



Milesight-Troubleshooting

5G Camera

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1. Introduction of 5G AI Camera

Milesight 5G AI Pro Bullet Plus Network Camera is our newest member of the 5G Series. Featuring cutting-edge 5G technology, the 5G AI Pro Bullet Plus Network Camera provides a fresh experience of UHD image quality, low latency and fast transmission speed to some scenarios where network wiring is inconvenient. Offering AI deep learning, compact structure and more, Milesight 5G AI Pro Bullet Plus Network Camera builds a whole new world by combining high-tech with high-performance.

This article will introduce the basic configuration of 5G AI Camera, so that you can quickly learn to use our 5G AI Camera.

Note: For more information about how to set IoT, please refer to Milesight-Troubleshooting-AloT Camera

Released Model
Milesight 5G AloT 4X/12X Pro Bullet Plus Network Camera
Milesight 5G AI 4X/12X Pro Bullet Plus Network Camera
Milesight 5G AI Motorized Pro Bullet Plus Network Camera

2. How to Use 5G AI Camera

1) How to Connect 5G AI Camera



1. If you need to use the 5G network, you can use a **SIM card** to connect to Cellular for your camera.

Note:

- As long as the SIM card is inserted and cellular is enabled, it will consume the data of the SIM card. If there is live video streaming, it will consume more data.
- 2) 5G AI Camera support 5G, 4G and 3G networks.
- 2. If you don't need to use the 5G network, you can connect to the camera through LAN. And PoE are supported for 5G AI Camera.
- After completing the basic settings of 5G Al Camera, you can access the camera through the Milesight P2P or VPN using 5G network without connecting the network cable.

Note:

- 1) If you use the 5G camera for the first time, it is necessary to connect the camera through the network port to access the web page of the camera for basic configurations.
- 2) For Milesight CMS, M-Sight Pro and Milesight VMS Enterprise, we recommend to add 5G Al Camera through P2P when using 5G networks, which is more convenient and simple.
- 3) What's P2P?

P2P technology is convenient, simple, stable and reliable. It does not require a fixed IP address, and the connection of camera through MAC address won' t change because of the network environment. P2P technology is very convenient and practical for the wireless network transmission of 5G AI Camera.

 Coming Soon: 5G AI Camera can be added and managed on Milesight back-end or Third-party via VPN.



2) Easy Deployment and Compact Structure of 5G Al Camera

3. Compatibility with Milesight Back-end

1) Accessing from Milesight Back-end Software

About Milesight Back-end Software:

- Milesight CMS is a central management system for Milesight cameras and Milesight NVR. It is mainly used to manage and configure multiple devices. With high-efficient management performance, Milesight CMS software offers users a superior administration experience in such centralized system.
- Milesight VMS Enterprise is a professional and intelligent video management software for medium-to-large business projects. Together with Milesight cameras and third-party cameras, it can simplify your video surveillance and fulfill your demands and expectations with rich core functions including Live View, Playback, Recording Export, E-Map, Event Alarm, Smart Search, Al Analytics, and more.
- Milesight M-Sight Pro, a security camera app both for iOS and android, enhances security by providing administrators the flexibility to monitor the the live video from network cameras and NVRs via wireless network.

Note:

- 1) For Milesight NVR, it does not support adding or managing 5G camera when using 5G network.
- 2) Videos from the SD card of the 5G camera can be viewed on the Milesight CMS and M-Sight Pro.
- 3) VMS Enterprise supports recording surveillance video from 5G cameras to the VMS system.

Milesight CMS

For Milesight CMS, it supports adding 5G camera <u>via P2P</u> using 5G network, and then the parameter of 5G can be configured.

Step 1: After logging into the Milesight CMS, go to "Management" \rightarrow "Devices" \rightarrow "Add Devide Manually", and you can add 5G Al Camera by Mac Address when selecting P2P connection type.

Device Type:	Camera		•
Name:			
Connection Type:	P2P		•
Mac Address:	1C:C3:16:		Ø
User Name:	admin		0
Password:	[
5G Data Mode:	Low Data Mode		•
Note: P2P require	s higher bandwidth f	or stabili	ty.
	C	к	Add

Step 2: Go to **"Devices Config"** \rightarrow **"5G Camera"** \rightarrow **"System"** \rightarrow **"Network"** \rightarrow **"Cellular"**, You can set the cellular settings and check the cellular status and on CMS as shown below.

🖵 Network		×	🖵 Network					×
Network Email FTP DDI	NS Cellular Port		Network Ema	il FTP	DDNS	Cellular	Port	
Data Usage Monthly: 3088MiB			Cellular Status	6				
Refresh			ISP:	CHN-CT				
Cellular Settings			SIM Card Status:	Valid				
Enable Cellular:			Signal Strength:	attl				
APN:			Status:	5G Connected				
User Name:			IMEI:	8633050405430	26			
Password:			IMSI:	4601152104926	16			
PIN Code			ICCID:	8986032024592	2381178			
			IP Address:	100.90.140.248				
Access Number:			Subnet Mask:	255.255.255.240)			
Authentication Type: Auto	•		Gateway:	100.90.140.249				
Network Type: Auto	•		DNS Address:	218.85.157.99				
Re-dial Interval: 30	s(0-3600s)		Data Usage Month	ly: 3028MiB				
Billing Day: Day 1	▼ of The Month			Refresh				
Effective Time: Edit			Cellular Setting	gs				
		Ŧ	Enable Callular	1.1				v
	ОК	Apply					OK /	Apply

O Milesight VMS Enterprise

For Milesight VMS Enterprise, it supports adding 5G camera <u>via P2P</u> using 5G network. **Step 1:** After logging into the Milesight VMS Enterprise, go to **"Settings"→ "Devices Management"→ "Add Device"→ "Add Manually",** and you can add 5G AI Camera by Mac Address when selecting P2P

protocol.

Note: VMS Enterprise does not support 5G and IoT configuration currently.

Add Manually		×
Add single device Batch addition		
*Device Name		*Protocol
Auto	~	P2P ~
*MAC Address		«Server
1C:C3:16:		Auto Assign V
t	لنب	
∞User Name		*Password
		Add Cancel

3 M-Sight Pro

For M-sight Pro APP, it supports adding 5G camera via P2P using 5G network.

Step 1: After logging into the M-Sight Pro, go to "Device Manager"→ "Add Camera", and you can add 5G AI Camera by Mac Address when selecting P2P protocol. Or you can connect the 5G AI Camera by P2P QR Code.



Note: The P2P QR Code of the 5G AI Camera is activated on the camera Web by default.



4. How to Configure 5G AI Camera

Step 1: Insert the SIM card into the SIM card slot at the bottom of the camera, as shown below:



Note:

- 1 It supports Nano SIM for SIM card slot.
- 2 For 5G camera, the SD card slot is inside the camera, as shown below:



Step 2: After logging into the web, go to "Settings" \rightarrow "Network" \rightarrow "Basic" \rightarrow "Cellular", you can check the cellular status and set the cellular settings here, as shown below.

Mile	esight Network	Camera	l.					
	📩 Media	>	TCP/IP HTTP	RTSP UP	NP DDNS F	2P Cellular	Email	FT
•	Network	v	Collision Status			S		
	Basic		Condial Status		014.0	Chattan Associated		
	Advanced		Signal Strength	att	Status	Disconn	ert	
æ	Storage		ogna overger		Cialda	Discont		
	Event	,	IMEI		IMSI Data Lleas	- Marthly OME		
	€ IoT	>	IP Address	0.0.0.0	Subnet Ma	usk 0.0.0.0		
	優 System	,	Gateway	0.0.0.0	DNS Addr	ess 0.0.0.0		
	ga Oyonani		Refresh					
			Cellular Settings					,
			Schedule Settings	5				>
			Save					
			Jave					

Step3: Fill in the information provided by your Internet Service Provider (ISP) to **Cellular Settings** interface, then click **"Save"** to access the network successfully.

Note:

①For some Internet Service Providers, users can access the 5G network by simply inserting the SIM card directly, without additional configuration.

②As long as the SIM card is inserted and cellular is enabled, it will consume the data of the SIM card. If there is live video streaming, it will consume more data.

Modul > TCPAIP NTP TTP TTP TTP TTP TTP Network Cethar Status > > > > Natice Cethar Status > > > > Natice Cethar Status > > > > > > Natice Cethar Status >	Media Metwork Basic	> ~	тсрлр нттр	RTSP UPnP				
Image: Analysis Image: Analysis Image: Analysis Image: Im	Network Basic	~			DDNS	P2P Cellular	Email	FTP
Date: Cettor Serreg B Storage Ender D IoT APN B IoT User Hame System Passord PR Code Adhentication Ada Adhentication Ada Network Type Ada Brig Day Day 1 Of The Morth	Basic		Cellular Status					>
E Stonge Ende Image: Control on the stonge I DE Nort APH Image: Control on the stonge ID IOT Use Name Image: Control on the stonge ID IOT Parascol Image: Control on the stonge ID IOT Parascol Image: Control on the stonge ID IOT Access Name Image: Control on the stonge ID IOT Access Name Image: Control on the stonge ID IOT Access Name Image: Control on the stonge ID IOT Access Name Image: Control on the stonge ID IOT Access Name Image: Control on the stonge ID IOT Access Name Image: Control on the stonge ID IOT Image: Control on the stonge Image: Control on the stonge ID IOT Image: Control on the stonge Image: Control on the stonge ID IOT Image: Control on the stonge Image: Control on the stonge ID IOT Image: Control on the stonge Image: Control on the stonge ID IOT Image: Control on the stonge Image: Control on the stonge ID IOT Image: Control on the stonge Image: Control on the stonge ID IOT Image:	Advanced	ſ	Cellular Settings					~
© Event APN E loT Lon Name © System Passord Pino Cose Pino Cose Access Name Access Name Access Name Access Name Reduct Interval 30 Pino Detection C Biting Day Day 1	Storage		Enable					
Image:	🕲 Event	>	APN					
IBit System Passard PNN Code PNN Code Access Number Access Number Access Number Auto Network Type Auto Be-dati Internat 30 Prog Detecton Image: Compared to the Month Biting Day Day 1 Of The Month Of The Month	🖾 IoT	>	User Name					
PNN Code Access Mumber Autoentration Auto Network Type Be-dati Internat 30 Prog Detection Billing Day Day 1 Of The Month	System	>	Password					
Access Namber Authentication Authentication Network Type Auto Re-diat Interval 30 reg Detection Iming Day Day 1 V (b 5600s)			PIN Code					
Authentication Auto Network Type Auto Be dasi interval 30 Prog Detection 2 Billing Day Day 1 V Of The Month			Access Number					
Netion Type Auto Re-dati Interval 30 s (0-5600s) Ping Detection 2 Dilling Day Day 1 v Of The Month			Authentication	Auto		×.		
Re-dial Interval 30 s (6-5606s) Prog Detection 2 Dilling Day Day 1 v Of The Month			Network Type	Auto		~		
Prog Detection 😰 Billing Day Day 1 ~ Of The Month			Re-dial Interval	30		s (0-3600s)		
Billing Day Day 1 v Of The Month			Ping Detection					
		- I	Billing Day	Day 1		 Of The 	Month	
			Save					

Please refer to the meaning of the options as follows:

Parameters	Function Introduction
Enable	Check this option to enable 5G network.
APN	Enter the Access Point Name for cellular dial-up connection provided by local ISP.
Username	Enter the username for cellular dial-up connection provided by local ISP.

Password	Enter the password for cellular dial-up connection provided by local ISP.
PIN Code	Enter a 4-8 characters PIN code to unlock the SIM.
Access Number	Enter the dial-up center NO. For cellular dial-up connection provided by local ISP.
	Select the Authentication Type. There are five options including Auto, PAP,
Authentication	CHAP, MS-CHAP, MS-CHAPv2 to match different Internet Service Providers. The
	default option is Auto, which can automatically match Internet Service Provider.
	Select the network type of cellular network. There are five options including Auto,
Network Type	5G, 4G, 3G and 2G.
	Auto: connect to the network with the strongest signal automatically.
Do dial Interval	Fill in the re-dial interval time. When the 5G network is offline, it will re-dial
	according to the interval you set. The Re-dial Interval must be between 0-3600s.
Ping Detection	Check this option to select whether to ping extranet.
Billing Day	Select the date for clearing the data each month. Users can choose from 1st to
	31st, and the system will clear the data on the date you set each month.

Step4: After connecting to the network successfully, you can check the cellular status information on **Cellular Status** interface, as shown below.

Mile	esight ∙Network Ca	amera					
	😤 Media	>	TCP/IP HTTP	RTSP UPnP	DDNS Cellular	Email	FTP
•	Network Basic	~	Cellular Status	CHIN CT	SIM Card Status	Valid	۲
۲ ه	Advanced B Storage		Signal Strength	5 863305040412487	Status IMSI	5G Connected 460110833125	380
	Event	>	ICCID	89861119043114896944	Data Usage Monthly	391MiB	
	🗃 loT	>	IP Address Gateway	172.22.217.9	Subnet Mask	255.255.255.25	52
	System	>	Refresh				
			Cellular Settings				>
			Schedule Settings				>
			Save				

Please refer to the meaning of the options as follows:

Parameters	Function Introduction
	Show the network provider which the SIM card registers on.
IJſ	Note: It will display "-" when the SIM card is not inserted or not recognized.
	Display the connection status of SIM card.
SIM Card Status	No SIM Card: The SIM card is not inserted.
	Invalid: The SIM card has been inserted but failed to connect to the network.

	Valid: The SIM card has been inserted and successfully connected to the network.
Signal Strength	Display the current signal strength of the network.
Status	Display the connection status of the network, including "connect" and "disconnect".
IMEI	Show the IMEI of the module.
IMSI	Show IMSI of the SIM card.
ICCID	Show ICCID of the SIM card.
IP Address	
Subnet Mask	Display the IP Address, Subnet Mask, Gateway and DNS Address of the current network. If the SIM card is not inserted or not recognized, it will display 0.0.0.0.
Gateway	
DNS Address	
Data Usage Monthly	Display current monthly used data.
Refresh	Click this button to manually refresh the above status.

Step 5: Set the schedule, the 5G network will take effect according to the schedule you set.



Step 6: After configuring the cellular settings, you also need to complete other basic configurations of the camera if needed, such as events, recordings, etc.

Note: About How to configure other function, please refer to *Milesight Network Camera User Manual*. **Step 7:** After completing the basic settings of the camera, you can access the camera using 5G network without connecting the network cable.

