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Foscam FI9900P

Foscam FI9900P Outdoor Wi-Fi IP Camera User Manual

Model: FI9900P | Brand: Foscam

1. Introduction

This user manual provides comprehensive instructions for the installation, operation, and maintenance of your Foscam FI9900P Outdoor Wi-Fi IP Camera. Please read this manual carefully before using the product to ensure proper setup and functionality. Keep this manual for future reference.

The Foscam FI9900P is a high-definition outdoor IP camera designed for surveillance, offering features such as 1080p video resolution, infrared night vision up to 20 meters, and motion detection capabilities. It supports both wired Ethernet and wireless Wi-Fi connectivity, making it a versatile solution for outdoor monitoring.



Figure 1.1: Foscam FI9900P Camera with Packaging

This image shows the Foscam FI9900P outdoor IP camera alongside its retail packaging, highlighting the product's appearance and branding.

2. Package Contents

Please verify that all items listed below are included in your package. If any items are missing or damaged, please contact Foscam support.

- Foscam FI9900P IP Camera
- 12V Power Adapter
- Network Cable (Ethernet)
- Wi-Fi Antenna
- Wall Mount Bracket
- Mounting Screw Kit
- Instruction Manual (this document)

- CD (may contain software/drivers)



Figure 2.1: Included Components

This image displays the Foscam FI9900P camera along with its power adapter, network cable, Wi-Fi antenna, and mounting hardware, illustrating the complete set of items provided in the package.

3. Product Overview

The Foscam FI9900P is an outdoor bullet-style IP camera designed for robust performance in various environmental conditions. Its metallic casing ensures durability and resistance to water.

3.1 Key Features

- **Full HD 1080p Resolution:** Captures clear and detailed video at 1920 x 1080 pixels.
- **Infrared Night Vision:** Equipped with IR LEDs for clear vision up to 20 meters (65.6 feet) in low light or complete darkness.
- **Motion Detection:** Configurable motion detection zones to trigger recording and alerts.

- **IP66 Weatherproof:** Designed for outdoor use, resistant to dust and water.
- **Wide Dynamic Range (WDR):** Improves image quality in high-contrast lighting conditions.
- **Flexible Connectivity:** Supports both wired Ethernet and wireless IEEE 802.11b/g/n Wi-Fi.
- **Remote Access:** View live feeds and manage settings via PC, notebook, tablet, and smartphone (Windows, MAC, iOS, Android).
- **Local Storage:** Supports Micro SD card for local recording (card not included).

3.2 Camera Components



Figure 3.1: Foscam FI9900P Component Diagram

This diagram labels the key components of the Foscam FI9900P camera, including the antenna for Wi-Fi, IR LEDs for night vision, the main lens, and the various ports for audio input/output, reset, power, and Ethernet connectivity.

- **Antenna:** For wireless Wi-Fi connection.
- **IR LEDs:** Infrared Light Emitting Diodes for night vision.
- **Lens:** Captures video footage.
- **Audio In:** Port for external microphone (if applicable).

- **Audio Out:** Port for external speaker (if applicable).
- **Reset Button:** Used to restore factory default settings.
- **Power Port:** Connects to the 12V power adapter.
- **Ethernet Port:** For wired network connection.

4. Setup and Installation

Follow these steps to set up your Foscam FI9900P camera. It is recommended to perform initial setup near your router before permanent installation.

4.1 Initial Connection

1. **Attach Antenna:** Screw the Wi-Fi antenna onto the designated port at the back of the camera.
2. **Connect Power:** Plug the 12V power adapter into the camera's power port and then into a power outlet. The camera will power on.
3. **Wired Connection (Recommended for Initial Setup):** Connect one end of the Ethernet cable to the camera's Ethernet port and the other end to a LAN port on your router.

4.2 Software Setup (Foscam App)

The Foscam app is the easiest way to set up and manage your camera.

1. **Download App:** Search for "Foscam" in the Apple App Store (iOS) or Google Play Store (Android) and download the official Foscam app.
2. **Create Account:** Open the app and create a new Foscam account or log in if you already have one.
3. **Add Camera:** Tap the "+" icon to add a new camera. Scan the QR code located on the camera or its packaging.
4. **Follow On-Screen Prompts:** The app will guide you through connecting the camera to your Wi-Fi network (if desired) and setting up initial configurations like changing the default password.

4.3 Physical Installation

Once the camera is configured and tested, you can proceed with permanent installation.

1. **Choose Location:** Select an outdoor location that provides the desired viewing angle and is within range of your Wi-Fi signal (if using wireless) or near an Ethernet connection. Ensure the location offers protection from direct heavy rain if possible, despite its weatherproof rating.
2. **Mounting:** Use the provided wall mount bracket and screw kit to securely attach the camera to a wall or ceiling. Drill pilot holes as necessary.
3. **Adjust Angle:** Loosen the adjustment screws on the bracket to position the camera for optimal viewing. Tighten the screws once the desired angle is achieved.
4. **Cable Management:** Route the power and Ethernet cables (if used) securely to prevent damage and ensure a neat installation. Consider using a waterproof junction box for cable connections if exposed to elements.



Figure 4.1: Mounted Foscam FI9900P Camera

This image shows the Foscam FI9900P camera securely mounted on its wall bracket, ready for outdoor surveillance.

5. Operating the Camera

After successful setup, you can begin operating your Foscam FI9900P camera through the Foscam app or web interface.

5.1 Live View

Open the Foscam app and select your camera from the device list to view the live video feed. You can switch between standard definition and high definition streams depending on your network bandwidth.

5.2 Motion Detection and Alerts

The camera can detect motion and send alerts to your device.

- **Configuration:** In the camera settings within the app or web interface, navigate to "Motion Detection" or "Alarm" settings.
- **Detection Zones:** Define specific areas within the camera's view where motion detection should be active. This helps reduce false alarms from irrelevant areas.

- **Sensitivity:** Adjust the motion detection sensitivity to suit your environment.
- **Alert Methods:** Configure how you receive alerts, such as push notifications to your phone, email alerts, or uploading recorded clips to cloud storage or FTP server.

5.3 Night Vision

The camera automatically switches to infrared night vision in low-light conditions. The IR LEDs illuminate the area, allowing the camera to capture black and white video.

- **Automatic Mode:** By default, the camera will switch between day and night mode automatically based on ambient light.
- **Manual Control:** Some settings may allow you to manually force day or night mode, though automatic is generally recommended.

5.4 Recording and Playback

The Foscam FI9900P supports various recording options.

- **Local Storage (Micro SD Card):** Insert a Micro SD card (up to 128GB, not included) into the camera's slot for continuous recording or event-triggered recording. Access recordings via the app or web interface.
- **Foscam Cloud Service:** Subscribe to Foscam Cloud for secure off-site storage of your recordings. This provides an additional layer of security in case the camera is tampered with.
- **NVR/DVR Integration:** The camera can be integrated with Network Video Recorders (NVRs) or Digital Video Recorders (DVRs) for centralized recording and management.

6. Maintenance

Regular maintenance ensures optimal performance and longevity of your Foscam FI9900P camera.

6.1 Cleaning

- **Lens:** Gently wipe the camera lens with a soft, clean, lint-free cloth. For stubborn dirt, use a lens cleaning solution designed for optical surfaces.
- **Casing:** Clean the camera's exterior casing with a damp cloth. Avoid using harsh chemicals or abrasive cleaners.
- **Clear Obstructions:** Periodically check for spiderwebs, dust, or debris that might obstruct the camera's view or block the IR LEDs.

6.2 Firmware Updates

Foscam regularly releases firmware updates to improve performance, add new features, and address security vulnerabilities. It is recommended to keep your camera's firmware up to date.

- **Check for Updates:** Access the camera's settings via the Foscam app or web interface and look for a "Firmware Update" or "System Upgrade" option.
- **Follow Instructions:** Carefully follow the on-screen instructions for updating the firmware. Ensure a stable power supply during the update process to prevent damage.

7. Troubleshooting

This section addresses common issues you might encounter with your Foscam FI9900P camera.

7.1 No Power / Camera Not Turning On

- Ensure the power adapter is securely connected to the camera and a working power outlet.
- Verify the power outlet is functional by plugging in another device.

- Check the power adapter for any visible damage.

7.2 Cannot Connect to Wi-Fi

- Ensure the Wi-Fi antenna is securely attached.
- Verify you are entering the correct Wi-Fi password (SSID and password are case-sensitive).
- Make sure the camera is within range of your Wi-Fi router. Walls and obstacles can weaken the signal.
- Try temporarily moving the camera closer to the router for initial setup.
- Check your router's settings: ensure MAC filtering is not enabled or add the camera's MAC address to the allowed list.
- If your router has both 2.4GHz and 5GHz bands, ensure the camera is connecting to the 2.4GHz band, as most IP cameras do not support 5GHz.

7.3 Poor Video Quality / Blurry Image

- Clean the camera lens carefully with a soft cloth.
- Ensure there are no obstructions in front of the lens (e.g., spiderwebs, dirt).
- Check your network bandwidth. Low bandwidth can result in lower quality streams.
- Adjust video settings (resolution, bitrate) in the app or web interface to optimize for your network.

7.4 Motion Detection Not Working or Too Many False Alarms

- **Not Working:** Ensure motion detection is enabled in the camera settings. Verify detection zones are correctly configured and cover the desired areas.
- **False Alarms:** Reduce motion detection sensitivity. Adjust detection zones to exclude areas with frequent irrelevant movement (e.g., trees swaying, busy roads).
- Consider using human detection features if available in firmware updates.

7.5 Camera Offline Frequently

- Check the stability of your Wi-Fi network.
- Ensure the camera is receiving adequate power.
- If using Wi-Fi, consider moving the camera closer to the router or using a Wi-Fi extender.
- If possible, try a wired Ethernet connection to rule out Wi-Fi issues.
- Perform a firmware update if available.

For more detailed troubleshooting or issues not covered here, please refer to the Foscam support website or contact their customer service.

8. Specifications

Feature	Specification
Model Name	FI9900P
Type	IP Camera
Installation Supported	Outdoor
Form Factor	Bullet
Color	Silver

Feature	Specification
Protection Features	Water Resistant (IP66)
Max Resolution	1920 x 1080 pixels (1080p Full HD)
Video Compression	H.264
Horizontal Viewing Angle	102°
Diagonal Viewing Angle	96°
Sensor Type	CMOS (1/3")
Connectivity	Ethernet, Wireless IEEE 802.11b/g/n
Wireless Security	WEP, WPA, WPA2
P2P Support	Yes
Infrared Range	20m (65.6 feet)
Power Input	12 Volts, 5 Watts
Dimensions (L x W x H)	6.7 x 9.7 x 6.4 cm
Weight	255 grams
Material	Metal
Supported Browsers	IE8+, Firefox, Chrome, Safari
Supported OS	Windows, MAC, Android, iOS

9. Warranty and Support

Foscam products are designed for reliability and performance. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Foscam website.

9.1 Customer Support

If you encounter any issues or have questions regarding your Foscam FI9900P camera, please contact Foscam customer support through the following channels:

- **Online Support:** Visit the official Foscam support website for FAQs, troubleshooting guides, and firmware downloads.
- **Email Support:** Contact Foscam support via email for technical assistance.
- **Phone Support:** Check the Foscam website for regional phone support numbers and operating hours.

When contacting support, please have your camera's model number (FI9900P) and serial number ready. Providing a detailed description of the issue will help expedite the support process.

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Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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