# X5 Sensing Camera SC31x



X5 Sensing Camera is a cutting-edge AloT device that leverages active sensing to enable intelligent and versatile applications. It comes equipped with a highly 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 enables environmental sensing.

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

SC31x Datasheet

Radar & PIR, temperature, sound, alarm-in, etc.

- Equipped with one advanced infrared supplement light to increase light levels in dark environment and improve its sensitivity for capturing objects up to 10m away
- > Equipped with different HD camera lens(4K/2MP) to satisfy needs of different scenes

### 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 allows a longer service life
- > Equipped 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 AIoT Sensing Platform for extending its applications

## Specifications

Model Name	SC311	SC312			
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 (2MP)	3840 × 2160 Pixels (4K)			
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, Timed Capture, Debug 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				
Cellular	4G LTE NA: B2/B4/B5/B12/B13/B25/B26 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 <sup>®</sup> 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 India	cator	1 × Status	Indicator	
Storage		1 × MicroSD/SDHC/SDXC Card Slot, support local storage up to 256G		
Solar Power Input		1 x MC4 Connector		
Physica	al Characterist	ics		
Power Supply		<ol> <li>Solar Power via MC4 Connector Solar Power Requirement: Power ≥ 35W, OCV &lt; 22V</li> <li>7.2V, 6500mAh Cold-weather Performance Rechargeable Lithium-ion Batteries</li> <li>3) 5V / 1A by Type-C Port</li> </ol>		
Battery Life <sup>1</sup>	Full Function Capture Mode <sup>2</sup>	Triggering Upload: Up to 2.4 Days Timing Upload: Up to 6.5 Days	Triggering Upload: Up to 1.9 Days Timing Upload: Up to 5.2 Days	
	Low Power Timed Capture Mode <sup>3</sup>	Triggering Upload: Up to 372.2 Days Timing Upload: Up to 738.3 Days	Triggering Upload: Up to 299.7 Days Timing Upload: Up to 655.73 Days	
Battery Health		The Battery's Capacity will reduce to 70% after 500 Times of Accumulative Charging and Discharging		
Power Consu mption	Full Function Capture Mode <sup>2</sup>	Standby Status: 62mW Capture Status: 1.1W (Daytime), 2.7W (Nighttime with IR On)	Standby Status: 61.1mW Capture Status: 1.6W (Daytime), 3.1W (Nighttime with IR On)	
	Low Power Timed Capture Mode <sup>3</sup>	Standby Status: 1.7mW Capture Status: 1.6W (Daytime), 3.9W (Nighttime with IR On)	Standby Status: 1.8mW Capture Status: 2.3W (Daytime), 4.6W (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)		
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<sup>1</sup> Tested under laboratory conditions and for guideline purposes only.

<sup>2</sup> Powered solely by internal batteries, 500 daytime captures and 500 nighttime captures per day.

<sup>3</sup> Powered solely by internal batteries, all sensors turned off, 4 daytime captures per day.

<sup>4</sup> For detailed information, visit our website <u>https://www.milesight.com</u>.





# Dimension(mm)





#### **3-Axis Ball Mounting Bracket**





#### Backplane



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