X1 Sensing Camera

SC541 / SC541-HL

Milesight

Milesight X1 Sensing Camera is a creative AIoT product with applicable and intelligent applications. By capturing pictures, X1 Sensing camera can replace human inspection in multiple scenarios and economize on manpower. High-quality picture-capturing function and embedded supplement light make it more competitive and useful under different environmental conditions.

Milesight X1 Sensing Camera has featured with low-power consumption and allows for different power supplying methods for extending its service life and maximizing its utilization.

With a compact size, X1 Sensing Camera allows for easy deployment. It supports easy configuration via Wi-Fi and allows for remote management and data transmission via standard MQTT to Milesight AIoT Sensing Platform.

◆ Features

High-quality Capturing System

➢ Provide full HD resolution 1920 x 1080 pixels

➢ Support multi-type picture-capturing modes depending on time interval, scheduled time, Alarm-in settings, and one external button

➢ Support close focus lens and super close focus lens to meet different close-range capture

needs

➢ Equip with one advanced supplement light to increase light level under specific conditions

Smart Applications

➢ Supports both Wi-Fi and Wi-Fi HaLow communication versions to meet different networking requirements

➢ Compact size with wireless deployment

➢ Smart sleep-mode logic and low-power consumption provide it a longer service life

➢ Provide universal camera bracket interface for more installation options

Easy Management

➢ Support easy configuration via wireless Wi-Fi connection

➢ Support remote management with assorted Milesight AIoT Sensing Platform for extending its applications

◆ Specifications

Model	SC541	SC541-HL
Lens		
Lens Type	PN: 1020 (For close capture) PN: 0510 (For super-close capture)	
Resolution	1920 x 1080 Pixels	
Aperture	F2.4@PN: 1020 F2.0@PN: 0510	
Focal Length	4.8mm@PN: 1020 1.79mm@PN: 0510	
Field of View	77°@PN: 1020 120°@PN: 0510	
Picture Capture		
Mounting Distance	10 ~ 20 cm@PN: 1020 5 ~ 10 cm@PN: 0510	
Capture Mode	Scheduled Capture (Interval & Timed) / Alarm-in Capture / Button Capture	
Picture Format	JPEG	
Storage	Store up to 40 pictures (About 3MB Flash)	
Wireless Transmission		
Wi-Fi	IEEE 802.11 b/g/n, 2.4GHz (AP & STA)	IEEE 802.11 b/g/n, 2.4GHz (AP for Configuration Only)

Wi-Fi HaLow	-	863.5~867.5 MHz or 902.5~927.5 MHz
Protocol	MQTT	

Interface

Type-C Interface	1 x Type-C	
LED	1 x Status (Blue)	
Button	1 x External Button (Awake/Capture/Reset Device)	
Antenna	Built-in Antenna	1 × 50 Ω SMB Female Connector (Center PIN: SMB Female)
Alarm-in Interface	Logical Level: Low: <0.5V, High: 3V ~ 5V Trigger Condition: High Level lasted over 150us	

Physical Characteristics

Power Supply	5V / 1A by Type-C Port; 2 x AA Alkaline Batteries[1]	5V / 1A by Type-C Port; 2 x Li/FeS$_2$ AA Batteries (3000mAh in Total)[1]
Battery Life[2]	Up to 2 Years (3 Captures per Day, Supplement Light Off, 25°C)	Up to 3 Years (3 Captures per Day, Supplement Light Off, 25°C)
Installation	Universal Camera Bracket Mounting (1/4-20UNC)	
Operating Temperature	0°C ~ 50°C	
Storage Temperature	-20°C ~ 60°C	
Relative Humidity	0 ~ 95% (Non-condensing)	
Color & Material	PC + ABS, Charcoal Grey	PC + ABS, Black
Ingress Protection	IP30	
Dimension	62 x 62 x 25 mm	
Weight	48g(Without Batteries)	54g (Without Batteries) 85g (With Batteries)
Warranty[3]	2 Years	

[1] The two Li/FeS$_2$ batteries are provided as standard, and two alkaline batteries are not provided and need to be purchased by yourself.

[2] Tested under laboratory conditions and for guideline purposes only.

[3] For detailed information, visit our website at https://www.milesight.com.

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