

Ver. 1.7

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1. Overview

The Full HD Multiple Streams Compact Fixed Dome IP TIGER, Camera is capable of serving real-time streaming and makes image quality more smoothly. In addition to MJPEG real time streaming, this camera develops H.264 codec to apply for high resolution digital broadcast. With compact and sophisticated mechanical design, the Full HD Multiple Streams Compact Fixed Dome IP Camera is easy installed and aesthetic.

1.1 Features

- Progressive Scan CMOS Sensor
- Quad Stream Compression H.264 Baseline / Main / High Profile + MJPEG
- Multi-language Support
- Tampering Alarm
- Wide Dynamic Range
- Motion Detection
- Privacy Masks
- Smart Picture Quality / 3D Noise Reduction
- Vertical View Mode (Image rotation by 90 degrees)
- Network Failure Detection
- Weatherproof Dongle Cable*
- Weatherproof (IP66 international)*
- MicroSD Support
- ONVIF Support



1.2 **Package Contents**

Please check the package contains the following items listed below.





NOTE: The supplied self-tapping screws are for soft substances / materials such as wood. For other installation environments such as cement wall, it is required to pre-drill and use plastic anchors before fastening the supplied self-tapping screw on the wall.



1.3 Dimensions

The dimensions of the camera are shown below.





Unit: [mm]



1.4 Installation (For Rugged Camera)

Please follow the steps below to install the rugged camera.

Step 1:

Loosen the two security screws of the camera and detach the dome cover.



Step 2:

At the two sides of the base plate, place a rubber washer on the screw hole shown in the right figure.



Step 3:

Place the camera at the installation location. Then attach the camera to the ceiling by fastening the supplied screws to the screw holes with the rubber washers.



Step 4:

Refer to section <u>Connectors</u> and chapter <u>Camera Cabling</u> for camera lens adjustment and cable connection.



Step 5:

Attach the dome cover back to the camera and fasten the two security screws.





1.5 Connectors

The diagram below shows the reset button, lens, microSD card slot and various adjusting screws of the camera. Definition for each will be given as follows.





No.	Designation	Description
1	Reset Button	Press the button with a proper tool for at least 20 seconds to restore the system.
2	Lens	Rotate the lens right/left to adjust focus
3	Focus Fixed Screw	Loosen the screw to adjust the lens
4	Tilt Fixed Screw	Loosen the screw to adjust tilt angle
5	microSD Card Slot	For video recording storage



NOTE: It is not recommend to record with the microSD card for 24/7 continuously, as it may not be able to support long term continuous data read/write. Please contact the manufacturer of the microSD card for information regarding the reliability and life expectancy.



Camera Cabling 2.

Before users connect cables, make sure that all cables and the power adaptor are placed in dry and well-waterproofed environments, e.g. waterproof boxes. The purpose is to prevent moisture accumulation inside the camera and moisture penetration into cables, which might lead to device breakdown. Please follow the instructions below to complete camera connection.

2.1 **Connect Ethernet Cable**

Refer to the type of camera and follow the instructions below to connect Ethernet cable.

2.1.1 Indoor Camera

The Ethernet connector of the indoor camera is shown as below.



PoE Connection

Connect one end of the Ethernet cable to the RJ-45 connector of the indoor camera, and plug the other end to a PSE switch. Check the status of the link indicator and activity indicator LEDs. If the LEDs are unlit, please check the LAN connection.



NOTE: Please use an Ethernet cable without the boot cover to connect the indoor camera. Otherwise, the dome cover cannot be installed.



Green Link Light indicates good network connection. Orange Activity Light flashes for network activity indication.



2.1.2 Rugged Camera

The RJ-45 cable of the rugged camera is either IP66 RJ-45 cable or RJ-45 lite cable. Refer to the cable type and follow the instructions below to connect Ethernet cable and waterproof connector.



IP66 RJ-45 Cable



RJ-45 Lite Cable

IP66 RJ-45 Cable 1 / IP66 RJ-45 Cable 2

For IP66 RJ-45 cable, please use an RJ-45 IP66 plug for connection to prevent water damage. Follow the steps below for cable connection.

Step 1:

Take out the supplied connector from the RJ-45 IP66 plug. Loosen the thread-lock sealing nut on the plug. Then thread the Ethernet cable through the thread-lock sealing nut and the plug. If the Ethernet cable is already attached to a connector, please remove it first.



Step 2:

Carefully remove a section of rubber coating from the end of the Ethernet cable to reveal the wires. Inset the wires to the correct pins of the connector. Plug the Ethernet cable to the connector of IP66 RJ-45 cable.



Step 3:

Fasten the RJ-45 IP66 plug to the connector of the IP66 RJ-45 cable. Lastly, tighten the thread-lock sealing nut to the plug.





Step 4:

Connect the other end of the Ethernet cable to a waterproof PoE switch / hub.

RJ-45 Lite Cable Connection

Follow the instructions below to connect the Ethernet cable and waterproof the connector.

Step 1:

Plug one end of the Ethernet cable to the connector of the RJ-45 lite cable and coat the joint with silicone gel. Make sure there is no gap between the Ethernet cable and the connector; otherwise, waterproof function cannot be guaranteed.



Step 2:

Connect the other end of the Ethernet cable to a waterproof PoE switch / hub.



System Requirements 3.

To perform the IP camera via web browser, please ensure the PC is in good network connection, and meet the system requirements as described below.

Items	System Requirement
	1. Intel [®] Pentium [®] M, 2.16 GHz or
Personal Computer	Intel [®] Core™2 Duo, 2.0 GHz
	2. 2 GB RAM or more
Operating System	Windows VISTA / Windows XP / Windows 7
Web Browser	Microsoft Internet Explorer 6.0 or later
	Firefox
	Chrome
	Safari
Network Card	10Base-T (10 Mbps) or 100Base-TX (100 Mbps) operation
Viewer	ActiveX control plug-in for Microsoft IE



4. Access Camera

For initial access to the IP camera, users can search the camera through the installer program: DeviceSearch.exe, which can be found in "DeviceSearch" folder in the supplied CD.

Accessing the Camera by Device Search Software

Step 1: Double click on the program Device Search.exe.

- **Step 2:** After its window appears, click on the <Device Search> button on the top. All the finding IP devices will be listed in the page.
- **Step 3:** Find the camera in the list by its IP address and click on it. The default IP address of the camera is: **192.168.0.250**.
- Step 4: The default IP address of the camera may not be in the same LAN as the IP address of the PC. If so, the IP address of the camera needs to be changed. Right click on the camera and click <Network Setup>. Meanwhile, record the MAC address of the camera, for future identification.
- Step 5: The <Network Setup> page will come out. Select <DHCP> and click <Apply> down the page. The camera will be assigned with a new IP address.
- **Step 6:** Click <OK> on the Note of setting change. Wait for one minute to re-search the camera.
- Step 7: Click on the <Device Search> button to re-search all the devices. Find the camera in the list by its MAC address. Then double click or right click and select <Browse> to access the camera directly via a web browser.



Step 8: A prompt window requesting for default username and password will appear. Enter the default username and password shown below to login to the camera.

Login ID	Password
Admin	1234



NOTE: ID and password are case sensitive.



NOTE: It is strongly advised that administrator's password be altered for the security concerns. Refer to the Full HD Multiple Streams IP Camera Menu Tree in the supplied CD for further details.

Installing DC Viewer Software Online

For the initial access to the IP camera, a client program, DC Viewer, will be automatically installed on the PC when connecting to the camera.

If the web browser doesn't allow DC Viewer installation, please check the Internet security settings or ActiveX controls and plug-ins settings (refer to Appendix C: Setup Internet Security) to continue the process.

The Information Bar (just below the URL bar) may come out and ask for permission to install the ActiveX Control for displaying video in browser. Right click on the Information Bar and select <Install ActiveX Control...> to allow the installation.

The download procedure of DC Viewer software is specified as follows.

- Step 1: In the DC Viewer installation window, click on <Next> to start installation.
- **Step 2**: The status bar will show the installation progress. After the installation is completed, click on <Finish> to exit the installation process.
- **Step 3:** Click on <Finish> to close the DC Viewer installation page.



Once the DC Viewer is successfully installed, the Home page of the IP camera will be able to correctly display as the figure below.





NOTE: Please refer to the Full HD Multiple Streams IP Camera Menu Tree in the supplied CD for more button function details.



5. Setup Video Resolution

Users can setup video resolution on Video Format page of the user-friendly browser-based configuration interface.

Video Format can be found under this path: **Streaming> Video Format**.

×i7	Home System Streaming Camera Logout
Video Format	Video Format
Video Compression	Video Resolution :
Video ROI	H.264 + H.264
Video OCX Protocol	H.264-1 format : 1920 x 1080 (15 fps) V
Video Frame Rate	H.264-2 format : 640 x 480 (30 fps) ▼ BNC support : N/A
Video Mask	Save
Audio	
	Note : Image attachment by FTP or E-mail will be available only while MIDEG streaming is selected
	Text Overlay Settings :
	✓ Include date ✓ Include time
	Position: topright V
	Include text string:
	Save
	Video Rotate Type :
	Normal video 🗸
	Save
	GOV Settings :
	H.264-1 GOV Length : 30 H.264-2 GOV Length : 30
	H.264-3 GOV Length : 30 H.264-4 GOV Length : 30
	Save
	H.264 Profile :
Sistemas de video IP	H.264-1 : Main profile V H.264-2 : Main profile V
Sistemas de video IP	H.264-3 : Main profile V H.264-4 : Main profile V
	Save

The default value of video resolution is as below.

2M	H.264- 1920 x 1080 (15 fps) + H.264- 1280 x 720 (30 fps)
2M Real-time	H.264- 1920 x 1080 (30 fps) + H.264 720 x 480 (30 fps)

For more details about combinations of video resolution, please refer to the <u>Full HD Multiple Stream IP Camera Menu Tree</u> in the supplied CD.



Configuration Files Export / Import 6.

To export / import configuration files, users can access the Maintenance page on the user-friendly browser-based configuration interface.

The Maintenance setting can be found under this path: **System> Maintenance**.

Users can export configuration files to a specified location and retrieve data by uploading an existing configuration file to the camera.

Export

Users can save the system settings by exporting the configuration file (.bin) to a specified location for future use. Click on the <Export> button, and the popup File Download window will come out. Click on <Save> and specify a desired location for saving the configuration file.

Upload

To upload an existing configuration file to the camera, please first click on <Browse> to select the configuration file, and then click on the <Upload> button for uploading.



Appendix A: Technical Specifications

Camera		2M
Image Sensor		1/2 7" Progressive CMOS
Effective Pixels		1920 (H) x 1080 (V/)
Shutter Speed		1 1/1000 sec
l ens		1 ~ 1/10000 Sec.
Eccol Longth		2.8 mm / 4.0 mm
Focal Length		2.0 IIIII / 4.0 IIIII
F Number		2.0 mm F1 5
		4.0 IIIII- F1.5
FOV		2.0 IIIII- 105.0
Minimum Illumi	nation	4.0 IIIII- 70.0
Operation	nation	0.1 lux (Color)
Operation		English / French / Cormon / Italian / Jananaga / Karaan / Dartuguaga /
Multiple Langua	ages	English / French / German / Italian / Japanese / Korean / Polluguese /
	Backlight Compensation	
	Noise Reduction (2D)	
	Noise Reduction (3D)	017/01
	Drive av March	On / Off
	Privacy Mask	On / Off
	Brightness	Manual
	Exposure	Auto / Manual
Image Setting	Sharpness	Manual
	Contrast	Manual
	Saturation	Manual
	Hue	Manual
	Digital Zoom	Support
	Motion Detection	On / Off
	Privacy Mask Type	Color
	Tampering Alarm	On / Off
Audia	One-way Audio*	Mic In
Audio Compression		G.711 / G.726
Network	•	
Interface		RJ-45, 10/100 Mbps Ethernet
Video Compres	sion	H.264 (MPEG-4 Part 10/AVC) / MJPEG
		Dual Streams- H.264 + H.264 / MJPEG
Video Streamin	Ig	Quad Streams- H.264 + H.264 + H.264 + H.264 / MJPEG
		H.264- Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D1 / VGA / CIF
Video Resolutio	on	MJPEG- Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D1 / VGA / CIF
		Single Stream- 1080P (30/25 fps)
Frame Rate		Dual Streams- 1080P (13/15 fps) + 720P (30/25 fps)
		IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP,
Protocol		DHCP. PPPoE. UPnP. IGMP. SNMP. QoS. ONVIF. ARP
Security		HTTPS / IP Filter / IEEE 802.1X
Event Notificati	on	HTTP / FTP / SMTP
microSD*		microSDHC 32GB support
Supported Web	Browser	Internet Explorer (6.0+) / Chrome / Firefox / Safari
		20
Password Leve	le	Liser and Administrator
Mechanical		
Lens Mounting		M12 Board Lens
Connectore	Ethorpot	
Connectors	Ethemet	KJ-40
	poraturo	
Operating Terri		-10 C ~ 50 C (14 F ~ 122 F)
User and Admi		
vveatnerproof S	standard	Rugged Camera- IP66
Dimension		Ø 110.2 x 4/./ mm (Ø 4.3 x 1.9 in.)
Weight		180.0 g (0.40 lb)
Power Source		PoE
Power Consum	ption	3.5 W
Regulatory		CE / FCC / RoHS



Camera		2M- Sony Sensor
Image Sensor		1/2.8" Sony Progressive CMOS
Effective Pixels	i i i i i i i i i i i i i i i i i i i	1920 (H) x 1080 (V)
Shutter Speed		1 ~ 1/10000 sec.
Lens		
Focal Length		3.6 mm
F Number		F1.8
FOV		71.8°
Minimum Illumi	nation	TBD
Operation		
Multiple Langua	2005	English / French / German / Italian / Japanese / Korean / Portuguese /
		Russian / Simplified Chinese / Spanish / Traditional Chinese
	Backlight Compensation	On / Off
	White Balance	AWB / ATW / Manual / One Push
	Noise Reduction (3D)	On / Off
	Wide Dynamic Range	On / Off
	Privacy Mask	On / Off
	Brightness	Manual
	Exposure	Auto / Manual
Image Setting	Sharpness	Manual
	Contrast	Manual
	Saturation	Manual
	Hue	Manual
	Digital Zoom	Support
	Motion Detection	On / Off
	Privacy Mask Type	Color
	Tampering Alarm	On / Off
Audia	One-way Audio*	Mic In
Audio Compression		G.711 / G.726
Network		
Interface		RJ-45, 10/100 Mbps Ethernet
Video Compres	sion	H.264 (MPEG-4 Part 10/AVC) / MJPEG
Video Streamin	D	Dual Streams- H.264 + H.264 / MJPEG
video otreamin	9	Quad Streams- H.264 + H.264 + H.264 + H.264 / MJPEG
Video Resolutio	n	H.264- Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D1 / VGA / CIF
		MJPEG- Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D1 / VGA / CIF
Frame Rate		Single Stream- 1080P (30/25 fps)
		Dual Streams- 1080P (13/15 fps) + 720P (30/25 fps)
Protocol		IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP,
1 1010001		DHCP, PPPoE, UPnP, IGMP, SNMP, QoS, ONVIF, ARP
Security		HTTPS/IPFilter/IEEE 802.1X
Event Notification	on	HIIP/FIP/SMIP
microSD*	_	microSDHC 32GB support
Supported Web	Browser	Internet Explorer (6.0+) / Chrome / Firefox / Safari
User Account		20
Password Leve	ls	User and Administrator
Mechanical		
Lens Mounting	I	M12 Board Lens
Connectors Ethernet		RJ-45
General		
Operating Tem	perature	-10°C ~ 50°C (14°F ~ 122°F)
User and Admir	nistrator	10% ~ 90%, No Condensation
Weatherproof S	Standard	Rugged Camera- IP66
Dimension		Ø 110.2 x 47.7 mm (Ø 4.3 x 1.9 in.)
Weight		180.0 g (0.40 lb)
Power Source		PoE
Power Consum	ption	3.5 W
Regulatory		CE / FCC / RoHS

Camera		2M Real-time
Image Sensor		1/2.7" Progressive CMOS
Effective Pixels		1920 (H) x 1080 (V)
Shutter Speed		1 ~ 1/10000 sec.
Lens		
Focal Length		2.8 mm / 4.0 mm
r ooar Eorigin		2.8 mm- F2.0
F Number		4 0 mm- F1 5
		2.8 mm- 105.0°
FOV		4.0 mm- 78.0°
Minimum Illumi	nation	
Operation		0.110x (00101)
operation		English / French / German / Italian / Japanese / Korean / Portuguese /
Multiple Langua	ages	Russian / Simplified Chinese / Spanish / Traditional Chinese
	Backlight Compensation	On / Off
	White Balance	AWB / ATW / Manual / One Push
	Noise Reduction (3D)	
	Wide Dynamia Banga	
		01/01
	Privacy Mask	Un / Off
	Brightness	Manual
	Exposure	Auto / Manual
Image Setting	Sharpness	Manual
	Contrast	Manual
	Saturation	Manual
	Hue	Manual
	Digital Zoom	Support
	Motion Detection	On / Off
	Privacy Mask Type	Color
		Mia In
Audio	Compression	
Compression		6.71176.726
Interface		B L 45, 10/100 Mbps Ethernet
Video Compres	aian	
video Compres	SION	H.204 (MPEG-4 Pail T0/AVG) / MJPEG
Video Streamin	g	Dual Streams- H.264 + H.264 / MJPEG
	.	Quad Streams- H.264 + H.264 + H.264 + H.264 / MJPEG
Video Resolutio	on	H.264- Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D1 / VGA / CIF
		MJPEG- Full HD 1080P / SXGA / HD /20P / XGA / SVGA / D1 / VGA / CIF
Frame Rate		Dual Streams- 1080P (30/25 fps) + D1 (30/25 fps)
Protocol		IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP,
1 1010001		DHCP, PPPoE, UPnP, IGMP, SNMP, QoS, ONVIF, ARP
Security		HTTPS / IP Filter / IEEE 802.1X
Event Notification	on	HTTP / FTP / SMTP
microSD*		microSDHC 32GB support
Supported Web	Browser	Internet Explorer (6.0+) / Chrome / Firefox / Safari
User Account		20
Password Leve	ls	User and Administrator
Mechanical		
Lens Mounting		M12 Board Lens
Connectors	Ethernet	R L45
General		
Operating Tam	poraturo	
		$-10 \ \text{C} \sim 30 \ \text{C} (14 \ \text{F} \sim 122 \ \text{F})$
User and Admir		10% ~ 90%, NO Condensation
vveatherproof S	standard	Rugged Camera- IP66
Dimension		Ø 110.2 x 47.7 mm (Ø 4.3 x 1.9 in.)
Weight		180.0 g (0.40 lb)
Power Source		PoE
Power Consum	ption	3.5 W
Regulatory		CE / FCC / RoHS



Camera		2M Real-time- Sony Sensor
Image Sensor		1/2.8" Sony Progressive CMOS
Effective Pixels		1920 (H) x 1080 (V)
Shutter Speed		1 ~ 1/10000 sec.
Lens		
Focal Length		3.6 mm
F Number		F1.8
FOV		71.8°
Minimum Illumi	nation	TBD
Operation		
Multiple Longue		English / French / German / Italian / Japanese / Korean / Portuguese /
Multiple Languages		Russian / Simplified Chinese / Spanish / Traditional Chinese
	Backlight Compensation	On / Off
	White Balance	AWB / ATW / Manual / One Push
	Noise Reduction (3D)	On / Off
	Wide Dynamic Range	On / Off
	Privacy Mask	On / Off
	Brightness	Manual
	Exposure	Auto / Manual
Image Setting	Sharpness	Manual
	Contrast	Manual
	Saturation	Manual
	Hue	Manual
	Digital Zoom	Support
	Motion Detection	On / Off
	Privacy Mask Type	Color
	Tampering Alarm	On / Off
Audia	One-way Audio*	Mic In
Audio	Compression	G.711 / G.726
Network		
Interface		RJ-45, 10/100 Mbps Ethernet
Video Compres	sion	H.264 (MPEG-4 Part 10/AVC) / MJPEG
Video Streamin	a	Dual Streams- H.264 + H.264 / MJPEG
video otreamin	9	Quad Streams- H.264 + H.264 + H.264 + H.264 / MJPEG
Video Resolutio	n	H.264- Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D1 / VGA / CIF
		MJPEG- Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D1 / VGA / CIF
Frame Rate		Dual Streams- 1080P (30/25 fps) + D1 (30/25 fps)
Protocol		IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP,
		DHCP, PPPoE, UPnP, IGMP, SNMP, QoS, ONVIF, ARP
Security		HTTPS / IP Filter / IEEE 802.1X
Event Notification	on	HIIP/FIP/SMIP
microSD*	_	microSDHC 32GB support
Supported Web	Browser	Internet Explorer (6.0+) / Chrome / Firefox / Safari
User Account		20
Password Levels		User and Administrator
Mechanical		
Lens Mounting		M12 Board Lens
Connectors	Ethernet	KJ-45
General		
Operating Lem	perature	-10°C ~ 50°C (14°F ~ 122°F)
User and Admin	nistrator	10% ~ 90%, No Condensation
Weatherproof S	Standard	Rugged Camera- IP66
Dimension		Ø 110.2 x 47.7 mm (Ø 4.3 x 1.9 in.)
vveight		180.0 g (0.40 lb)
Power Source		РоЕ
Power Consum	ption	3.5 W
Regulatory		CE / FCC / RoHS



Image Sensor 12.8° Sony Progressive CMOS Effective Pixels 2048(H) x 1536 (V) Shutter Speed 1 - 1/10000 sec. Lens Focal Length 3.6 mm Focal Length 75.3° Minimum Illumination 75.3° Mini	Camera		3M- Sony Sensor
Effective Pixels Effective Pixels Effective Pixels Ensither Speed I - 1/10000 sec. Focal Length Focal Length	Image Sensor		1/2.8" Sony Progressive CMOS
Shutter Speed 1 - 1/10000 sec. Focal Length 3.6 mm Founber F1.8 FOW 75.3° Minimum Illumination TBD Operation Russian / Simplified Chinese / Spanish / Traditional Chinese / Multiple Languages Multiple Languages English / French / German / Italian / Japanese / Korean / Portuguese / Russian / Simplified Chinese / Spanish / Traditional Chinese / Multiple Spanish / Traditional Chinese / Spanish / Traditional Chinese / Multiple Languages White Balance AWB / ATW / Manual / One Push Noise Reduction (3D) On / Off Privacy Mask On / Off Exposure Auto / Manual Exposure Auto / Manual Contrast Manual Saturation Manual Digital Zoom Support Motion Detection On / Off Privacy Mask Type Color Tampering Alarm On / Off Network RJ=44, IE/36 / HD 200P / SGA / H	Effective Pixels	;	2048 (H) x 1536 (V)
Lens 3.6 mm Focal Length 3.6 mm F Number F1.8 FOV 75.3° Operation TBD Operation English / French / German / Italian / Japanese / Korean / Portuguese / Russian / Simplified Chinese / Spanish / Traditonal Chinese Backlight Compensation AWB / ATW / Manual / One Push Noise Reduction (3D) On / Off Write Balance AWB / ATW / Manual / One Push Noise Reduction (3D) On / Off Privacy Mask On / Off Exposure Audo / Manual Exposure Audo / Manual Contrast Manual Saturation Manual Bation Detection On / Off Privacy Mask Type Color Tampering Alarm On / Off Motion Detection On / Off Privacy Mask Type Color Compression G.711 / G.726 Network RL-46 (MPEG-4 Part 10AVC) / MLPEG Video Compression H.264 (MPEG Video Streaming Quad Streams-H.264 + H.264 / MLPEG Video S	Shutter Speed		1 ~ 1/10000 sec.
Focal Length 3.6 mm FNumber F18 FOV 75.3° Minimum Illumination TBD Operation English / French / German / Italian / Japanese / Korean / Portuguese / Russian / Simplified Chinese / Spanish / Traditional Chinese Multiple Languages English / French / German / Italian / Japanese / Korean / Portuguese / Russian / Simplified Chinese / Spanish / Traditional Chinese Mide Dynamic Range On / Off Privacy Mask On / Off Brightness Manual Saturation Manual Stutration Manual Hue Manual Digital Zoom Support Motion Detection On / Off Privacy Mask Type Color Tampering Alam On / Off Hore Avalici* RJ-45, 10/100 Mbps Ethernet Interface RJ-45, 10/100 Mbps Ethernet Video Compression H.264 (MPEG-4 Part 10/AVC) / MUPEG Video Compression H.264 (MPEG-4 Part 10/AVC) / MUPEG Video Streaming Dual Streams: H.264 + H.264 / MUPEG Video Streaming Dual Streams: H.264 + H.264 / MUPEG <	Lens		
F Number FOV FOV FOV FOV FOV FOV FOV FOV FOV FOU	Focal Length		3.6 mm
FOV 75.3° Minimum Illumination TBD Operation English / French / German / Italian / Japanese / Korean / Portuguese / Russian / Simplified Chinese / Spanish / Traditional Chinese Multiple Languages English / French / German / Italian / Japanese / Korean / Portuguese / Russian / Simplified Chinese / Spanish / Traditional Chinese White Balance AWB / ATV / Marual / One Push Noise Reduction (3D) On / Off Privacy Mask On / Off Brightness Manual Saturation Manual Saturation Manual Saturation Manual Multi Digital Zoom Motion Detection On / Off Privacy Mask Type Color Tampering Alam On / Off Video Compression G.7111 / G.726 Niterface RJ-45, 10/100 Mbps Ethernet Video Compression H.246 (MPEG-4 Part 10/AVC) / MUPEG Video Streaming Dual Streams: AlaM + L264 + H.264 / MUPEG Video Streaming Dual Streams: AlaM + L264 / MUPEG Video Streaming Dual Streams: AlaM + L264 + H.264 / MUPEG Video Streaming <t< td=""><td>F Number</td><td></td><td>F1.8</td></t<>	F Number		F1.8
Minimum Illumination TBD Operation English / French / German / Italian / Japanesa / Korean / Portuguese / Russian / Simplified Chinese / Spanish / Traditional Chinese Multiple Languages Backlight Compensation On / Off White Balance AWB / ATW / Manual / One Push Noise Reduction (3D) On / Off Privacy Mask On / Off Brightness Manual Exposure Auto / Manual Contrast Manual Saturation Manual Digital Zoom Support Motio Detection On / Off Privacy Mask Type Color Tampering Alarm On / Off Network Network Video Compression Gold Multo Resolution H264 (MPEG-4Part 10/AVC) / MJPEG Video Compression Dual Streams-H.264 + H.264 / MJPEG Video Resolution H264 (MPEG-4Part 10/AVC) / MJPEG Video Resolution <	FOV		75.3°
Operation English / French / German / Italian / Japanese / Korean / Portuguese / Russian / Simplified Chinese / Spanish / Traditional Chinese Backlight Compensation On / Off White Balance AWB / ATW / Manual / One Push Noise Reduction (30) On / Off Wide Dynamic Range On / Off Privacy Mask Manual Exposure Auto / Manual Contrast Manual Contrast Manual Digital Zoom Support Motion Detection On / Off Privacy Mask Type Color Tampering Alarm On / Off Privacy Mask Type Color Tampering Alarm On / Off Privacy Mask Type Color Tampering Alarm On / Off Video Compression H.264 (MPEG-4 Part 10/AVC) / MUPEG Video Streaming Dual Streams-H.264 + H.264 + H.264 / MUPEG Video Resolution MUPEG- Fuilt HD 1080P / SXGA / HD 720P / XGA / SVGA / D Video Resolution H.264 (MPEG-4 Part 10/AVC) / MUPEG Video Resolution H.264 / AD4 + L264 + L264 + L264 + L264 / L264 + L26	Minimum Illumi	nation	TBD
Multiple Languages English / French / German / Italian / Japanese / Korean / Portuguese / Russian / Simplified Chinese / Spanish / Traditional Chinese Backlight Compensation On / Off White Balance AWB / ATW / Manual / One Push Noise Reduction (3D) On / Off Privacy Mask On / Off Brighness Manual Exposure Auto / Manual Saturation Manual Digital Zoom Support Motio Detection On / Off Privacy Mask Type Color Tampering Alarm On / Off Privacy Mask Type Color Tampering Alarm On / Off Video Compression H264 (MPEG-4 Part 10/AVC) / MJPEG Video Compression H264 (MPEG-4 Part 10/AVC) / MJPEG Video Streaming Quad Streams-H264 + H264 / HJ264 / MJPEG Video Resolution MJPEG-Fuil HD 1080P / SXGA / HD 720P / XGA / SVGA / D 1 / VGA / CIF Frame Rate Dual Streams-V264 + H264 / MJPEG Protocol Protop.UPE, FPR, PR, TSP, HTTP, HTTPS, KOR / D 1 / VGA / CIF Mase Video Streaming Dual Streams 200 x03 (Sigs + D 1 (30/25 (Sigs + T 0 1 (30/25 (Sigs + T 0 1 (30/25 (S	Operation		
Backlight Compensation On / Off White Balance AWB / ATW / Manual / One Push Noise Reduction (3D) On / Off White Balance On / Off Wide Dynamic Range On / Off Privacy Mask On / Off Brightness Manual Exposure Auto / Manual Contrast Manual Sharpness Manual Digital Zoom Support Motion Detection On / Off Privacy Mask Type Color Tampering Alarm On / Off One-way Audio* Mic in Compression G.711 / 6.726 Network Interface Nitedo Compression H.264 (MPEG-4 Part 10/AVC)/ MPEG Video Streaming Quad Streams-H.264 + H.264 / MPEG / MJPEG Video Resolution Dual Streams- 2048 x 1536 (15 fbs) + 720P / XGA / SVGA / D Video Resolution H.264-3M / Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D Video Resolution HUPEG-Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D Video Resolution H1264 - 3M / Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D	Multiple Languages		English / French / German / Italian / Japanese / Korean / Portuguese / Russian / Simplified Chinese / Spanish / Traditional Chinese
White Balance AWB / ATW / Manual / One Push Noise Reduction (3D) On / Off Wide Dynamic Range On / Off Privacy Mask On / Off Brightness Manual Exposure Auto / Manual Contrast Manual Contrast Manual Contrast Manual Batyness Manual Contrast Manual Batyness Manual Privacy Mask Type Color Tampering Alarm On / Off Motion Detection On / Off Compression C.711 / G.726 Network RJ-45, 10/100 Mbps Ethernet Interface RJ-45, 10/100 Mbps CMPEG Video Compression H.264 / MMPEG-4 Part 10/AVC) / MJPEG Video Resolution Dual Streams-H.264 + H.264 / MJPEG Video Resolution DV / VGA / CIF WPEG-Fuilt HD 1080P / SXGA / HD 720P / XGA / SVGA / DI / VGA / CIF Video Resolution DV / VGA / CIF Video Resolution DV / VGA / CIF Security H120 MSUT / SCA / HD 720P / XGA / SVGA		Backlight Compensation	On / Off
Noise Reduction (3D) On / Off Wide Dynamic Range On / Off Privacy Mask On / Off Brightness Manual Exposure Auto / Manual Contrast Manual Starpness Manual Contrast Manual Batpress Manual Digital Zoom Support Motion Detection On / Off Privacy Mask Type Color Tampering Alarm On / Off One-way Audo' Mic In Compression G.711 / G.726 Network Interface Interface RJ-45, 10/100 Mbps Ethernet Interface RJ-45, 10/100 Mbps Ethernet Video Compression Uad Streams- H.264 + H.264 / MJPEG Video Resolution Uad Streams- 2048 x 1536 (15 fps) + 720P (XGA / SVGA / D Video Resolution H.264 / M/PEG - Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D Video Resolution H.264 / M/PEG - Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D Video Resolution H.264 / MPEG - Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D Video Resolu		White Balance	AWB / ATW / Manual / One Push
Wide Dynamic Range On / Off Privacy Mask On / Off Brightness Manual Exposure Auto / Manual Exposure Manual Contrast Manual Contrast Manual Contrast Manual Digital Zoom Saturation Motion Detection On / Off Privacy Mask Type Color Tampering Alarm On / Off Audio One-way Audio* Meton Detection G. / Off Video Compression G. / 21 / G. / 226 Network RJ-45, 10/100 Mbps Ethernet Video Streaming Dual Streams: H.264 + H.264 / MJPEG Video Streaming Dual Streams: H.264 + H.264 / MJPEG Video Streaming Ouad Streams: V.264 + H.264 / MJPEG Video Streaming Dual Streams: 2048 x 1536 (15 fps) / 1080P / SXGA / HD 720P / XGA / SVGA / D1 / VGA / CIF Protocol HIPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTP, INP, JSMP, D09 (30/25 fps) + D1 (30/25 fps) Protocol IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTP, INP, SMTP, D170P / XGA / SVGA / D1 / VGA / CIF Supportid Web Browser </td <td></td> <td>Noise Reduction (3D)</td> <td>On / Off</td>		Noise Reduction (3D)	On / Off
Privacy Mask On / Off Brightness Manual Exposure Auto / Manual Exposure Auto / Manual Contrast Manual Saturation Manual Batyness Manual Saturation Manual Digital Zoom Support Micio Detection On / Off Privacy Mask Type Color Tampering Alarm On / Off One-way Audio* Mici In Compression G.711 / G.726 Network Interface Network RJ-45, 10/100 Mbps Ethernet Video Compression H.264 (MPEG-4 Part 10/AVC) / MUPEG Video Streaming Quad Streams- H.264 + H.264 + M.264 / MJPEG Video Resolution D1 / VGA/ C IF MUPEG- Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D1 / VGA/ C IF MuPEG- Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D1 / VGA/ S (sps) + D1 (3025 (sp) + D1 (S027 (sp) + D1 + PC + DP + SMTP, DHCP, PTPC = UPR + [.304 / MIPE		Wide Dynamic Range	On / Off
Brightness Manual Exposure Auto / Manual Sharpness Manual Contrast Manual Saturation Manual Hue Manual Digital Zoom Support Motion Detection On / Off Privacy Mask Type Color Tampering Alarm On / Off Audio One-way Audio* Compression G.711 / G.726 Network RJ-45, 10/100 Mbps Ethernet Interface RJ-464 (MPEG-4 Part 10/AVC) / MJPEG Video Compression H.264 + MAS4 + H.264 + H.264 / MJPEG Video Streaming Quad Streams + L.264 + H.264 + H.264 / MJPEG Video Resolution D1 / VGA / CIF Video Resolution D1 / VGA / CIF Protocol IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTP, SMTP, DHCP, PPPoE, UPPP, IGMP, SNMP, QoS, ONVIF, ARP Security Hiternet Explorer (6.0+) / Chrome / Firefox / Safari User Account 20 Password Levels User and Administrator Methoding M12 Board Lens Connet Standard Ruguad Camera-		Privacy Mask	On / Off
Exposure Auto / Manual Image Setting Sharpness Manual Contrast Manual Saturation Manual Baturation Manual Baturation Manual Digital Zoom Support Motion Detection On / Off Privacy Mask Type Color Tampering Alarm On / Off One-way Audio* Mic In Compression G.711 / G.726 Network Interface RJ-455, 10/100 Mbps Ethernet Video Compression H.264 (MPEG-4 Part 10/ACV) / MJPEG Video Streaming Quad Streams- H.264 + H.264 / MJPEG Video Streaming Quad Streams- H.264 + H.264 / MJPEG Video Resolution H.264 - 3M / Full HD 1080 / SXGA / HD 720P / XGA / SVGA / DI / VGA / CIF Frame Rate Dual Streams- 2048 x 1536 (15 fps) / 720P / 15 (ps) / Frame Rate IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, UPDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, UPDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, UPDP, RTP, RTSP, HTTP / SMTP microSD* microSDHC 32GB support Supported Web Browser <		Brightness	Manual
Image Setting Sharpness Manual Contrast Manual Saturation Manual Hue Manual Digital Zoom Support Motion Detection On / Off Privacy Mask Type Color Tampering Alarm On / Off Audio One-way Audio* Compression G.711 / G.726 Network RJ-45, 10/100 Mbps Ethernet Interface RJ-45, 10/100 Mbps Ethernet Video Compression H.264 (MPEG- APart 10/AVC) / MJPEG Video Streaming Dual Streams- H.264 + H.264 / MJPEG Video Resolution H.264-3M / Full HD 1080P / SXGA / HD 720P / XGA / SVGA / Video Resolution H.264 - SM / Full HD 1080P / SXGA / HD 720P / XGA / SVGA / Video Resolution H.264 - SM / Full HD 1080P / SXGA / HD 720P / XGA / SVGA / Protocol IPv4/v6, TCP/P, UDP, RTP, RTSP, HTTP, HTTP, S, ICMP, FTP, SMTP, DHCP, PDPE, UPP, RDP, RTSP, HTTP, HTTP, S, ICMP, FTP, SMTP, Supported Web Browser Supported Web Browser Internet Explorer (6.0+ / Chrome / Firefox / Stari User Account 20 Password Levels User and Administrator <tr< td=""><td></td><td>Exposure</td><td>Auto / Manual</td></tr<>		Exposure	Auto / Manual
Contrast Manual Saturation Manual Hue Manual Digital Zoom Support Motion Detection On / Off Privacy Mask Type Color Tampering Alarm On / Off One-way Audio* Micin Compression G.711 / G.726 Network Interface Network RJ-45, 10/100 Mbps Ethernet Interface RJ-45, 10/100 Mbps Ethernet Video Compression H.264 (MPEG-4 Part 10/AVC) / MJPEG Video Streaming Quad Streams- H.264 + H.264 + H.264 / MJPEG Video Streaming Quad Streams- H.264 + H.264 + H.264 / MJPEG Video Resolution H1264-3M / Full HD 1080P / SXGA / HD 720P / XGA / SVGA / DI / VGA / CIF MJPEG- Full HD 1080P / SXGA / HD 720P / XGA / SVGA / DI / VGA / CIF MJPEG- Full HD 1080P / SXGA / HD 720P / XGA / SVGA / DI / VGA / CIF Frame Rate Dual Streams- 2048 x 1538 (15 fps) + 720P (15 fps) / 1000P (30/25 fps) + D1 (30/25 fps) Protocol IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPE, UPNP, IGMP, GMNP, QOS, ONVIF, ARP Security HTTPS / IP Filter / IEEE 802.1X Event Notification	Image Setting	Sharpness	Manual
Saturation Manual Hue Manual Digital Zoom Support Motion Detection On / Off Privacy Mask Type Color Tampering Alarm On / Off Audio One-way Audio* Mic In Compression G.711 / G.726 Network Interface RJ-45, 10/100 Mbps Ethernet Video Compression H.264 (MPEG-4 Part 10/AVC) / MJPEG Video Streaming Quad Streams-H.264 + H.264 / MJPEG Video Streaming Quad Streams-H.264 + H.264 / MJPEG Video Resolution H.264-3M / Full HD 1080P / SXGA / HD 720P / XGA / SVGA / Video Resolution H.264 - MI / CIF MJPEG - Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D1 / VGA / CIF MJPEG - Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D1 / VGA / CIF MJPEG - Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D1 / VGA / CIF Frame Rate Dual Streams- 2048 x 1536 (15 fps) + 720P (15 fps) / Protocol IPv4/v6, TCP/IP, UDP, RTP, IGMP, SMMP, QoS, ONVIF, ARP Security HTTB / IP Filter / IEEE 802.1X Event Notification HTTB / IP Filter / IEEE 802.1X		Contrast	Manual
Hue Manual Digital Zoom Support Motion Detection On / Off Privacy Mask Type Color Tampering Alarm On / Off Audio One-way Audio* Compression G.711 / G.726 Network RJ-45, 10/100 Mbps Ethernet Video Compression H.264 (MPEG-4 Part 10/AVC) / MJPEG Video Streaming Dual Streams-H.264 + H.264 / MJPEG Video Streaming Quad Streams-H.264 + H.264 / MJPEG Video Streaming Quad Streams-H.264 + H.264 / MJPEG Video Resolution H.264 - MM/FUI HD 1080P / SXGA / MD 720P / XGA / SVGA / D Video Resolution D1 / VGA/CIF Frame Rate Dual Streams- 2048 x 1536 (15 fps) + 720P / I (30/25 fps) Protocol IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPoE, UPPP, IGMP, SNMP, Oos, ONVIF, ARP Security HTTP / IFT / SMTP Supported Web Browser Internet Explorer (6.0+) / Chrome / Firefox / Safari User Account 20 Password Levels User and Administrator Mouting M12 Board Lens Connectors Ethernet		Saturation	Manual
Digital Zoom Support Motion Detection On / Off Privacy Mask Type Color Tampering Alarm On / Off Audio One-way Audio* One-way Audio* Mic In Compression G.711 / G.726 Network Interface Interface RJ-45, 10/100 Mbps Ethernet Video Compression H.264 (MPEG-4 Part 10/AVC) / MJPEG Video Compression Ual Streams-H.264 + H.264 / MJPEG Video Streaming Quad Streams-H.264 + H.264 / MJPEG Video Resolution H.264 - SMI / Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D Video Resolution H1/VGA / CIF MUPEG- Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D 1/ VGA / CIF Protocol IPV4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, Protocol DHCP, PPOE, UP.P, IGMP, SNMP, QoS, ONVIF, ARP Security HTTP / FTP / SMTP microSD* microSDHC 32GB support Supported Web Browser Internet Explorer (6.0+) / Chrome / Firefox / Safari User Account 20 Password Levels User and Administrator		Hue	Manual
Motion Detection On / Off Privacy Mask Type Color Tampering Alarm On / Off Audio One-way Audio* One-way Audio* Mic In Compression G.711 / G.726 Network RJ-45, 10/100 Mbps Ethernet Interface RJ-45, 10/100 Mbps Ethernet Video Compression H.264 (MPEG-4 Part 10/AVC) / MJPEG Video Streaming Quad Streams-H.264 + H.264 / MJPEG Video Resolution H.264-3M / Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D1 / VGA / CIF Video Resolution H1264-3M / Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D1 / VGA / CIF Frame Rate Dual Streams- H.264 + H.264 + H.264 / MJPEG Frame Rate Dual Streams- Puber JD 720P / XGA / SVGA / D1 / VGA / CIF Frame Rate IDval Streams- Puber JD 720P / XGA / SVGA / D1 / VGA / CIF Frame Rate Dual Streams- Puber JD 720P / XGA / SVGA / D1 / VGA / CIF Protocol IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPDeG, UPP, IGMP, SNMP, QoS, ONVIF, ARP Security HTTP / TP / SMTP Supported Web Browser Internet Explorer (6.0+) / Chrome / Firefox / Safari User Account 20 </td <td></td> <td>Digital Zoom</td> <td>Support</td>		Digital Zoom	Support
Privacy Mask Type Color Tampering Alarm On / Off Audio One-way Audio* Mic In Compression G.711 / G.726 Network Interface RJ-45, 10/100 Mbps Ethernet Video Compression H.264 (MPEG-4 Part 10/AVC) / MJPEG Video Streaming Quad Streams-H.264 + H.264 + H.264 / MJPEG Video Streaming Quad Streams-H.264 + H.264 + H.264 / MJPEG Video Resolution H.264-3M / Full HD 1080P / SXGA / HD 720P / XGA / SVGA / Video Resolution H.264-3M / Full HD 1080P / SXGA / HD 720P / XGA / SVGA / Video Resolution H.264-5 Full HD 1080P / SXGA / HD 720P / XGA / SVGA / Frame Rate Dual Streams- 2048 x 1536 (15 fps) + 720P (16 fps) / Nobel (3025 fps) + 10 (30/25 fps) 1080P (30/25 fps) Protocol IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPOE, UPnP, IGMP, SMMP, Qos, ONVIF, ARP Security Event Notification HTTP / IFTP / SMTP microSD* Internet Explorer (6.0+) / Chrome / Firefox / Safari User Account 20 Password Levels User and Administrator Mechanical Lens </td <td></td> <td>Motion Detection</td> <td>On / Off</td>		Motion Detection	On / Off
Tampering Alarm On / Off Audio One-way Audio* Mic In Compression G.711 / G.726 Network RJ-45, 10/100 Mbps Ethernet Video Compression H.264 (MPEG-4 Part 10/AVC) / MJPEG Video Streaming Quad Streams- H.264 + H.264 + H.264 / MJPEG Video Resolution H.264 MPEG-4 Part 10/AVC) / MJPEG Video Resolution H.264 / MJPEG Video Resolution H.264 + H.264 + H.264 + H.264 / MJPEG Video Resolution D1 / VGA / CIF MJPEG-Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D1 / VGA / CIF Frame Rate Dual Streams- 2048 x 1536 (15 fps) + 720P (15 fps) / 1080P (30/25 fps) + D1 (30/25 fps) Protocol IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTP, SICMP, FTP, SMTP, DHCP, PPPE, UPnP, IGMP, SMMP, QoS, ONVIF, ARP Security HTTP / FTP / SMTP Supported Web Browser Internet Explorer (6.0+) / Chrome / Firefox / Safari User Account 20 Password Levels User and Administrator Mechanical Ethernet Lens Mounting M12 Board Lens Connectors Ethernet Operating Temperature -10°C ~ 50°C (14°		Privacy Mask Type	Color
Audio Mic in Compression Mic in G.711 / G.726 Network RJ-45, 10/100 Mbps Ethernet Video Compression H.264, (MPEG-4 Part 10/AVC) / MJPEG Video Streaming Quad Streams- H.264 + H.264 / MJPEG Video Streaming Quad Streams- H.264 + H.264 + H.264 / MJPEG Video Resolution H.264-3M / Full HD 1080P / SXGA / HD 720P / XGA / SVGA / Video Resolution D1 / VGA / CIF MJPEG- Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D1 / VGA / CIF Frame Rate Dual Streams- 2048 x 1536 (15 fps) + 720P (15 fps) / 1080P (30/25 fps) + D1 (30/25 fps) Protocol IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPOE, UPnP, IGMP, SNMP, QoS, ONVIF, ARP Security HTTPS / IP Filter / IEEE 802.1X Event Notification HTTP / FTP / SMTP microSD* MicroSD* Supported Web Browser Internet Explorer (6.0+) / Chrome / Firefox / Safari User Account 20 Password Levels User and Administrator Mechanical RJ-45 Connectors Ethernet General OPG* 50°C (14°F ~ 122°F) User and Administrator 10% ~ 90%, No Condensation		Tampering Alarm	On / Off
Notion Compression G.711 / G.726 Network RJ-45, 10/100 Mbps Ethernet Nitedrace RJ-45, 10/100 Mbps Ethernet Video Compression H.264 (MPEG-4 Part 10/AVC) / MJPEG Video Streaming Quad Streams-H.264 + H.264 / H.264 / MJPEG Video Resolution H.264-3M / Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D1 / VGA / CIF Video Resolution H.264-3M / Full HD 1080P / SXGA / HD 720P / XGA / D1 / VGA / CIF Frame Rate Dual Streams- 2048 x 1536 (15 fps) + 720P (15 fps) / 1080P (30/25 fps) + D1 (30/25 fps) Protocol IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPOE, UPnP, IGMP, SNMP, 0os, ONVIF, ARP Security HTTPS / IP Filter / IEEE 802.1X Event Notification HTTPS / IP Filter / IEEE 802.1X Supported Web Browser Internet Explorer (6.0+) / Chrome / Firefox / Safari User Account 20 Password Levels User and Administrator Mechanical RJ-45 Ceneral Qued Camera- IP66 Operating Temperature -10°C ~ 50°C (14°F ~ 122°F) User and Administrator 10% ~ 90%, No Condensation Wetahnical Ruged Camera- IP66	Audio	One-way Audio*	Mic In
Network Interface RJ-45, 10/100 Mbps Ethernet Video Compression H.264 (MPEG-4 Part 10/AVC) / MJPEG Video Streaming Dual Streams- H.264 + H.264 / MJPEG Quad Streams- H.264 + H.264 + H.264 / MJPEG H.264 - 3M / Full HD 1080P / SXGA / HD 720P / XGA / SVGA / Video Resolution D1 / VGA / CIF MJPEG- Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D1 / VGA / CIF Frame Rate Dual Streams- 2048 x 1536 (15 fps) + 720P (15 fps) / 1080P (30/25 fps) + D1 (30/25 fps) Protocol IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPOE, UPnP, IGMP, SNMP, QoS, ONVIF, ARP Security HTTP / FTP / SMTP microSD* Internet Explorer (6.0+) / Chrome / Firefox / Safari User Account 20 Password Levels User and Administrator Mechanical RJ-45 Connectors Ethernet Operating Temperature -10°C ~ 50°C (14°F ~ 122°F) User and Administrator 10% 90%, No Condensation Weatherproof Standard Rugged Camera IP66 Dimension 0 110.2 x 47.7 mm (0 4.3 x 1.9 in.) Weight 180.0 g (0.40 lb) Power Consumption <td< td=""><td></td><td>Compression</td><td>G.711 / G.726</td></td<>		Compression	G.711 / G.726
Interface RJ-45, 10/100 Mbps Ethernet Video Compression H.264 (MPEG-4 Part 10/AVC) / MJPEG Uideo Streaming Dual Streams- H.264 + H.264 / MJPEG H.264 - Streams- H.264 + H.264 + H.264 / MJPEG H.264 - Streams- H.264 + H.264 + H.264 / MJPEG H.264 - Streams- H.264 + H.264 + H.264 / MJPEG H.264 - Streams- H.264 + H.264 + H.264 / MJPEG H.264 - Streams- Part A + H.264 / HJPEG H.264 - Streams- Part A + H.264 / MJPEG H.264 - Streams- Part A + H.264 / MJPEG H.264 - Streams- Part A + H.264 / MJPEG H.264 - Streams-Part A + H.264 / HJPEG H.264 - Streams-Part A + H.264 / H.264 / MJPEG H.264 - Streams-Part A + H.264 / MJPEG H.160 - Streams - IP66 Dimension Ø 110.2 x 47. Tmm (Ø 4.3 x 1.9 in.) Weight 1 180.0 g (0.40 lb) Power Consumption 3.5 W Regulatory CE / FCC / RoHS	Network		
Video Compression H.264 (MPEG-4 Part 10/AVC) / MJPEG Video Streaming Dual Streams-H.264 + H.264 / MJPEG Quad Streams-H.264 + H.264 + H.264 / MJPEG H.264 - MJ264 + H.264 + H.264 / MJPEG Video Resolution H.264 - 3M / Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D 1 / VGA / CIF MyPEG- Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D 1 / VGA / CIF MJPEG-Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D 1 / VGA / CIF Frame Rate Dual Streams- 2048 x 1536 (15 fps) + 720P (15 fps) / 1080P (30/25 fps) + D1 (30/25 fps) Protocol IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, ITTPS, ICMP, FTP, SMTP, DHCP, PPOE, UPnP, IGMP, SNMP, QoS, ONVIF, ARP Security IPTTP / IPT / SMTP Security Internet Explorer (6.0+) / Chrome / Firefox / Safari User Account 20 Password Levels User and Administrator Mechanical Querating Mill Board Lens Connectors Ethernet Operating Temperature -10°C ~ 50°C (14°F ~ 122°F) User and Administrator 10% ~ 90%, No Condensation Weatherproof Standard Rugged Camera-IP66 Dimension 0 110.2 x 47.7 mm (0 4.3 x 1.9 in.) Weight 180.0 g (0.40 lb) Power Consumption 3.5 W Regulatory	Interface		RJ-45, 10/100 Mbps Ethernet
Video Streaming Dual Streams- H.264 + H.264 + H.264 / MJPEG Quad Streams- H.264 + H.264 + H.264 / MJPEG H.264 - 3M / Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D1 / VGA / CIF Video Resolution H.264 - 3M / Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D1 / VGA / CIF Frame Rate Dual Streams- 2048 x 1536 (15 fps) + 720P (15 fps) / 1080P (30/25 fps) + D1 (30/25 fps) Protocol IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPoE, UPP, IGMP, SNMP, QoS, ONVIF, ARP Security HTTPS / IP Filter / IEEE 802.1X Event Notification HTTP / FTP / SMTP microSD* microSDHC 32GB support Supported Web Browser Internet Explorer (6.0+) / Chrome / Firefox / Safari User Account 20 Password Levels User and Administrator Mechanical RJ-45 General Operating Temperature Operating Temperature -10°C - 50°C (14°F ~ 122°F) User and Administrator 10% - 90%, No Condensation Weatherproof Standard Rugged Camera - IP66 Dimension 0 110.2 x 47.7 mm (Ø 4.3 x 1.9 in.) Weight 180.0 g (0.40 lb) Power Consumption 3.5 W Regul	Video Compres	ssion	H.264 (MPEG-4 Part 10/AVC) / MJPEG
Use Action of the solutionUse Action of the solutionVideo ResolutionH.264 - H.264 + H.264	Video Streamin	a	Dual Streams- H.264 + H.264 / MJPEG
H.264-3M / Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D1 / VGA / CIFVideo ResolutionD1 / VGA / CIFMJPEG- Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D1 / VGA / CIFFrame RateDual Streams- 2048 x 1536 (15 fps) + 720P (15 fps) / 1080P (30/25 fps) + D1 (30/25 fps)ProtocolIPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPoE, UPnP, IGMP, SNMP, QoS, ONVIF, ARPSecurityIPv4/v6, TCP/IP, UDP, FILE7 / IEEE 802.1XEvent NotificationHTTPS / IP Filter / IEEE 802.1XEvent NotificationHTTP / FTP / SMTPmicroSD*microSDHC 32GB supportSupported Web BrowserInternet Explorer (6.0+) / Chrome / Firefox / SafariUser Account20Password LevelsUser and AdministratorMechanicalRJ-45ConnectorsEthernetUser and Administrator10% ~ 90%, No CondensationWeatherproof StandardRugged Camera- IP66Dimension0 110.2 x 47.7 mm (Ø 4.3 x 1.9 in.)Weight180.0 g (0.40 lb)Power Consumption3.5 WRegulatoryCE / FCC / RoHS		5	Quad Streams- H.264 + H.264 + H.264 + H.264 / MJPEG
MJPEG- Full HD 1080P / SXGA / HD 720P / XGA / SVGA / D1 / VGA / CIF Frame Rate Dual Streams- 2048 x 1536 (15 fps) + 720P (15 fps) / 1080P (30/25 fps) + D1 (30/25 fps) Protocol IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPoe, UPnP, IGMP, SNMP, QoS, ONVIF, ARP Security IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPoe, UPnP, IGMP, SNMP, QoS, ONVIF, ARP Security IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPoe, UPnP, IGMP, SNMP, QoS, ONVIF, ARP Security ITTP / FTP / SMTP microSD* microSDHC 32GB support Supported Web Browser Internet Explorer (6.0+) / Chrome / Firefox / Safari User Account 20 Password Levels User and Administrator Mechanical 0 Lens Mounting M12 Board Lens Connectors Ethernet General -10°C ~ 50°C (14°F ~ 122°F) User and Administrator 10% ~ 90%, No Condensation Weatherproof Standard Rugged Camera- IP66 Dimension 0 110.2 x 47.7 mm (Ø 4.3 x 1.9 in.) Weight 180.0 g (0.40 lb) Power Consumption 3.5 W Regulatory CE / FCC / RoHS	Video Deselutio		H.264- 3WI / FUILED TU80P / SXGA / HD 720P / XGA / SVGA /
Frame Rate Dual Streams- 2048 x 1536 (15 fps) / 720P (15 fps) / 1080P (30/25 fps) Protocol IPv4/v6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP, DHCP, PPPoE, UPnP, IGMP, SNMP, QoS, ONVIF, ARP Security HTTPS / IP Filter / IEEE 802.1X Event Notification HTTP / FTP / SMTP microSD* Supported Web Browser Supported Web Browser Internet Explorer (6.0+) / Chrome / Firefox / Safari User Account 20 Password Levels User and Administrator McChanical RJ-45 Connectors Ethernet Operating Temperature -10°C ~ 50°C (14°F ~ 122°F) User and Administrator 10% ~ 90%, No Condensation Weatherproof Standard Rugged Camera- IP66 Dimension Ø 110.2 x 47.7 mm (Ø 4.3 x 1.9 in.) Weight 180.0 g (0.40 lb) Power Consumption 3.5 W Regulatory CE / FCC / RoHS	Video Resolution		
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ProtocolIn Va/V0, FOLY, FOLY, FOLY, FULY,			
Briol (FITTOL, OTM, 1, ORM, 1, GRO, OTM, 1, RR Security HTTPS / IP Filter / IEEE 802.1X Event Notification HTTP / FTP / SMTP microSD* microSDHC 32GB support Supported Web Browser Internet Explorer (6.0+) / Chrome / Firefox / Safari User Account 20 Password Levels User and Administrator Mechanical User and Administrator Lens Mounting M12 Board Lens Connectors Ethernet Repeating Temperature -10°C ~ 50°C (14°F ~ 122°F) User and Administrator 10% ~ 90%, No Condensation Weatherproof Standard Rugged Camera- IP66 Dimension 0 110.2 x 47.7 mm (Ø 4.3 x 1.9 in.) Weight 180.0 g (0.40 lb) Power Source PoE Power Consumption 3.5 W Regulatory CE / FCC / RoHS	Protocol		DHCP PPPoF LIPoP IGMP SNMP OoS ONVIE ARP
Event Notification HTTP / FTP / SMTP microSD* microSDHC 32GB support Supported Web Browser Internet Explorer (6.0+) / Chrome / Firefox / Safari User Account 20 Password Levels User and Administrator Mechanical 20 Lens Mounting M12 Board Lens Connectors Ethernet RJ-45 General Operating Temperature -10°C ~ 50°C (14°F ~ 122°F) User and Administrator 10% ~ 90%, No Condensation Weatherproof Standard Rugged Camera- IP66 Dimension Ø 110.2 x 47.7 mm (Ø 4.3 x 1.9 in.) Weight 180.0 g (0.40 lb) Power Consumption 3.5 W Regulatory CE / FCC / RoHS	Security		HTTPS / IP Filter / IEEE 802 1X
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Supported Web Browser Internet Explorer (6.0+) / Chrome / Firefox / Safari User Account 20 Password Levels User and Administrator Mechanical M12 Board Lens Lens Mounting M12 Board Lens Connectors Ethernet General -10°C ~ 50°C (14°F ~ 122°F) User and Administrator 10% ~ 90%, No Condensation Weatherproof Standard Rugged Camera- IP66 Dimension Ø 110.2 x 47.7 mm (Ø 4.3 x 1.9 in.) Weight 180.0 g (0.40 lb) Power Consumption 3.5 W Regulatory CE / FCC / RoHS	microSD*	011	microSDHC 32GB support
User Account 20 Password Levels User and Administrator Mechanical M12 Board Lens Lens Mounting M12 Board Lens Connectors Ethernet General -10°C ~ 50°C (14°F ~ 122°F) User and Administrator 10% ~ 90%, No Condensation Weatherproof Standard Rugged Camera- IP66 Dimension Ø 110.2 x 47.7 mm (Ø 4.3 x 1.9 in.) Weight 180.0 g (0.40 lb) Power Source PoE Power Consumption 3.5 W Regulatory CE / FCC / RoHS	Supported Web	Browser	Internet Explorer (6.0+) / Chrome / Firefox / Safari
Password Levels User and Administrator Mechanical Image: M12 Board Lens Lens Mounting M12 Board Lens Connectors Ethernet General RJ-45 Operating Temperature -10°C ~ 50°C (14°F ~ 122°F) User and Administrator 10% ~ 90%, No Condensation Weatherproof Standard Rugged Camera- IP66 Dimension Ø 110.2 x 47.7 mm (Ø 4.3 x 1.9 in.) Weight 180.0 g (0.40 lb) Power Source PoE Power Consumption 3.5 W Regulatory CE / FCC / RoHS			20
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Lens MountingM12 Board LensConnectorsEthernetRJ-45General-10°C ~ 50°C (14°F ~ 122°F)Operating Temperature-10°C ~ 50°C (14°F ~ 122°F)User and Administrator10% ~ 90%, No CondensationWeatherproof StandardRugged Camera- IP66DimensionØ 110.2 x 47.7 mm (Ø 4.3 x 1.9 in.)Weight180.0 g (0.40 lb)Power SourcePoEPower Consumption3.5 WRegulatoryCE / FCC / RoHS	Mechanical		
ConnectorsEthernetRJ-45GeneralOperating Temperature-10°C ~ 50°C (14°F ~ 122°F)User and Administrator10% ~ 90%, No CondensationWeatherproof StandardRugged Camera- IP66DimensionØ 110.2 x 47.7 mm (Ø 4.3 x 1.9 in.)Weight180.0 g (0.40 lb)Power SourcePoEPower Consumption3.5 WRegulatoryCE / FCC / RoHS	Lens Mounting		M12 Board Lens
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Dimension Ø 110.2 x 47.7 mm (Ø 4.3 x 1.9 in.) Weight 180.0 g (0.40 lb) Power Source PoE Power Consumption 3.5 W Regulatory CE / FCC / RoHS	Weatherproof S	Standard	Rugged Camera- IP66
Weight 180.0 g (0.40 lb) Power Source PoE Power Consumption 3.5 W Regulatory CE / FCC / RoHS	Dimension		Ø 110.2 x 47.7 mm (Ø 4.3 x 1.9 in.)
Power Source PoE Power Consumption 3.5 W Regulatory CE / FCC / RoHS	Weight		180.0 g (0.40 lb)
Power Consumption 3.5 W Regulatory CE / FCC / RoHS	Power Source		PoE
Regulatory CE / FCC / RoHS	Power Consum	notion	3.5 W
	Regulatory	• ·	CE / FCC / RoHS



Camera		5M
Image Sensor		1/2.5" Progressive CMOS
Effective Pixels		2592 (H) x 1944 (V)
Shutter Speed		1 ~ 1/10000 sec
Lens		
Focal Length		4.0 mm / 6.0 mm
r ooar Eorigan		4 0 mm- F1 8
F Number		6.0 mm- F1.6
		4.0 mm- 90.0°
FOV		6.0 mm- 57.0°
		4.0 mm- 0.1 lux (Color)
	nation	6.0 mm- TBD
Operation		
Multiple Langur	2000	English / French / German / Italian / Japanese / Korean / Portuguese /
	ages	Russian / Simplified Chinese / Spanish / Traditional Chinese
	Backlight Compensation	On / Off
	White Balance	AWB / ATW / Manual / One Push
	Noise Reduction (3D)	On / Off
	Wide Dynamic Range	On / Off
	Privacy Mask	On / Off
	Brightness	Manual
	Exposure	Auto / Manual
Image Setting	Sharppess	Manual
inage coung	Contrast	Manual
	Saturation	Manual
		Manual
	Digital Zoom	Support
	Mation Detection	
	Notion Detection	Oil / Oil
	Privacy Mask Type	Color
	Tampering Alarm	Un / Off
Audio	One-way Audio*	Mic In
	Compression	G./11/G./26
Network		
	•	
Video Compres	SION	H.264 (MPEG-4 Part 10/AVC) / MJPEG
Video Streamin	q	Dual Streams- H.264 + H.264 / MJPEG
	0	Quad Streams- H.264 + H.264 + H.264 + H.264 / MJPEG
		H.264- 5M / 3M / FUILHD 1080P / SXGA / HD /20P / XGA / SVGA /
Video Resolutio	on	
		MJPEG-FUILHD 1080P/SXGA/HD/20P/XGA/SVGA/D1/VGA/CIF
		Dual Streams- 2952 x 1944 (12 fps) + D1 (12 fps) /
Frame Rate		$2048 \times 1536 (15 \text{ fps}) + 720P (15 \text{ fps}) / 1000 \text{ fps}$
		1080P (30/25 fps) + D1 (30/25 fps)
Protocol		IPV4/V6, TCP/IP, UDP, RTP, RTSP, HTTP, HTTPS, ICMP, FTP, SMTP,
0 1		DHCP, PPPOE, UPNP, IGMP, SNMP, QOS, UNVIF, ARP
Security		HTTPS/IP Filter/IEEE 802.1X
Event Notificatio	on	
microSD*		microSDHC 32GB support
Supported Web	Browser	Internet Explorer (6.0+) / Chrome / Firefox / Safari
User Account		20
Password Levels		User and Administrator
Mechanical		
Lens Mounting		M12 Board Lens
Connectors	Ethernet	RJ-45
General		
Operating Tem	perature	-10°C ~ 50°C (14°F ~ 122°F)
User and Admir	nistrator	10% ~ 90%, No Condensation
Weatherproof S	Standard	Rugged Camera- IP66
Dimension		Ø 110.2 x 47.7 mm (Ø 4.3 x 1.9 in.)
Weight		180.0 g (0.40 lb)
Power Source		PoE
Power Consum	ption	3.5 W
Regulatory		CE / FCC / RoHS



Appendix B: Delete the Existing DC Viewer

For users who have installed the DC Viewer in the PC previously, please first remove the existing DC Viewer from the PC before accessing to the IP camera.

Deleting the DC Viewer

In the Windows <Start Menu>, activate <Control Panel>, and then double click on <Add or Remove Programs>. In the <Currently installed programs> list, select <DCViewer> and click on the button <Remove> to uninstall the existing DC Viewer.

Deleting Temporary Internet Files

To improve browser performance, it is suggested to clean up all the files in the Temporary Internet Files.

The procedure is as follows:

Step 1: Click on the <Tools> tab on the menu bar and select <Internet Options>.

Step 2: Click on the <Delete> button under <Browsing history> section. Then click on the <Delete Files> button under the <Temporary Internet files> section.

Step 3: A confirmation window will pop up. Click on <Yes> to start deleting the files.



Appendix C: Setup Internet Security

If ActiveX control installation is blocked, please either set Internet security level to default or change ActiveX controls and plug-ins settings.

Internet Security Level: Default

- Step 1: Start the Internet Explorer (IE).
- Step 2: Click on the <Tools> tab on the menu bar and select <Internet Options>.
- Step 3: Click on the <Security> tab, and select <Internet> zone.
- **Step 4:** Down the page, click on the <Default Level> button, and click on <OK> to confirm the setting. Close the browser window, and restart a new one later to access the IP camera.

ActiveX Controls and Plug-ins Settings

- Step 1: Repeat Step 1 to Step 3 of the previous section above.
- **Step 2:** Down the page, click on the <Custom Level> button to change ActiveX controls and plug-ins settings. The Security Settings window will pop up.
- **Step 3:** Under <ActiveX controls and plug-ins>, set **ALL** items (as listed below) to <Enable> or <Prompt>. Please note that the items vary by IE version.

ActiveX controls and plug-ins settings:

- 1. Binary and script behaviors.
- 2. Download signed ActiveX controls.
- 3. Download unsigned ActiveX controls.
- 4. Allow previously unused ActiveX controls to run without prompt.
- 5. Allow Scriptlets.
- 6. Automatic prompting for ActiveX controls.
- 7. Initialize and script ActiveX controls not marked as safe for scripting.
- 8. Run ActiveX controls and plug-ins.
- 9. Only allow approved domains to use ActiveX without prompt.
- 10. Script ActiveX controls marked safe for scripting*.
- 11. Display video and animation on a webpage that does not use external media player.
- Step 4: Click on <OK> to accept the settings. A prompt window will appear for confirming the setting changes, click <Yes(Y)> and close the Security Settings window.
- **Step 5:** Click on <OK> to close the Internet Options screen.
- Step 6: Close the browser window, and restart a new one later to access the IP camera.

