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FKPCAM FK20

FKPCAM Solar Trail Camera FK20 Instruction Manual

Model: FK20

Introduction | Package Contents | Product Overview | Setup | Operating | Maintenance | Troubleshooting | Specifications | Warranty & Support

1. Introduction

Thank you for choosing the FKPCAM Solar Trail Camera FK20. This camera is designed for outdoor surveillance and wildlife monitoring, offering high-resolution imaging, rapid motion detection, and a self-sustaining solar power system. Its robust, waterproof, and dustproof design ensures reliable performance in various environmental conditions. This manual provides essential information for setting up, operating, and maintaining your camera.

2. Package Contents

Please check the package contents to ensure all items are present:

- FKPCAM Solar Trail Camera FK20
- Solar Panel (integrated or separate with cable)
- Rechargeable Lithium Batteries (2x 2500mAh, totaling 5000mAh)
- 64GB Memory Card
- USB-C to USB-A Charging Cable
- Mounting Strap
- Mounting Plate with Screws and Wall Plugs
- Ball Joint Bracket
- Allen Wrench
- User Manual (this document)

3. Product Overview

The FKPCAM Solar Trail Camera FK20 features a compact design with an integrated solar panel for continuous power. Key components include:

- **Lens:** Captures images and videos.
- **PIR Motion Sensor:** Detects movement within its field of view.
- **Infrared LEDs:** Provide illumination for night vision without visible light.
- **LCD Screen:** For menu navigation and viewing recordings.
- **Control Buttons:** Navigate menus and settings.
- **SD Card Slot:** Insert the memory card for storage.
- **USB-C Port:** For charging and data transfer.
- **Battery Compartment:** Houses the rechargeable batteries.
- **Mounting Points:** For attaching the strap or mounting bracket.



Image: FKPCAM Solar Trail Camera FK20, showing the main unit with integrated solar panel and lens. This view highlights the compact

and robust design suitable for outdoor use.

4. Setup

4.1. Battery Installation

1. Open the battery compartment cover.
2. Insert the two 2500mAh lithium batteries, ensuring correct polarity (+/-).
3. Close the battery compartment cover securely to maintain IP67 waterproofing.

4.2. SD Card Installation

1. Locate the SD card slot.
2. Insert the provided 64GB memory card into the slot until it clicks into place. The camera supports up to 128GB SD cards.
3. To remove, press the card gently until it springs out.

4.3. Initial Charging

Before first use, it is recommended to fully charge the camera's internal batteries via the USB-C port using the provided cable and a standard USB power adapter (not included). The solar panel will maintain the charge during daylight hours once deployed.

4.4. Mounting the Camera

The camera offers flexible mounting options:

- **Strap Mounting:** Use the provided strap to secure the camera to a tree or pole. Ensure the camera is stable and the solar panel has direct sunlight exposure.
- **Bracket Mounting:** Use the mounting plate and ball joint bracket for more precise positioning on a wall or flat surface. Secure the mounting plate with screws, then attach the camera using the ball joint. Adjust the angle as needed.

4.5. Basic Settings (Date/Time)

Upon powering on for the first time, you may need to set the date and time. Navigate through the menu using the control buttons to access the 'Settings' or 'System' menu and adjust these parameters for accurate recording timestamps.

5. Operating Instructions

5.1. Powering On/Off

To power on the camera, slide the power switch to the 'ON' position. To power off, slide it to 'OFF'.

5.2. Menu Navigation

Use the 'MENU' button to enter the settings menu. Use the arrow buttons to navigate through options and 'OK' to confirm selections. The 'MODE' button typically switches between different operational modes (e.g., Setup, Live View, Playback).

5.3. Recording Modes

The camera supports several recording modes:

- **Photo Mode:** Captures still images (up to 64MP resolution) when triggered.
- **Video Mode:** Records video clips (up to 4K Ultra HD resolution) when triggered.
- **Photo + Video Mode:** Captures a still image followed by a video clip when triggered.
- **Time-lapse Mode:** Captures images at set intervals over a long period, useful for observing slow changes.

Select your desired mode from the camera's menu.

5.4. PIR Sensor Settings

The Passive Infrared (PIR) motion sensor detects heat changes caused by moving objects. You can adjust:

- **Sensitivity:** Set to Low, Medium, or High. Higher sensitivity detects smaller movements or objects further away.
- **Detection Range:** The sensor has a wide 130° detection angle and a range of up to 20 meters.
- **Trigger Speed:** The camera boasts an ultra-fast 0.1-second trigger speed to capture fast-moving subjects.

5.5. Night Vision

The camera automatically switches to infrared night vision in low-light conditions, utilizing built-in infrared LEDs to capture clear images and videos in complete darkness.

5.6. Audio Recording

The built-in microphone allows for audio recording with video clips. This feature can be enabled or disabled in the settings menu.

5.7. Loop Recording

When the memory card is full, the loop recording feature will automatically overwrite the oldest files to continue recording. This ensures continuous operation without manual intervention.

5.8. Viewing Recordings

You can view recorded photos and videos directly on the camera's LCD screen in Playback mode, or by removing the SD card and inserting it into a computer or compatible device.

6. Maintenance

6.1. Cleaning

Wipe the camera body and solar panel with a soft, damp cloth. Do not use abrasive cleaners or solvents. Keep the lens and PIR sensor clean for optimal performance.

6.2. Battery Care

The solar panel continuously charges the internal batteries during daylight. For prolonged storage, ensure the batteries are fully charged. Avoid exposing the camera to extreme temperatures for extended periods, as this can affect battery life.

6.3. SD Card Management

Regularly back up important recordings from the SD card to a computer. Format the SD card periodically (e.g., once a month) using the camera's menu to maintain optimal performance and prevent data corruption.

6.4. Environmental Considerations

While the camera is IP67 waterproof and dustproof, avoid submerging it in water. Ensure the solar panel is free from obstructions like leaves or snow to maximize charging efficiency.

7. Troubleshooting

Camera not turning on:
Ensure batteries are correctly installed and charged. Check the power switch position. If using external power, verify the connection.

Poor image/video quality:
Clean the camera lens. Ensure sufficient lighting (for daytime) or that night vision is active (for nighttime). Check resolution settings in the menu. Ensure the camera is stable and not vibrating.

Motion not detected:
Adjust PIR sensor sensitivity to 'High'. Ensure the camera is positioned correctly, covering the desired detection area. Avoid placing the camera near heat sources or moving branches that might cause false triggers or block detection.

Battery not charging via solar panel:
Ensure the solar panel is clean and exposed to direct sunlight for several hours a day. Check for any obstructions. Verify the connection between the solar panel and the camera (if separate).

SD card error:
Ensure the SD card is inserted correctly. Try formatting the SD card using the camera's menu (this will erase all data). If the issue persists, try a different compatible SD card.

Camera records continuously or too frequently:
Reduce PIR sensor sensitivity. Check if the camera is in Time-lapse mode. Ensure no objects are constantly moving in the detection zone (e.g., swaying branches).

8. Specifications

Feature	Specification
Brand	FKPCAM
Model Number	FK20
Video Resolution	Up to 4K Ultra HD
Photo Resolution	Up to 64MP
Trigger Speed	0.1 seconds
PIR Detection Angle	130°
PIR Detection Distance	Up to 20 meters
Night Vision	Infrared LEDs

Waterproof/Dustproof Rating	IP67
Battery Type	2x 2500mAh Rechargeable Lithium (Total 5000mAh)
Storage	64GB SD Card included (Supports up to 128GB)
Power Source	Solar Panel & Internal Rechargeable Batteries
Product Weight	45.4 g
Package Dimensions	16.1 x 12 x 7.4 cm

9. Warranty and Support

For warranty information and technical support, please refer to the documentation included with your purchase or contact FKPCAM customer service directly. Keep your purchase receipt as proof of purchase.

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