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› ELP 4K USB Camera with Microphone 5-50mm Varifocal Lens Manual Zoom Webcam - Instruction Manual

ELP ELP-USB4KHDR01-UFV(5-50mm)

ELP 4K USB Camera with Microphone 5-50mm Varifocal Lens Manual Zoom Webcam - Instruction Manual

Model: ELP-USB4KHDR01-UFV(5-50mm)

INTRODUCTION

Thank you for choosing the ELP 4K USB Camera. This manual provides essential information for setting up, operating, and maintaining your camera to ensure optimal performance. This camera features a 5-50mm varifocal lens, an 8MP IMX317 sensor, and a built-in dual microphone, offering high-resolution video capture for various applications.



5-50mm 10X Optical Zoom Webcam

Focus, Aperture, Distance Adjustable

Standard Camera

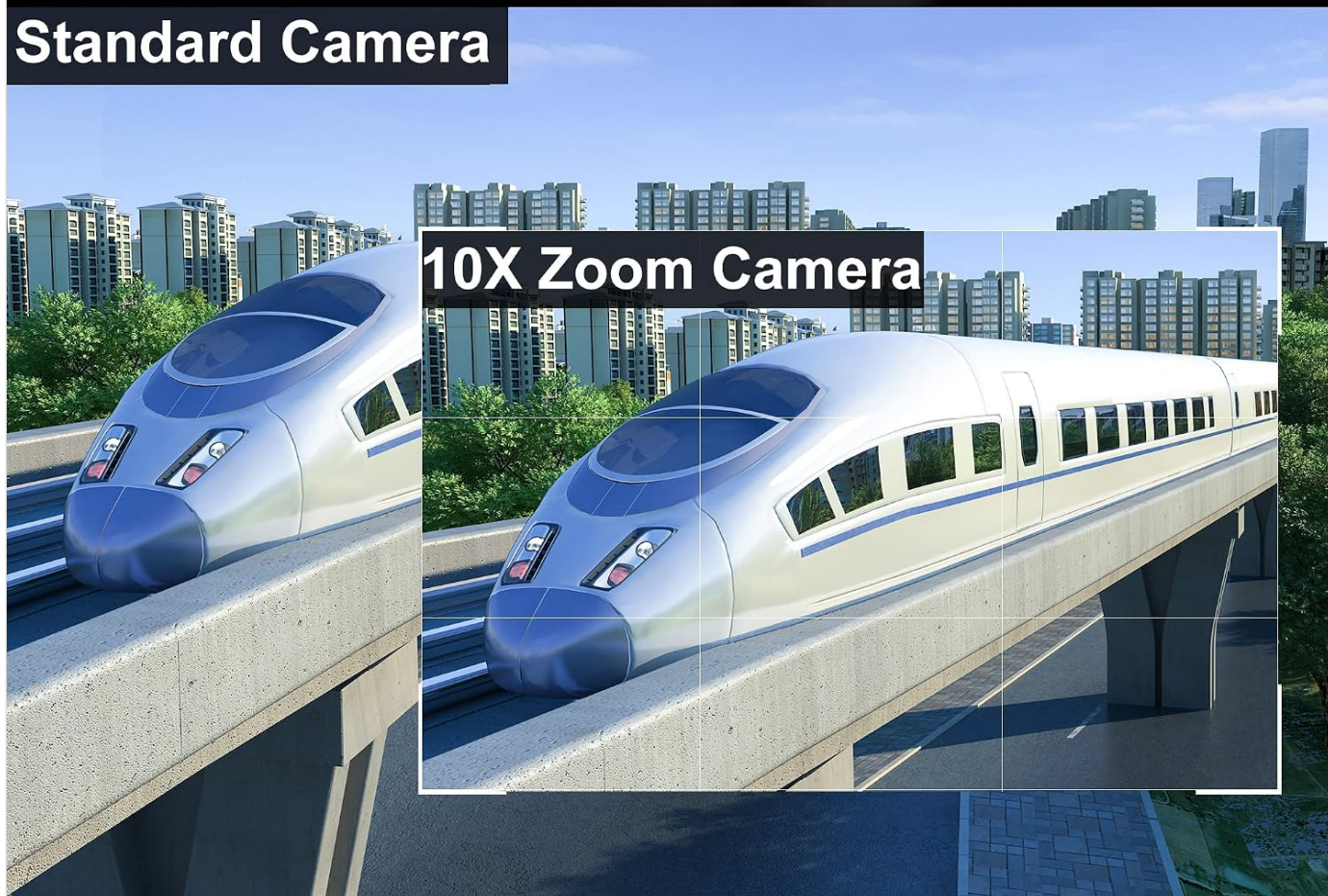


Image: ELP 4K USB Camera with 5-50mm Varifocal Lens, showcasing its compact design and high-resolution capabilities.

PACKAGE CONTENTS

Please verify that all items are included in your package:

- 1x ELP 4K USB Camera with 5-50mm Varifocal Lens
- 1x 3-meter USB Cable
- 1x User Manual

SETUP

The ELP 4K USB Camera is designed for plug-and-play operation, making setup straightforward.

1. Connecting the Camera

1. Connect the provided 3-meter USB cable to the camera's USB port.
2. Plug the other end of the USB cable into an available USB 2.0 port on your computer or compatible device.
3. The camera is UVC (USB Video Class) compliant and should be automatically recognized by most operating systems, including Windows, Linux, Mac, and Raspberry Pi, without requiring additional drivers.



Image: The ELP 4K USB Camera connected to a laptop via its USB cable, demonstrating the simple plug-and-play setup.

2. Initial Camera Test

Once connected, open a video application (e.g., Camera app on Windows, Photo Booth on Mac, VLC, or a custom application) to verify the camera is functioning correctly. You should see the camera's live feed.

Video: This video demonstrates the setup and compatibility of the ELP USB camera with various operating systems, highlighting its smart embedded webcam board functionality.

OPERATING INSTRUCTIONS

The ELP 4K USB Camera features a manual varifocal lens, allowing precise control over focus, zoom, and aperture.

1. Lens Adjustments

The 5-50mm varifocal lens provides flexibility for various distances and close-up applications. Adjustments are made directly on the lens barrel.

- **Focus:** Rotate the focus ring (marked 'F') to achieve a sharp image.
- **Zoom:** Rotate the zoom ring (marked 'T' for Telephoto and 'W' for Wide) to adjust the magnification from 5mm to 50mm.
- **Aperture:** Rotate the aperture ring (marked 'OPEN' and 'CLOSE') to control the amount of light entering the lens, affecting brightness and depth of field.



Image: Close-up of the ELP 4K USB Camera lens, illustrating the adjustable rings for focus, aperture, and zoom.

Video: This video demonstrates the manual zoom and focus capabilities of the ELP 4K USB camera, showing its application for close-up and distant subjects.

Video: A demonstration of the ELP USB camera's manual zoom and focus, highlighting its ability to achieve clear images at various magnifications.

Video: This video illustrates the variable focus and zoom lens of the ELP USB webcam, showing how to adjust for different distances and magnifications.

2. Built-in Microphone

The camera includes a built-in dual microphone for clear audio capture during video recording or conferencing.



Image: The ELP 4K USB Camera in use for a video call, highlighting its built-in microphone for clear voice pickup.

3. Mounting Options

The camera features a mini black housing designed for versatile placement. It is compatible with a 1/4" tripod mount, allowing for stable positioning in various environments.

Built-in MIC

Picking up your voice clearly



Image: The ELP 4K USB Camera mounted on a tripod, demonstrating its compatibility with standard tripod mounts for stable positioning.

4. White Balance Function

The camera includes a white balance function to resolve color reduction and tone processing issues, ensuring accurate color representation in various lighting conditions.

MAINTENANCE

Proper maintenance ensures the longevity and optimal performance of your ELP 4K USB Camera.

- **Cleaning the Lens:** Use a soft, lint-free cloth specifically designed for optical lenses. Gently wipe the lens surface to remove dust or smudges. Avoid using harsh chemicals or abrasive materials.
- **Cleaning the Camera Body:** Wipe the camera body with a dry, soft cloth. Do not use liquid cleaners directly on the camera.

- **Storage:** When not in use, store the camera in a cool, dry place away from direct sunlight and extreme temperatures. Use the lens cap to protect the lens from dust and scratches.
- **Cable Care:** Avoid bending or twisting the USB cable excessively to prevent damage.

TROUBLESHOOTING

If you encounter issues with your ELP 4K USB Camera, refer to the following common solutions:

- **No Image/Video Feed:**
 - Ensure the USB cable is securely connected to both the camera and your device.
 - Try connecting the camera to a different USB port or a different computer to rule out port or device issues.
 - Verify that your operating system and video application recognize the camera.
- **Blurry Image:**
 - Adjust the focus ring on the lens until the image is sharp.
 - Ensure the lens is clean and free from smudges or dust.
- **Poor Image Brightness:**
 - Adjust the aperture ring on the lens to allow more light in.
 - Ensure adequate lighting in your environment.
- **No Audio:**
 - Check your device's audio input settings to ensure the camera's microphone is selected as the default input device.
 - Ensure the volume is not muted in your operating system or video application.

For further assistance, please contact ELP customer support.

SPECIFICATIONS

Feature	Description
Brand	ELP
Model Number	ELP-USB4KHDR01-UFV(5-50mm)
Sensor	1/2.5" IMX317 CMOS Sensor
Max Resolution	3840(H) x 2160(V) (4K Ultra HD)
Frame Rate	30fps at 2160P
Lens Type	5-50mm Varifocal Lens (10x Optical Zoom)
Maximum Aperture	2.8 f
Microphone	Built-in Dual Microphone
Connectivity	USB 2.0 (UVC compliant)
Cable Length	3 Meters

Feature	Description
Compatibility	Windows, Linux, Mac, Raspberry Pi, Android (OTG optional)
Dimensions	2.2 x 2.2 x 4.1 inches
Item Weight	13.1 ounces
Video Capture Format	MJPEG/YUY2
Supported Audio Format	AAC, MP3, PCM

WARRANTY AND SUPPORT

ELP products are designed for reliability and performance. For any questions, technical support, or warranty claims, please contact ELP customer service through the retailer where you purchased the product or visit the official ELP website for contact information.

Please retain your purchase receipt as proof of purchase for warranty purposes.

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