

WA08

Wi-Fi / 4G Camera

WA08 User Manual

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1. Introduction

WA08 is a Wi-Fi / 4G Camera that helps monitor your business or property remotely. Equipped with PIR, vibration sensors, and dry contact, WA08 takes photos on a schedule or when triggered. With support for both 4G and Wi-Fi networks, it keeps you updated as an emergency occurs. No matter where you are, WA08 captures every detail and sees everything for you.

2. Appearance



3. Features

- Powered by 4* 1.5V AA Alkaline battery in series-parallel connection
- Support Wi-Fi or 4G Cat1 communication
- Set a time or interval to take pictures
- Take pictures when dry contact input/PIR/vibration sensor is triggered
- Different resolution settings: 640 x 480 (300,000 pixels) / 1280 x1024 (1,000,000 pixels) / 1920 x1080 (2,000,000 pixels) / 2048 x1536 (3,000,000 pixels) / 2560 x1920 (5,000,000 pixels)
- Equipped with fill light to take pictures in low-light environments
- Configure parameters on the web server
- Easily connected to third-party MQTT platform

4. Setup Instructions

On / Off

	1. Insert 4* 1.5V AA Alkaline batteries		
Turn on	2. Press and hold the function key or take magnet close to the magnetic switch for 3 seconds.		
	3. The blue indicator flashes one time.		
	1. Press the function key or take magnet close to the magnetic switch.		
	2. The blue indicator remains on.		
Turn off and factory reset	3. Press and hold the function key for 5 seconds.		
	4. The blue indicator flashes 20 times. WA08 is factory reset and off.		
Power off	Remove the battery.		

Function key / Magnetic switch

Take picture(s)	1. Press the function key or move the magnet close to the switch and remove it.		
and report data to MQTT.	2. The blue indicator flashes once.		
(snapType = 1)	Note: Devices connected to 4G need to exit from the configuration page first.		
	1. Press and hold the function key or move the magnet close to the switch for 2 seconds and remove it.		
(anter to picture-taking mode	2. The blue indicator flashes 2 times and remains on.		
(only support 4G devices)	3. Device exits the configuration page and switches to picture-take mode.		
	Note: If the voltage is lower than 2.7V, device will be in sleep mode.		
	1. Press and hold the function key or move the magnet close to the switch for 3 seconds and remove it.		
Sleep mode	2. The blue indicator flashes 2 times.		
	3. WA08 enters sleep mode.		
	1. Press the function key or move the magnet close to the switch and remove it.		
Wake WA08	2. The blue indicator remains on.		
	Note: a. If device is not connected to a network in 1 minute, or it is connected but no configuration is made in 3 minutes, it enters sleep mode automatically.		
	b. Please make sure WA08 is awake before starting any operation.		

5. Data Report

After WA08 is on and connected to MQTT, it will send a data packet (snapType = 0). If no configuration is done, the device sends data based on the default settings.

Sensors can only be triggered when WA08 enters sleep mode.

(1) <u>Dry contact</u>

When the dry contact status changes, WA08 takes picture(s) and reports data (snapType = 4).

(2) <u>PIR</u>

When PIR is triggered, WA08 takes picture(s) and reports data (snapType = 2). PIR can only be triggered again after IRDectionTime (60s).

IRDectionTime = 60 seconds (default)

0 (PIR off.)

(3) ShockAlarm

When sensor detects data exceeds the threshold, WA08 takes picture(s) and reports data (snapType = 3). Reporting interval: 60s (Vibration sensor reports another data at least 60 seconds after the last one is sent)

ShockAlarm Level: 1 to 3 (default)

0 (ShockAlarm off.)

Example of data packet:

{				
"FW_version": "V0A",				
"HW_version": "V01",				
"FW_date": "2025-02-17",				
"values": {				
"devName": "Netvox WA08", SnapType can be 0 to 6. Each number rep			can be 0 to 6. Each number represents	
"devEui": "00137a111111",	different status or operation of device. For example,			
"battery": 30,		when snapType = 0 , it means device is on.		
"snapType": 0,		0	Turn on	
"ts": 1740536417, "localtime": "Wed Feb 26 10:20:17 2025",		1	Press function key	
"pixel": "1920*1080",		2	PIR trigger	

3

"imageSize": 74101,

}

}

"image": "/9j/4AAQSk...(Image code)"

- ShockAlarm trigger 3
- 4 Dry contact trigger
- 5 Take picture at given time
- 6 Take picture at a set interval

6. Login

① Make sure WA08 is on and awake.

2 Open Settings on your phone or computer and tap Wi-Fi.

Find and connect the wi-fi named Netvox_WA08_xxxx.

3 Open a browser and enter <u>http://192.168.6.1</u> to the configuration page.

SSID: Netvox_WA08_xxxx
The last 4 digits of MAC address. Please check the sticker on the device.
Password: Netvox_WA08
Default IP: 192.168.6.1

Note:

- a. If no configuration is made in 3 minutes, WA08 will be in sleep mode. Press the function key to wake device and search for Wi-Fi.
- b. If more than one device needs to be configured, please clear browser cache every time a device is configured, or log into with an incognito window.

7. Configure WA08 Parameters

Select Wi-Fi or 4G mode based on the network that your device supports.
WA08 (for Wi-Fi) can only select Wi-Fi working mode.
WA08A/B (for 4G network) supports Wi-Fi and 4G.



2 Adjust camera settings to ensure the quality of pictures.





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• LED

Automatic: LED is on when WA08 takes picture(s) and illuminance < Light threshold.

Always on: LED is on when WA08 takes picture(s).

Always off: LED remains off.

• Light Threshold

Adjust light threshold to turn on/off LED when it enters automatic mode. Range: 0 - 100 (default: 50) Illuminance < Light threshold LED: Automatic Illuminance \geq Light threshold LED: Off

• Lightness

Adjust picture's brightness Range: -2 - 2 (default: 0)

• Contrast Ratio

Range: -2 - 2 (default: 0)

• Saturation

Range: -2 - 2 (default: 0)

• Resolution Ratio

300,000 / <u>1,000,000</u> / 2,000,000 / 3,000,000 / 5,000,000 pixels (default)

Note: Power consumption could increase when the resolution is 5,000,000 pixels.

• Flip Horizontal / Vertical

Flip the photo horizontally or vertically.

• Restore

Undo the changes.

3 Adjust Capture Settings

œWA08 Sensing Camera				
🔄 Networking Meth	Capture Setting			
Device Info				
Capture Setting	Dry Contact Screenshot			
Ø Mqtt Setting	Activate PIR infrared capture			
Param Setting	Activate vibration detection and capture			
ල WiFi Info	Capture Mode Interval snapshot			
	Capture interval 8 Hour ~			
	Number of photos taken 1			
	Save Refresh			

• Capture button (snapType = 1)

Press the function key to take a picture.

Note: When device is in sleep mode, please press the function key to wake device first.

• Dry Contact Screenshot (snapType = 4)

Take picture(s) when voltage changes are detected during sleep mode.

Activate PIR infrared capture (snapType = 2)
Turn on set IRDectionTime.

Device takes photo(s) and reports data when PIR is triggered.

Activate vibration detection and capture (snapType = 3)
Set vibration sensitivity.

Device takes photo(s) and reports data when vibration is detected.



• Schedule Screenshot

Timed Capture of Image (snapType = 5):

set device to take photo(s) at a given time

Scheduling Screenshot			
Capture Mode	Timed Capture Of Image	: 🗸	
Time Setting Mon	day 🧹 🕓 00:01	Add	

Interval snapshot (snapType = 6):

device takes photo(s) at a set interval

Capture Mode	Interval snapshot		~
Capture interval	8	Hour	\sim

• Number of photos taken

The number of photos you want to take at a time.

Range: 1 – 10

Adjust MQTT Settings

Complying with MQTT protocol, WA08 sends photos to Netvox platform or third-party server.

⊑WA08 Sensing Ca	imera			
🔄 Networking Meth	Mqtt Sett	ing		
	Server	Netvox Cl	loud	\sim
Device Info			Update	Refresh
Capture Setting				
Ø Mqtt Setting				

• Server

Netvox Cloud

Check photos on Netvox AIoT app.

Customize

Select Customize if you use a third-party server.



Host

Enter the MQTT address.

MQTT Port \bullet

Enter the MQTT port.

Topic

Give the photo collection a name.

Client ID

Enter the Client ID.

QoS

Select QoS 0, 1, or 2.

Username & Password

Set your username and password to connect to MQTT.

5 Device Info

View device info or check if an upgrade is available.



If upgrade is available, please click Select file to download firmware first and start upgrading.

Please do not turn off the device or perform other tasks during upgrading. Device will reboot when upgrade is completed.

6 WLAN (for Wi-Fi connection only)

Check and edit Wi-Fi name and password.



7 Cellular (for 4G connection only)

œWA08 Sensing Camera				
Networking Meth	Cellular			
Davias Info	Status	Not Connected		
(Device Inio	IMEI	866346065310286		
Capture Setting				
Ø Mqtt Setting	Access Point	orange.m2m.spec		
n Param Setting	Username	4g_user		
🖵 4G Info	Password			
	PIN Code			
		Update Cancel		

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Status \bullet

Show the connection status of 4G network

IMEI

Show the IMEI of this device

Access Point

Enter your cellular APN.

Username

Enter your APN username.

Password

Enter your APN password.

- PIN Code
 - Enter your SIM PIN (4 8 digits).

8. Important Maintenance Instructions

Kindly pay attention to the following to achieve the best maintenance of the product:

- Keep the device dry. Rain, moisture, or any liquid might contain minerals and thus corrode electronic circuits. If the device gets wet, please dry it completely.
- Do not use or store the device in a dusty or dirty environment. It might damage its detachable parts and electronic components.
- Do not store the device under extremely hot conditions. High temperatures can shorten the life of electronic devices, destroy batteries, and deform or melt some plastic parts.
- Do not store the device in places that are too cold. Otherwise, when the temperature rises, moisture that forms inside the device will damage the board.
- Do not throw, knock, or shake the device. Rough handling of equipment can destroy internal circuit boards and delicate structures.
- Do not clean the device with strong chemicals, detergents, or strong detergents.
- Do not apply the device with paint. Smudges might block the device and affect the operation.
- Do not throw the battery into the fire, or the battery will explode. Damaged batteries may also explode.

All of the above applies to your device, battery, and accessories. If any device is not operating properly, please take it to the nearest authorized service facility for repair.