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› [FOSCAM](#) /

› [FOSCAM 4MP WiFi PTZ Outdoor Camera User Manual](#)

**FOSCAM SD4H**

# **FOSCAM 4MP WiFi PTZ Outdoor Camera User Manual**

**MODEL: SD4H**

Your comprehensive guide to setting up, operating, and maintaining your FOSCAM security camera.

## **1. Introduction**

The FOSCAM 4MP WiFi PTZ Outdoor Camera (Model SD4H) is a high-performance security solution designed for outdoor surveillance. It features ultra-clear 2K imaging, 18X optical zoom, auto-tracking capabilities, and advanced AI detection for humans, vehicles, and animals. With dual-band WiFi 6 support, two-way audio, and robust IP66 weatherproofing, this camera provides reliable monitoring and enhanced security for various outdoor environments.



Figure 1: FOSCAM 4MP WiFi PTZ Outdoor Camera and its mobile application interface.

## 2. Setup

### 2.1 What's in the Box

Before beginning installation, please verify that all components are present:

- Security Camera
- 12V 4A Power Adapter
- User Manual (this document)
- Screws Package for mounting
- Warning Sticker

### 2.2 Physical Installation

The FOSCAM SD4H camera is designed for outdoor wall mounting. Select a suitable location that provides the desired viewing angle and is within reach of a power source. Ensure the mounting surface is sturdy enough to support the camera's weight (approximately 5.24 pounds).

1. Identify the desired mounting location.
2. Use the provided mounting template (if applicable, refer to the physical manual) or the camera's base to mark the drill holes.
3. Drill pilot holes into the marked positions.
4. Secure the camera's mounting bracket to the surface using the provided screws.
5. Attach the camera securely to the mounted bracket.



Figure 2: The FOSCAM SD4H camera is designed for robust outdoor installation with IP66 weatherproofing.

## 2.3 Network Connection

The camera supports both 2.4GHz and 5GHz WiFi 6 for flexible and fast data transfer. An Ethernet port is also available for a wired connection, providing reliable 24/7 monitoring even during signal drops.

- **Wireless Connection:** Power on the camera. Download the Foscam app (available for Desktop and

Smartphone). Follow the in-app instructions for QR code or sound wave pairing.

- **Wired Connection:** Connect an Ethernet cable from your router to the camera's Ethernet port. Ensure the waterproof connector is properly sealed.



Figure 3: The camera supports both 2.4GHz and 5GHz WiFi for versatile connectivity.

## 2.4 App Setup

Once the camera is physically installed and connected to your network, complete the setup via the Foscam application:

1. Open the Foscam app and create an account or log in.
2. Select "Add Device" and follow the prompts to connect your camera using the QR code or sound wave method.
3. Name your camera and configure initial settings such as time zone and recording preferences.

## 3. Operating the Camera

### 3.1 Live View and PTZ Control

Access the live video feed through the Foscam app. Use the on-screen controls to pan (350°), tilt (90°), and zoom (18X optical zoom) the camera to monitor different areas. The 18X optical zoom allows for clear magnification without pixelation, ensuring details are visible even at a distance.



Figure 4: The camera offers extensive pan and tilt capabilities for wide area coverage.



Figure 5: The 18X optical zoom provides clear and detailed images even from afar.

### 3.2 Two-Way Audio

The camera features a built-in microphone and speaker with noise-canceling technology, enabling clear two-way communication. This allows you to speak to visitors or deter intruders directly through the camera from your smartphone.

# Two-Way Audio & Live Stream

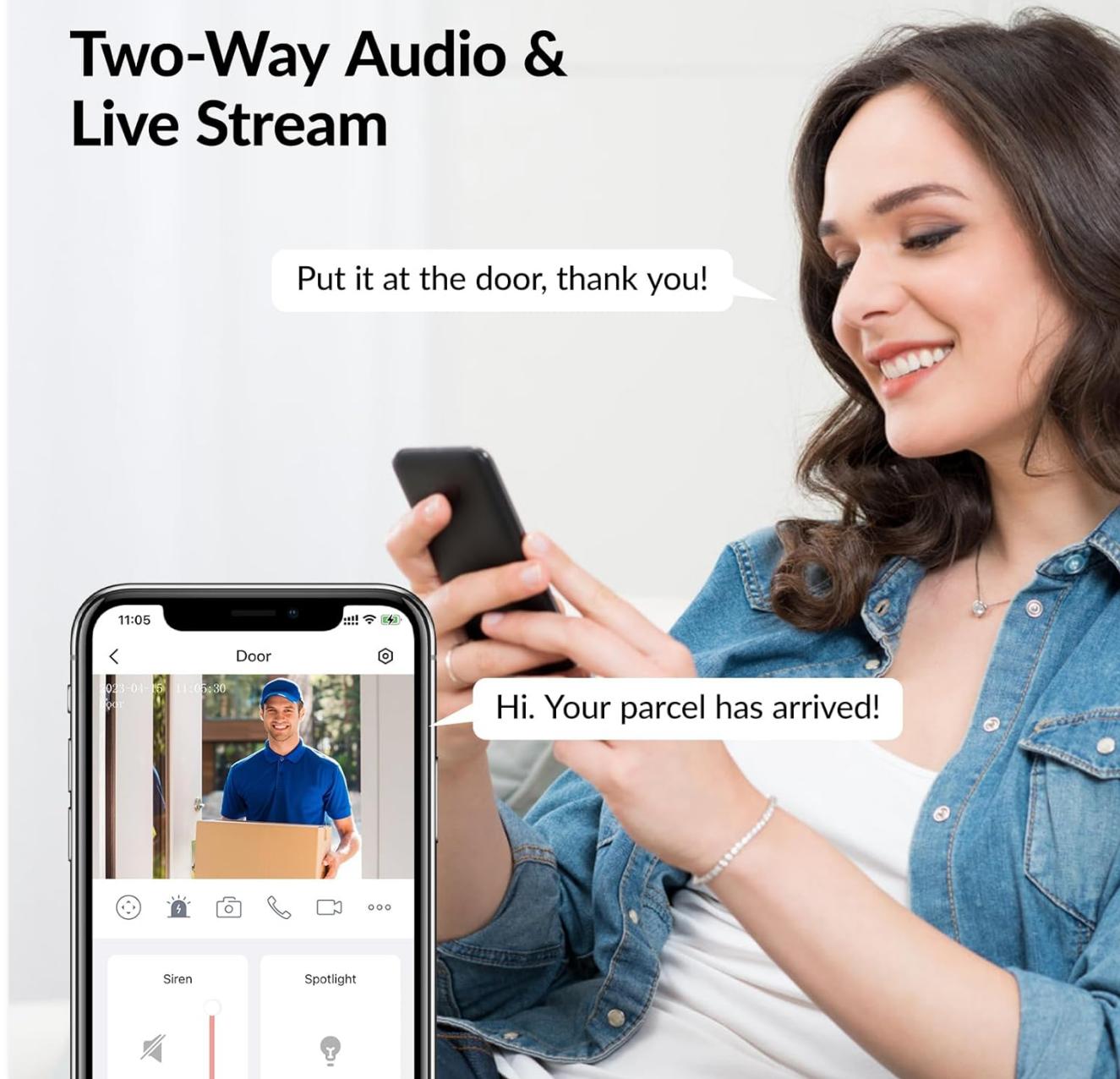


Figure 6: Engage in real-time two-way conversations via the camera's integrated audio system.

## 3.3 Smart Detection & Alerts

Leverage advanced AI to distinguish between humans, vehicles, and animals, reducing false alarms. Upon detection, the camera can trigger a 120dB siren and send instant alerts to your app, email, or FTP server. You can also define custom detection zones to focus monitoring on specific areas.

# AI Detection & Smart Alarms



Figure 7: AI-powered detection minimizes false alarms and provides instant notifications.

## 3.4 Night Vision

The camera provides up to 656 feet of night vision, significantly outperforming standard cameras. Equipped with 6 IR LEDs and 4 laser LEDs, it ensures clear grayscale visuals in total darkness. Auto and manual IR modes are available for optimal performance.

# Up to 656ft Night Vision for Detection Distance



Figure 8: Extended night vision range ensures comprehensive surveillance in low-light conditions.

## 3.5 Storage Options

Recorded footage can be stored in multiple ways:

- **Foscam Cloud:** Secure cloud storage for convenient access and backup.
- **FTP:** Upload recordings to an FTP server.
- **Micro SD Card:** Supports up to 256GB micro SD cards for local storage (30-day playback).

## 3.6 Smart Home Integration

The FOSCAM SD4H is compatible with Amazon Alexa and Google Home, allowing for voice-controlled monitoring. For example, you can use commands like "Show the front yard" to view the camera feed on compatible smart displays.

## 4. Maintenance

- **Cleaning:** Regularly clean the camera lens and housing with a soft, damp cloth to ensure clear image quality.

Avoid abrasive cleaners.

- **Firmware Updates:** Check the Foscam app periodically for firmware updates. Keeping your camera's firmware up-to-date ensures optimal performance, new features, and enhanced security.
- **Storage Management:** If using a micro SD card, periodically review and manage stored footage to prevent the card from filling up. For cloud storage, monitor your subscription and storage limits.

## 5. Troubleshooting

If you encounter issues with your FOSCAM SD4H camera, consider the following common troubleshooting steps:

- **No Power:** Ensure the power adapter is securely connected to both the camera and a working power outlet.
- **No Network Connection:**
  - For WiFi: Verify your WiFi network is active and the camera is within range. Check if the WiFi password entered in the app is correct.
  - For Ethernet: Ensure the Ethernet cable is properly connected to both the camera and the router.
  - Restart your router and the camera.
- **Poor Image Quality:**
  - Clean the camera lens.
  - Check your network speed; a slow connection can affect streaming quality.
  - Ensure sufficient lighting for optimal daytime performance.
- **False Alarms:** Adjust the sensitivity of motion detection in the app. Utilize custom detection zones to exclude areas with frequent irrelevant motion (e.g., public sidewalks, swaying trees).
- **Two-Way Audio Issues:** Ensure the microphone and speaker volumes are adjusted correctly in the app. Check for any obstructions around the microphone or speaker on the camera.

## 6. Specifications

Feature	Detail
Model Name	SD4H
Indoor/Outdoor Usage	Outdoor
Video Capture Resolution	4MP (2560x1440@25fps)
Optical Zoom	18X
Pan/Tilt Range	350° Pan, 90° Tilt
Night Vision Range	656 feet (200 meters)
Connectivity Technology	Wireless (2.4/5GHz Wi-Fi 6), Ethernet

Feature	Detail
Special Features	Auto Tracking, AI Human/Vehicle/Animal Detection, Two-Way Audio, Siren, Local Recording, Cloud Storage, IP66 Weatherproof
Compatible Devices	Desktop, Smartphone (Alexa/Google Home compatible)
Storage Support	Max. 256GB Micro SD Card, Foscam Cloud, FTP
Power Source	Corded Electric (12V 4A power adapter)
Dimensions (L x W x H)	11 x 13 x 6 inches
Item Weight	5.24 pounds

## 7. Warranty and Support

FOSCAM offers a 180-Day Quality Guarantee for this product. Additionally, 30-day free returns are available. For any technical assistance, troubleshooting, or product inquiries, please refer to the Foscam official website or contact their customer support directly through the Foscam application.

FOSCAM is committed to providing 24/7 fast reply and lifetime technical support to ensure a seamless user experience.