User Manual

Outdoor IP Security Camera

Model:SD2X

V3.1

Table of Contents

1 Overview

1.1 Key Features

◆ 2.0 Mega-Pixel
◆ H.264 video Compression
◆ Supports Pan & Tilt
◆ Supports Human detection, Motion Detection
◆ Compatible with free Foscam Video Management Software
◆ Compatible with free Foscam iOS and Android APP
◆ Supports 2.4G/5G dual band, IEEE802.11b/g/n/ac
◆ Supports 18x Optical Zoom
◆ 6pcs Infrared-LEDs, night vision range up to 50 metres (164ft)
◆ Supports sound detection
◆ Supports WDR(Wide-Dynamic Range)
◆ Supports 256GB Micro SD Card storage(External)
◆ P2P Feature for Easy Remote Access
◆ Supports image snapshot
◆ Supports dual-stream
◆ Supports remote viewing & record from anywhere anytime
◆ Multi-level users management with password protection
◆ Supports multiple network protocols: IP, TCP, UDP, HTTP, HTTPS, SMTP, FTP, DHCP, RTSP
◆ Supports Alexa
◆ Supports Google Assistant

1.2 Read before Use

Please first verify that all contents received are complete according to the Package Contents listed below. Before the Network Camera is installed, please carefully read and follow the instructions in the Quick Setup Guide to avoid damage due to faulty assembly and installation. This also ensures the product is used properly as intended.

1.3 Packing Contents

● Camera× 1	● Ethernet Cable× 1
● Quick Setup Guide × 1	● Expansion Screws × 1
● Waterproof Lid × 1	● Power Adapter × 1
● Surveillance sign× 1	● Screwdriver × 1
● Wi-Fi Antenna× 1	● Tweezers

1.4 Physical Description
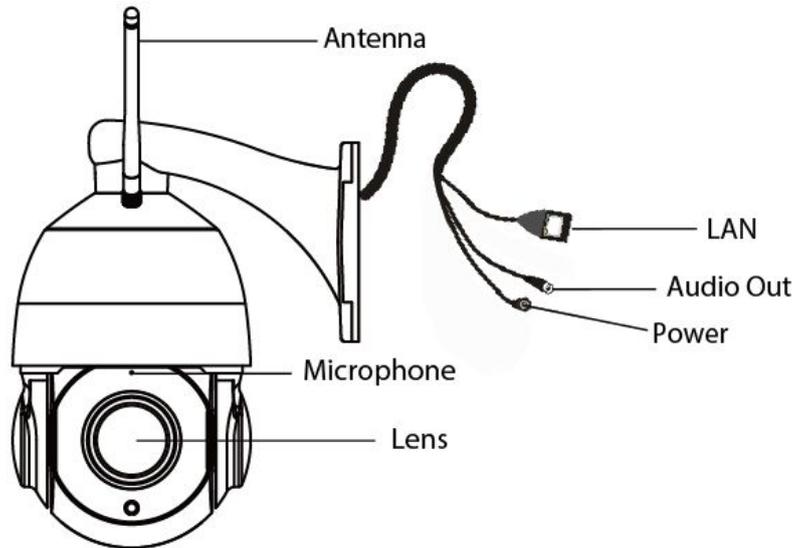

Antenna: Wireless Antenna

LAN: 10/100M adaptive Ethernet interface. Through this interface, IP camera can be connected with various network devices, such as hub, router, etc.

Microphone: Built-in Microphone.

Audio Out interface: The jack is used to plug external output device such as loud speaker directly. Here speaker cannot directly insert to the interface, it must connect to adapter first.

Power: Connect the external power adapter, request for 12V / 2A power.

Lens: High Definition Color CMOS Sensor with zoom lens.
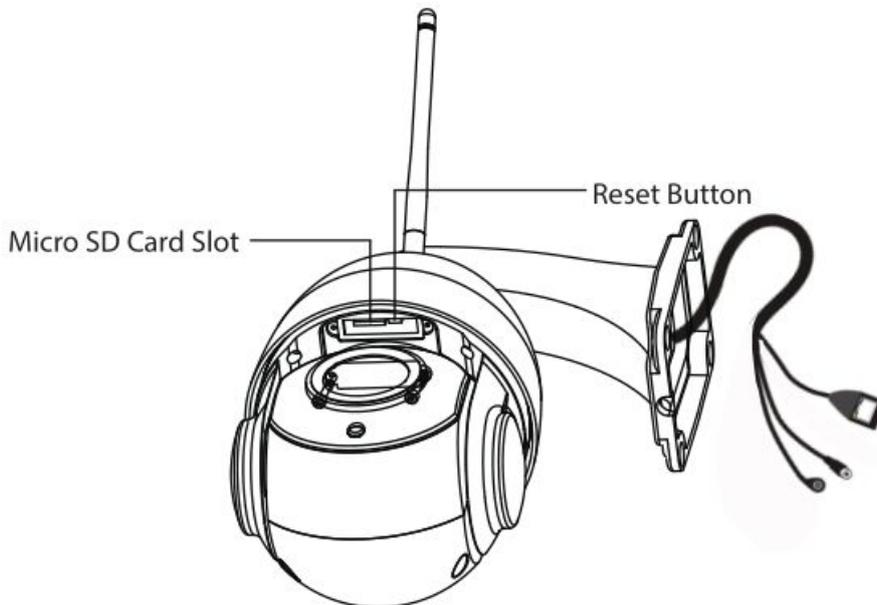
Reset Button

Press and hold on the reset button for 5 seconds. Releasing the reset button, the password will back to the factory default administrator password. The default administrator user is admin with random password.

Micro SD Card slot: Supports up to 256GB SD card for storing the video.

1.5 SD Card Management

This camera supports Micro SD Card.
When you plug in the SD card during the camera work process, please reboot the camera again, or else the SD card might not work well.
On Foscam app go to the **Settings→Device Status→Device Status** page, you can see the SD card status.

## 1.6 Add Device: Connection via the Foscam App

Scan the QR code below to download and install the Foscam APP.

Please refer to the *Quick Setup Guide*.

1.7 Installation

Please refer to the *Quick Setup Guide*.
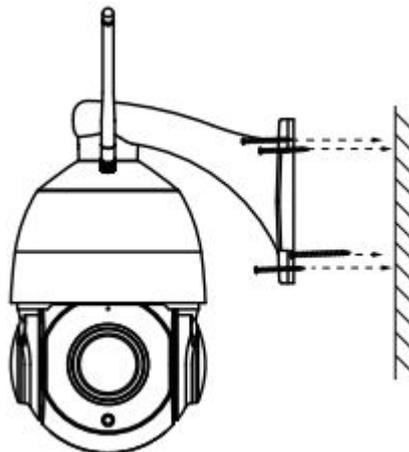
Fixate the camera on your preferred location and use the provided screws to mount it.
Please Note:
Ensure that the rain or water will not reach the connector ports at the end of the pig tail wiring. These connectors are not weather-resistant.

1.8 Waterproof Lid Installation Guide

When mounting your camera outdoors, you are suggested to install the waterproof lid for it. You may follow the steps for installation.

1. Thread the Ethernet cable through the top cover and then the waterproof connector.
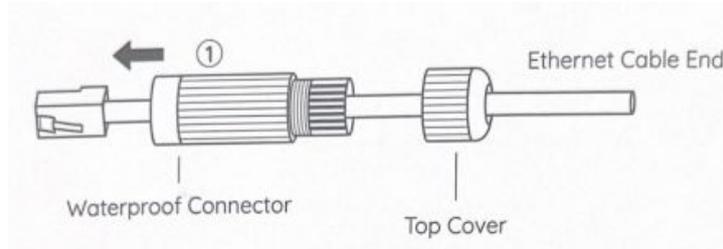
2. Put the rubber seal ring around the Ethernet cable between the top cover and the waterproof connector.
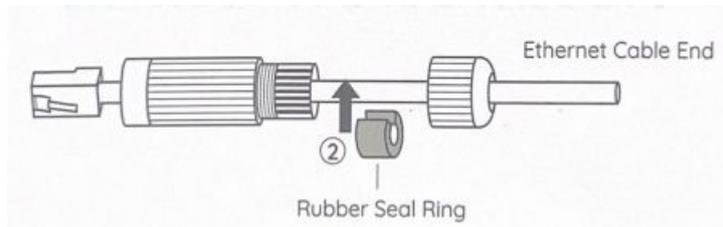
 Note: The rubber seal ring provided has been cut. If not, you may manually cut it.

3. Put on the rubber O-ring to the Ethernet port of the camera and plug the Ethernet cable into the Ethernet port.
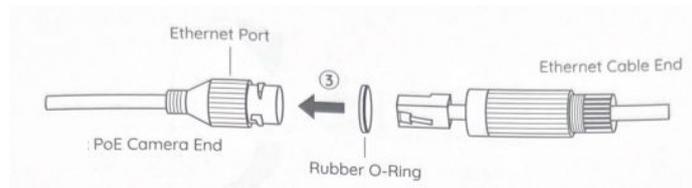
4. Align the waterproof connector with the Ethernet port, then twist it clockwise to tighten the two parts.
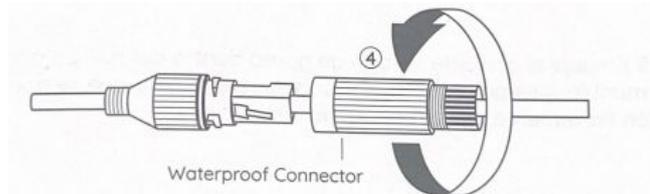
5. Push the rubber seal ring into the waterproof connector, then screw the top cover and lock it into position firmly to finish installation.
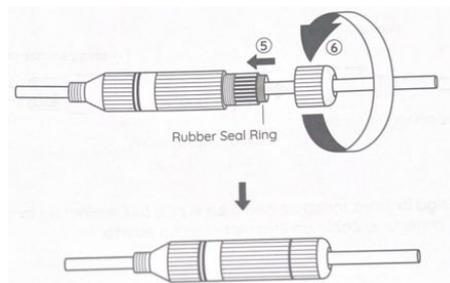
2 Default Parameters

Default network parameters

IP address: obtain dynamically

Subnet mask: obtain dynamically

Gateway: obtain dynamically

3 Specification

<table>
<tr><th colspan="2">ITEMS</th><th>SD2X</th></tr>
<tr><td rowspan="3">Image Sensor</td><td>Sensor Type</td><td>High Definition Color CMOS Sensor</td></tr>
<tr><td>Display Resolution</td><td>2.0Megapixels(1920*1080)</td></tr>
<tr><td>Min. Illumination</td><td>N/A　(Without IR Illuminator)</td></tr>
<tr><td rowspan="2">Lens</td><td>Lens Type</td><td>f.5.4mm-97.2mm; F1.7</td></tr>
<tr><td>Angle of view</td><td>Diagonal: 4.05°~54.67°, Horizontal: 3.55°~48.45°, Vertical: 1.89°~26.72°</td></tr>
<tr><td rowspan="9">Video</td><td>Image Compression</td><td>H.264</td></tr>
<tr><td>Image Frame Rate</td><td>25fps（1080P）/15fps（720P）/, downward adjustable</td></tr>
<tr><td>Resolution</td><td>1080P(1920x1080),720P(1280 x 720), VGA(640 x 480), QVGA(320 x 240)</td></tr>
<tr><td>Stream</td><td>Dual stream</td></tr>
<tr><td>Image Adjustment</td><td>The hue, brightness, contrast, saturation, sharpness are adjustable</td></tr>
<tr><td>Flip Image</td><td>Flip and mirror</td></tr>
<tr><td>Infrared Mode</td><td>Automatic and manual</td></tr>
<tr><td>Pan/Tilt Angle</td><td>Pan:350° / Tilt:90°</td></tr>
<tr><td>Night Visibility</td><td>6pcs Infrared-LEDs, night vision range up to 50 metres</td></tr>
<tr><td rowspan="2">Audio</td><td>Input/Output</td><td>Supports two-way audio</td></tr>
<tr><td>Audio Compression</td><td>PCM/G.726</td></tr>
<tr><td rowspan="6">Network</td><td>Ethernet</td><td>One 10/100Mbps RJ45 port</td></tr>
<tr><td>Wireless Standard</td><td>IEEE802.11b/g/n/ac</td></tr>
<tr><td>Data Rate</td><td>IEEE802.11b: 11Mbps(Max.);
IEEE802.11g: 54Mbps(Max.);
IEEE802.11n: 150Mbps(Max.).
IEEE802.11ac: 433Mbps(Max.).</td></tr>
<tr><td>Wireless Security</td><td>WPA, WPA2</td></tr>
<tr><td>Remote Access</td><td>P2P</td></tr>
<tr><td>Network Protocol</td><td>IP, TCP, UDP, HTTP, HTTPS, SMTP, FTP, DHCP, RTSP</td></tr>
</table>

System Requirements	Operating System	Microsoft Windows (Foscam VMS), MacOS (Foscam VMS), Android (Foscam app), iOS (Foscam app)
Other Features	Motion Detection	Alarm via E-Mail, FTP and Foscam app when an event is detected
	Sound Detection	Alarm via E-Mail, FTP and Foscam app when an event is detected
	HumanDetection	Alarm via E-Mail, FTP and Foscam app when an event is detected
	User Accounts	Three levels user role
	WDR	Improve image clarity in complex scenario
	Zoom	18X optical zoom function
	Storage	Support max. 256GB Micro SD card, local and FTP storage,Foscam cloud storage
	Intelligent Assistant	Supports Alexa, Google Assistant
Power	Power Supply	DC 12V/2.0A
	Power Consumption	20 Watts (Max.)
Physical	Dimension(LxWxH)	136 mm x 246 mm x 202 mm
	Net Weight	1500g
Environment	Waterproof	IP66
	Operating Temperature	'-20°C ~ 60° (-4°F ~ 140°F)
	Operating Humidity	20% ~ 85% non-condensing
	Storage Temperature	-20°C ~ 60° (-4°F ~ 140°F)
	Storage Humidity	0% ~ 90% non-condensing
Certification	FCC, CE, RoHS, IP66	

For other parts, please refer to the "FOSCAM Camera User Manual"