

# Wi-Fi / 4G Camera

Wireless Sensor Network Based on Wi-Fi and 4G technology



## WA08 Data Sheet

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## Wi-Fi / 4G Camera

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### Introduction

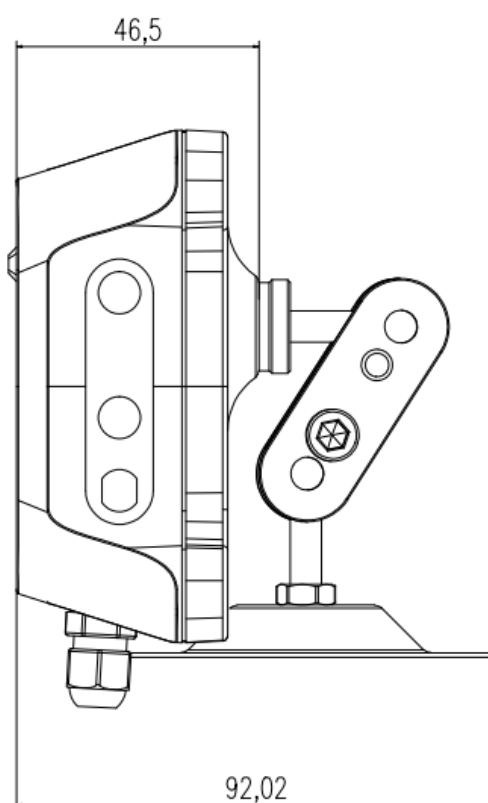
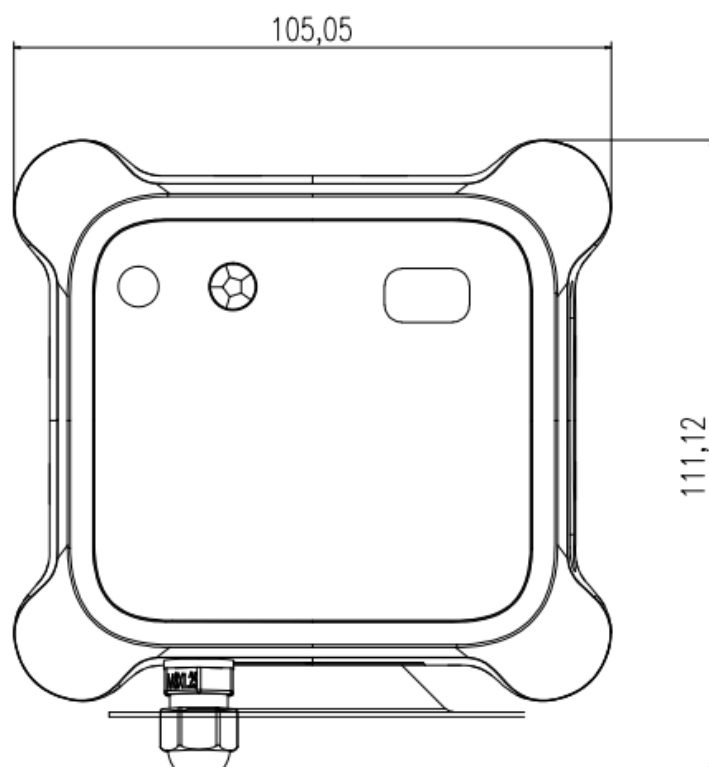
WA08 is a Wi-Fi / 4G Camera that helps monitor your business or property remotely. Equipped with PIR, vibration sensors, and dry contact, WA08 takes photos on a schedule or when triggered. With support for both 4G and Wi-Fi networks, it keeps you updated as an emergency occurs. No matter where you are,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

### Features

- Powered by 4\* 1.5V AA Alkaline battery in series-parallel connection
- IP65
- Support Wifi 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 (0.3MP) / 1280 x1024 (1MP) / 1920 x1080 (2MP) / 2048 x1536 (3MP) / 2560 x1920 (5MP)
- Equipped with LED light to take picture(s) in low-light environments
- Configure parameters on the web server
- Easily connected to third-party MQTT platform

### Applications

- Indoor current detecting devices for homes, hotels, office buildings, shopping malls, etc.
- Smart city

**Wi-Fi / 4G Camera****Dimensions**

## Wi-Fi / 4G Camera

### Electrical Specifications

Power Supply	4* 1.5V 2500mAh AA Alkaline battery in series-parallel connection
Battery Lifespan	Wi-Fi: 3.3 years (report every 480 minutes) 4G: 2.1 years
Standby Current	≤ 50uA
Operating Peak Current	Wi-Fi: 400mA 4G: 1A

Note: The electrical specifications may vary due to the voltage of the power supply.

### Camera

Pixels	5,000,000
Focal distance	3.29mm
F-number	2.8±5%
Lens Structure	4P+IR
Shooting Coverage	0.2m to INF
LENS	68.7°
Focus	Auto Focus
Operating Temperature	-30°C to +70°C

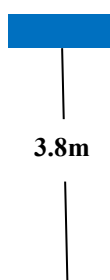
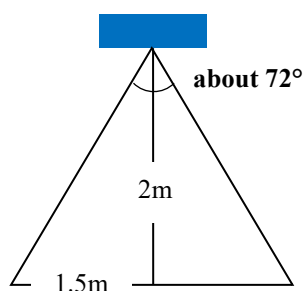
### Vibration Sensor

Voltage	<6V
Current	2uA–10mA
Insulation Resistance	>10MΩ
Trigger Rate	100% (amplitude > 1mm, frequency > 20Hz)
Trigger Frequency	>50Hz

## Wi-Fi / 4G Camera

### PIR

Power Supply	3VDC
Distance	3.8m vertically
Angle	About 72° (when PIR was installed vertically and placed 2m away)



#### Note:

1. When a heat source other than a human body is detected, PIR could have a false alarm. Here are some common causes:
  - (1) when small animals enter the detection range
  - (2) infrared radiation from sunlight, automobile headlights, incandescent lamps, etc.
  - (3) sudden changes in temperatures caused by water vapor of humidifier or cold greenhouse equipment
2. PIR sensor may be hard to trigger when...
  - (1) substances such as glass and propylene block infrared radiation, undermining PIR's detection.
  - (2) a heat source within the detection range hardly moves or moves too fast.

## Wi-Fi / 4G Camera

### Frequency

WA08 supports Wi-Fi network only. WA08A and WA08B support Wi-Fi and 4G network.

#### Wi-Fi

Standard	IEEE 802.11 b/g/n
Frequency Range	2412-2484MHZ
Antenna	Built-in PCB antenna

#### Cellular

Network	4G LTE (Cat.1)
Frequency Bands	<u>EG916Q-GL</u> (WA08A) LTE-FDD: B1/2/3/4/5/7/8/12/13/18/19/20/25/26/28/66 LTE-TDD: B34/38/39/40/41
	<u>EG21-G</u> (WA08B) LTE-FDD: B1/2/3/4/5/7/8/12/13/18/19/20/25/26/28 LTE-TDD: B38/39/40/41
Antenna	Built-in FPC antenna
SIM	Nano SIM card

### Physical Properties

Dimensions	L: 105mm x W: 98.5mm x H: 46.5mm
Dry Contact Cable Length	Ø 3mm 2-core round cable; 1000mm
Ambient Operating Temperature	-20°C to +55°C
Ambient Storage Temperature	-40°C to +85°C
Ambient Humidity	<90%RH (no condensation)
Installation	Swivel Bracket