Solareye SV-TCYW-4K

Solareye SV-TCYW-4K Solar Powered WiFi Trail Camera User Manual

Model: SV-TCYW-4K | Brand: Solareye

1. INTRODUCTION

Thank you for choosing the Solareye SV-TCYW-4K Solar Powered WiFi Trail Camera. This manual provides detailed instructions for the proper setup, operation, and maintenance of your camera. Please read this manual thoroughly before using the device to ensure optimal performance and longevity.

The Solareye SV-TCYW-4K is designed for outdoor wildlife monitoring and security applications, featuring 4K video recording, 64MP still image capture, advanced night vision, and a robust IP66 waterproof rating. Its integrated solar panel and rechargeable battery system ensure extended operation in the field.

Image 1.1: Solareye SV-TCYW-4K Trail Camera and included accessories.

2. PACKAGE CONTENTS

Verify that all items listed below are present in your package:

- WiFi Wildlife Camera (1)

- Solar Panel (1)
- 32GB Micro SD Card (1)
- User Manual (1)
- Installation Strap (2)
- USB Cable (1)
- Metal Bracket (2)
- Screws (8)
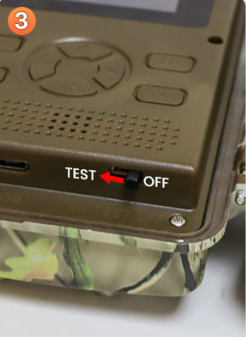- Rubber Plug (8)
- Metal Base (2)

Quick installation

Simple and convenient operation

OFF	Turn off camera
Test	The screen opens and you can set the working mode, parameters etc. and view videos / photos.
ON	Wait 10 seconds, the screen turns off and the camera switches to motion detection mode.
Note	When you use it for the first time, please switch to TEST and set camera parameters such as working time, operating mode, video/photo resolution etc. Then switch to ON, the camera switches to operating mode.

Install 4 AA batteries — *Insert SD card* — *Set camera parameters*

Image 2.1: All components included in the Solareye SV-TCYW-4K package.

3. PRODUCT OVERVIEW

Familiarize yourself with the main parts of your trail camera:

- **Lens:** Captures images and videos.
- **PIR Sensors:** Three Passive Infrared sensors detect motion.
- **Infrared LEDs:** 40pcs 940nm no-glow LEDs for night vision.
- **LCD Screen:** 2.0-inch display for settings and playback.
- **Control Buttons:** For navigating menus on the LCD screen.
- **Battery Compartment:** Houses the internal rechargeable battery and optional AA batteries.
- **SD Card Slot:** For inserting the Micro SD card.
- **USB-C Port:** For charging and data transfer.
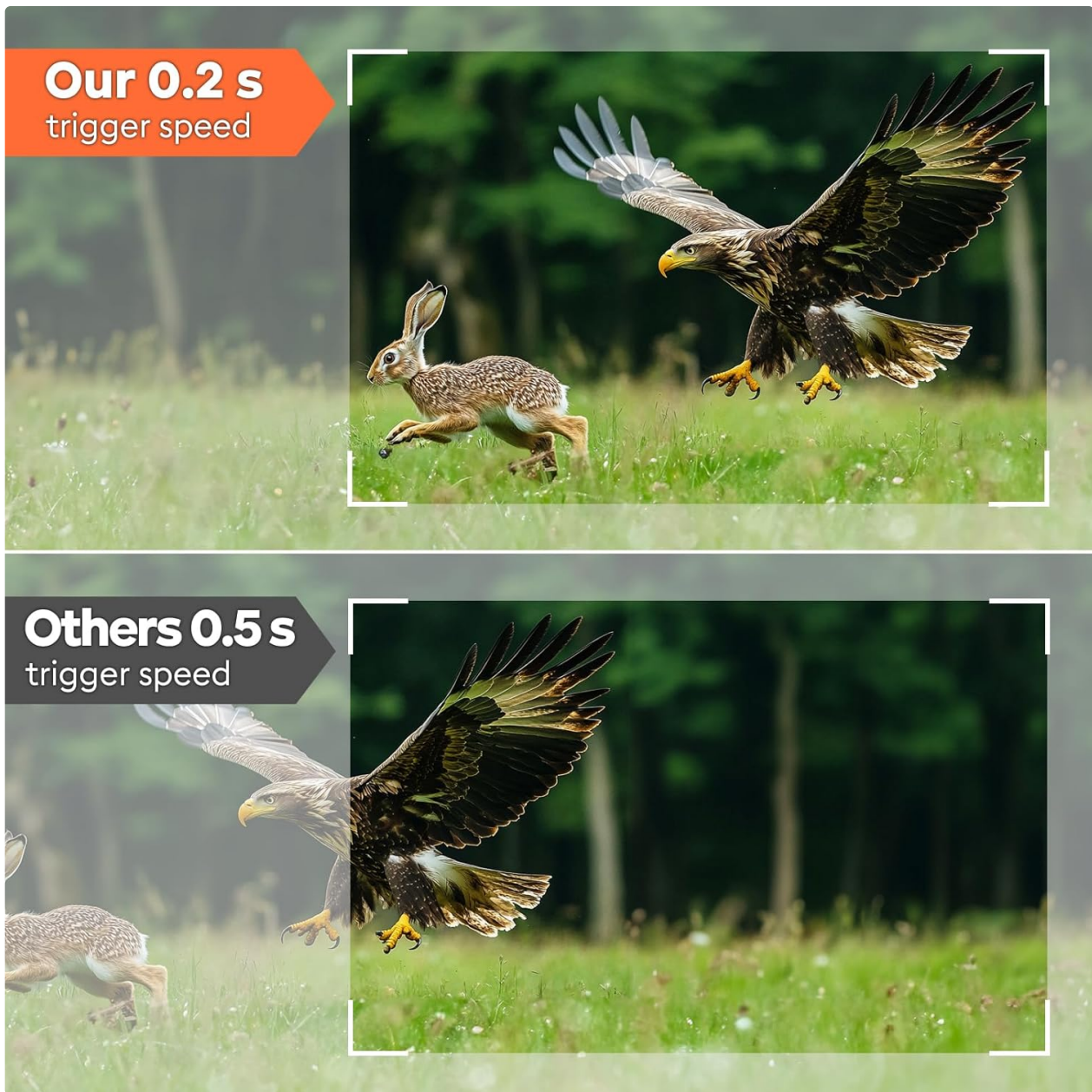- **External Power Port:** For connecting the solar panel.

Image 3.1: Internal view of the camera with LCD screen and controls.

4. Setup Guide

4.1. Battery Installation

The camera features a built-in 5000mAh rechargeable lithium battery and supports optional 4x AA batteries for extended backup power.

1. Open the camera's main latch and then the battery compartment cover.
2. The internal lithium battery is pre-installed. Ensure it is charged using the provided USB-C cable or by connecting the solar panel.
3. For backup power, insert 4 AA batteries (not included) into the designated slots, observing correct polarity (+/-).
4. Close the battery compartment cover securely.

Image 4.1: Inserting AA batteries into the camera.

4.2. SD Card Installation

A 32GB Micro SD card is included for storing photos and videos.

1. With the camera open, locate the Micro SD card slot.
2. Insert the 32GB Micro SD card into the slot with the gold contacts facing the back of the camera until it clicks into place.
3. To remove, push the card in again until it springs out.

4.3. Mounting the Camera

The camera can be mounted using the provided installation straps or metal brackets.

1. **Strap Mounting:** Thread one of the installation straps through the slots on the back of the camera. Secure the camera to a tree or pole at the desired height and angle.
2. **Bracket Mounting:** Use the metal brackets, screws, and rubber plugs to attach the camera to a wall or other flat surface. The brackets allow for angle adjustment.
3. Position the solar panel in an area that receives maximum direct sunlight throughout the day and connect it to the camera's external power port.

Image 4.2: Camera and solar panel mounted on a tree.

4.4. App Connection (WiFi & Bluetooth)

The camera connects to your smartphone via the "TrailCam Go" app using Bluetooth for initial connection and then WiFi for data transfer and live viewing. **Note: This camera does not support connection to home WiFi routers.**

1. Download the "TrailCam Go" app from your smartphone's app store.
2. Ensure your phone's Bluetooth and WiFi are enabled. Do not connect to home WiFi or other Bluetooth devices.
3. Switch the camera to the "ON" position.
4. Open the "TrailCam Go" app and follow the on-screen instructions to connect to the camera via Bluetooth.
5. Once connected via Bluetooth, the app will prompt you to connect to the camera's local WiFi network. This allows for viewing, downloading, and sharing files within approximately 49 feet (15 meters) of the camera.
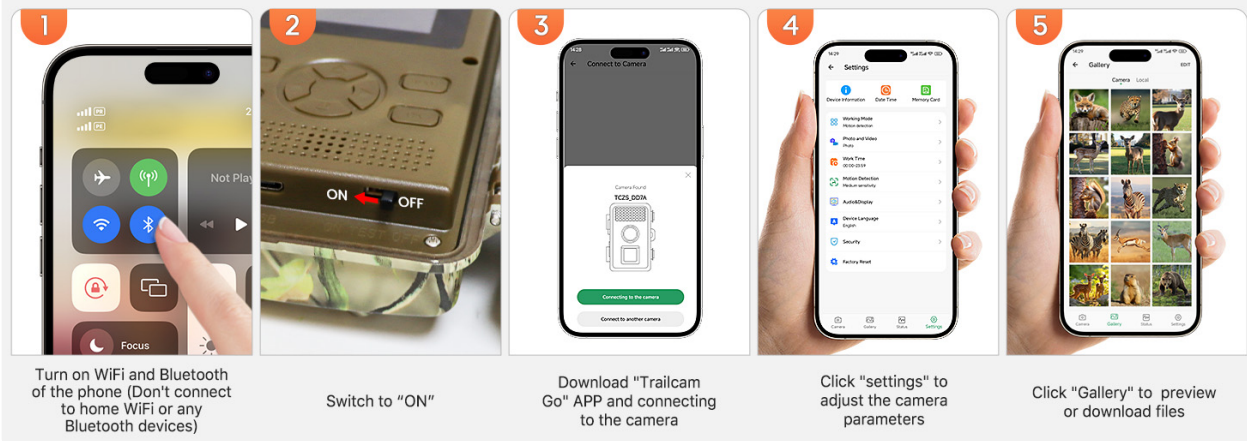6. Use the app to adjust camera parameters and preview files.

Connection Guide

1 Turn on WiFi and Bluetooth of the phone (Don't connect to home WiFi or any Bluetooth devices)

2 Switch to "ON"

3 Download "Trailcam Go" APP and connecting to the camera

4 Click "settings" to adjust the camera parameters

5 Click "Gallery" to preview or download files

Image 4.3: Connection guide for the "TrailCam Go" app.

5. OPERATING INSTRUCTIONS

5.1. Camera Modes

The camera has three operating modes controlled by a switch:

- **OFF:** The camera is powered off.
- **TEST:** The screen turns on, allowing you to set parameters, view files, and test camera functions. The camera will not record in this mode.
- **ON:** After a 10-second countdown, the screen turns off, and the camera enters motion detection mode, ready to capture photos or videos based on your settings.

5.2. Adjusting Settings via App

All camera settings, including resolution, trigger interval, operating hours, and more, can be configured through the "TrailCam Go" app. Connect to the camera via the app and navigate to the settings menu to customize your preferences.

5.3. Photo and Video Capture

The camera captures high-resolution images and videos:

- **Photo Resolution:** Up to 64 Megapixels.
- **Video Resolution:** Up to 4K (3840x2160) at 30 frames per second.
- **File Format:** MP4 for videos.

5.4. Night Vision

Equipped with 40pcs 940nm no-glow infrared lights, the camera provides clear night vision up to 65 feet (20 meters) without disturbing wildlife. Adaptive fill light technology prevents overexposure or underexposure.

Three Power Supply Methods

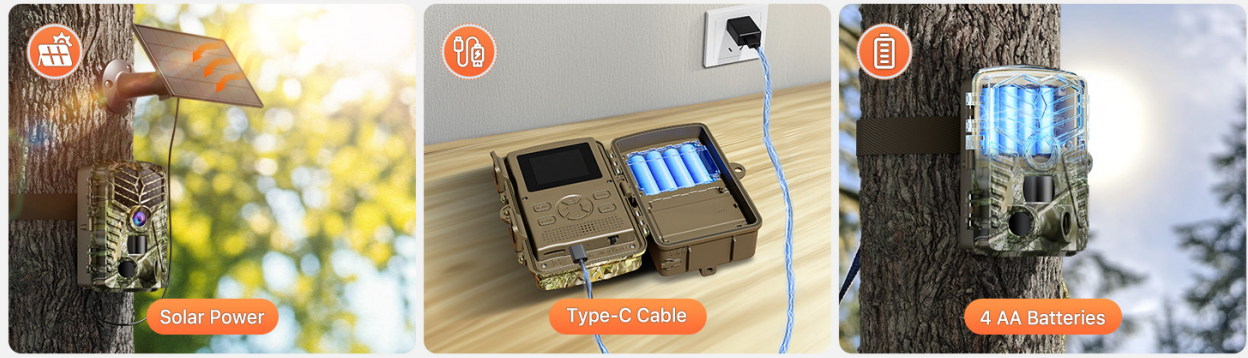Rechargeable game camera with solar panel. Supports 4 AA batteries (not included)

Solar Power

Type-C Cable

4 AA Batteries

Image 5.1: Example of crystal night vision capture.

5.5. Motion Detection

The camera features three PIR sensors for a 120° wide-angle detection range. Upon detecting motion, the camera triggers recording within 0.2 seconds, ensuring minimal delay in capturing events.

120° Wide-Angle

This wifi trail camera is equipped with 3 PIR sensors, detect 120° super wide angle.

30°   60°   30°

Image 5.2: Demonstration of the 0.2s ultra-fast trigger speed.

6. POWER MANAGEMENT

The Solareye SV-TCYW-4K offers flexible power options for continuous operation:

- **Integrated Solar Panel:** The external 3W solar panel continuously charges the internal 5000mAh lithium battery, extending the camera's outdoor standby time significantly.
- **Rechargeable Lithium Battery:** The built-in 5000mAh battery can be recharged directly via the Type-C USB cable.
- **AA Battery Backup:** An extra battery pack allows for the insertion of 4 AA batteries (not included) as a secondary power source, providing additional operational time, especially in low-light conditions or during prolonged cloudy periods.
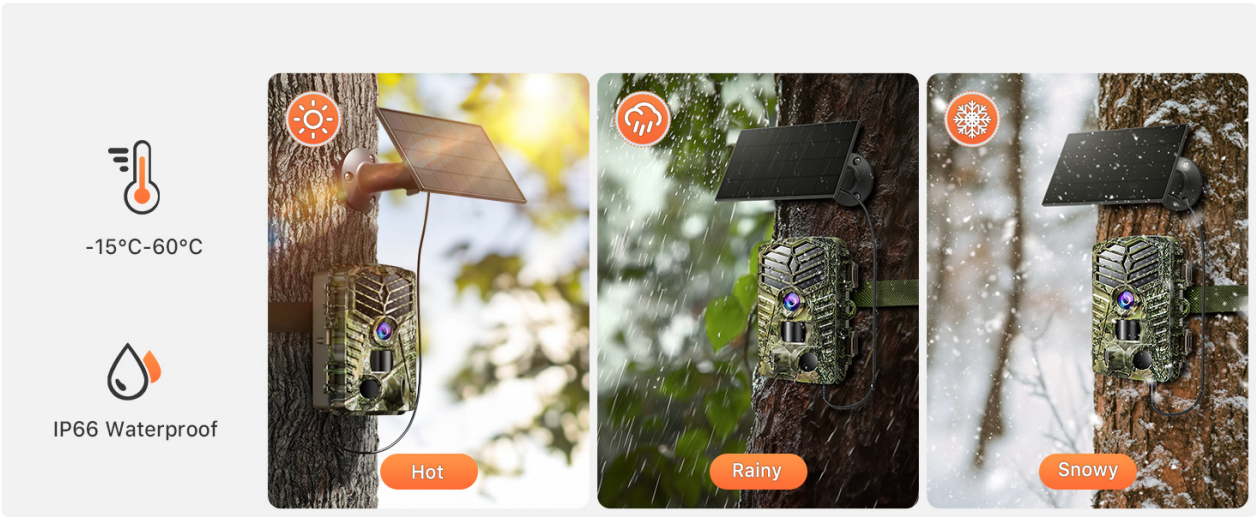
Image 6.1: Overview of the camera's three power supply methods.

7. SPECIFICATIONS

Feature	Specification
Model Name	SV-TCYW-4K
Photo Resolution	64 MP Effective Still Resolution
Video Resolution	4K (3840x2160)
Frame Rate	30 frames per second
Trigger Speed	0.2 seconds
Detection Angle	120 Degrees
Night Vision Range	65 Feet (20 meters)
Infrared LEDs	40pcs 940nm No Glow IR Lights
Water Resistance	IP66 Waterproof
Operating Temperature	-15°C to 60°C (5°F to 140°F)
Power Source	Built-in 5000mAh Battery, Solar Power, 4x AA Batteries (not included)
Connectivity	Bluetooth, Wi-Fi (local app connection only)
Storage	Micro SD Card (up to 256GB, 32GB included)
Dimensions	5.43 x 4.05 x 3.19 inches
Weight	1.98 pounds

Image 7.1: The camera's IP66 waterproof rating ensures operation in various weather conditions.

8. TROUBLESHOOTING

If you encounter issues with your Solareye trail camera, refer to the following common problems and solutions:

- **Camera not turning on:**

  - Ensure the internal battery is charged. Connect the camera to the solar panel or a USB power source.
  - Check if optional AA batteries are correctly inserted with proper polarity and are not depleted.
  - Verify the power switch is in the 'TEST' or 'ON' position.

- **App connection issues:**

  - Make sure your phone's Bluetooth and WiFi are enabled and you are within 49 feet (15 meters) of the camera.
  - Ensure your phone is not connected to any other WiFi network or Bluetooth device.
  - Restart the camera and the "TrailCam Go" app.

- **Poor image/video quality:**

  - Clean the camera lens with a soft, dry cloth.
  - Check camera settings in the app to ensure desired resolution (4K/64MP) is selected.
  - Ensure the camera is stable and not subject to excessive movement.

- **Motion detection not working:**

  - Verify the camera is in 'ON' mode.
  - Check the PIR sensor sensitivity settings in the app.
  - Ensure there are no obstructions directly in front of the PIR sensors.

- **SD card errors:**

  - Ensure the SD card is correctly inserted.
  - Format the SD card using the camera's settings via the app or on a computer.
  - If issues persist, try a different compatible Micro SD card.

9. MAINTENANCE

Proper maintenance ensures the longevity and performance of your camera:

- **Cleaning:** Regularly clean the camera lens and solar panel with a soft, lint-free cloth. Avoid abrasive materials or harsh chemicals.
- **Battery Care:** For optimal battery life, avoid fully discharging the internal battery frequently. If storing the camera for extended periods, ensure the battery is partially charged (around 50-70%) and store in a cool, dry place.
- **Storage:** When not in use, store the camera in a dry, dust-free environment away from extreme temperatures.
- **Firmware Updates:** Check the Solareye website or app periodically for any available firmware updates to ensure your camera has the latest features and bug fixes.
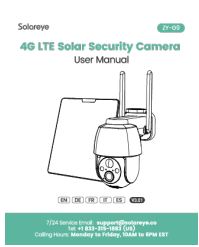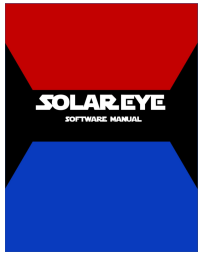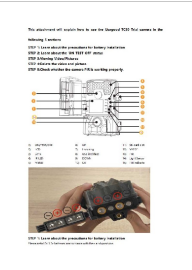
10. WARRANTY AND SUPPORT

Your Solareye SV-TCYW-4K Trail Camera is covered by a manufacturer's warranty. Please refer to the warranty card included in your package or visit the official Solareye website for detailed warranty terms and conditions.

For technical support, troubleshooting assistance, or any questions regarding your product, please contact Solareye customer service through the contact information provided on the official website or in your warranty documentation.

Related Documents - SV-TCYW-4K

[Solareye ZY-G9 4G LTE Solar Security Camera User Manual](#)
Comprehensive user manual for the Solareye ZY-G9 4G LTE Solar Security Camera, covering setup, installation, features, troubleshooting, and FAQs.

[SolarEYE Software Manual v4](#)
This manual provides a comprehensive guide to the SolarEYE luminescence imaging hardware and software analysis platform. It covers installation, usage, and analysis routines for various solar cell types, including bifacial, PERC, and single solar cells.

	[CEYOMUR CY95 Trail Camera User Manual](#) User manual for the CEYOMUR CY95 Trail Camera, covering components, screen instructions, getting started, settings, mounting, testing, Wi-Fi connection, playback, file transfer, and troubleshooting.
	[Usogood TC30 Trail Camera User Guide](#) A guide on how to use the Usogood TC30 Trail Camera, covering battery installation, device status, viewing media, deleting files, and checking PIR functionality.
	[KJK LK227/KJK227 Trail Camera User Manual: Features, Setup, and Specifications](#) Comprehensive user manual for the KJK LK227/KJK227 trail camera. Learn about setup, features, advanced settings, mounting, technical specifications, and troubleshooting.
	[iZEEKER iG400 Trail Camera User Manual](#) Comprehensive user manual for the iZEEKER iG400 Trail Camera, covering setup, operation, features, and troubleshooting. Learn how to use your trail camera for wildlife monitoring and other applications.