

YWYLL EP10 - Pro

YWYLL EP10 - Pro Electronic Eyepiece Camera Instruction Manual

Model: EP10 - Pro

INTRODUCTION

This manual provides detailed instructions for the YWYLL EP10 - Pro Electronic Eyepiece Camera. Please read this manual thoroughly before using the device to ensure proper operation and to maximize its capabilities.

PRODUCT OVERVIEW

The YWYLL EP10 - Pro is a versatile electronic eyepiece camera designed to enhance your viewing experience with monoculars, binoculars, and telescopes. It features high-definition imaging, day and night vision capabilities, and real-time sharing via WiFi.

Key Features:

- **Universal Compatibility:** Attaches to optical devices with 34-46mm eyepieces.
- **High-Definition Imaging:** Captures 2K videos and images.
- **Day & Night Use:** Integrated 850nm infrared light for low-light conditions.
- **Real-Time Sharing:** WiFi connectivity for live streaming to smartphones.
- **Extended Battery Life:** Up to 6 hours of continuous use with a rechargeable lithium battery.

Components and Controls

The EP10 - Pro camera features a user-friendly design with essential controls and ports.



Figure 1: YWYLL EP10-Pro Electronic Eyepiece Camera connected to an optical device, displaying a moon image on its screen and a connected smartphone. This image illustrates the device's primary function and connectivity.



Figure 2: Detailed view of the camera's control panel, highlighting the four function buttons and the integrated display. The buttons are labeled with symbols for Photo, Record, WiFi, and Power.

The device features four primary control buttons on the top panel, a 1.6-inch display screen, an 850nm IR LED, an SD card slot, and a Type-C USB port.

- **Button 1 (Leftmost):** Photo/Up (in menu)
- **Button 2:** Record/Down (in menu)
- **Button 3:** WiFi/Left (in menu)
- **Button 4 (Rightmost):** Power/Right (in menu)

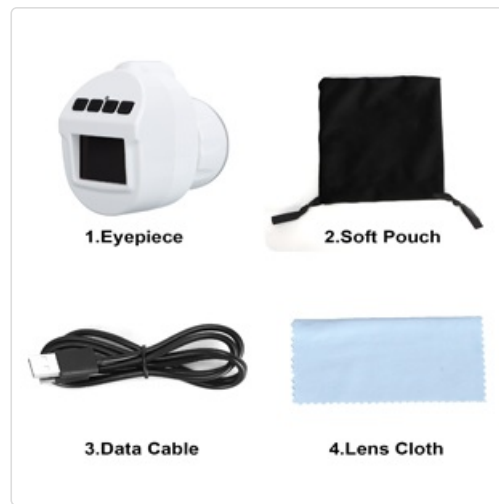


Figure 3: Side view of the EP10-Pro camera, indicating the location of the 850nm IR illuminator, the SD card slot for storage, and the Type-C USB port for charging and data transfer.

SETUP

1. Charging the Device

Before first use, fully charge the EP10 - Pro camera. Connect the provided USB Type-C cable to the camera's Type-C port and the other end to a standard USB power adapter (not included) or a computer USB port. The charging indicator will show the charging status.

2. Inserting a Memory Card

The device supports 4-64GB SD cards. Open the protective cover on the side of the camera and gently insert a compatible SD card into the slot until it clicks into place. Ensure the card is inserted in the correct orientation.

3. Attaching to Optical Devices

The EP10 - Pro is designed to fit eyepieces with diameters between 34mm and 46mm. Ensure your monocular, binocular, or telescope eyepiece falls within this range.

1. Carefully align the camera's eyepiece fixation mechanism with your optical device's eyepiece.
2. Gently push the camera onto the eyepiece. The internal clamps will adjust to secure the camera.
3. Ensure the camera is firmly attached and stable before use.



Figure 4: Illustration demonstrating the universal compatibility of the EP10-Pro camera with various optical devices, highlighting the 34-46mm eyepiece diameter range for secure attachment.



Figure 5: A detailed view of the camera's connection interface, showing the flexible clamps that adapt to eyepieces between 34mm and 46mm for secure and stable installation on various optical instruments.

OPERATING INSTRUCTIONS

1. Power On/Off

Press and hold the **Power** button (rightmost) for a few seconds to turn the device on or off.

2. Basic Functions (Photo/Video)

- **Taking Photos:** In live view mode, short-press the **Photo** button (leftmost) to capture an image.
- **Recording Videos:** In live view mode, short-press the **Record** button (second from left) to start video recording. Press again to stop recording.

3. Night Vision (Infrared)

The EP10 - Pro features an 850nm infrared light for enhanced viewing in low-light or nighttime conditions.



Figure 6: A visual comparison of the camera's display in normal (IR-OFF) mode, showing a color landscape, versus night vision (IR-ON) mode, displaying the same scene in black and white with enhanced visibility in darkness.

To activate or adjust night vision:

1. From the main interface, short-press the **WiFi** button (third from left) to cycle through IR intensity levels (IR-1, IR-2, IR-3) or to turn IR off.
2. The display will indicate the current IR status (IR-ON/IR-OFF) and intensity.

4. Menu Navigation

To access the main menu, press and hold the **Power** button. Once in the menu, the buttons function as follows:

- **Photo button:** Navigate Up
- **Record button:** Navigate Down
- **WiFi button:** Navigate Left / Select (depending on context)
- **Power button:** Navigate Right / Exit (depending on context)

Common menu options include Playback, Date/Time, Format, Language, and LCD Brightness.



Figure 7: A representation of the camera's on-screen menu, displaying various settings and functions such as file playback, date/time adjustment, memory card formatting, language selection, LCD brightness control, and firmware version information.

5. WiFi Connection and App Usage

The EP10 - Pro allows real-time viewing, photo taking, and video recording via a smartphone app.

1. **Download the App:** Search for "TRVCam" or "RoadCam" in your mobile device's app store (available for Android and Apple iOS). Alternatively, you can visit <http://www.sunningsoft.com/trvcam.html> for download links.
2. **Activate WiFi on Camera:** Short-press the **WiFi** button on the camera to activate its WiFi hotspot. The WiFi indicator light will illuminate.
3. **Connect Your Phone:** On your smartphone, go to WiFi settings and connect to the network named "EP10_XXXXXX" (where XXXXXX is a unique identifier). The default password is **12345678**.
4. **Open the App:** Launch the TRVCam or RoadCam app.
5. **Connect in App:** Within the app, click "Operate" or a similar option to establish a connection and begin real-time image transmission.

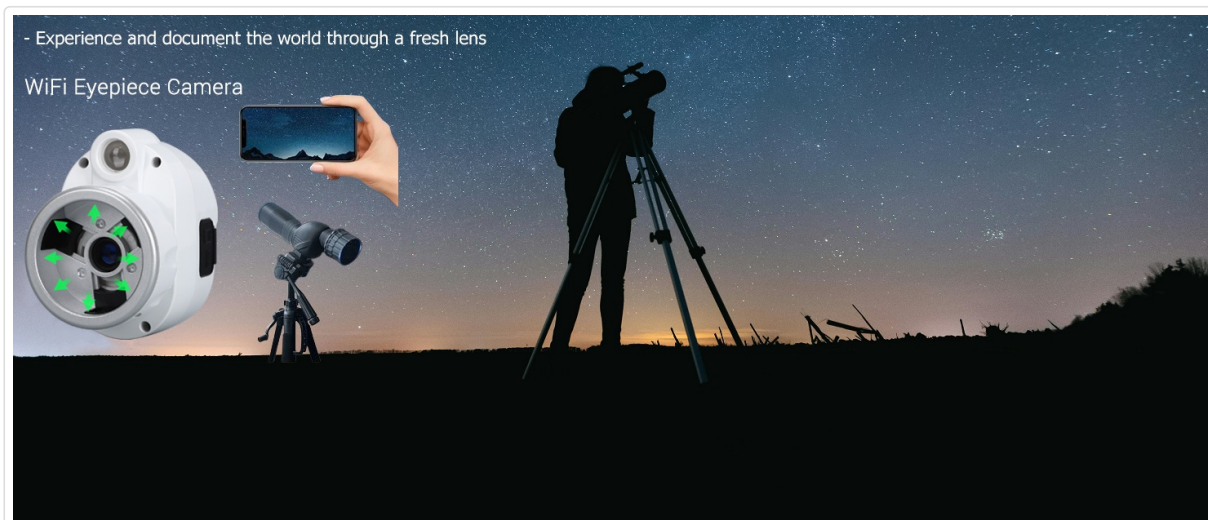


Figure 8: Step-by-step guide for establishing a WiFi connection between the EP10-Pro camera and a smartphone, detailing app installation, WiFi network identification, password entry, and in-app connection for live viewing.

MAINTENANCE

- **Cleaning:** Use the provided cleaning cloth or a soft, lint-free cloth to gently wipe the lens and display screen. Do not use abrasive cleaners or solvents.

- **Storage:** When not in use, store the camera in a cool, dry place, away from direct sunlight and extreme temperatures. Use the soft pouch provided to protect it from dust and scratches.
- **Battery Care:** For optimal battery life, avoid fully discharging the battery frequently. Charge the device regularly, even if not in use for extended periods.

TROUBLESHOOTING

If you encounter issues with your YWYLL EP10 - Pro camera, please refer to the following common solutions:

Problem	Possible Cause	Solution
Device does not power on.	Low or depleted battery.	Charge the device using the Type-C cable.
Cannot connect to WiFi.	WiFi not activated on camera; incorrect password; app not open.	Ensure camera WiFi is on. Verify password "12345678". Open TRVCam/RoadCam app and click "Operate".
Poor image quality or blurry view.	Lens or eyepiece dirty; improper focus of optical device.	Clean the camera lens and your optical device's eyepiece. Adjust the focus of your monocular/telescope.
Buttons are unresponsive or confusing.	Misunderstanding button functions in different modes.	Refer to the "Components and Controls" and "Menu Navigation" sections for detailed button functions. Note that button functions change when in menu mode.
Cannot record photos/videos.	No SD card inserted; SD card full or corrupted.	Insert a compatible SD card. Check available space. Format the SD card via the camera's menu if necessary (this will erase all data).

SPECIFICATIONS

Feature	Detail
Product Resolution	2560x1920 (2K)
Install Interface Diameter	34-46mm (for monoculars, binoculars, spotting scopes, astronomical telescopes, and other traditional optical instruments)
Display Size	HD 1.6" IPS TFT
Frame Rate	30fps
Video Format	MP4
Photo Format	JPG
Storage Card Support	4-64GB

Feature	Detail
Night Vision Function	Support (850nm IR)
WiFi	Support (2.4GHz)
USB Interface	Type-C
Digital Zoom	Support
Battery Type	Built-in high-capacity rechargeable lithium battery (up to 6 hours use)
Color	Piano White
Dimensions (L x W x H)	3.58 x 2.16 x 3.07 inches (91 x 55 x 78 mm)
Item Weight	7.8 ounces

WHAT'S IN THE BOX

Upon unpacking, please ensure all the following items are present:

- YWYLL EP10 - Pro Eyepiece Camera
- USB Type-C Charging Cable
- Soft Pouch
- Lens Cleaning Cloth
- User Manual (this document)



Figure 9: Contents of the YWYLL EP10-Pro package, including the eyepiece camera, a protective soft pouch, a USB data cable for charging and data transfer, and a lens cleaning cloth for maintenance.

WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation provided with your purchase or contact the manufacturer, YWYLL, directly through their official channels. Specific warranty terms may vary by region and retailer.

