDE) Vertical: 19° (TELE) – 57° (WIDE) [4:3 mode] Horizontal: 34° (TELE) – 106° (WIDE)		0.3 m {11-13/16 inches} – ∞
S1552 F1.3 - Close Angular field of view: S1572 [16:9 mode*] *[4:3 mode] is not supported. Horizontal: 53° (TELE) – 104° (WIDE) Vertical: 30° (TELE) – 56° (WIDE) S1552 [16:9 mode] Horizontal: 34° (TELE) – 106° (WIDE) Vertical: 19° (TELE) – 57° (WIDE) [4:3 mode] Horizontal: 34° (TELE) – 106° (WIDE)	Aperture range:	S1572
F1.3 - Close Angular field of view: [16:9 mode*] *[4:3 mode] is not supported. Horizontal: 53° (TELE) - 104° (WIDE) Vertical: 30° (TELE) - 56° (WIDE) [16:9 mode] Horizontal: 34° (TELE) - 106° (WIDE) Vertical: 19° (TELE) - 57° (WIDE) [4:3 mode] Horizontal: 34° (TELE) - 106° (WIDE)		F1.5 – Close
St572 [16:9 mode*] *[4:3 mode] is not supported. Horizontal: 53° (TELE) – 104° (WIDE) Vertical: 30° (TELE) – 56° (WIDE) S1552 [16:9 mode] Horizontal: 34° (TELE) – 106° (WIDE) Vertical: 19° (TELE) – 57° (WIDE) [4:3 mode] Horizontal: 34° (TELE) – 106° (WIDE)		S1552
[16:9 mode*] *[4:3 mode] is not supported. Horizontal: 53° (TELE) – 104° (WIDE) Vertical: 30° (TELE) – 56° (WIDE) S1552 [16:9 mode] Horizontal: 34° (TELE) – 106° (WIDE) Vertical: 19° (TELE) – 57° (WIDE) [4:3 mode] Horizontal: 34° (TELE) – 106° (WIDE)		F1.3 – Close
Horizontal: 53° (TELE) – 104° (WIDE) Vertical: 30° (TELE) – 56° (WIDE) S1552 [16:9 mode] Horizontal: 34° (TELE) – 106° (WIDE) Vertical: 19° (TELE) – 57° (WIDE) [4:3 mode] Horizontal: 34° (TELE) – 106° (WIDE)	Angular field of view:	S1572
Vertical: 30° (TELE) – 56° (WIDE) S1552 [16:9 mode] Horizontal: 34° (TELE) – 106° (WIDE) Vertical: 19° (TELE) – 57° (WIDE) [4:3 mode] Horizontal: 34° (TELE) – 106° (WIDE)		[16:9 mode*] *[4:3 mode] is not supported.
S1552 [16:9 mode] Horizontal: 34° (TELE) – 106° (WIDE) Vertical: 19° (TELE) – 57° (WIDE) [4:3 mode] Horizontal: 34° (TELE) – 106° (WIDE)		Horizontal: 53° (TELE) – 104° (WIDE)
[16:9 mode] Horizontal: 34° (TELE) – 106° (WIDE) Vertical: 19° (TELE) – 57° (WIDE) [4:3 mode] Horizontal: 34° (TELE) – 106° (WIDE)		Vertical: 30° (TELE) – 56° (WIDE)
Horizontal: 34° (TELE) – 106° (WIDE) Vertical: 19° (TELE) – 57° (WIDE) [4:3 mode] Horizontal: 34° (TELE) – 106° (WIDE)		S1552
Vertical: 19° (TELE) – 57° (WIDE) [4:3 mode] Horizontal: 34° (TELE) – 106° (WIDE)		[16:9 mode]
[4:3 mode] Horizontal: 34° (TELE) – 106° (WIDE)		Horizontal: 34° (TELE) – 106° (WIDE)
Horizontal: 34° (TELE) – 106° (WIDE)		Vertical: 19° (TELE) – 57° (WIDE)
		[4:3 mode]
Vertical: 25° (TELE) – 77° (WIDE)		Horizontal: 34° (TELE) – 106° (WIDE)
		Vertical: 25° (TELE) – 77° (WIDE)

Camera mount bracket

Adjusting angle:	<ceiling mounting=""></ceiling>	
	Horizontal:	±180° (Adjust by horizontal (PAN) angle)
	Vertical:	0° to 100° (Adjust by vertical (TILT) angle)
	Yaw:	–190° to +100° (Adjust by azimuth (YAW) angle)
	<wall mounting=""></wall>	
	Horizontal:	±100° (Adjust by vertical (TILT) angle)*
	Vertical:	±100° (Adjust by vertical (TILT) angle)*
	Yaw:	-190° to +100° (Adjust by azimuth (YAW) angle)
	* You can c	hange between horizontal and vertical angels by
	adjusting	the horizontal (PAN) angle.

	130 mm {5-1/8 inches} (W) × 130 mm {5-1/8 inches} (H) (Camera mount bracket installation section)
Finish:	Aluminum die cast, i-PRO white

Network

Network:	10BASE-T/100BASE-TX, RJ45 connector		
Resolution *1:	S1572		
H.265/ H.264	[16:9 mode*] *[4:3 mode] is not supported.		
JPEG (MJPEG)	3840×2160/ 2560×1440/ 1920×1080/ 1280×720/ 640×360/ 320×180		
	S1552		
	[16:9 mode]		
	3072×1728* ² / 2560×1440/ 1920×1080/ 1280×720/ 640×360/		
	320×180		
	[4:3 mode]		
	3072×2304*2/2560×1920/1280×960/800×600/VGA/400×300/		
	QVGA		
Image compression method:			
H.265/ H.264 *3			
	Constant bit rate/ VBR/ Frame rate/ Best effort		
	Frame rate:		
	[30 fps mode]		
	1 fps/ 3 fps/ 5 fps*/ 7.5 fps*/ 10 fps*/ 12 fps*/ 15 fps*/ 20 fps*/		
	30 fps*		
	[25 fps mode] 1 fps/ 3.1 fps/ 4.2 fps*/ 6.25 fps*/ 8.3 fps*/ 12.5 fps*/ 20 fps*/		
	25 fps*		
	(The frame rate is limited to "bit rate". When a value with an asterisk (*) is		
	selected, the actual frame rate may be lower that the value selected.)		
	Bit rate per client:		
	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".		
	Image quality:		
	• For "Constant bit rate", "Frame rate", and "Best effort":		
	Low(Motion priority)/ Normal/ Fine(Image quality priority)		
	• "VBR":		
	0 Super fine/ 1 Fine/ 2/ 3/ 4/ 5 Normal/ 6/ 7/ 8/ 9 Low		
	Transmission type:		
	Unicast port (AUTO)/ Unicast port (MANUAL)/ Multicast		

JPEG (MJPEG) Image quality:
	0 SUPER FINE/ 1 FINE/ 2/ 3/ 4/ 5 NORMAL/ 6/ 7/ 8/ 9 LOW
	(10 steps: 0-9)
	Transmission type: Pull (Refresh interval)/ Push (MJPEG)
	Refresh interval: [30 fps mode]
	0.1 fps/ 0.2 fps/ 0.33 fps/ 0.5 fps/ 1 fps/ 2 fps/ 3 fps/ 5 fps/ 6 fps/
	10 fps/ 12 fps/ 15 fps/ 30 fps
	[25 fps mode]
	0.08 fps/ 0.17 fps/ 0.28 fps/ 0.42 fps/ 1 fps/ 2.1 fps/ 3.1 fps/ 4.2 fps/ 5 fps/ 8.3 fps/ 12.5 fps/ 25 fps
	(JPEG frame rates are limited when using JPEG and H.265/H.264
	simultaneously.)
Smart coding:	GOP(Group of pictures) control
	On(Frame rate control)*/ On(Advanced)*/ On(Mid)/ On(Low)/ Off *On(Frame rate control) and On(Advanced) are only available with H.265.
	Auto VIQS
	On/ Off
Audio compression method:	G.726 (ADPCM): 16 kbps/ 32 kbps
	G.711: 64 kbps
	AAC-LC*4: 64 kbps/ 96 kbps/ 128 kbps
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/ 15360 kbps/ 20480 kbps/ 25600 kbps/
Drata a al	30720 kbps/ 35840 kbps/ 40960 kbps/ 51200 kbps
Protocol:	IPv6: TCP/IP, UDP/IP, HTTP, HTTPS, SMTP, DNS, NTP, SNMP, DHCPv6, RTP, MLD, ICMP, ARP, IEEE 802.1X, DiffServ
	IPv4: TCP/IP, UDP/IP, HTTP, HTTPS, RTSP, RTP, RTP/RTCP, SMTP,
	DHCP, DNS, DDNS, NTP, SNMP, UPnP, IGMP, ICMP, ARP, IEEE 802.1X, DiffServ
Security:	User authentication, Host authentication, HTTPS*,
ocounty.	Alteration detection of video file*
	* The certification is pre-installed.
OS *5:	Microsoft Windows 10
	Microsoft Windows 8.1
Browser *5:	Internet Explorer 11 (32-bit)
2.0100. 1	Microsoft Edge
	Firefox
	Google Chrome
Maximum concurrent	14* (Number of sessions that can connect to cameras at the same time)
access number:	* Depends on network conditions
Multi-screen:	Up to 16 camera images can be displayed simultaneously on a multi-
	screen.
	(Including the camera itself)
Compatible SDXC/SDHC/SD	It is recommended to use an SDXC/SDHC/SD memory card for i-PRO
memory card *6, *7, *8:	devices. (SD speed class 6 or higher)
	SDXC memory card: 64 GB, 128 GB, 256 GB
	SDHC memory card: 4 GB, 8 GB, 16 GB, 32 GB
	SD memory card: 2 GB
	(except miniSD memory card and microSD memory card)

Mobile terminal/	iPad / iPhone (iOS 8 or later), Android TM terminals
Tablet terminal compatibility:	

- *1 H.265/H.264 can be selected for each stream.
- *2 Used by super resolution techniques.
- *3 Transmission for 4 streams can be individually set.
- *4 When recording audio on an SD memory card, only use AAC-LC (Advanced Audio Coding Low Complexity).
- *5 For information on the operation verification of the supported operating systems and web browsers, refer to our support website <Control No.: C0104, C0122>.
- *6 For possible number of images and duration (an indication) that can be saved on the SD memory card, refer to our support website below. Possible number of JPEG images that can be saved: <Control No.: C0306>

Possible duration of stream images (H.265 or H.264) that can be saved: <Control No.: C0307>

- *7 Refer to our support website <Control No.: C0107> for latest information about the compatible SD memory cards.
- *8 When repeatedly recording images on an SD memory card using the auto overwrite function, make sure to use an SD memory card with high reliability and durability.

i-PRO Co., Ltd.

Fukuoka, Japan https://www.i-pro.com/ Authorised Representative in EU: i-PRO EMEA B.V. Laarderhoogtweg 25, 1101 EB Amsterdam, Netherlands

i-PRO EMEA B.V. UK Branch 1010 Cambourne Business Park, Cambridgeshire CB23 6DP C E