FOSCAM
home security

User Manual

Outdoor IP Security Camera

Model:SD4H

V3.0

Table of Contents

1 Overview

1.1 Key Features

- ◆ 4MP QHD Waterproof IP Camera
- ◆ H.264+/H.264 video Compression
- ◆ Supports Pan & Tilt
- ◆ Motion/Human/Vehicle/ Sound Detection Alarm via E-Mail and FTP
- ◆ 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
- ◆ With 6pcs Infrared-LEDs + 4pcs Laser LEDs, night Vision range up to 200 meters (656ft)
- ◆ Supports HDR
- ◆ 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
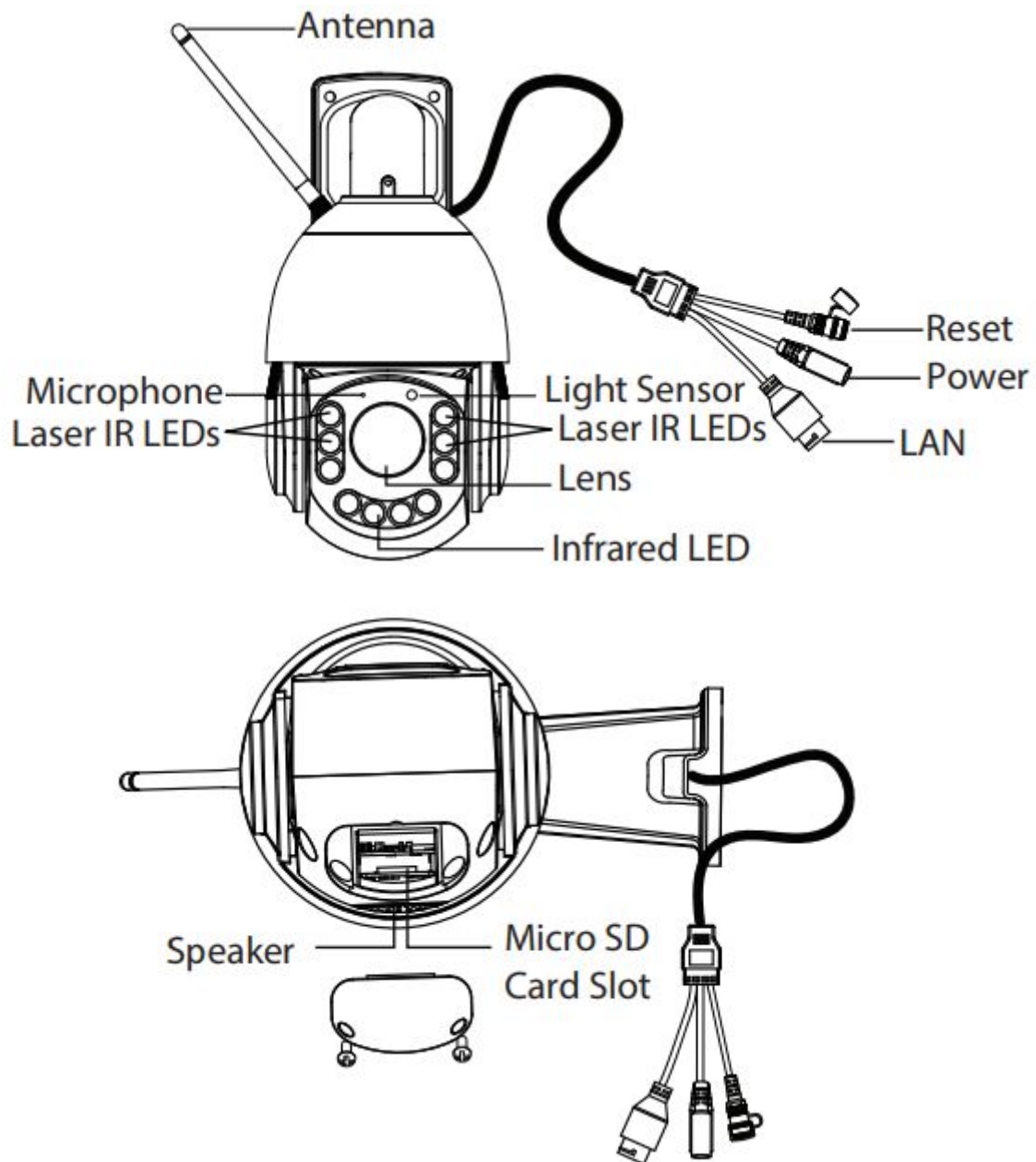- ◆ Supports Alexa
- ◆ Supports Google Assistant

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	● Mounting Template × 1
● Surveillance sign× 1	● Mounting Plate × 1
●Wi-Fi Antenna× 1	● Power Adapter × 1

1.4 Physical Description

LED: 6pcs Infrared-LEDs + 4pcs Laser LEDs, night Vision range up to 200 meters (656ft).
Lens: High Definition Color CMOS Sensor sensor with zoom lens.
Antenna: Wireless Antenna
Power: Connect the external power adapter, request for 12V / 4A power.
LAN: 10/100M adaptive Ethernet interface. Through this interface, IP camera can be connected with various network devices, such as hub, router, etc.

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 no password.

Micro SD Card slot: Supports up to 256GB SD card for storing the video.
Speaker: Built-in speaker.

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.

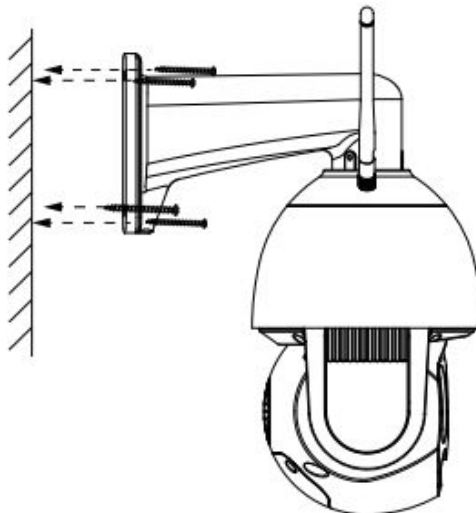# 1.6 Add Device: Connection via the Foscam App

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

Please refer to the *Quick Setup Guide*.

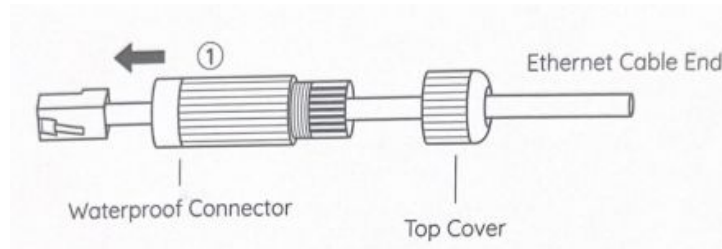# 1.7 Installation

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.
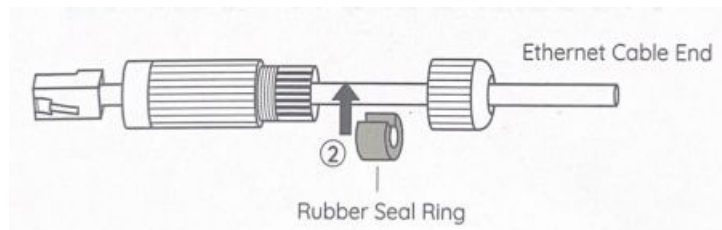These connectors are not weather-resistant

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.
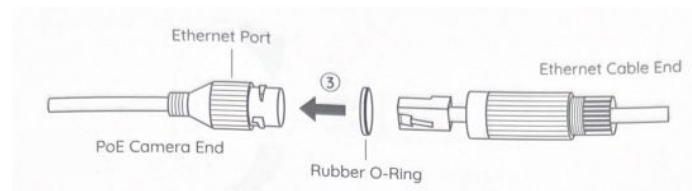

2. Put the rubber seal ring around the Ethernet cable between the top cover and the waterproof connector.

  Note: The rubber seal ring provided has been cut. If not, you may manually cut it.
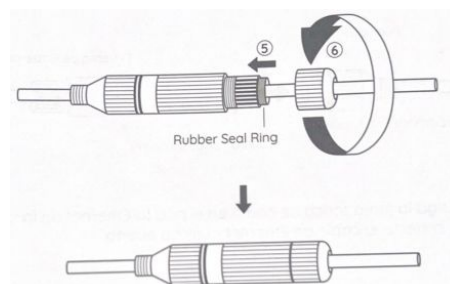
3. Put on the rubber O-ring to the Ethernet port of the camera and plug the Ethernet cable into the Ethernet port.

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

ITEMS		SD4H
Image Sensor	Sensor Type	High Definition Color CMOS Sensor
	Display Resolution	4.0Megapixels(2560*1440)
	Min. Illumination	0 Lux (With IR Illuminator)
Lens	Lens Type	f.5.4mm-97.2mm; F1.8~3.9
	Angle of view	Diagonal: 5.7°~60.8°, Horizontal: 5.2°~52.7°, Vertical: 3°~30.5°
Video	Image Compression	H.264+/H.264
	Image Frame Rate	Max 25fps (4MP), downward adjustable
	Resolution	2K(2560*1440) 25fps,3MP(2304x1296)25fps,1080P(1920x1080) 25fps,720P(1280 x 720), VGA(640 x 480), QVGA(320 x 240)
	Stream	Dual stream
	Image Adjustment	The hue, brightness, contrast, saturation and sharpness are adjustable
	Flip Image	Flip and mirror
	Infrared Mode	Automatic and manual
	Pan/Tilt Angle	Pan:350° / Tilt:90°
	Night Visibility	With 6pcs Infrared-LEDs + 4pcs Laser LEDs, night Vision range up to 200 meters
Audio	Input/Output	Built-in mic and speaker,supports full duplex 2-way Audio
	Audio Compression	PCM/G.726
	Siren	Support maximum 120dB alarm siren
Network	Ethernet	One 10/100Mbps RJ45 port
	Wireless Standard	IEEE802.11b/g/n/ac
	Wireless Security	WPA, WPA2
	Remote Access	P2P
	Wifi configuration Mode	Support scan QR code , sound wave to add camera
	Network Protocol	IP, TCP, UDP, HTTP, HTTPS, SMTP, FTP, DHCP, RTSP

System Requirements	Operating System	Microsoft Windows (Foscam VMS), MacOS (Foscam VMS), Android (Foscam app), iOS (Foscam app)
Other Features	Auto Tracking	Yes
	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
	Human Detection	Alarm via E-Mail, FTP and Foscam app when an event is detected
	Vehicle Detection	Alarm via E-Mail, FTP and Foscam app when an event is detected
	User Accounts	Three levels user role
	HDR	Improve image clarity in complex scenarios
	Zoom	18X optical zoom function
	Storage	Support max. 256GB Micro SD card, local and FTP storage,Foscam cloud storage
	Intelligent Assistant	Supports Alexa, Google Home
Power	Power Supply	DC 12V/4.0A
	Power Consumption	30 Watts (Max.)
Physical	Dimension(LxWxH)	215 mm x 138mm x 277 mm
	Net Weight	1570g
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"