



Thank you for purchasing our product. If there is any question or request, please do not hesitate to contact your dealer.

This manual is applicable to the Milesight H.264&H.265 Network Camera, series shown as follows, except where otherwise indicated.

	Milesight H.264 N	etwork Camera	
Type Megapixel	1.3MP	2MP	ЗМР
Mini Dome Camera	MS-C2181-PA	MS-C3581-PA	MS-C3586-PA
IR Mini Dome Camera	MS-C2182-PA	MS-C3582-PA	MS-C3587-PA
Vandal-proof Mini Dome	MS-C2173-PA	MS-C3373-PA MS-C3573-PA	MS-C3377-PA MS-C3577-PA
Wi-Fi Mini Cube Camera	MS-C2191-PWA	-	MS-C3596-PWA
Mini Bullet Camera	MS-C2163-PNA	MS-C3263-PNA MS-C3363-PNA	MS-C3367-PNA MS-C3567-PNA
Remote Focus&Zoom Mini Bullet Camera	MS-C2163-F(I)PNA	MS-C3263-F(I)PNA MS-C3363-F(I)PNA	MS-C3367-F(I)PNA MS-C3567-F(I)PNA
Remote Focus&Zoom Pro Bullet Camera	MS-C2162-F(I)PNA	MS-C3262-F(I)PNA MS-C3362-F(I)PNA	MS-C3366-F(I)PNA MS-C3566-F(I)PNA
Remote Focus&Zoom Pro Dome Camera	MS-C2172-F(I)PNA	MS-C3272-F(I)PNA MS-C3372-F(I)PNA	MS-C3376-F(I)PNA MS-C3576F(I)PNA
Remote Focus&Zoom Pro Dome(M) Camera	MS-C2172-F(I)PMNA	MS-C3272-F(I)PMNA MS-C3372-F(I)PMNA	MS-C3376-F(I)PMNA MS-C3576-F(I)PMNA
Day&Night Pro Box Camera	MS-C2151-PA	-	MA-C3356-PA MS-C3556-PA



		Milesig	nt H.265 Network	« Camera	
Type Megapixel	2MP	3MP	4MP	5MP	4К
Mini Dome Network Camera	MS-C2981-PB	-	MS-C4481-PB	-	-
IR Mini Dome Network Camera	MS-C2982-PB	-	MS-C4482-PB	MS-C5382-PB	-
Vandal-proof Mini Dome Network Camera	MS-C2973-PB	-	MS-C4473-PB	MS-C5373-PB	-
Mini Bullet Camera	MS-C2963-PB	MS-C3763-PB	MS-C4463-PB	MS-C5363-PB	-
Remote Focus&Zoom Mini Bullet Camera	MS-C2963-F(I) PB	MS-C3763-F(I) PB	MS-C4463-F(I) PB	MS-C5363-F(I) PB	-
Remote Focus&Zoom Pro Bullet Camera	MS-C2862-F(I) PB MS-C2962-(R) F(I)PB	MS-C3762-F(I) PB	MS-C4462-F(I) PB	MS-C5362-F(I) PB	MS-C8262-F(I) PB
Remote Focus&Zoom Pro Dome Camera	MS-C2972-F(I) PB	MS-C3772-F(I) PB	MS-C4472-F(I) PB	MS-C5372-F(I) PB	-
Remote Focus&Zoom Pro Dome(M) Camera	MS-C2972-F(I) PMB	MS-C3772-F(I) PMB	MS-C4472-F(I) PMB	MS-C5372-F(I) PMB	-
Day&Night Pro Box Network Camera	MS-C2951-PB	MS-C3751-PB	MS-C4451-PB	MS-C5351-PB	-

This Manual explains how to use and manage Milesight network cameras on your network. Previous experience of networking will be of use when using the products. Please read this manual carefully before operation and retain it for future reference.

This manual may contain several technically incorrect places or printing errors, and the content is subject to change without notice. The updates will be added into the new version of this manual.



We will readily improve or update the products or procedures described in the manual.

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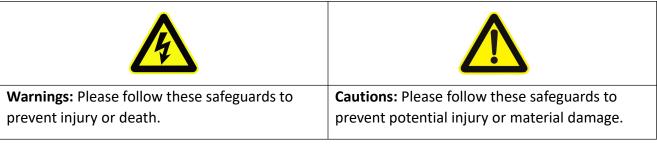
Milesight reserves the right to change this manual and the specifications without prior notice. The latest specifications and user documentation for all Milesight products are available on our official website www.milesight.com

Industry Canada ICES-003 Compliance:

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numerique de la classe B est conforme a la norme NMB-003 du Canada.



These instructions are intended to ensure that user can use the product correctly to avoid danger or property loss. The precaution measures are divided into "Warnings" and "Cautions" **Warnings:** Serious injury or death may be caused if any of these warnings is neglected. **Cautions:** Injury or equipment damage may be caused if any of these cautions are neglected.





- This installation must be conducted by a qualified service person and should strictly comply with the electrical safety regulations of the local region
- To avoid risk of fire and electric shock, do keep the product away from rain and moisture before installed.
- Do not touch components such as heat sinks, power regulators, and processors, which may be hot
- Source with DC 12V or PoE
- Please make sure the plug is firmly inserted into the power socket
- When the product is installed on a wall or ceiling, the device should be firmly fixed
- If the product does not work properly, please contact your dealer. Never attempt to disassemble the camera by yourself



Cautions

- Make sure that the power supply voltage is correct before using the camera
- Do not store or install the device in extremely hot or cold temperatures, dusty or damp locations, and do not expose it to high electromagnetic radiation
- Only use components and parts recommended by manufacturer
- Do not drop the camera or subject it to physical shock
- To prevent heat accumulation, do not block air circulation around the camera
- Laser beams may damage image sensors. The surface of image sensors should not be exposed to where a laser beam equipment is used
- Use a blower to remove dust from the lens cover
- Use a soft, dry cloth to clean the surface of the camera. Stubborn stains can be removed using a soft cloth dampened with a small quantity of detergent solution, then wipe dry
- Do not use volatile solvents such as alcohol, benzene or thinners as they may damage the surface finishes
- Save the package to ensure availability of shipping containers for future transportation

EU Conformity Statement



2012/19/EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see:www.recyclethis.info.



2006/66/EC (battery directive): This product contains a battery that cannot be disposed of as unsorted municipal waste in the European Union. See the product documentation for specific battery information. The battery is marked with this symbol, which may include lettering to indicate cadmium (Cd), lead (Pb), or

mercury(Hg). For proper recycling, return the battery to your supplier or to a designated collection point. For more information see:www.recyclethis.info.



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Chapter I Product Description

1.1 Product Overview

Milesight provides a consistent range of cost-effective and reliable network cameras to fully meet your requirements. Based on embedded Linux operating system, Milesight network cameras could be easily accessed and managed either locally or remotely with great reliability. Built-in high-performance DSP video processing modules, the cameras pride on low power consumption and high stability. They support state-of-the-art H.265/H.264/MJPEG video compression algorithm and industry-leading HD dual-stream technology to achieve the highest level of video image quality under the limited network resources. It is fully functional, supporting for flexible and comprehensive alarm linkage mechanism, day and night auto switch, smart PTZ control and privacy masking, etc.

In practical applications, Milesight network cameras could either work independently in the LAN, or be networked to form a powerful safety monitoring system. It is widely used in fields such as finance, education, industrial production, civil defense, health care for security's sake.

1.2 Key Features

- ♦ Based on Linux OS with high reliability
- ♦ H.265/H.264/MJPEG video compression capability
- ♦ Support ONVIF Profile S
- ♦ Support three streams
- ♦ Support PoE
- ♦ ICR filter with auto switch, true day/night
- ♦ Built-in WEB server, support IE/ Firefox/ Chrome/ Safari browser
- ♦ UPnP protocol for the easy management of IPC
- ♦ Support Milesight DDNS
- ♦ Motion Detection, Privacy Masking, Network Fault Detection and ROI
- ♦ FTP upload, SMTP upload, SD card record and SIP phone
- ♦ G.711/AAC audio compression capability
- ♦ Alarm I/O(built-in for pro bullet and box cameras, optional for dome cameras)
- Built-in Microphone(built-in for (IR) Mini Dome and Vandal-proof Mini Dome, optional for Pro Dome)
- ♦ Real-time video electronic amplification
- ♦ Three-privilege levels of users for flexible management
- ♦ Micro SD/SDHC/SDXC card local storage support, expand the edge storage
- ♦ Local PAL/NTSC signal output



1.3 Hardware Overview

1. Mini Dome Network Camera

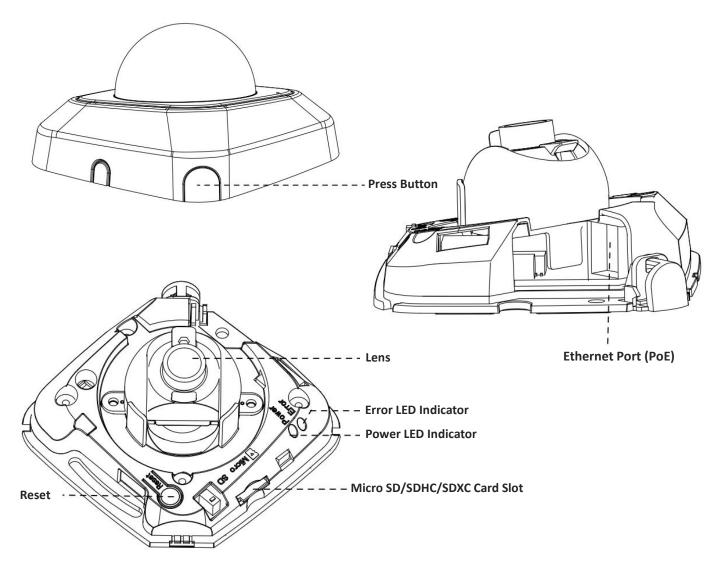


Figure 1-3-1 Mini Dome Network Camera

- 1) Error LED Indicator: Error LED Indicator is on when the device starts up or runs error.
- 2) Reset Button: Press "Reset" button for 5 seconds, then the device will be restored to factory default.
- 3) Only PoE is available for power supply.



2. IR Mini Dome Network Camera

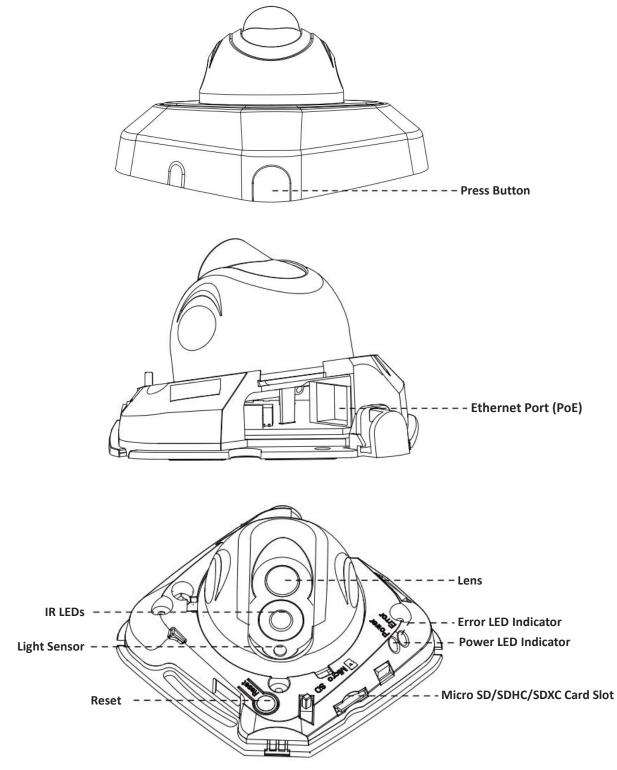


Figure 1-3-2 IR Mini Dome Network Camera

- 1) Error LED Indicator: Error LED Indicator is on when the device starts up or runs error.
- 2) Reset Button: Press "Reset" button for 5 seconds, then the device will be restored to factory default.
- 3) Only PoE is available for power supply.



3. Vandal-proof Mini Dome Network Camera

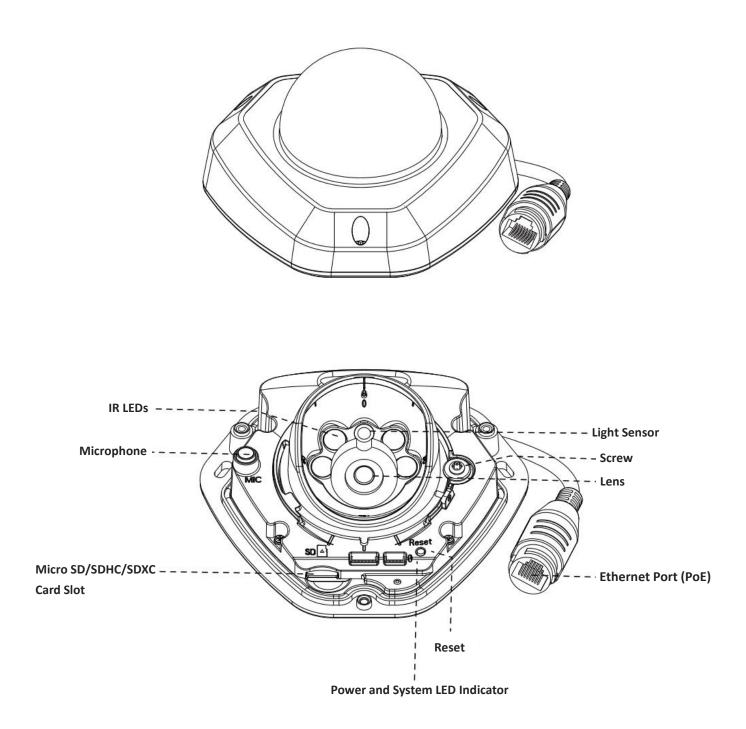


Figure 1-3-3 Vandal-proof Mini Dome Network Camera

- 1) Error LED Indicator: Error LED Indicator is on when the device starts up or runs error.
- 2) Reset Button: Press "Reset" button for 5 seconds, then the device will be restored to factory default.
- 3) Only PoE is available for power supply.



4. Wi-Fi Mini Cube Network Camera

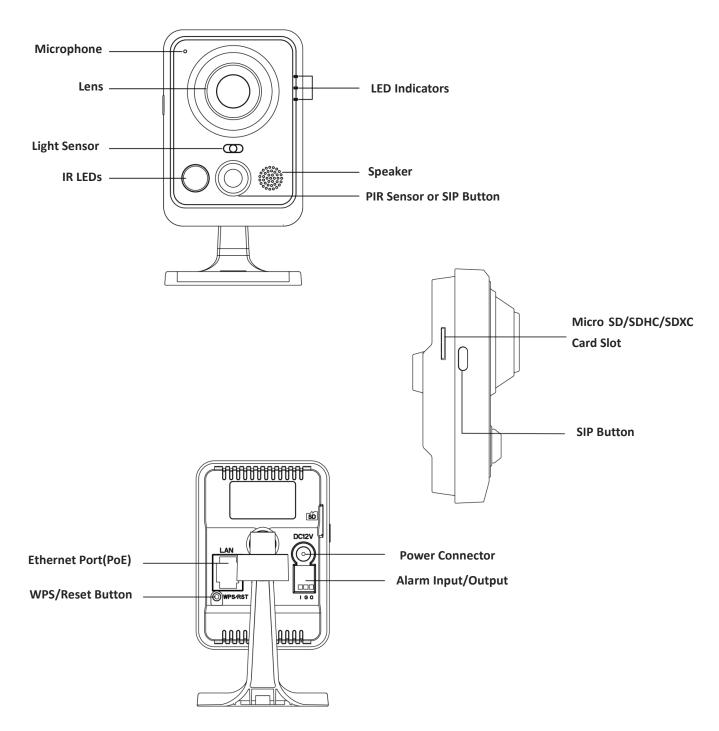


Figure 1-3-4 Wi-Fi Mini Cube Network Camera

- 1) SIP Button: Trigger alarm via SIP calling. After this button is pressed, the camera will call the SIP Phone.
- 2) WPS Button: Press this button, and then press the WPS button on your router to set up wireless connection automatically.
- 3) DC 12V and PoE are available for power supply.
- 4) Reset Button: Press "Reset" button for 5 seconds, then the device will be restored to factory default.



5. Mini Bullet Network Camera

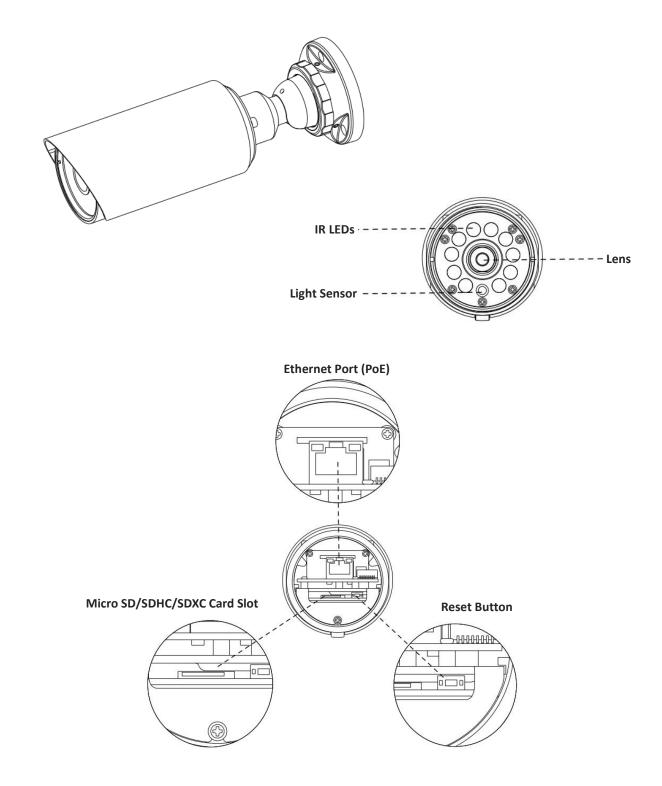


Figure 1-3-5 Mini Bullet Network Camera

- 1) Only PoE is available for power supply.
- 2) Reset Button: Press "Reset" button for 5 seconds, then the device will be restored to factory default.



6. Remote Focus&Zoom Mini Bullet Network Camera

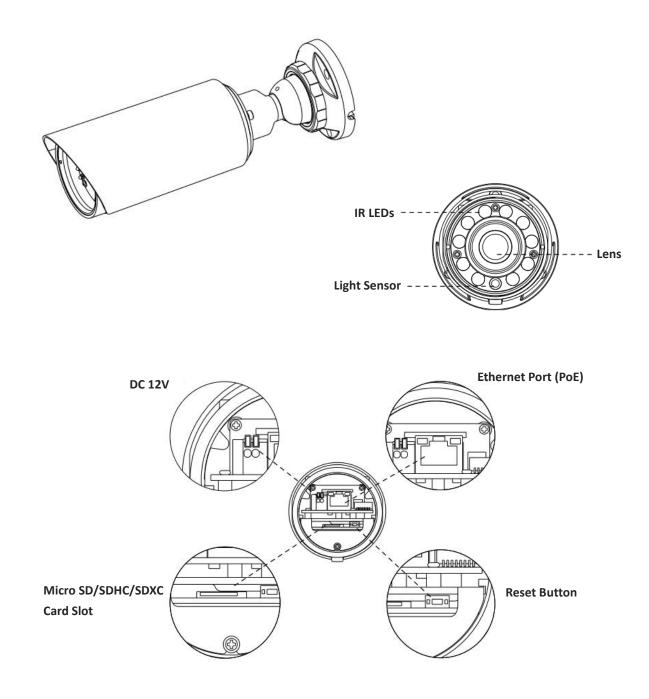


Figure 1-3-6 Remote Focus&Zoom Mini Bullet Network Camera

- 1) DC 12V and PoE are available for power supply.
- 2) Reset Button: Press "Reset" button for 5 seconds, then the device will be restored to factory default.



7. Pro Bullet Network Camera

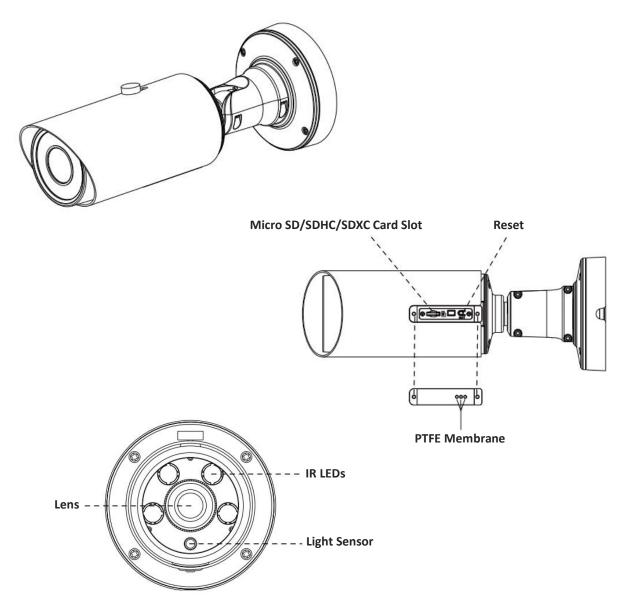


Figure 1-3-7 Pro Bullet Network Camera

- 1) DC 12V and PoE are available for power supply.
- 2) Reset Button: Press "Reset" button for 5 seconds, then the device will be restored to factory default.
- 3) There are two versions for Pro Bullet: the interface's pictures are as below.



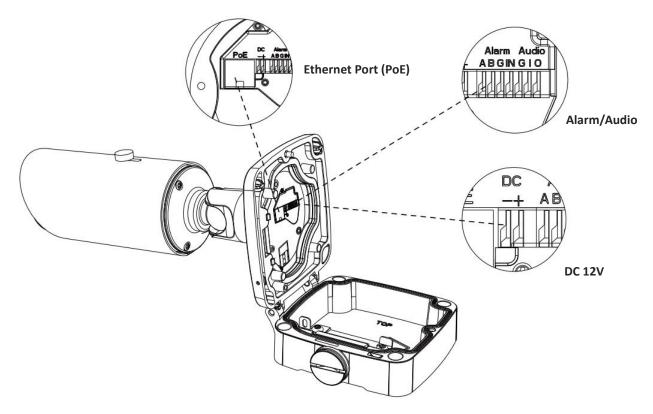


Figure 1-3-8 Pro Bullet Network Camera(Version A)

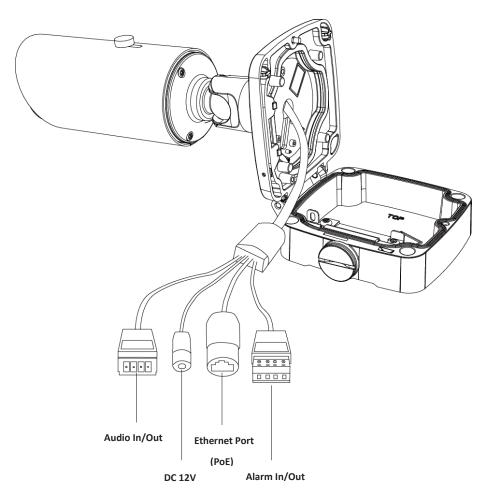


Figure 1-3-9 Pro Bullet Network Camera(Version B)



8. Pro Dome Network Camera

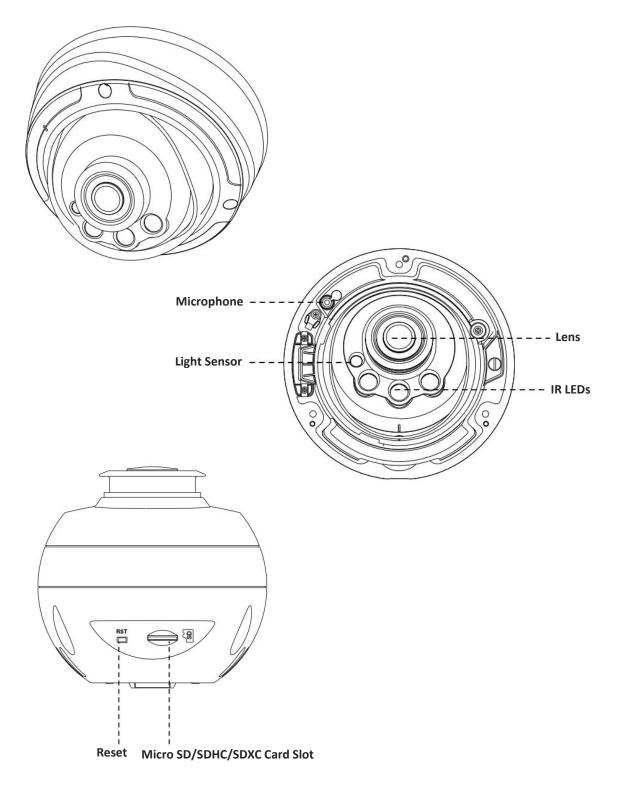


Figure 1-3-10 Pro Dome Network Camera

Note:

1) Reset Button: Press "Reset" button for 5 seconds, then the device will be restored to factory default.



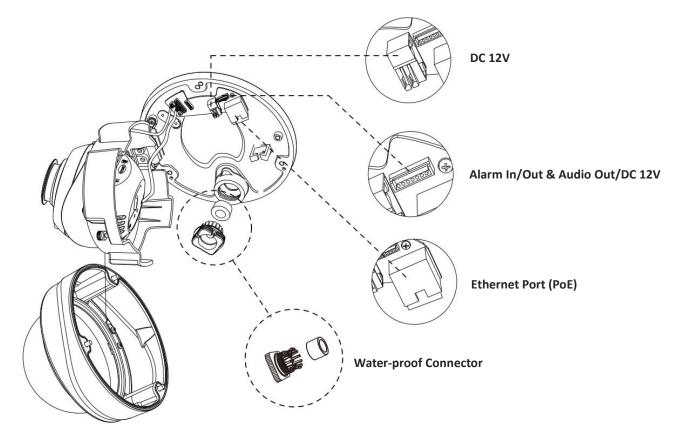


Figure 1-3-11 Pro Dome Network Camera multiple interface

Here is one equipped cable for multiple interface usage:

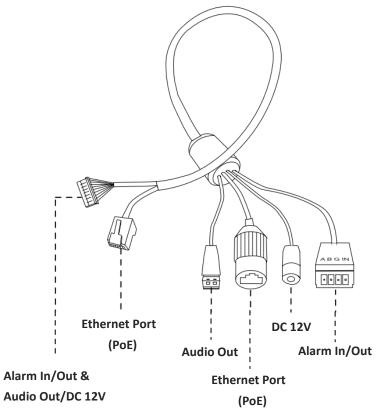
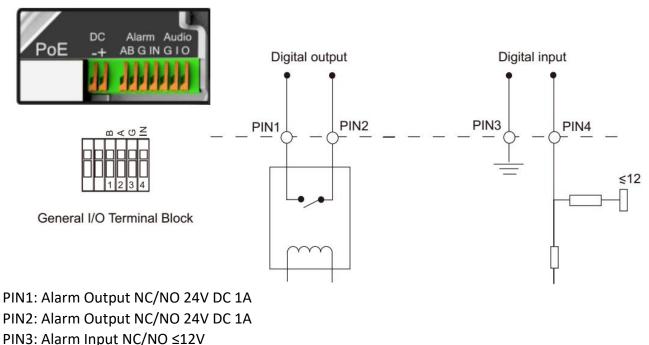


Figure 1-3-12 Pro Dome Network Camera multiple interface cable



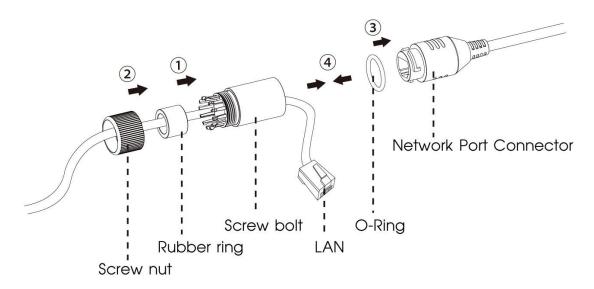
1.4 How to Connect to Alarm Interface

External interface of camera is as the following, you can refer to the picture to install the external alarm device:



PIN4: Alarm Input NC/NO $\leq 12V$

1.5 How to Connect the Water-proof Connector



Step1: Get the network cable through the screw nut, rubber ring and the screw bolt.

Step2: Insert the rubber ring into the screw bolt.

Step3: Connect the screw nut to the screw bolt.

Step4: Place the O-Ring on the network port connector.

Step5: Connect the RJ45 to the network port connector, tighten the screw bolt and the connector.





1.6 System Requirements

Operating System: Windows XP/Vista/7/8/10/Server 2000/Server 2008 CPU: 1.66GHz or higher RAM: 1G or higher Graphic memory: 128MB or more Internet protocol: TCP/IP (IPv4/IPv6) Web Browsers: Internet Explorer 8.0 and above version, Mozilla Firefox, Google Chrome and Safari.



Chapter II Network Connection

2.1 Setting the Camera over the LAN

Connecting the camera to a switch or a router is the most common connection method. The camera must be assigned an IP address that is compatible with its LAN.

2.1.1 Connect the Camera to the PC Directly

In this method, only the computer connected to the camera will be able to view the camera. The camera must be assigned a compatible IP address to the computer. Details are shown as the following figure.



Figure 2-1-1 Connect the camera to the PC directly

2.1.2 Connect via a Switch or a Router

Refer to the following figure to set network camera over the LAN via the switch or router.

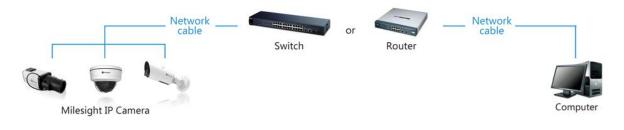


Figure 2-1-2 Connect via a switch or a Router

2.2 Dynamic IP Connection

• Connecting the network camera via a router

Step1: Connect the network camera to a router;

Step2: On the camera, assign a LAN IP address, the Subnet mask and the Gateway;

- Step3: On the router, set port forwarding. E.g. 80, 8000 and 554 ports. The steps for port forwarding vary depending on different routers. Please look up the router's user manual for assistance with port forwarding;
- Step4: Apply a domain name from a domain name provider;



Step5: Configure the DDNS settings in the setting interface of the router; Step6: Visit the camera via the domain name.

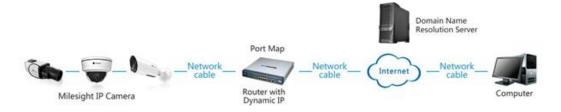


Figure 2-2 Connect the network camera via a router using dynamic IP



Chapter III Accessing the Network Camera

The camera must be assigned an IP address to be accessible.

3.1 Assigning An IP Address

The Network Camera must be assigned an IP address to be accessible. The default IP address of Milesight Network Camera is 192.168.5.190. The default user name is "admin", and password is "ms1234".

You can either change the IP address of the camera via Smart Tools or browser. Please connect the camera in the same LAN of your computer.

3.1.1 Assigning An IP Address Using Smart Tools

Smart Tools is a software tool which can automatically detect multiple online Milesight network cameras in the LAN, set IP addresses, and manage firmware upgrades. It's recommended to use when assigning IP addresses for multiple cameras.

Step1: Install Smart Tools (The software could be downloaded from our website);

Step2: Start Smart Tools, click the IPC Tools page, then enter the device information, such as IP address, MAC address, Port number, Netmask, and Gateway, then all related Milesight network cameras in the same network that will be displayed. Details are shown as Figure 3-1-1;

		Device Name	MAC	IP 🔺	Port	Netmask	Gateway	Model	Run-up Time	Version	
C	1	Network Camera	1C:C3:16:20:00:EA	192.168.5.190	80	255.255.255.0	192.168.5.1	MS-C2863-FPB	2016-02-25 18:01:10	41.6.0.43	C
r	2	IPCAM	1C:C3:16:02:30:D7	192.168.5.190	80	255.255.252.0	192.168.5.1	MS-C3658-VPM	2016-02-24 16:22:47	20.5.1.109	6
0	3	Network Camera	1C:C3:16:21:00:27	192.168.8.102	8081	255.255.252.0	192.168.9.1	MS-C2963-FPB	2016-02-05 17:42:40	40.6.0.43	0
r	4	Network Camera	1C:C3:16:11:00:14	192.168.8.105	80	255.255.252.0	192.168.8.1	MS-C3262-FPNA	2016-02-05 17:45:55	30.6.0.43	6
0	5	Network Camera	1C:C3:16:12:02:67	192.168.8.106	80	255.255.252.0	192.168.8.1	MS-C3376-FPM	2016-02-14 15:08:55	30.6.0.43	C
r	6	Network Camera	1C:C3:16:12:00:49	192.168.8.107	80	255.255.25 <mark>2.</mark> 0	192.168.8.1	MS-C3367-FPNA	2016-02-05 17:45:11	30.6.0.43	6
0	7	Network Camera	1C:C3:16:12:00:46	192.168.8.108	80	255.255.252.0	192.168.8.1	MS-C3566-FPNA	2016-02-05 17:45:11	30.6.0.43	C
C	8	IPCAM	1C:C3:16:02:1A:D4	192.168.8.146	80	255.255.252.0	192.168.8.1	MS-C3582	2016-02-24 15:54:51	27.4.0.79	6
0	9	149@Network C	1C:C3:16:12:00:57	192.168.8.149	80	255.255.252.0	192.168.8.1	MS-C3366-FPNA	2016-02-25 17:58:32	30.6.0.43	C
C	10	Network Camera	1C:C3:16:11:07:84	192.168.8. <mark>1</mark> 50	80	255.255.252.0	192.168.8.1	MS-C3582-PA	2016-02-23 11:39:57	30.6.0.43	6
0	11	IPCAM	1C:C3:16:02:37:38	192.168.8.164	80	255.255.252.0	192.168.8.1	MS-C3596-PW	2016-02-24 11:57:42	20.5.0.110	C
r	12	Network Camera	1C:C3:16:12:07:94	192.168.8.167	80	255.255.252.0	192.168.8. <mark>1</mark>	MS-C3596-PWA	2016-02-25 11:47:17	30.6.0.43-beta2	6
0	13	Network Camera	1C:C3:16:20:00:EF	192.168.8.168	80	255.255.255.0	192.168.8.1	MS-C2862-FPB	2016-02-25 17:53:28	41.6.0.43-alph	C
0/1	47	Device Name:	IP.	(Porte	Netma	ala	Gateway		INS:	-
		ig Information									odify

Figure 3-1-1 Smart Tools



Step3: Select a camera or multiple cameras according to the MAC addresses;

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I	ł	9	Smart Toc	ols	Networ		Setting Up	ograde i				ns1234
đ			Device Name	MAC	IP 🔺	Port	Netmask	Gateway	Model	Q 🤮 Run-up Time	Search here Version	
L	C	1		1C:C3:16:20:00:EA		80	255.255.255.0	192.168.5.1	MS-C2863-FPB	2016-02-25 18:01:10	41.6.0.43	0
7	С	2	IPCAM	1C:C3:16:02:30:D7	192.168.5.190	80	255.255.252.0	192.168.5.1	MS-C3658-VPM	2016-02-24 16:22:47	20.5.1.109	0
	С	3	Network Camera	1C:C3:16:21:00:27	192.168.8.102	8081	255.255.252.0	192.168.9.1	MS-C2963-FPB	2016-02-05 17:42:40	40.6.0.43	0
L	r	4	Network Camera	1C:C3:16:11:00:14	192.168.8.105	80	255.255.252.0	192.168.8.1	MS-C3262-FPNA	2016-02-05 17:45:55	30.6.0.43	0
ų	c	5	Network Camera	1C:C3:16:12:02:67	192.168.8.106	80	255.255.252.0	192.168.8.1	MS-C3376-FPM	2016-02-14 15:08:55	30.6.0.43	0
	С	6	Network Camera	1C:C3:16:12:00:49	192.168.8.107	80	255.255.252.0	192.168.8.1	MS-C3367-FPNA	2016-02-05 17:45:11	30.6.0.43	0
	С	7	Network Camera	1C:C3:16:12:00:46	192.168.8.108	80	255.255.252.0	192.168.8.1	MS-C3566-FPNA	2016-02-05 17:45:11	30.6.0.43	0
	r	8	IPCAM	1C:C3:16:02:1A:D4	192.168.8.146	80	255.255.252.0	192.168.8.1	MS-C3582	2016-02-24 15:54:51	27.4.0.79	0
1	c	9	149@Network C	1C:C3:16:12:00:57	192.168.8.149	80	255.255.252.0	192.168.8.1	MS-C3366-FPNA	2016-02-25 17:58:31	30.6.0. <mark>4</mark> 3	0
ľ	•	10	Network Camera	1C:C3:16:11:07:84	192.168.8.150	80	255.255.252.0	192.168.8.1	MS-C3582-PA	2016-02-23 11:39:56	30.6.0.43	0
1	С	11	IPCAM	1C:C3:16:02:37:38	192.168.8.164	80	255.255.252.0	192.168.8.1	MS-C3596-PW	2016-02-24 11:57:41	20.5.0.110	0
	r	12	Network Camera	1C:C3:16:12:07:94	192.168.8.167	80	255.255.252.0	192.168.8.1	MS-C3596-PWA	2016-02-25 11:47:16	30.6.0.43-beta2	0
1	c	13	Network Camera	1C:C3:16:20:00:EF	192.168.8.168	80	255.255.255.0	192.168.8.1	MS-C2862-FPB	2016-02-25 17:53:27	41.6.0.43-alph	0
	-			10.004644.00.00	10011001111			10010001				0
	1/1	147	Device Name: (N	etwork Camera	(192.168.8.150	Port	e 80 Netma	sle (255.255.2	52.0 Gateway:	192.168.8.1	DNS: 8.8.8.8	
											X) Ma	odify
	Op	eratir	ng Information									
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1	_											
										<u> </u>	Save 🚫 Cle	

Figure 3-1-2 Select single camera

1	0)——	· (*) (9—	\bigcirc		\$	
	Ĭ	Smart Too		Networ			igrade I			admin 🛛 🔒 (m Search here	s1234
		Device Name	MAC	IP 🔺	Port	Netmask	Gateway	Model	Run-up Time	Version	
n	1	Network Camera	1C:C3:16:20:00:EA	192.168.5.190	80	255.255.255.0	192.168.5.1	MS-C2863-FPB	2016-02-25 18:01:10	41.6.0.43	0
C	2	IPCAM	1C:C3:16:02:30:D7	192.168.5.190	80	255.255.252.0	192.168.5.1	MS-C3658-VPM	2016-02-24 16:22:47	20.5.1.109	0
n	3	Network Camera	1C:C3:16:21:00:27	192.168.8.102	8081	255.255.252.0	192.168.9.1	MS-C2963-FPB	2016-02-05 17:42:41	40.6.0.43	0
C	4	Network Camera	1C:C3:16:11:00:14	192.168.8.105	80	255.255.252.0	192.168.8.1	MS-C3262-FPNA	2016-02-05 17:45:54	30.6.0.43	0
m	5	Network Camera	1C:C3:16:12:02:67	192.168. <mark>8.10</mark> 6	80	255.255.252.0	192.168.8.1	MS-C3376-FPM	2016-02-14 15:08:55	30.6.0.43	0
-	6	Network Camera	1C:C3:16:12:00:49	192.168.8.107	80	255.255.252.0	192.168.8.1	MS-C3367-FPNA	2016-02-05 17:45:11	30.6.0.43	0
r	7	Network Camera	1C:C3:16:12:00:46	192.168.8.108	80	255.255.252.0	192.168.8.1	MS-C3566-FPNA	2016-02-05 17:45:11	30.6.0.43	0
r	8	IPCAM	1C:C3:16:02:1A:D4	192.168.8.146	80	255.255.252.0	192.168.8.1	MS-C3582	2016-02-24 15:54:51	27.4.0.79	0
r	9	149@Network C	1C:C3:16:12:00:57	192.168.8.149	80	255.255.252.0	192.168.8.1	MS-C3366-FPNA	2016-02-25 17:58:32	30.6.0.43	Θ
	10	Network Camera	1C:C3:16:11:07:84	192.168.8.150	80	255.255.252.0	192.168.8.1	MS-C3582-PA	2016-02-23 11:39:56	30.6.0.43	0
r	11	IPCAM	1C:C3:16:02:37:38	192.168.8.164	80	255.255.252.0	192.168.8.1	MS-C3596-PW	2016-02-24 11:57:41	20.5.0.110	0
C	12	Network Camera	1C:C3:16:12:07:94	192.168.8.167	80	255.255.252.0	192.168.8.1	MS-C3596-PWA	2016-02-25 11:47:17	30.6.0.43-beta2	0
C	13	Network Camera	1C:C3:16:20:00:EF	192.168.8.168	80	255.255.255.0	192.168.8.1	MS-C2862-FPB	2016-02-25 17:53:28	41.6.0.43-alph	0
			etwork Camera IP:	192.168.8.150) Port	⊭ <mark>80</mark> Netma	sk: (255.255.2	52.0 Gateway:	192.168.8.1	DNS: 8.8.8	dify
Ope	raun	g Information									
						Version: 2,2.				Save 🚫 Cle	ar

Figure 3-1-3 Select multiple cameras



Step4: Type the User Name and Password (admin/ms1234 for default, please change your password for your device security);

•		Device Name	MAC	IP 🔺	Port	Netmask	Gateway	Model	Run-up Time	Version	
r	1	Network Camera	1C:C3:16:20:00:EA	192.168.5.190	80	255.255.255.0	192.168.5.1	MS-C2863-FPB	2016-02-25 18:01:11	41.6.0.43	0
2	2	IPCAM	1C:C3:16:02:30:D7	192.168.5.190	80	255.255.252.0	192.168.5.1	MS-C3658-VPM	2016-02-24 16:22:48	20.5.1.109	0
C	3	Network Camera	1C:C3:16:21:00:27	192.168.8.102	8081	255.255.252.0	192.168.9.1	MS-C2963-FPB	2016-02-05 17:42:41	40.6.0.43	0
r	4	Network Camera	1C:C3:16:11:00:14	192.168.8.105	80	255.255.252.0	192.168.8.1	MS-C3262-FPNA	2016-02-05 17:45:55	30.6.0.43	0
r	5	Network Camera	1C:C3:16:12:02:67	192.168.8.106	80	255.255.252.0	192.168.8.1	MS-C3376-FPM	2016-02-14 15:08:56	30.6.0.43	0
2	6	Network Camera	1C:C3:16:12:00:49	192.168.8.107	80	255.255.252.0	192.168.8.1	MS-C3367-FPNA	2016-02-05 17:45:12	30.6.0.43	0
C	7	Network Camera	1C:C3:16:12:00:46	192.168.8.108	80	255.255.252.0	192.168.8.1	MS-C3566-FPNA	2016-02-05 17:45:12	30.6.0.43	0
C	8	IPCAM	1C:C3:16:02:1A:D4	192.168.8.146	80	255.255.252.0	192.168.8.1	MS-C3582	2016-02-24 15:54:52	27.4.0.79	0
ſ	9	149@Network C	1C:C3:16:12:00:57	192.168.8.149	80	255.255.252.0	192.168.8.1	MS-C3366-FPNA	2016-02-25 17:58:33	30.6.0.43	0
0	10	Network Camera	1C:C3:16:11:07:84	192.168.8.150	80	255.255.252.0	192.168.8.1	MS-C3582-PA	2016-02-23 11:39:58	30.6.0.43	0
C	11	IPCAM	1C:C3:16:02:37:38	192.168.8.164	80	255.255.252.0	192.168.8.1	MS-C3596-PW	2016-02-24 11:57:42	20.5.0.110	0
C	12	Network Camera	1C:C3:16:12:07:94	192.168.8.167	80	255.255.252.0	192.168.8.1	MS-C3596-PWA	2016-02-25 11:47:18	30.6.0.43-beta2	0
r	13	Network Camera	1C:C3:16:20:00:EF	192.168.8.168	80	255.255.255.0	192.168.8.1	MS-C2862-FPB	2016-02-25 17:53:28	41.6.0.43-alph	C
1/1	47	Device Name:	letwork Camera)	(192,168,8,150	Port	80 Netma	sk: 255.255.2	52.0 Gateway:	192.168.8.1	NS: 8.8.8.8	-
				-						-	odify
Dp	eratir	ig Information								\odot	Jenty
10.400											

Figure 3-1-4 Type the User Name and Password

Step5: Change the IP address or other network values, and then click "Modify" button;

F)		9—				
2	5	Smart Toc	ols	Networ		Setting Up	ograde l	Preview		admin A n Search here	1512
		Device Name	MAC	IP 🔺	Port	Netmask	Gateway	Model	Run-up Time	Version	
C	1	Network Camera	1C:C3:16:20:00:EA	192.168.5.190	80	255.255.255.0	192.168.5.1	MS-C2863-FPB	2016-02-25 18:01:10	41.6.0.43	0
C	2	IPCAM	1C:C3:16:02:30:D7	192.168.5.190	80	255.255.252.0	192.168.5.1	MS-C3658-VPM	2016-02-24 16:22:47	20.5.1.109	0
C	3	Network Camera	1C:C3:16:21:00:27	192.168.8.102	8081	255.255.252.0	192.168.9.1	MS-C2963-FPB	2016-02-05 17:42:40	40.6.0.43	0
r	4	Network Camera	1C:C3:16:11:00:14	192.168.8.105	80	255.255.252.0	192.168.8.1	MS-C3262-FPNA	2016-02-05 17:45:55	30.6.0.43	0
C	5	Network Camera	1C:C3:16:12:02:67	192.168.8.106	80	255.255.252.0	192.168.8.1	MS-C3376-FPM	2016-02-14 15:08:55	30.6.0.43	0
C	6	Network Camera	1C:C3:16:12:00:49	192.168.8.107	80	255.255.252.0	192.168.8.1	MS-C3367-FPNA	2016-02-05 17:45:11	30.6.0.43	0
C	7	Network Camera	1C:C3:16:12:00:46	192.168.8.108	80	255.255.252.0	192.168.8.1	MS-C3566-FPNA	2016-02-05 17:45:11	30.6.0.43	0
C	8	IPCAM	1C:C3:16:02:1A:D4	192.168.8.146	80	255.255.252.0	192.168.8.1	MS-C3582	2016-02-24 15:54:51	27.4.0.79	0
C	9	149@Network C	1C:C3:16:12:00:57	192.168.8.149	80	255.255.252.0	192.168.8.1	MS-C3366-FPNA	2016-02-25 17:58:32	30.6.0.43	0
•	10	Network Camera	1C:C3:16:11:07:84	192.168.8.150	80	255.255.252.0	192.168.8.1	MS-C3582-PA	2016-02-23 11:39:57	30.6.0.43	0
0	11	IPCAM	1C:C3:16:02:37:38	192.168.8.164	80	255.255.252.0	192.168.8.1	MS-C3596-PW	2016-02-24 11:57:41	20.5.0.110	0
C	12	Network Camera	1C:C3:16:12:07:94	192.168.8.167	80	255.255.252.0	192.168.8.1	MS-C3596-PWA	2016-02-25 11:47:17	30.6.0.43-beta2	0
С	13	Network Camera	1C:C3:16:20:00:EF	192.168.8.168	80	255.255.255.0	192.168.8.1	MS-C2862-FPB	2016-02-25 17:53:28	41.6.0.43-alph	0
1/1	46	Device Name: N	letwork Camera) IP:	192.168.8.150	Port	: 80 Netmas	ske 255.255.2	52.0 Gateway:	(192.168.8.1	NIS: 8.8.8.8	-
		-								Se) M	

Figure 3-1-5 Modify



Step6: Change the IP address successfully;

	-							9—				
	Ų	č	Smart Toc	ols	Networ			ograde l		_	admin 🛛 🔒 🔐	ns1234
C	1		Device Name	MAC	IP 🔺	Port	Netmask	Gateway	Model	Run-up Time	Version	
C	1	1	Network Camera	1C:C3:16:20:00:EA	192.168.5.190	80	255.255.255.0	192.1 <mark>68.5.1</mark>	MS-C2863-FPB	2016-02-25 18:01:10	41.6.0.43	0
r	7	2	IPCAM	1C:C3:16:02:30:D7	192.168.5.190	80	255.255.252.0	192.168.5.1	MS-C3658-VPM	2016-02-24 16:22:47	20.5.1.109	0
¢	-	3	Network Camera	1C:C3:16:21:00:27	192.168.8.10 2	8081	255.255.252.0	192.168.9.1	MS-C2963-FPB	2016-02-05 17:42:40	40.6.0.43	0
٢		4	Network Camera	1C:C3:16:11:00:14	192.168.8.105	80	255.255.252.0	192.168.8.1	MS-C3262-FPNA	2016-02-05 17:45:55	30.6.0.43	0
C		5	Network Camera	1C:C3:16:12:02:67	192.168.8.106	80	255.255.252.0	192.168.8.1	MS-C3376-FPM	2016-02-14 15:08:55	30.6.0.43	0
ſ	3	6	Network Camera	1C:C3:16:12:00:49	192.168.8.107	80	255.255.252.0	192.168.8.1	MS-C3367-FPNA	2016-02-05 17:45:11	30.6.0.43	0
¢	-	7	Network Camera	1C:C3:16:12:00:46	192.168.8.108	80	255.255.252.0	192.168.8.1	MS-C3566-FPNA	2016-02-05 17:45:12	30.6.0.43	0
r	-	8	IPCAM	1C:C3:16:02:1A:D4	192.168.8.146	80	255.255.252.0	192.168.8.1	MS-C3582	2016-02-24 15:54:51	27.4.0.79	0
¢		9	149@Network C	1C:C3:16:12:00:57	192.168.8.149	80	255.255.252.0	192.168.8.1	MS-C3366-FPNA	2016-02-25 17:58:32	30.6.0.43	0
		10	Network Camera	1C:C3:16:11:07:84	192.168.8.151	80	255.255.252.0	192.168.8.1	г	2016-02-23 11:39:57	30.6.0.43	0
C	T.	11	IPCAM	1C:C3:16:02:37:38	192.168.8.164	80	255.255.252.0	192.168.8.1	MS-C3596-PW	2016-02-24 11:57:42	20.5.0.110	0
r		12	Network Camera	1C:C3:16:12:07:94	192.168.8.167	80	255.255.252.0	192.168.8.1	MS-C3596-PWA	2016-02-25 11:47:17	30.6.0.43-beta2	0
c		13	Network Camera	1C:C3:16:20:00:EF	192.168.8.168	80	255.255.255.0	192.168.8.1	MS-C2862-FPB	2016-02-25 17:53:28	41.6.0.43-alph	0
1	/14	45	Device Name: N	etwork Camera)	192.168.8.151	Port	: 80 Netma	sk: 255.255.2	52.0 Gateway:	192.168.8.1	NS: 8.8.8.8	-
											*)Mc	dify
0	pe	ratin	g Information								9	
J.	1		2016-02-25 20:08:23	[1C:C3:16:11:07:84]	Modify IP:192.168.	8.150->1	92.168.8.151 succes	sfully.				
							10.00 Min			9	Save 🚫 Cle	ar

Figure 3-1-6 Change IP address successfully

Step7: By double clicking the selected camera or the browser of interested camera, you can access the camera via web browser directly. The Internet Explorer window will pop up.

terreter the sol that the sol sol so sold		
(1) (1) http://192.168.8.158/ ア・C いいのう (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Resight Network Cernera 🗙 🖉 👘 👘	n 🕸
.e Edit View Fgyorites Iools Help		
	Network Camera	
	Milesight	
	Remember me? 🗩 Language: English 💌	
	Login Reset	
	Download ActiveX	
	Copyright @ Milesight All rights reserved.	

Figure 3-1-7 Login interface

More usage of Smart Tools, please refer to the Smart Tools User Manual.

3.1.2 Assign An IP Address via Browser

If the network segment of the computer and that of the camera are different, please follow the steps to change the IP address:



Step1: Change the IP address of computer to 192.168.5.0 segment, here are two ways as below:

a. Start \rightarrow Control Panel \rightarrow Network and Internet Connection \rightarrow Network Connection \rightarrow Local Area Connection, and double click it. (Refer to Figure 3-1-8);

neral	
his capability. Otherwise, you r or the appropriate IP settings.	d automatically if your network support need to ask your network administrator
 Obtain an IP address auto Ose the following IP address 	
IP address:	192 . 168 . 1 . 10
Subnet mask:	255 . 255 . 255 . 0
Default gateway:	192 . 168 . 1 . 1
 Obtain DNS server address Use the following DNS server 	
Preferred DNS server:	192.168.1.1
Alternate DNS server:	
Validate settings upon exi	t Advanced

Figure 3-1-8 Setting Network Segment IP Address of Computer

b. Click "Advanced", and then click "IP settings" → "IP address" → "Add" (See Figure 3-1-9). In the pop-up window, enter an IP address that in the same segment with Milesight network camera (e.g. 192.168.5.61, but please note that this IP address shall not conflict with the IP address on the existing network);

P Settings DNS	WINS		
IP address		Subnet mask	
192.168.1.10		255.255.255.0	
	Add	Edit	Remove
Default gateways:			
Gateway		Metric	
192.168.1.1		Automatic	
Automatic metri	c	Edit	Remove
The second s			
The second s		Edit	Can
The second s			
Interface metric:	c		Canu

Figure 3-1-9 Setting IP Address of Computer



- Step2: Start the browser. In the address bar, enter the default IP address of the camera: http://192.168.5.190;
- Step3: Enter the user name and password when the LOGIN page appears;
 - Default user name: admin

Default password: ms1234

A COMPANY OF A COM		 • • • • • • • • • • • • • • • • • • •
🗲 🕥 🖳 http://192.168.8.158/ 🖉 - C 🛄 Milesight No	etwork Camera X	
Ele Edit View Fgvorites Iools Help		
	Network Camera	
	 Milesight 	
	Remember me? 🚥 Language: English 🔽	
	Remember me? 🗩 Language: English 💌	
	Login Reset	
	Download ActiveX	
	Copyright © Milesight All rights reserved.	

Figure 3-1-10 Login

Step4: After login, please select "Configuration" \rightarrow "Basic Settings" \rightarrow "Network" \rightarrow "TCP/IP". The Network Settings page appears (Shown as below Figure);

						wiiesigni	Network Camera
	Basic Settings >> Ne	etwork					
Milesight	тср/ір нттр	RTSP UPnP	DDNS Email F	TP VLAN PPPoE SNN	AP		
Live Video				O Get IPv4 address automatically	,		
Playback				Use fixed IPv4 address			
Desic Settings				IP Address:	192.168.8.150 Test		
Video				IPv4 Subnet Mask:	255.255.255.0		
Image				IPv4 Default Gateway:	192.168.8.2		
Audio Network				Preferred DNS Server:	8.8.8.8		
Date & Time				IPv6 Mode:	Manual		
3. Advanced Settings				IPv6 Address:			
9 System				IPv6 Prefix			
				IPv6 Default Gateway:			
Maintenance				IPv6 Default Gateway:	Sove		

Figure 3-1-11 IP Address of Camera

Step5: Change the IP address or other network values. Then click "Save" button; Step6: The change of default IP address is completed.

3.2 Accessing from the Web Browser

The camera can be used with the most standard operating systems and browsers. The recommended browsers are Internet Explorer, Firefox, Chrome, Safari.



Access over IE Browser

Before using the browser to get access to your camera, you need to install the MsActiveX firstly. You can refer the steps as follows:

Step1: Launch the IE browser and enter the IP address of the camera;

Step2: Enter the User Name and Password and click "Login";

(The default user name is "admin", password is "ms1234")

Step3: At the first time to log in the device, the browser will prompt to install Controls, please click "Click here to download and install controls manually" as Figure 3-2-1;

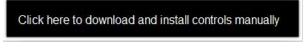


Figure 3-2-1 To download and install controls

Note:

1) During installing the controls, please keep the browsers close.

Step4: Follow the prompts to install the Controls, when it's finished, it will pop out a window as Figure 3-2-2. Please click "Finish" and refresh the browser, then you will see the video.

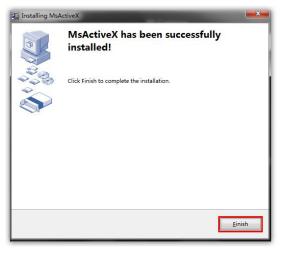


Figure 3-2-2 Finish installation

If IE9 or higher version browser is used, it is suggested that the Milesight camera web link should be added as a trusted site. See the instructions as follows:

Step1: Start the IE9 or higher version browser, and select "Tools" \rightarrow "Internet Options";

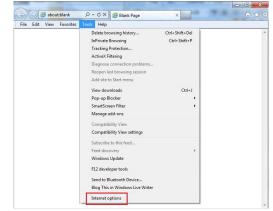


Figure 3-2-3 To add the permission



Step2: Select "Security" to "Trusted";

Genera	Securit	Privacy	Content	Connections	Programs	Advanced
	a zone to	view or cha		disites Re	Stricted	
~	This zo trust n your fi	ed sites ne contains ot to damag es. ve websites	e your con	nputer or	Site	es
Sec	arity level	for this zone				
AI	lowed leve	Is for this zo	ne: All			
-		Minimal safe Most conte All active co Appropriate	nt is down ontent can e for sites	nd warning pro loaded and rur run that you absol	n without pro lutely trust	ompts
1	Enable	rotected M		om level	Default	
			Cust	om level	Default	level
				Reset all zone	es to default	level

Figure 3-2-4 To trust the control

Step3: Enter the IP address of the camera in the blank and click "Add";

General Security Privacy Content Connections	
Internet Local intranet Trusted sites Res Trusted sites This some contains websites that you think to the damage own computer or	Trusted sites
your files. You have rebates in this zone. Security level for this zone Allowed levels for this zone: All Herdiam - Prompts before downloading potenti content - Unsigned ActiveX controls will not be	Second Second Second Add Second Second Second Second Integrations Second Second Integration Second Second
Enable Protected Mode (requires restarting Ir Custom level	Close
Reset all zones	to default level

Figure 3-2-5 Add the website to the zone

Step4: Enter the IP address. After logging on network camera's web GUI successfully, user is allowed to view live video as follows.





Figure 3-2-6 Live View Interface

3.3 Accessing from Milesight VMS (Video Management Software)

Milesight VMS(ONVIF compatible) is a handy and reliable application designed to work with network cameras in order to provide video surveillance, recording settings and event management functions. The interface of Milesight VMS is very easy to use, intuitive, with easy access to the most common activities, such as viewing live video, searching through recordings and exporting videos and snapshots. It's able to be integrated with other devices through ONVIF. It is designed to work on Windows XP/7/8/Vista/ Server 2000/ Server 2008. The software could be downloaded from our website www.milesight.com.

Please install Milesight VMS; then launch the program to add the camera to the channel list. For detailed information about how to use the software, please refer to user manual of Milesight VMS.



Figure 3-3-1 Milesight VMS Live View





Chapter IV System Operation Guide

4.1 Live Video

After logging in the network camera web GUI successfully, user is allowed to view live video as follows.

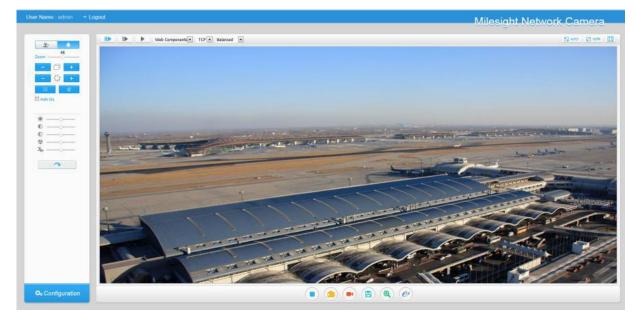


Figure 4-1-1 Live view interface

No.	Parameter	Description			
<u>⊻</u> ÷	Image: Control	Navigation key is used to control the direction.			
	PTZ Speed	PTZ rotation speed control			
		Brightness: A brighter scene appears, if a higher level of brightness is chosen			
		Contrast: The difference in color and light between parts of an image			
2	Image Adjustment	Saturation: A more vivid scene appears, if a higher leve of saturation is chose			
		Sharpness: Make image more sharp			
		Noise Reduction Level: Adjust the noise reduction level			

Table 4-1-1	Description of the buttons
-------------	----------------------------



		Default: Restore brightness, contrast and saturation to default settings
3	≎ ₀ Configuration	Click to access the configuration page
4		Choose the Stream (Primary/Secondary/Tertiary) to show on the current video window
5	Web Components	Only available for camera whose software version is 43 or above Web Components : Support Firefox, Safari, Chrome (Chrome version 44 or below); need to install the component to display the view; MJPEG : Support to display the view on Firefox, Safari, Chrome (Chrome version 45 or above); (NOTE: IE choose Web Components mode for default, in this case, it will not show the options)
6	TCP 💌	TCP : More reliable connection; UDP : More instantaneous connection, but if you cannot get the live view successfully, please turn into TCP connection;
7	Balanced	 Least Delay: Most instantaneous mode in the three modes; Balanced: Combine the fluent with timely characters; Best Fluency: Most fluent mode in the three modes;
8	Кало Window size	Click to display images at a window size
9	Real size	Click to display images at a real size
10	Full Screen	Click to display images at full-screen
11	Recording	When recording, the icon will turn red
12	9 Alarm	When an alarm was triggered, the icon appears
*	Zoom +	Adjust the Zoom length of the lens (Only work when your camera is equipped with motorized lens) Adjust focus of the lens(Only work when your camera is equipped with motorized lens) Adjust the size of Iris (Only work when your camera is equipped with P-Iris)
	S C	Auxiliary Focus and Lens Initialization (Only work when your camera is equipped with motorized lens)



	Auto iris	Adjust iris automatically if check this box (Only work when your camera is equipped with P-Iris)
14		Start/Stop live view
15	Capture	Click to capture the current image and save to the configured path. The default path is C:VMS\+-1\ IMAGE-MANUAL
16	Start Recording	Click to start recording video and save to the configured path. The default path is C:VMS\+-1\MS_Record. Click again to stop recording
17	Play Audio	Enable Audio Input/Output. It can also be set in Audio configuration page
18	Saving Path Settings	Set the saving path for captured images and video recordings of operating on the live view
19	Q Enable Digital Zoom	When enabled, you can zoom in in a specific area of video image with your mouse wheel
20	e-PTZ	Able to use PTZ to move the position

4.2 Playback

This section explains how to view the recorded video files stored in SD cards. Step1: Click [Playback] on the menu bar to enter playback interface;

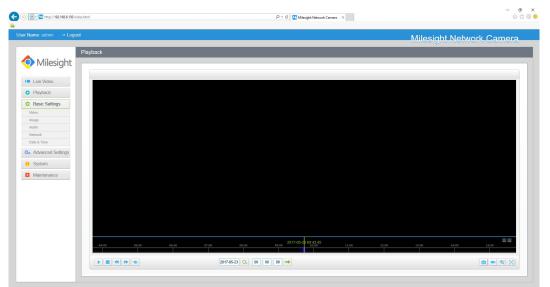


Figure 4-2-1 Playback interface



Step2: Click the date button, choose the date when date window pops up;

44 4		Aug		2015		• •	
Sun	Mon	Tue	Wed	Thu	Fri	Sat	
26	27	28	29	30	31	1	
2	3	4	5	6	7	8	
9	10	11	12	13	14	15	
16	17	18	19	20	21	22	
23	24	25	26	27	28	29	2015
30	31	1	2	3	-4	5	2010

Figure 4-2-2 Search Video

Note:

1) The date with bright red means current date; one with a dark red number and white background means weekend day; one with a dark red number and blue background means that the date is selected now.

Step3: Click logical to play the video files found on this date.

The toolbar on the button of playback interface can be used to control playing progress.

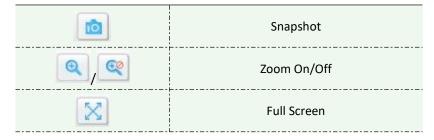
04:00	05:00	06:00	07:00	08:00	09:00	017-05-23 09:43:45 10:00	11:00	12:00	13:00	14:00	15:00
	•		201	7-05-23 🔍 00	00 00 →	J					() • • • ×

Figure 4-2-3 Playback Toolbar

Button	Operation
	Play
-	Pause
	Stop
•	Speed Down
•	Speed Up
(Audio On/Off
Q	Search
•	Go To
e / D	Time Narrow/Expand
	Start/Stop Recording

Table 4-2-1 Description of the buttons





Note:

1) Drag the progress bar with the mouse to locate the exact playback point. You can also input

the time and click to locate the playback point in the Set Playback Time filed. You can

also click o/ to zoom out/in the progress bar.

2017-05-26	a	00	00	00	-
			<u> </u>		

Figure 4-2-4 Set Payback Time

4.3 Basic Settings

4.3.1 Video

Stream parameters can be set in this module, adapting to different network environments and demands.

Primary Stream Settings

rimary Stream Secondary Stream Tertiary Stream	n		
	Video Codec:	H 264 ~	
	Frame Size:	1080P(1920*1080) ~	
	Maximum Frame Rate:	25 vitps	
	Bit Rate:	4096 v kbps	
	Bit Rate Control:	VBR v	
	Image Quality:	Medium	
	Profile:	Main	
	I-frame Interval:	50 frame(1-120)	

Figure 4-3-1 Primary Stream Settings

Secondary Stream Settings

y Stream Secondary Stream Tertiary Stream			
	Enable:		
	Video Codec:	H.264 ~	
	Frame Size:	640*480 ~	
	Maximum Frame Rate:	25 v fps	
	Bit Rate:	1024 Vkbps	
	Bit Rate Control:	VBR	
	Image Quality:	Medium	
	Profile:	Main	
	I-frame Interval:	50 frame(1-120)	

Figure 4-3-2 Secondary Stream



Tertiary Stream Settings

Basic Settings >> Video				
Primary Stream Secondary Stream Tertiary Stream				
	Enable:			
	Video Codec:	H.264 ~		
	Frame Size:	640*480 v		
	Maximum Frame Rate:	25 v tps		
	Bit Rate:	1024 v kbps		
	Bit Rate Control:	VBR ~		
	Image Quality:	Medium		
	Profile:	Main v		
	I-frame Interval:	50 frame(1-120)		
Stee				

Figure 4-3-3 Tertiary Stream

Parameters	Function Introduction		
Video Codec	There are differences for the camera with "-A" and "-B"		
	-A: H.264/MJPEG are available		
	-B: H.265/H.264/MJPEG are available		
Frame Size	Options include 4M(2592*1520), 3M(2304*1296), 3M(2048*1536),		
	1080P(1920*1080), 2M(1600 *1200), 1.3M(1280*960), 720P(1280*720), D1		
	(704*576)		
Maximum Frame Rate	Maximum refresh frame rate of per second		
Bit Rate	Transmitting bits of data per second, this item is optional only if you select the		
	H.265/H.264		
Bit Rate Control	CBR: Constant Bitrate. The rate of CBR output is constant		
	VBR: Variable Bitrate. VBR files vary the amount of output date per time		
	Segment		
Image Quality	Low/Medium/High are available, this item is optional only if you select VBR.		
Profile	The option is for H.264, Main/High can be selected according to your needs.		
I-frame Interval	Set the I-frame interval to 1^{-120} , 50 for the default. This item is optional only if		
	you select the H.265/H.264. The number must be a multiple of the number of		
	frames.		
JPEG Quality	Low/Medium/High/Higher are available, this item is optional only if you		
	selected the MJPEG		
to.			

Table 4-3-1Description of the buttons

Note:

1) The options of [Frame Size] are variable according to the model selected.

4.3.2 Image

Display information, enhancement of image and Day/Night setting can be set in this module. OSD (On Screen Display) content and video time can be displayed to rich the image information.





Display

er Name, admin 🛛 🔶 Logo	sut		Milesight Network Camera
	Basic Settings >> Image		
Milesight	Display Enhancement Day/Night Mode	OSD Privacy Mask ROI	
Live Video			
O Playback			
Ø Basic Settings			
Video		1	
Image		- ATTAL LALBORED BOTT	
Abdio		/ See Service Barbertons 100	
Network:			
Bate & Time			
O ₆ Advanced Settings			
O System		Power Line Frequency: 50Hz Y	
Maintenance		Day/Night Mode: Auto Mode V	
in the fair the		Day to Night Value: Result	
		Night to Day Value: Reset	
		IR Light Sensor Value: 0 🗢	
		CutdoonIndoor Mode: Indoor 🗸	
		Video Orientation. Normal 🗸	
		Local Display Video: Off 🗸	
		Serv	

Figure 4-3-4 Display

Parameters	Function Introduction
Power Line Frequency	60HZ flicker for NTSC mode and 50HZ flicker for PAL mode
Day/Night Mode	There are several parameters such as Exposure Level, Maximum Exposure Time and IR-CUT Interval, etc, associated with this mode Night Mode: Shown in live view based on Night Mode settings Day Mode: Shown in live view based on Day Mode settings Auto Mode: Shown in live view based on environment, set the sensitivity for switching Day Mode to Night Mode, or Night Mode to Day Mode Customize: Shown in live view based on your own settings' time to start/end Night Mode
Day To Night Value	This is the sensitivity for switching Day Mode to Night Mode . When IR Light Sensor Current Value is lower than this value, it will switch Day Mode to Night Mode
Night To Day Value	This is the sensitivity for switching Night Mode to Day Mode . When IR Light Sensor Current Value is higher than this value, it will switch Night Mode to Day Mode
IR Light Sensor Value	The current value of the IR light sensor
Outdoor/Indoor Mode	Select indoor or outdoor mode to meet your needs
Video Orientation	There are six options available, you can select one to meet your need Normal: Remain the image in normal direction Flip Horizontal: Flip the image horizontally Flip vertical: Flip the image vertically Rotating 90°: The images is presented rotating 90°

Table 4-3-2 Description of the buttons



	Rotating 180°: The images is presented upside down
	Rotating 270°: The images is presented rotating 270°
Local Display Video	Select NTSC or PAL for local display

Enhancement

er Name: admin 🛛 😁 Logi	out					Milesight Network Camera
A	Basic Settings >> Image					
Milesight	Display Enhancement	Day/Night Mode OSD	Privacy Mask ROI			
Live Video						
O Playback			Course of the second	AND THE OWNER		
Ø Basic Settings				-		
Vidro			1-	a state of the second		
Imaga			19.55	SACACIDAL	Marine .	
Audio			1 Aler Milling	- Backter		
Date & Time						
On Advanced Settings						
System			Smart IR:	Off	V	
Maintenance			White Balance:	Auto White Balance		
Maintenance			Reduce Motion Blur:	Cff	~	
			Exposure Mode:	Auto Mode	~	
			O Singk	Mode 🖲 Schedule Mode		
			BLC Region:	CH	~	
			Wide Dynamic Level:	High	~	
			Schedule Setting	Edit		
				Serve		

Figure 4-3-5 Enhancement (H.264 series)

rName:admin → Log	ut			Milesight Network Camera
	Basic Settings >> Image			
Milesight	Display Enhancement Day/Nigh	t Mode OSD Privacy Mask ROI		
Elve Video				
O Playback			NUMBER OF STREET	
O Basic Settings			and the second	
Video		1	A CONTRACTOR	
Image		- 19 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 - 3 -	ACACEBBO BOTT	
Apdio		1 Same Sansar	I R. D. C. C. C. C. C. C. C. C.	
Data & Time				
Oo Advanced Settings				
		Smart IR:	Off	2
System		White Balance:	Auto White Balance	
Maintenance		Digital Anti-feg Mode:	[Off V	
		Digital Image Stabilisation:	Off	
		Exposure Mode:	Auto Mode 🗸	
		O Single N	lade 🖲 Schedule Made	
		BLC Region:	Citi 🗸	
		Wide Dynamic Level:	Auto	
		High Light Compensation:	General Mode 🗸	
		HLC Level		
			C/R	V

Figure 4-3-6 Enhancement (H.265 series)

Parameters	Function Introduction
Smart IR	There is an option to turn On/Off the IR LED. Select smart IR on, and the IR LED changes according to the actual illumination.
	To restore white objects, removed color distortion caused by the light of
White Balance	the environment



	Auto White Balance: This option will automatically enable the White
	Balance function
	Manual White Balance: This option is only for H.265 series, set Red Gain
	Level and Blue Gain Level manually.
	Incandescent Lamp: Select this option when light is similar with
	incandescent lamp
	Warm Light Lamp: Select this option when light is similar with warm light
	lamp
	Natural Light : Select this option when there is no else light but natural light
	Fluorescent Lamp: Select this option when light is similar with Fluorescent
	Lamp
Reduce Motion Blur	This function is only for H.264 series, better image for moving objects, it
	may lead worse quality for still objects
Digital Anti-fog Mode	This function is only for H.265 series, better image effect in foggy weather,
	refers to Figure 4-3-7
Digital Image Stabilisation	This function is only for H.265 series, better image effect when image
	Auto mode/Customize mode. If you choose customize mode, the camera
Exposure Mode	adjusts the brightness according to the value you set. The higher the value,
Exposure Mode	the brighter the image.
Single Mode/Schedule Mode	Set single mode or schedule mode for BLC/WDR/HLC
	Off, Customize, and Centre are available (in single mode, only enable when
	WDR is disable)
	Off: Calculate the full range of view and offer appropriate light
BLC Region	compensation
	Customize: This option enables you to add customized windows as
	inclusive or exclusive regions manually
	Centre: This option will automatically add an inclusive region in the middle
	of the window and give the necessary light compensation
	This function enables the capture and display of both bright and dark areas
	in the same frame, there are details in both areas in this way
Wide Dynamic Range	Off: Disable WDR function
	On: Enable the WDR, there are Low/High/Auto three levels
	Customize: Customize the schedule to enable/disable the WDR function
	and set the levels with Low/High/Auto
	and set the levels with Low/High/Auto This function is only for H.265 series, adjust the brightness to a normal
	and set the levels with Low/High/Auto This function is only for H.265 series, adjust the brightness to a normal range when the light is strong, refers to Figure 4-3-8
	and set the levels with Low/High/Auto This function is only for H.265 series, adjust the brightness to a normal range when the light is strong, refers to Figure 4-3-8 Off: Disable HLC function
High Light Compensation	and set the levels with Low/High/Auto This function is only for H.265 series, adjust the brightness to a normal range when the light is strong, refers to Figure 4-3-8 Off: Disable HLC function General Mode: Enable the HLC with general mode, and there is a setting
High Light Compensation	and set the levels with Low/High/Auto This function is only for H.265 series, adjust the brightness to a normal range when the light is strong, refers to Figure 4-3-8 Off: Disable HLC function General Mode: Enable the HLC with general mode, and there is a setting for HLC Level
High Light Compensation	and set the levels with Low/High/Auto This function is only for H.265 series, adjust the brightness to a normal range when the light is strong, refers to Figure 4-3-8 Off: Disable HLC function General Mode: Enable the HLC with general mode, and there is a setting for HLC Level Enhanced Mode: Enable the HLC with enhanced mode, and there is a
High Light Compensation	and set the levels with Low/High/Auto This function is only for H.265 series, adjust the brightness to a normal range when the light is strong, refers to Figure 4-3-8 Off: Disable HLC function General Mode: Enable the HLC with general mode, and there is a setting for HLC Level
High Light Compensation HLC Level	and set the levels with Low/High/Auto This function is only for H.265 series, adjust the brightness to a normal range when the light is strong, refers to Figure 4-3-8 Off: Disable HLC function General Mode: Enable the HLC with general mode, and there is a setting for HLC Level Enhanced Mode: Enable the HLC with enhanced mode, and there is a setting for HLC Level





Figure 4-3-7 Anti-fog Image



Figure 4-3-8 HLC Image

	sut						Milesig	ht Network C	amera
	Basic Settings >> Im	age							
Milesight	Display Enhance	ment Day/Night Mode OS	D Privacy Mask R	01					
Live Video									
O Playback			Partie	The second second					
O Basic Settings			and the second se	11					
Video				1	and the second second				
im100			1000	//scattering	B. Barris				
Azdo				Au BRANSBERR	PROMINENCE INC.				
Network Date & Time									
			115		and the second				
O _o Advanced Settings				Day/Night Mode					
9 System		Day/Night Mode	Exposure Lovel	Maximum Exposure Time	IR-CUT Interval	IR-CUT	IR LED	Color Mode	
Maintenance		Night Mode:	5 💌	1/25 💌	105 🗸	01 -	On 🗸	[BW 💙]	
		Day Mode:	5 🗸	1/25 🗸	101 🗸	On 🗸	011 🗸	Color 🗸	
				Schedule Mode				10	
		Timer	Exposure Level	Maximum Exposure Time	IR-CUT Interval	IR-CUT	IR LED	Color Mode	
			5 4	1/25 ¥	102 🗸	00 ~	⊂nt ~	BW 🛩	
		00 ~: 00 ~ - 24 ~ : 00 ~							
			5 🗸	1/25 🗸	10s 🗸	06 ~	Oll A	BW V	
		$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	5 V 5 V	1/25 🗸	10s 🛩	OH V	Off ~	bw 🗸	
		$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	5 V 5 V 5 V	1/25 ¥ 1/25 ¥	10s 🛩 10s 🛩	OH V OH V	Off V	BW ✓ BW ✓	
		$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	5 V 5 V	1/25 🗸	10s 🛩	OH V	Off ~	bw 🗸	

Day/Night Mode

Figure 4-3-9 Day/Night Mode



Table 4-3-4 Description of the buttons

Parameters	Function Introduction		
Exposure Level	Level 0~10 are available to meet your need		
Maximum Exposure Set the maximum exposure time to 1/5~1/100000 Time			
IR-CUT Interval	The interval to keep the mode from switching		
IR-CUT	Choose to turn on or turn off under this mode		
IR LED	Choose to turn on or turn off under this mode		
Color Mode	Select B/W or Color mode under Day/Night mode		
Schedule Mode	Here you can customize your special demands for different time, then the Day mode and Night mode will switch automatically according to your settings		

On Screen Display(OSD)

	102			AND
er Name: admin 🛛 → Log	out.			Milesight Network Camera
	Basic Settings >> Image			0
Milesiaht	Daale Gerunga >> Intage			
Milesight	Display Enhancement Day/Night Mode OSD	Privacy Mask ROI		
Ive Video				
		variant filler of the second second	1 Martin Minimum .	
O Playback		States - Indefinition with the	Large and an and a second	
Basic Settings			and the second se	
Video		11-	and the second se	
kmage		/ States	LALACIAN BILL	
Audio Network		1 Same Minister	A DESTRICTION OF THE	
Date & Time				
Oo Advanced Settings		Video Stream:	Primary Szeszm 🗸	
 Advanced Settings System 		Video Stream. Font Size:	Prinary Stream V Auto V	
 Advanced Settings System 				
 Advanced Settings System 		Font Size:	[Auto V]	
 Advanced Settings System 		Font Size: Show Video Title:	(Auto V	
 Advanced Settings System 		Font Size: Show Video Title: Video Title:	Auta V Network Carnera	
 Advanced Settings System 		Font Size: Show Video Title: Video Title: Text Posibion:	Auto V I I I I I I I I I I I I I I I I I I	
Oo Advanced Settings		Foot Size: Show Video Tife: Video Tife: Text Peaklon: Show Timestamp:	Auta V Network Carrers Rotions Laft V	
 Advanced Settings System 		Foot Size: Show Video Tite: Video Tite: Text Peaklon: Show Timestamp: Date Peaklon:	Auto V Motorek Carrera Botorek Latt V Top Right V	

Figure 4-3-10 OSD

Table 4-3-5	Description of the	e buttons
-------------	--------------------	-----------

Parameters	Function Introduction
Font Size	Small/Standard/Medium/Large/Auto are available for title and date size
Show Video Title	Check the checkbox to show video title
Video Title	OSD content customized
Text Position	OSD display position on the image
Show Timestamp	Check the checkbox to display date on the image
Date Position	Date display position on the image



Date Format	The format of date
Copy to Other Streams	Copy the settings to other streams

Privacy Mask



Figure 4-3-11 Privacy Mask

Table 4-3-6 Description of the buttons

Parameters	Function Introduction
Enable	Check the checkbox to enable the Privacy Mask function
Clear All	Clear all areas you drew before
Туре	Select the color to use for the privacy areas, there are three colors available: White, Black, Blue

ROI

A region of interest(often abbreviated ROI), is a selected subset of samples within a dataset identified for a particular purpose. Users can select up to 3 key regions of a scene to transmit as separate streams for targeted preview and recording.

By using Milesight ROI technology, more than 50% of bit rate can be saved and therefore less bandwidth demanded and the storage usage reduced. So according to this, you can set a small bit rate for high resolution.

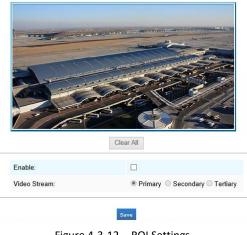


Figure 4-3-12 ROI Settings



Table 4-3-7Description of the buttons

Parameters	Function Introduction	
Enable	Check the checkbox to enable the ROI function	
Clear All	Clear all areas you drew before	
Video Stream	Choose the Video Stream	

Note:

1) You can set a low bit rate.

4.3.3 Audio

This audio function allows you to hear the sound from the camera or transmit your sound to the camera side. A two-way communication is also possible to be achieved with this feature. Alarm can be triggered when the audio input is above a certain alarm level you set, and configured audio can be played when an alarm occurs.

Enable Audio:		
Audio Mode:	Both Mic & Speaker	~
Audio Input		
Denoise:	\checkmark	
Encoding:	G711-ULaw	~
Sample Rate:	8KHz	~
Input Gain:		
Alarm Level:		
Audio Output:		
Auto Gain Control:		
Output Volume:		

Figure 4-3-13 Audio

Table 4-3-8	Description	of the	buttons
-------------	-------------	--------	---------

Parameters	Function Introduction
Enable Audio	Check on the checkbox to enable audio feature
	Denoise: Set it as On/Off. When you set the function on, the noise detected can
	be filtered Encoding: G711-ULaw, G711-ALaw and AAC LC are available
Audio Input	Sample Rate: There are 8KHz/16KHz two options
	Input Gain: Input audio gain level, 0-100
	Alarm Level: Alarm will be triggered if voice alarm is enabled and input gained
	volume is higher than the alarm level, 1-100
Audio Output	Auto Gain Control: This function is only for H.265 series, improve the quality of
Audio Output	audio



Output Volume: Adjust volume of output

You can upload up to 3 audio files manually on the Audio web page and you can also edit the audio file's name when upload. Most important, you can set the audio schedule to realize trigger different audio files in different time, which is corresponded to alarm action.

2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4 2 4	6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8 6 8	10 12 10 12 10 12 10 12 10 12 10 12	14 16 14 16 14 16 14 16 14 16	6 18 20 6 18 20 6 18 20	22 24 22 24 22 24 22 24 22 24 22 24 22 24	Default 1 2 3
2 4 .	6 8 6 8	10 12 10 12 10 12	14 16 14 16 14 16	6 18 20 6 18 20	22 24	2
2 4	6 8 6 8	10 12 10 12	14 16 14 16	6 18 20	22 24	
2 4	6 8	10 12	14 16			
2 4				6 18 20	22 24	
	6 8	10 12				
2 4			14 16	6 18 20	22 24	
	6 8	10 12	14 16	6 18 20	22 24	
		Select All	Clear All			
oad						
e:]		
						Browse
	ad	ad		Select All Clear All		

Figure 4-3-14 Audio File

Note:

1) The Audio mode and Audio Output are only for certain modules.

4.3.4 Network

TCP/IP

O Get IPv4 address automatically	
Use fixed IPv4 address	
IP Address:	192.168.8.150 Test
IPv4 Subnet Mask:	255.255.255.0
IPv4 Default Gateway:	192.168.8.2
Preferred DNS Server:	8.8.8.8
IPv6 Mode:	Manual 🗸
IPv6 Address:	
IPv6 Prefix:	
IPv6 Default Gateway:	

Figure 4-3-15 TCP/IP



Parameters	Function Introduction			
Get IPv4 Address Automatically	Get an IP address from the DHCP server automatically			
Use fixed IP address	 IPv4 Address: An address that used to identify a network camera on the network IPv4 Subnet Mask: It is used for identifying the subnet where the network camera is located IPv4 Default Router: The default router address Preferred DNS Server: The DNS Server translates the domain name to IP address IPv6 Mode: Choose different mode for IPv6: Manual/Route Advertisement/ DHCPv6 IPv6 Address: IPv6 Address used to identify a network camera on the network IPv6 Prefix: Define the prefix length of IPv6 address IPv6 Default Router: The default router IPv6 address 			

Table 4-3-9 Description of the buttons

Note:

1) The **Test** button is used to test if the IP is conflicting.

HTTP

Create a Private Cer	tificate:	Create	
Installation Type:		Create a Private C	ertificate 🗸
Attributes:	Awarded to: C=US, H/IP=1 Issuer: C=US, H/IP=1 Period of Va Feb 16 02:29 Nov 11 02:29	maylong alidity: ∂:45 2016 ~	.1
Installed Certificate:	C=US, H/IP=ma	aylong	Reset
HTTPS Settings			
HTTPS Port:		443	
HTTPS Enable:			
HTTP Port:		80	
HTTP Enable:			

Figure 4-3-16 HTTP Port Settings





Table 4-3-10Description of the buttons

Parameters	Function Introduction
HTTP Enable	Start or stop using HTTP
HTTP Port	Web GUI login port, the default is 80, the same with ONVIF port
HTTPS Enable	Start or stop using HTTPS
HTTPS Port	Web GUI login port via HTTPS, the default is 443
HTTP Settings	Upload and set the SSL certificate .

HTTP URL are as below:

Stream	URL
Main Stream	http://username:password@IP:port/ipcam/mjpeg.cgi
Secondary Stream	http://username:password@IP:port/ipcam/mjpegcif.cgi_
Tertiary Stream	http://username:password@IP:port/mjpegthird.cgi

Note:

1) You need to change the codec type of streams to MJPEG expect the main stream of H.264 cameras whose models with "-A".

RTSP

Playback Port:	555
Flayback FUIL	555
RTP Packet:	Better Compatibility ~
Multicast Group Address:	239.6.6.6
QoS DSCP:	0
	Save

Table 4-3-11Description of the buttons

Parameters	Function Introduction	
RTSP Port	The port of RTSP, the default is 554	



Playback Port	The port of playback, the default is 555
RTP Packet	There are Better Compatibility and Better Performance two options, if your camera's image mess up, please switch this option
Multicast Group Address	Support multicast function
QoS DSCP	The valid value range of the DSCP is 0-63.

RTSP URL are as below:

Stream	URL
Main Stream	rtsp://username:password@IP:port/main
Secondary Stream	rtsp://username:password@IP:port/sub
Tertiary Stream	http://username:password@IP:port/third

Note:

1) Get the format of RTSP URL by clicking "⁽¹⁾ "on the right side of RTSP Port.

2) DSCP refers to the Differentiated Service Code Point; and the DSCP value is used in the IP header to indicate the priority of the data.

3) A reboot is required for the settings to take effect.

4) The tertiary stream is only equipped on camera whose model with "-A" or "-B".

UPnP

Universal Plug and Play (UPnP) is a networking architecture that provides compatibility among networking equipment, software and other hardware devices. The UPnP protocol allows devices to connect seamlessly and to simplify the implementation of networks in the home and corporate environments. With the function enabled, you don't need to configure the port mapping for each port, and the camera is connected to the Wide Area Network via the router.

Parameters			Fund	tion Introd	uction
	Table 4-3-	-12 Descr	iption	of the buttons	
	Figu	ire 4-3-18	UPnF	9 Settings	
		Sa	ive		
	RTSP	23202		554	Invalid
	HTTP	21202		80	Invalid
	Protocol Name	External F	ort	Internal Port	Status
	Туре:		Auto	×	-
	Name:		UPnP		
	Enable Port Mapping:		✓		
	Port Mapping				
	Enable UPnP:				



Enable	Check the checkbox to enable the UPnP function
Enable Port Mapping	Check the checkbox to enable the Port Mapping
Name	The name of the device detected online can be edited
Туре	Auto: Automatically obtain the corresponding HTTP and RTSP port, without any settings Manual: Need to manually set the appropriate HTTP port and RTSP Port. When choose Manual, you can customize the value of the port number by yourself

DDNS

DDNS allows you to access the camera via domain names instead of IP address. It manages to change IP address and update your domain information dynamically. You need to register an account from a provider.

Enable DDNS:	
Provider:	ddns.milesight.com
External HTTP Port :	80
External RTSP Port:	554
DDNS URL: http://ddns.miles	ight.com/1CC3162197F7

Figure 4-3-419 DDNS Settings

You can choose "ddns.milesight.com" as provider for DDNS. After enabling, you can access the device via the URL "http://ddns.milesight.com/MAC address" .

Parameters	Function Introduction	
Enable DDNS	Check the checkbox to enable DDNS service	
Provider	Support DDNS from now dyndns.org, freedns.afraid.org, www.no-ip.com, www.zoneedit.com	
Hash	A string used for verifying, only for "freedns.afraid.org"	
User name	Account name from the DDNS provider, unavailable for "freedns.afraid.org"	
Password	Account password, unavailable for "freedns.afraid.org"	
Host name	DDNS name enabled in the account	

Table 4-3-13	Description of the buttons





Note:

- 1) Please do the Port Forwarding of HTTP Port and RTSP Port before you use Milesight DDNS.
- 2) Make sure that the internal and the external port number of RTSP are the same.

Email

Alarm video files can be sent to specific mail account through SMTP server. You must configure the email settings correctly before using it.

User Name:	hdipnc
Sender Email Address:	hdipnc@sina.com
Password:	•••••
SMTP Server:	smtp.sina.com
SMTP Port:	25
Recipient Email Address1:	user@domain.com
Recipient Email Address2:	
Encryption:	O SSL O TLS

Figure 4-3-20 SMTP Settings

Table 4-3-14	Description of the buttons

Parameters	Function Introduction	
User Name	The sender's name. It is usually the same as the account name	
Sender Email Address	Email address to send video files attached emails	
Password	The password of the sender	
SMTP Server	The SMTP server IP address or host name(e.g. smtp.gmail.com)	
SMTP Port	The default TCP/IP port for SMTP is 25(not secured). For SSL/TLS port, it depends on the mail you use	
Recipient Email Address1	Email address to receive video files	
Recipient Email Address2	Email address to receive video files	
Encryption	Check the checkbox to enable SSL or TLS if it is required by the SMTP server.	

FTP

Alarm video files can be sent to specific FTP server. You must configure the FTP settings correctly before using it.



Server Address:	192.168.5.1
Server Port:	21
User Name:	admin
Password:	•••••
FTP Folder Name:	default_folder
	Save Test

Figure 4-4-6 FTP Settings

	Table 4-3-15	Description of the buttons
--	--------------	----------------------------

Parameters	Function Introduction	
Server Address	FTP server address	
Server Port	The port of the FTP server. Generally it is 21	
User Name	User name used to log in to the FTP sever	
Password	User password	
FTP Folder Name	Path where video will be uploaded to on the FTP server	

VLAN

A virtual LAN (VLAN) is any broadcast domain that is partitioned and isolated in a computer network at the data link layer (OSI layer 2). LAN is an abbreviation of local area network. VLANs allow network administrators to group hosts together even if the hosts are not on the same network switch. This can greatly simplify network design and deployment, because VLAN membership can be configured through software. Without VLANs, grouping hosts according to their resource needs necessitates the labour of relocating nodes or rewiring data links.

VLAN Enable:	
VLAN ID(1~4094):	[1
VLAN IP:	
VLAN Netmask:	
VLAN Gateway:	
	Save

Figure 4-3-21 VLAN Settings

Note:

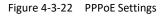
1) How to set up VLAN in switches, please refers to your switches user manual.

PPPoE

This camera supports the PPPoE auto dial-up function. The camera gets a public IP address by ADSL dial-up after the camera is connected to a modem. You need to configure the PPPoE parameters of the network camera.



Enable PPPoE:	
Dynamic IP:	0.0.0.0
User Name:	
Password:	
Confirm Password:	



Note:

- 1) The obtained IP address is dynamically assigned via PPPoE, so the IP address always changes after rebooting the camera. To solve the inconvenience of the dynamic IP, you need to get a domain name from the DDNS provider (e.g. DynDns.com).
- 2) The user name and password should be assigned by your ISP.

SNMP

You can set the SNMP function to get camera status, parameters and alarm related information and manage the camera remotely when it is connected to the network.

Before setting the SNMP, please download the SNMP software and manage to receive the camera information via SNMP port. By setting the Trap Address, the camera can send the alarm event and exception messages to the surveillance center.

SNMP v1/v2	
SNMP V1 Enable:	
SNMP V2c Enable:	
Write Community:	public
Read Community:	private
Trap Address:	
Trap Port:	162
Trap Community Name:	
SNMP v3	
SNMP V3 Enable:	
Read Security Name:	
Level of Security:	no auth,no priv 🗸 🗸
Write Security Name:	
Level of Security:	no auth,no priv 🗸 🗸
SNMP Port	
SNMP Port	161

Figure 4-3-23 SNMP Settings

Table 4-3-16 Des	cription of the buttons
------------------	-------------------------

Parameters	Function Introduction	
CNINAD - 4 /2 /2	The version of SNMP, please select the version of your SNMP software. SNMP v1: Provide no security	
SNMP v1/2/3	SNMP v2: Require password for access	
	SNMP v3: Provide encryption and the HTTPS protocol must be enabled	



Write Community	Input the name of Write Community	
Read Community	Input the name of Read Community	
Trap Address	Set the trap address	
Trap Port	Set the trap port, the default is 162	
Trap Community Name	Input the trap community name	
Read Security Name	Input the name of Read Security Community	
Level of Security	There are three levels available: (auth, priv), (auth, no priv) and (no auth, no priv)	
Write Security Name	Input the name of Write Security Community	
Level of Security	There are three levels available: (auth, priv), (auth, no priv) and (no auth, no priv)	
SNMP Port	The port of SNMP, the default is 161	

Note:

1) The settings of SNMP software should be the same as the settings you configure here;

2) A reboot is required for the settings to take effect.

4.3.5 Wi-Fi

Wi-Fi

The page is as follows:

Wi-Fi Settings	
Enable Wi-Fi:	
Wi-Fi Status:	Disconnect
SSID:	Milesight
Network Mode:	Manage OAd-Hoc
Security Mode:	WPA/WPA2 personal 🔹
Encryption Type:	Auto 👻
Key:	milesight
	10001
Wi-Fi IP Address Configurati	on
Enable DHCP:	V
IP Address:	192.168.1.190
IPv4 Subnet Mask:	255.255.255.0
	192 168 1 1
IPv4 Default Gateway:	

Figure 4-3-24 Wi-Fi

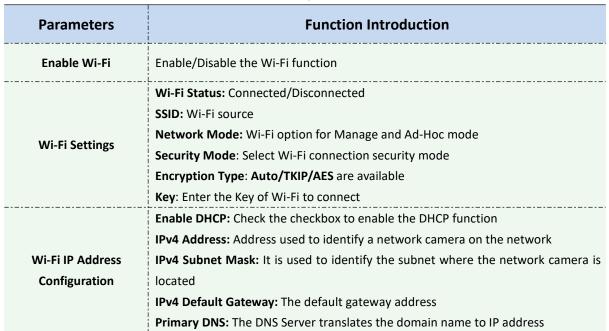


Table 4-3-17 Description of the buttons

WPS(Wi-Fi Protected Setup)

Originally Wi-Fi Simple Config, it's a network security standard that allows users to easily secure a wireless home network. The goal of the protocol is to allow home users who know little of wireless security and may be intimidated by the available security options to set up Wi-Fi Protected Access, as well as making it easy to add new devices to an existing network without entering long password phrases.

PIN Method

It's a personal identification number (PIN) has to be read from either a sticker or the display on the new wireless device. You can add the PIN code to the router or you add the Router PIN code on this camera.

Push-Button Method

The user simply has to push a button, either an actual or virtual one, on both the access point and the new wireless client device. Support of this mode is mandatory for access points and optional for connecting devices.

WPS	
Enable WPS:	
PIN Code:	Generate
OPBC connection:	Connect
OUse router PIN code:	Connect
SSID:	
Router PIN Code:	

Figure 4-3-25 WPS

Table 4-3-18	Description	of the	buttons
	2000.100.0	0	

Parameters	Function Introduction
Enable WPS	Enable or Disable WPS

lesiaht



PIN Code	Click on the "Generate" to get a code, you need to add this PIN code to the router
PBC Connecting	Connect via PBC button, click on the PBC button on the router, then click "Connect" button again
Use Router PIN Code	Enter the router PIN code here, and also with the SSID

Note:

1) Wi-Fi function is only applicable for Cube cameras if purchased, WPS need supports from Wi-Fi router.

If you use Fixed IP, please set IP the same segment with Wi-Fi router.

4.3.6 Date&Time

Current System Time	
Date:	27/7/2015
Time:	23:32:16
Set the System Time	
Time Zone:	-8 United States - Pacific Time 🗸
Daylight Saving Time:	Disabled V
NTP Sync:	☑ Interval: 1 day ✓
O Synchronize with computer tim	ie
Date:	28/7/2015
Time:	15:31:34
O NTP server	
O Manual	

Figure 4-3-26 Date&Time Settings

Current System Time

Current date&time of the system

Set the System Time

Table 4-3-19	Description of the buttons
--------------	----------------------------

Parameters	Function Introduction
Time Zone	Choose a time zone for your location
Daylight Saving time	Enable the daylight saving time
NTP Sync	Regularly update your time according to the interval time



Synchronize with computer time	Synchronize the time with your computer
NTP server	Input the address of NTP server
Encryption Type	Synchronize the time with configured SNTP server and selected time zone
Manual	Set the system time manually

4.4 Advanced Settings

4.4.1 Alarm

Motion Detection

Step1: Check the checkbox to enable the motion detection; Step2: Set motion region;

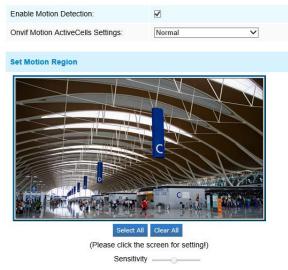


Figure 4-4-1 Motion Region Settings

Table 4-4-1	Description of the buttons
-------------	----------------------------

Parameters	Function Introduction
Enable Motion Detection	Check the checkbox to enable Motion Detection function
Onvif Motion ActiveCells Settings	Normal and Compatible are available for the option. If the setting of motion region of the third-party software is different from ours, please set this option to Compatible.
Select All	Click the button, the motion in the area will be detected
Clear All	Click the button, the area drawn before will be removed
Sensitivity	Sensitivity level, 1~10



Step3: Set motion detection schedule;



Figure 4-4-2 Schedule Settings

Step4: Set alarm action;

Alarm Action		
Save Into SD Card:	✓ File Format: AVI	
Save Into NAS:	☑ File Format: AVI ▼	
Upload Via FTP:	File Format: AVI	
Upload Via SMTP:	File Format: JPG	
External Output:	(Please configure the trigger duration.)	
Normal Status:	Open Ocounded	
Current Status:	Grounded	
Play Audio:	(Please enable the audio speaker.)	
Alarm to SIP Phone:		
HTTP Notification:		

Figure 4-4-3 Alarm Action

Table 4-4-2 Description of the buttons

Parameters	Function Introduction
Save Into SD Card	Save alarm recording files into SD Card
Save Into NAS	Save alarm recording files into NAS
Upload Via FTP	Upload the recording files via FTP
Upload Via SMTP	Upload the files via SMTP
External Output	If the camera equips with External Output, you can enable the action after configuring the trigger duration
Play Audio	If the camera equips with Speaker, you can enable the action after configuring the audio speaker
Play Buzzer	If the camera equips with Buzzer, you can check the checkbox to enable the function.
Alarm to SIP Phone	Support to call the SIP phone after enable the SIP function.



HTTP Notification

Support to pop up the alarm news to specified HTTP URL.

NOTE:

1) The HTTP notification function is just one way for camera to send messages to VMS Software. And it's the VMS that defines what the messages mean and decides what to do after receiving this kind of messages. So, we can use the HTTP Notification function of our cameras only if the VMS supports this kind of message format.

Here will take the Digifort as an example to introduce the **HTTP Notification** function.

The following are the detail steps of setting for HTTP Notification in Digifort VMS and our

cameras.

Step1: Enable Alarm, set Motion Region and detection Schedule;

Step2: Check the HTTP Notification as Alarm Action, and fill the fields. Then save the alarm setting;

HTTP Notification:	V
HTTP Notification URL:	192.168.8.75:8601/Interface /Cameras/MotionDetection /Notify?Camera=annie
HTTP User Name:	admin
HTTP Password:	•••••

HTTP User Name: admin (the user name of your camera)

HTTP Password: ms1234 (the password of your camera)

HTTP Notification URL:

http://IP:8601/Interface/Cameras/MotionDetection/Notify?Camera=CameraName **IP** refers to the PC's IP where the Digifort installed.

8601 is the port for Motion signal in Digifort.

CameraName is the camera name you set in Digifort VMS, like the picture shown below.

Close al	General			
Camera	General camera data			
General				
Lens	Camera name Camera dese	ription		
Motion detection	annie sdf			
Audio	Manufacturer			
Image filters	ONVEF Open Network Video	Interface Forum		
🛿 Streaming	Camera model	Firmware		Channel
Media profiles	ONVIF Conformant Device	 1.02 or greater 	-	1
Recording	Camera address	Port (80)	User	Password
Live view	192.168.8.173	80	admin	🧶
© Recording	Camera shortcut	Camera shortcut Connection timeout (Miliseconds)		
Settings			30000	۲
Archiving	Recording directory E:\2015\dsf\			B:
∀ Rights				R.:
Users	Activate camera			
≈ PTZ				
Settings				
Presets				
PTZ Patrol				
Auxiliary				
Joystick				
Menu control				
≈ 1/0	-			OK Cancel

Example:

http://192.168.8.75:8601/Interface/Cameras/MotionDetection/Notify?Camera=annie, this URL format is exactly supported by Digifort VMS, so we can set as above to our cameras and get it work well.

Step3: choose use motion detection by external notification;



Notion detection	
Motion detection settings	
Use software motion detection	
Use motion detection by external notification	

Step4: If succeeded, you can see the device icon turns yellow in the Surveillance when the camera is under Motion Detection Alarm;

🥥 Objects	Servers
🔎 Search	
E Sameras annie (o Analytics B Ø LPR	amera)

So, it's the VMS Software which decides whether we can use this function successfully. Step5: Set alarm settings.

Alarm Setting	
Record Video Sections	5 seconds 👻
Pre-record:	0 seconds -
Snapshot:	1 -
Snapshot Interval:	1 second 👻
Trigger Duration:	30 seconds 👻

Figure 4-4-4 Alarm Settings

Table 4-4-3Description of the buttons

Parameters	Function Introduction
Record Video Sections	Six different periods are available(5, 10, 15, 20, 25, 30 sec)
Pre-record	Reserve the record time before alarm, 0~10 sec
Snapshot	The number of snapshot, 1~5
Snapshot Interval	This cannot be edited unless you choose more than 1 to Snapshot
Trigger Duration	Length of time an alarm lasts, this cannot be edited unless when you enable the External Output on the Alarm Action firstly.

Audio Alarm

Enable the Audio before using Audio Alarm function.



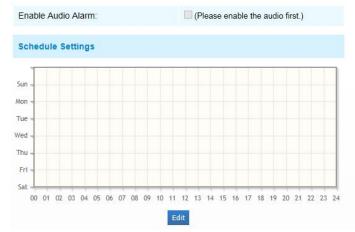


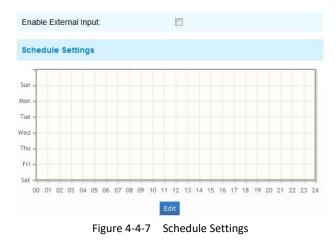
Figure 4-4-5 Schedule Settings

File Format: AVI
File Format: AVI V (Please mount NAS.)
File Format: AVI
File Format: JPG
\Box (Please configure the trigger duration.)
(Please enable the audio speaker.)
(Please open the SIP.)
5 seconds 🗸
0 seconds 🗸
1 ~
1 second V
30 seconds V

Figure 4-4-6 Alarm Settings

The meaning of items please refer to table 4-4-2 and 4-4-3, here will not repeat again.

External Input



File Format: MS-QR-JS-04 Rev1.0 Durability Date: 1Year



Alarm Action	
Save Into SD Card:	File Format: AVI
Save Into NAS:	File Format: AVI
Upload Via FTP:	File Format: AVI
Upload Via SMTP:	File Format: JPG
External Output:	(Please configure the trigger duration.)
Play Audio:	(Please enable the audio speaker.)
Alarm to SIP Phone:	
HTTP Notification:	
Alarm Setting	
Record Video Sections:	5 seconds 🗸
Pre-record:	0 seconds 🗸
Snapshot:	1 .
Snapshot Interval:	1 second -
Trigger Duration:	30 seconds 🔹

Figure 4-4-8 Alarm Settings

The meaning of items please refer to table 4-4-2 and 4-4-3, here will not repeat again.

Other Alarm

Alarm Type	Network Lost	
Enable Network Lost Alarm:		
Alarm Action		
Save Into SD Card:	File Format: AVI	
External Output:	(Please configure the trigger duration.)	
Play Audio:	(Please enable the audio speaker.)	
Alarm Setting		
Record Video Sections	5 seconds 👻	
Pre-record:	0 seconds 🗸	
Snapshot:	1 -	
Snapshot Interval:	1 second 🔻	
Trigger Duration:	30 seconds 👻	

Figure 4-4-9 Other Alarm

Table 4-4-4	Description of the buttons
-------------	----------------------------

Parameters	Function Introduction
	Network Lost, Tampering and IP Address Conflicted are available
Alarm Type	Check the checkbox to enable the alarm type you selected



	Save Into SD Card: Save alarm recording files into SD Card
	External Output: If the camera equips with External Output, you can enable the
	action after configuring the trigger duration
Alarm Action	Play Audio: If the camera equips with Speaker, you can enable the action after
	configuring the audio speaker
	Play Buzzer: If the camera equips with Buzzer, you can check the checkbox to
	enable the function
	Record Video Sections: Six different periods are available(5, 10, 15, 20, 25, 30
	sec)
	Pre-record: Reserve the record time before alarm, 0~10 sec
Alarma Cattina	Snapshot: The number of snapshot, 1~5
Alarm Setting	Snapshot Interval: This cannot be edited unless you choose more than 1 to
	Snapshot
	Trigger Duration: Length of time an alarm lasts, this cannot be edited unless
	when you enable the External Output on the Alarm Action firstly

External Output

External Output	
Normal Status:	Open Ocrounded
Current Status:	Grounded
	Test Save

Figure 4-4-10 External Output Settings

Please set the **Normal Status** firstly, when the **Current Status** is different with **Normal Status**, it will lead to the alarm.

Region Detection

Region Detection is a target detection algorithm for H.265 series, it is a more exact motion detection.



Figure 4-4-11 Region Detection Settings



Step1: Set region;

Step2: Set region detection schedule; Step3: Set alarm action;

Step4: Set alarm settings.

Alarm Action	
Save Into SD Card:	File Format: AVI V (Please insert SD card.)
Save Into NAS:	File Format: AVI V (Please mount NAS!)
Upload Via FTP:	File Format: AVI
Upload Via SMTP:	File Format: JPG V
External Output:	\Box (Please configure the trigger duration.)
Play Audio:	(Please enable the audio speaker.)
Alarm to SIP Phone:	(Please open the SIP.)
HTTP Notification:	
Alarm Setting	
Record Video Sections:	5 seconds V
Pre-record:	0 seconds 🗸
Snapshot:	1 🗸
Snapshot Interval:	1 second V
Trigger Duration:	30 seconds V

Figure 4-4-12 Alarm Settings

The meaning of items please refer to table 4-4-2 and 4-4-3, here will not repeat again.

4.4.2 Storage

Before you start:

To configure record settings, please make sure that you have the network storage device within the network or the SD card inserted in your camera.

You can check "Enable cyclic storage", then it will delete the files when the free disk space reach a certain value. Choose the storage mode according to your needs.

SD Card





Table 4-4-5	Description of the buttons
-------------	----------------------------

Parameters	Function Introduction
Format	Format SD card, the files in SD card will be removed
Mount/UnMount	Mount/Dismount SD card
Enable cyclic storage	Enable/Disable cyclic storage
Delete	Enable cyclic storage, when the free disk space reach at a certain time, it will automatically delete the files at certain percentage according to your settings

Record Schedule

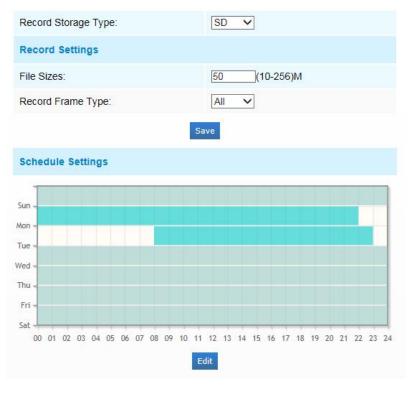


Figure 4-4-14 Record Schedule

Table 4-4-6	Description	of the	buttons
-------------	-------------	--------	---------

Parameters	Function Introduction
Record Storage Type	SD or NAS are available
Record Settings	File Sizes: Set record file size, (10-256)M Record Frame Type: All/Key (All: Record all the frame Key: Only record I-frame)
Schedule Settings	Click the Edit button to edit record schedule



NAS

The network disk should be available within the network and properly configured to store the recorded files, etc.

NAS (Network-Attached Storage), connecting the storage devices to the existing network, provides data and files services.

Server Address:		192.168.8.76
File Path:		\share-arrow\2016-03-14
Mounting Typ	e:	SMB/CIFS -
User Name:		admin
Password:		•••••
Enable Recy	cle Storage:	
Delete 20	% When the free d	lisk space at 500 M

Figure 4-4-15 NAS Settings

Table 4-4-7 Description of the buttons

Parameters	Function Introduction	
Server Address	IP address of NAS server	
File Path	Input the NAS file path, e.g. "\path".	
Mounting Type	NFS and SMB/CIFS are available. And you can set the user name and password to guarantee the security if SMB/CIFS is selected	

Note:

1) Up to 5 NAS disks can be connected to the camera.

SD Card Explorer

Files will be seen on this page when they are configured to save into SD card. You can configure time schedules of video recording everyday and save video files to your desired location. (Note: Files are visible once SD card is inserted. Don't insert or plug out SD card when power on.)

SD card video files are arranged by date. Each day files will be displayed under the corresponding date, from here you can copy and delete files etc. You can visit the files in SD card by ftp, for example, ftp://username:password@192.168.5.190(user name and password are the same as the camera account and the IP followed is the IP of your device.).





Current Dir: /			Total Size:14.82G	Free Size:501.56	M Used Size:1	14.33G
Show 10 🗸 entr	ries	Go To Parent		Down	oad Delete	File Search
	File Name	Time	Туре	Size	Action	Type:
	2015-07-28		Folder		Delete	All Start Time: 2015-07-29 00:00:00 End Time: 2015-07-29 09:28:29 Scarch
Showing 1 to 1 o	f 1 entries	Go	F	irst Previous	1 Next Last	-

Figure 4-4-16 SD Card Explore

Snapshot

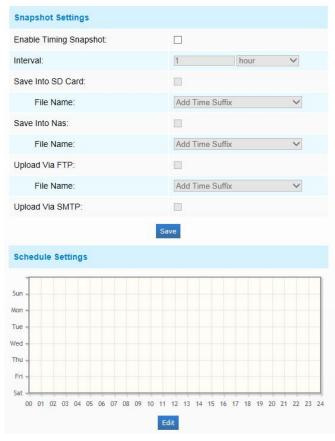


Figure 4-4-17 Snapshot Settings

Table 4-4-8	Description	of the b	outtons
-------------	-------------	----------	---------

Parameters	Function Introduction
	Enable Time Snapshot: Check the checkbox to enable the Timing Snapshot
Snapshot Settings	function
Snapsnot Settings	Interval: Set the snapshots interval, input the number and choose the
	unit(millisecond, second, minute, hour, day)



	Save Into SD Card: Save the snapshots into SD card, and choose the file name to
	add time suffix or overwrite the base file name.
	Save Into NAS: Save the snapshots into NAS, and choose the file name to add
	time suffix or overwrite the base file name
	Upload Via FTP: Upload the snapshots via FTP, and choose the file name to add
	time suffix or overwrite the base file name
	Upload Via SMTP: Upload the snapshots via SMTP
	Please note:
	If you choose to add time suffix, every snapshot picture will be saved, but there w
	ill be only one latest picture when you choose to overwrite the base file name.
	When you choose add overwrite the base file name to SD, it will create a file
	named "Snapshot" to place the snapshot while the NAS and FTP won't.
Schedule Settings	Click the Edit button to edit record schedule

4.4.3 Security

User

Manage Privilege			
Allow Anonymous Viewir	ng: 🗆		
Account Management			
User Name:			
Password:			
Confirm Password:			
Privilege:	Operato	Dr	~
	(You can only add 10 u	isers)	
	Save		
User Name	Privilege	Edit C)elete
admin	Administrator	×	

Figure 4-4-18 User Settings

Table 4-4-9	Description	of the	buttons
	Description	or the	Sattons

Parameters	Function Introduction
Manage Privilege	Allow anonymous viewing: Check the checkbox to enable visit from whom doesn't have account of the device
	User Name: Input user name for creating an account
	User Password: Input password for the account
Account Management	Confirm User Password: Confirm the password
	Privilege: Set the privilege for the account



	An administrator can manage all configuration pages of the device, including
Administrator	change user password, add or delete users (the default user "admin" cannot be
	deleted)
Operator	An operator can manage all configuration pages except the User page
Viewer	A viewer can`t change any settings

Note:

For versions after 54, the Operator and Viewer users are closed by default. But you still can add on the User page.

Anonymous Visit

Set the Anonymous visit permission Enable or Disable in the drop-down list to enable or disable the anonymous visit. There will be a checkbox of Anonymous next time you logging in.

Milesight	<u>لا</u>
Remember me ? 🢶	Language: English
Login	Reset ->

Figure 4-4-19 Log in interface

Click Anonymity and log in.

Note:

Only live view is available for the anonymous user.

Access List

General settings	
Maximum number of concurrent streaming:	9 🗸
P access list	
Rule:	Single V
IP address:	
A	dd
Enable access list filtering:	
Filter type:	Allow Deny

Figure 4-4-20 Access List

Table 4-4-10 Description of the buttons

Parameters	Function Introduction
General Settings	Maximum number of concurrent streaming: Select the maximum number of
	concurrent streaming. Options include No Limit, 1~9



	IP access list	Rule: Single, Network and Range are available
IF access list	IP address: Input the address to get the access to the device	
	Enable access list	
	filtering	Able to access or restrict access for some IP address
	Filter type	Access or restrict access

Security Service

SSH Settings	
Enable SSH:	

Figure 4-4-21 Security Service

Table 4-4-11 Description of the buttons

Parameters	Function Introduction
SSH Settings	Secure Shell (SSH) has many functions: it can replace Telnet and also provides a secure channel for FTP, POP, even for PPP.

4.4.4 SIP

The Session Initiation Protocol(SIP) is a signaling communications protocol, widely used for controlling multimedia communication sessions such as voice and video calls over Internet Protocol(IP) networks. This page allows user to configure SIP related parameters. Milesight cameras can be configured as SIP endpoint to call out when alarm triggered; or allow permitted number to call in to check the video if the video IP phone is used. To use this function, the settings in SIP page must be configured properly. SIP can be achieved in two ways to get the video, one is to dial the IP address directly, the other is account registration mode, the details are as follows: **Method 1**: IP Direct mode

Dial on the camera's IP address directly through SIP phone, so you can see the video.

(Note: SIP phone and the camera should in the same network segment).

Method2: Account registration mode

- 1) Before using the SIP, you need to register an account for the camera from the SIP server;
- 2) Register another user account for the SIP device from the same SIP server;
- 3) Call the camera User ID from the SIP device, you will get the video on the SIP device.



SIP Settings

Enable:	
Register Mode:	Enable
Jser ID:	500
Jser Name:	sipclient
Password:	
Server Address:	192.168.5.101
Server Port:	5060
Connection Protocol:	UDP
/ideo Stream:	Secondary Stream
Max Call Duration:	1800 s 0 means no limitation.
Note:SIP s	upports Direct IP call.

Figure 4-4-22 SIP Settings

Table 4-4-12Description of the buttons

Parameters	Function Introduction
Unregistered/ Registered	SIP registration status. Display "Unregistered" or "Registered"
Enable	Start or stop using SIP
Register Mode	Choose to use Enable mode or Disable mode. Enable mode means to use SIP with register account. Disable mode refers to use SIP without register account, just use the IP address to call.
User ID	SIP ID
User Name	SIP account name
Password	SIP account password
Server Address	Server IP address
Server Port	Server port
Connection Protocol	UDP/TCP
Video Stream	Choose the video stream
Max Call Duration	The max call duration when use SIP

Note:

- 1) SIP supports Directly IP call;
- 2) SIP only supports second stream with H.265/H.264 or MPEG4 Video Compression.





Alarm Phone List

Phone Type:	Phone Number
To Phone Number:	
Remark Name:	
Duration:	From 00 V : 00 V To 23 V : 59 V

Figure 4-4-23 Alarm Phone List

Table 4-4-13	Description	of the buttons
	Description	or the buttons

Parameters	Function Introduction
Phone Type	Phone Number(Call by phone number) & Direct IP Call(Check to accept peer to peer IP call).
To Phone Number/ IP Address	Call by phone number or IP address.
Remark Name	Display name.
Duration	The time schedule to use SIP.

White List

Phone Type:	Phone Number
Phone Number:	
	Add
Enable White List Number Filter:	
	Save
Figure 4-	4-24 White List

Table 4-4-14 Description of the buttons

Parameters	Function Introduction
Phone Type	Phone Number(Call by phone number) & Direct IP Call
Phone Number/ IP Address	Including the phone number or IP address on the white list
Enable White List Number Filter	When enabled, only the designated phone number or IP address can visit

4.4.5 Logs

The logs contain the information about the time and IP that has accessed the camera through web.



ow 30 🗸 entries								Log Search	
Time	Main Type	Sub Type	Param	User	IP	Detail		Main Type:	
2016-06-02 20:41:18	Operation	RTSP Session Stop	-	-	192.168.8.74	stop one session.	~	All Types	
2016-06-02 20:12:41	Operation	RTSP Session Start	2	100	192.168.8.74	start one session.		Sub Type:	
2016-06-02 20:09:51	Operation	RTSP Session Stop	-	-	192.168.8.74	stop one session.		All Types	22
2016-06-02 19:45:07	Operation	RTSP Session Start	-	-	192.168.8.74	start one session.		Start Time:	
2016-06-02 19:45:07	Operation	RTSP Session Stop	7	-	192.168.8.74	stop one session.		2016-06-02 00:00:00	_
20 <mark>16-06-02 1</mark> 9:45:05	Operation	RTSP Session Start	-	-	192.168.8.74	start one session.			
2016- <mark>06-02 1</mark> 9:45:05	Operation	RTSP Session Stop	-	-	192.168.8.74	stop one session.		End Time:	
2016-06-02 19:37:18	Operation	RTSP Session Start	5	870	192.168.8.74	start one session.		2016-06-02 21:13:45	1
2016-06-02 19:37:17	Operation	RTSP Session Stop	-	-	192.168.8.74	stop one session.		Search	
2016-06-02 19:37:11	Operation	RTSP Session Start	-		192.168.8.74	start one session.			
2016-06-02 19:37:11	Operation	RTSP Session Stop	2	2	192.168.8.74	stop one session.		Log Export	
2016-06-02 19:36:43	Operation	RTSP Session Start	-	-	192.168.8.74	start one session.		Save Period	
2016-06-02 19:36:42	Operation	RTSP Session Stop	-	-	192.168.8.74	stop one session.		Permanent	,
2016-06-02 17:59:09	Operation	RTSP Session Start	-	14	192.168.8.74	start one session.		remanent	
2016-06-02 17:59:06	Operation	RTSP Session Stop	-	-	192.168.8.74	stop one session.		Save	
2016-06-02 17:52:56	Operation	RTSP Session Start	-	-	192.168.8.74	start one session.	V		

Figure 4-4-25 Logs

Table 4-4-15	Description of the buttons
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Parameters	Function Introduction
Main Type	There are five main log types: All Type, Event, Operation, Information, Exception
Sub Type	On the premise of main type has been selected, select the sub type to narrow the range of logs
Start Time	The time log starts
End Time	The time log ends
Log Export	Export the logs
Save Period	Set the period of log saving, there are eight options to choose: Permanent and 30/60/120/180/240/300/360 Days
Go	Input the number of logs' page

4.5 System

All information about the hardware and software of the camera can be checked on this page.



System	
Device Name:	Network Camera
Product Model:	MS-C2862-FPB
Hardware Version:	V1.1
Software Version:	41.6.0.56-r5
MAC Address:	1C:C3:16:20:00:EF
Uptime:	3 days 20 hours 43 minutes
QR Code:	Please scan this QR code on App to get a remote view.

Figure 4-5-1 System Information

Table 4-5-1	Description	of the but	tons
	2 000	0	

Parameters	Function Introduction
Device Name	The device name can be customized. It will be seen in file names of video files
Product Model	The product model of the camera
Hardware Version	The hardware version of the camera
Software Version	The software version of the camera can be upgraded
Kernel Version	The kernel version
MAC Address	Media Access Control address
Uptime	The elapsed time since the last restarted of the device
QR Code	Add the device on Milesight APP by scanning it directly.

Note:

1) The QR code will appear after the P2P of IP camera is activated.

4.6 Maintenance

The software can be upgraded by the following steps:

Step1: Browse and select the upgrading file;

Step2: Click the "upgrade" button after it prompts upload file successfully. After the system reboots successfully, the update is done.





Note:

1) Do not disconnect the power of the device during the update. The device will be restarted to complete the upgrading.

ntenance		_	
aintenance			
	System Upgrade		
	Hardware Version:	V1.1	
	Software Version:	41.6.0.56-r5	
	Firmware File:	Browse	
	Reset after Upgrading:		
	U	sgrade	
		er of the device during the upgrade.	
	Maintenance		
	Reboot the Device:	Reboot	
	Reset Settings to Factory Default (Except the IP Address):	Reset	
	Export Config File:	Export	
	Import Config File:	Browse	
	import doning r ite.		

Figure 4-6-1 Maintenance

Table 4-6-1	Description of the buttons	

Parameters	Function Introduction
System Upgrade	Hardware Version: The hardware version of the camera
	Software Version: The software version of the camera
	Kernel Version: The kernel version
	Firmware File: Select the firmware used to upgrade
Maintenance	Reboot the device: Click "Reboot" button to restart the device immediately
	Reset settings, except IP address to Factory Default: Click "Reset" button to reset
	the camera to factory default settings
	Export Config File: Click this button to export the configuration file
	Import Config File: Click this button to import the old configuration file





Chapter V Services

Milesight Technology Co., Ltd provides customers with timely and comprehensive technical support services. End-users can contact your local dealer to obtain technical support. Distributors and resellers can contact directly with Milesight for technical support.

Technical Support Mailbox: support@milesight.com Web: http://www.milesight.com Online Problem Submission System: http://www.milesight.com/service/feedback.asp Address: No.23 Wanghai Road,2nd Software Park, Xiamen, China Zip Code: 361006 TEL: +86-592-5922772 FAX: +86-592-5922775

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