X5 Sensing Camera SC311





X5 Sensing Camera is a cutting-edge AloT device that leverages active sensing to enable intelligent and versatile applications. It comes equipped with a high-advanced image sensor and customizable capturing modes that can deliver high-quality images for a range of scenarios. The X5 also features embedded low-consumption radar and PIR sensors which provide greater sensitivity. Additionally, the camera has temperature and sound sensors that allow for environmental sensing.

Moreover, X5 features wireless connectivity and simple configuration options for easy integration into specific environments. The low-consumption mode and optional solar panel extend its operational life and increase cost-effectiveness. With IP66-rated protection and anti-theft design, the X5 opens up a wealth of potential applications.

X5 Sensing Camera supports simple configuration via Wi-Fi, and facilitates remote management and data transmission via standard MQTT(s) and HTTP protocols to Milesight AloT Sensing Platform and other platforms.

Features

High-quality Capturing System

- > Detect the moving objects actively cooperating with PIR and Radar
- > Support multi-type picture-capturing modes depending on various kinds of triggering sources:

- Radar & PIR, temperature, sound, alarm-in, etc.
- > Equip with one advanced infrared supplement light to increase light level in dark environment and improve the sensitivity for capturing objects from up to 10m distance
- Provide full HD resolution 1920 x 1080 pixels and adjustable picture parameters

High Adaptability & Reliability

- > Provide all-in-one camera bracket and rain cover for more simple installation options
- > Support multi-type power supply and additional solar panel for outdoor application
- Smart sleep-mode logic and low-power consumption provide it a longer service life
- Equip with heating film for protecting battery in low-temperature environment
- > Support IP66 rated protection and anti-theft screw design for adapting to more scenarios

Easy Management & Deployment

- Wireless deployment with stable 4G network
- Support easy configuration via wireless Wi-Fi connection
- Support data transmission via HTTP/MQTT(S)
- > Adapt to more applications with rich industrial interfaces
- Support remote management with assorted Milesight AloT Sensing Platform for extending its applications

Specifications

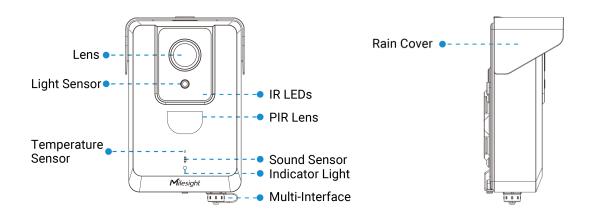
Camera		
Image Sensor	1/2.8" Progressive Scan CMOS	
Day/Night Mode	Day/Night/Auto	
Lens		
Lens	2.8mm	
Field of View	100°	
Image		
Max. Resolution	1920 × 1080 Pixels	
Image Settings	Brightness/Contrast/Saturation/Sharpness	
Picture Format	JPEG	
Capture Performance		
Capture Mode	Radar & PIR Trigger Capture, Sound Trigger Capture, Temperature	
	Trigger Capture, Alarm-in Capture, Interval Capture	
Capture Rate	≥ 95%	

Capture Distance	6m (Optimal)	
Capture Distance	≤10m	
Nighttime Illumination Distance	Up to 10m	
Triggering Source		
Radar & PIR		
Radar Frequency Range	5.725GHz-5.875GHz	
Radar Tx Power	-4dBm	
PIR Detection Area	105°Horizontal, 105 ° Vertical	
Sound Sensor		
Range	30dBA ~ 120dBA	
Accuracy	± 3dB (0°C to +45°C)	
Resolution	1dB	
Temperature Sensor		
Range	-20°C ~ 60°C	
Accuracy	± 0.3°C (0°C to + 60°C), ± 0.6°C(-20°C to 0°C)	
Resolution	0.1°C	
Wireless Transmission		
	4G LTE	
0 11 1	NA: B2/B4/B5/B12/B13/B25/B26	
Cellular	EU: B1/B3/B7/B8/B20/B28	
	AU: B1/B2/B3/B4/B5/B7/B8/B28/B66	
SIM Slot	1 x Nano- 4FF SIM Slot	
Protocol	HTTP/MQTT(s)	
Other Interfaces		
Wi-Fi	IEEE 802.11 b/g/n, 2.4GHz (AP Mode for Configuration)	
Bluetooth	Bluetooth® 5.3 (Device Wake-up)	
GPS	Built-in High-accuracy GPS Module	
Alarm I/O	1/1	
Serial Port	1 x RS485	
USB	1 × Type-C (USB 2.0) for Power Supply and Debug	
Button	1 x Power Button, 1 x Reset Button, 1 x Wi-Fi Button	
LED Indicator	1 × Status Indicator	
Storage	1 × microSD/SDHC/SDXC Card Slot, support local storage up to 256G	
Solar Power Input	1 x MC4 Connector	
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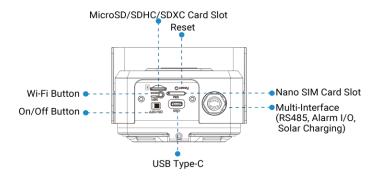
Physical Characteristics		
Power Supply	 Solar Power via MC4 Connector Solar Power Requirement: Power ≥ 35W, OCV < 22V 7.2V, 6500mAh Cold-weather Performance Rechargeable Lithium-ion Batteries 	
Battery Life ¹	3. 5V / 1A by Type-C Port When X5 is powered solely by internal batteries, 500 daytime captures and 500 nighttime captures per day: Triggering Upload: Up to 3.5 Days Timing Upload: Up to 10 Days	
Battery Health	The Battery's Capacity will reduce to 70% after 500 Times of Accumulative Charging and Discharging	
Power Consumption	Standby Status: 19mW Capture Status: 1.7W (Daytime), 3.2W (Nighttime with IR On)	
Operating Temperature	-20°C ~ +60°C	
Color & Material	Charcoal Grey, ABS + PC (Flame Retardant)	
Ingress Protection	IP66	
Rain Cover Movement Distance	10mm	
Dimension	175 x 111 x 63.2mm (Without Rain Cover)	
Warranty ²	2 Years	

¹ Tested under laboratory conditions and for guideline purposes only.

◆ Hardware Overview

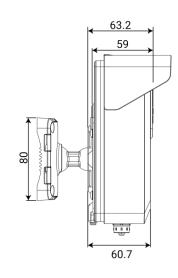


² For detailed information, visit our website at https://www.milesight.com.

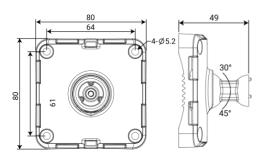


◆ Dimension(mm)

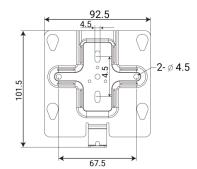
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3-Axis Ball Mounting Bracket



Backplane













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