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> [ELP Dual Lens USB Camera Module 960P Synchronization Instruction Manual](#)

## ELP ELP-USB960P2CAM-V90

# ELP Dual Lens USB Camera Module 960P Synchronization Instruction Manual

MODEL: ELP-USB960P2CAM-V90

Brand: ELP

## 1. INTRODUCTION

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This manual provides essential information for the proper setup, operation, and maintenance of your ELP Dual Lens USB Camera Module (Model ELP-USB960P2CAM-V90). This high-speed 960P camera module is designed for various applications requiring synchronized dual-lens imaging, offering clear and accurate visual data. Please read this manual thoroughly before using the product to ensure optimal performance and safety.

### Key Features:

- Dual camera synchronization for stereo imaging.
- Equipped with a 1/3" OV9750 Sensor.
- Supports 2560x960 resolution at 60 frames per second (fps).
- Video compression format: MJPEG.
- Features a 90-degree M9 Lens with a horizontal field of view (HFOV) of approximately 77 degrees.
- Compact size: 80mm x 16.5mm.
- Suitable for 3D camera and distance measuring device development, as well as biometric retina applications.
- UVC compliant, supporting Windows, Linux, and Android operating systems.

## 2. WHAT'S IN THE BOX

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- 1 x ELP Dual Lens USB Camera Module
- 1 x USB Cable
- 1 x User Manual

## 3. SAFETY INFORMATION

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Please use the ELP 960P Dual Lens USB Camera 3D Stereo Webcam Board for Computer Raspberry Pi AR0330 Binocular

USB2.0 PC Camera Mini UVC USB Security Camera Laser Engraver Lightburn Camera strictly according to the guidelines provided in this user manual. Ensure proper handling to prevent damage to the device or injury.

## 4. SETUP INSTRUCTIONS

The ELP Dual Lens USB Camera Module is designed for plug-and-play operation, making setup straightforward.

1. **Connect the Camera:** Locate an available USB port on your computer, laptop, Raspberry Pi, or Android device. Connect the provided USB cable to the camera module and then to the USB port on your host device.
2. **Driver Installation:** As a UVC (USB Video Class) compliant device, no additional drivers are typically required. Your operating system (Windows, Linux, Android, macOS) should automatically recognize and install the necessary drivers.
3. **Software Usage:** Open a compatible camera application or testing software (e.g., PotPlayer, AMCap, QuickTime on Mac) on your host device. Select the '3D USB Camera' or similar device from the list of available video capture devices.
4. **Configure Settings:** Within the software, you can configure camera settings such as resolution and frame rate. For optimal performance, select MJPEG 2560x960 at 60fps.



# Ultra Smooth Video

The higher frame rate 960P 60fps usb camera module provides allows for a smoother, more life like video stream.



30fps



60fps

Figure 1: The ELP Dual Lens USB Camera Module connected to a laptop, highlighting its plug-and-play nature. No additional software is

needed for basic functionality.

# ELP Dual Lens Webcam

## 1.3mp USB Camera Module

Widely Application:



Drone

Robot

ATM

Electronic Equipment

Figure 2: Compatibility overview for the ELP Dual Lens USB Camera Module, supporting various operating systems including Windows, Linux, Android, and Raspberry Pi.

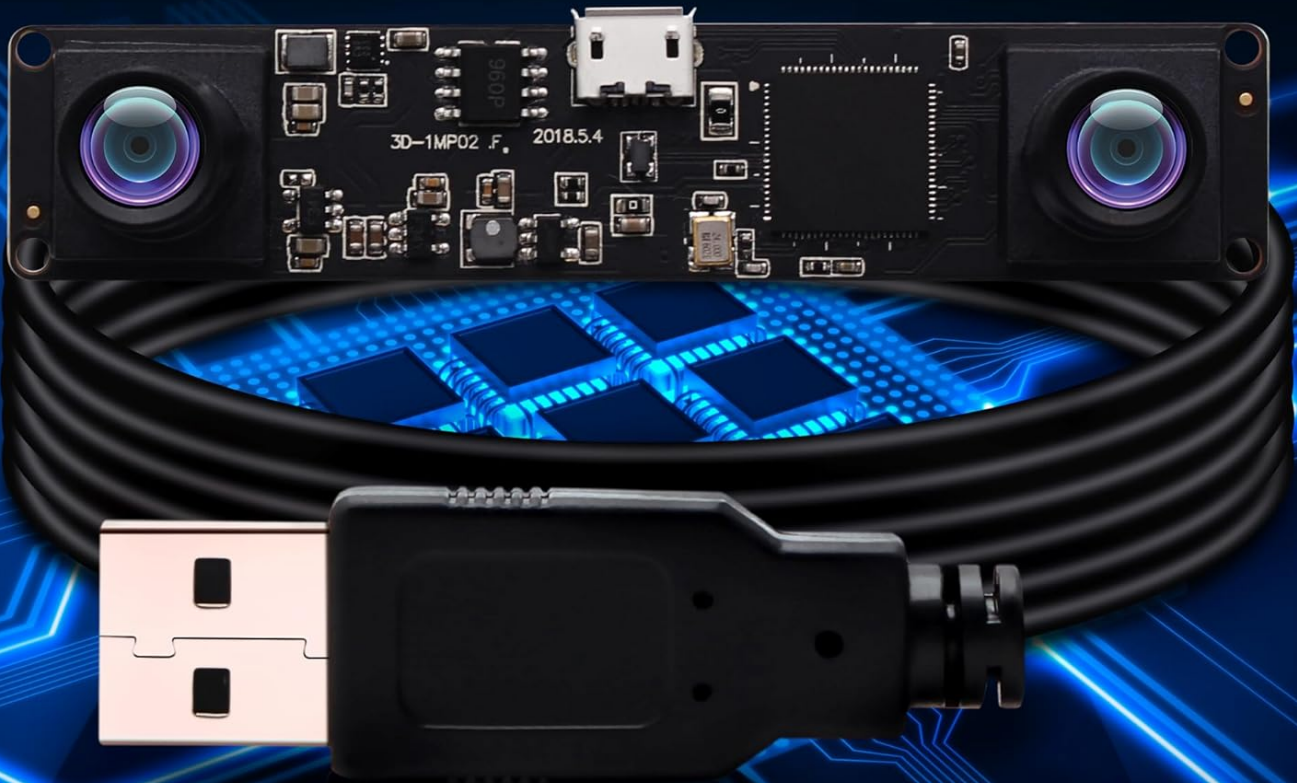
## 5. OPERATING INSTRUCTIONS

Once connected and recognized by your system, the camera module can be operated through your chosen software.

- **Live View:** Most camera applications will provide a live preview from both lenses simultaneously. This allows for real-time monitoring and adjustment.
- **Resolution and Frame Rate:** Adjust these settings within your software to match your application's requirements. The module supports up to 2560x960 at 60fps in MJPEG format for smooth, high-definition video.
- **Dual Lens Synchronization:** The camera provides synchronized images from both lenses, crucial for 3D applications, distance measurement, and other binocular vision tasks.
- **Wide Angle and Low Distortion:** The 90-degree M9 lenses offer a wide field of view with minimal distortion, ensuring accurate representation of the captured scene.



# Dual Lens Webcam USB Camera Module



**HD  
960P**

**Synchronized**

**USB2.0**

**MJPEG  
YUY2**

**Wide  
Angle**

Figure 3: Overview of the ELP Dual Lens USB Camera Module, emphasizing its key features including HD 960P resolution, synchronized dual lenses, USB2.0 connectivity, MJPEG support, and wide-angle view.

# WEBCAMERA\_USB

- ✓ Synchronized Dual Lens Camera Module
- ✓ Real-time High Definition 2560X960@60fps
- ✓ Great for 3D Stereo Camera Application



## 1.3 Megapixel High Frame Rate Dual Lens Camera Module

Figure 4: Detailed dimensions of the ELP Dual Lens USB Camera Module, showing its compact form factor suitable for embedded applications.

### Video Demonstration:

Your browser does not support the video tag.

Video 1: This video demonstrates the ELP 960P dual lens USB camera module in synchronization for computer use, showcasing its real-time capabilities.

## 6. MAINTENANCE

To ensure the longevity and optimal performance of your camera module, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to gently clean the lenses and the module's surface. Avoid using harsh chemicals or abrasive materials that could scratch the lenses or damage the electronic components.
- **Storage:** Store the camera module in a cool, dry place away from direct sunlight, extreme temperatures, and high humidity.
- **Handling:** Handle the module with care to avoid physical impact or bending the circuit board.

## 7. TROUBLESHOOTING

If you encounter issues with your ELP Dual Lens USB Camera Module, refer to the following common troubleshooting steps:

- **Camera Not Detected:**
  - Ensure the USB cable is securely connected to both the camera module and the host device.
  - Try connecting the camera to a different USB port or a different host device to rule out port or device issues.
  - Verify that your operating system is up-to-date.
- **Poor Image Quality/Distortion:**
  - Ensure the lenses are clean and free from dust or smudges.
  - Check the lighting conditions. Adequate and even lighting is crucial for good image quality.
  - Verify the resolution and frame rate settings in your camera software.
- **Software Issues:**
  - Try using a different camera application to see if the issue persists.
  - Ensure your camera software is updated to the latest version.

### Video Demonstration:

Your browser does not support the video tag.

Video 2: This video demonstrates the ELP 1080p 60fps high-speed dual lens USB camera module, showcasing its performance and image quality.

## 8. SPECIFICATIONS

<b>Brand Name</b>	ELP
<b>Item Model Number</b>	ELP-USB960P2CAM-V90
<b>Product Dimensions</b>	3.17 x 0.65 x 0.81 inches
<b>Item Weight</b>	3.17 ounces
<b>Color Name</b>	960P Synchronization
<b>Special Features</b>	960p, Lightweight, camera with UVC for computer, laptop, pc, dual lens synchronization, mini size
<b>Photo Sensor Technology</b>	CMOS
<b>Video Capture Resolution</b>	960p
<b>Maximum Focal Length</b>	40000 Millimeters
<b>Flash Memory Type</b>	Micro SD
<b>Video Capture Format</b>	M-JPEG
<b>Connectivity Technology</b>	USB

## 9. APPLICATIONS

The ELP Dual Lens USB Camera Module is versatile and can be used in a wide range of applications:

- **3D Camera & Distance Measuring:** Ideal for developing 3D vision systems and devices that require precise depth perception.
- **Biometric Retina:** Suitable for advanced biometric identification systems.
- **Laser Engraver & 3D Printer Monitoring:** Provides high-speed, synchronized views for precise monitoring of industrial processes.
- **Robotics Projects:** Can be integrated into robotic systems for machine vision, navigation, and object recognition.
- **Classroom Teaching:** Useful for educational demonstrations and interactive learning environments.
- **Stereo Photography:** Captures dual images for creating stereo photographs.
- **Face Recognition:** Employed in security and access control systems for accurate facial identification.
- **Intelligent Driving Systems:** Contributes to advanced driver-assistance systems (ADAS) for environmental perception.
- **Home Security Monitoring:** Can be used as a component in compact surveillance solutions.
- **VR Applications:** Provides synchronized input for virtual reality experiences.

## HIGH DEFINITION DOUBLE CHECK FOR SAFETY

High Definition 2560X960 MJPEG 60fps, Dual Lens Camera Module are Best for Face Recognition In the Case of Bank Withdrawals. Well used for 3D cameras, VR, Robot...

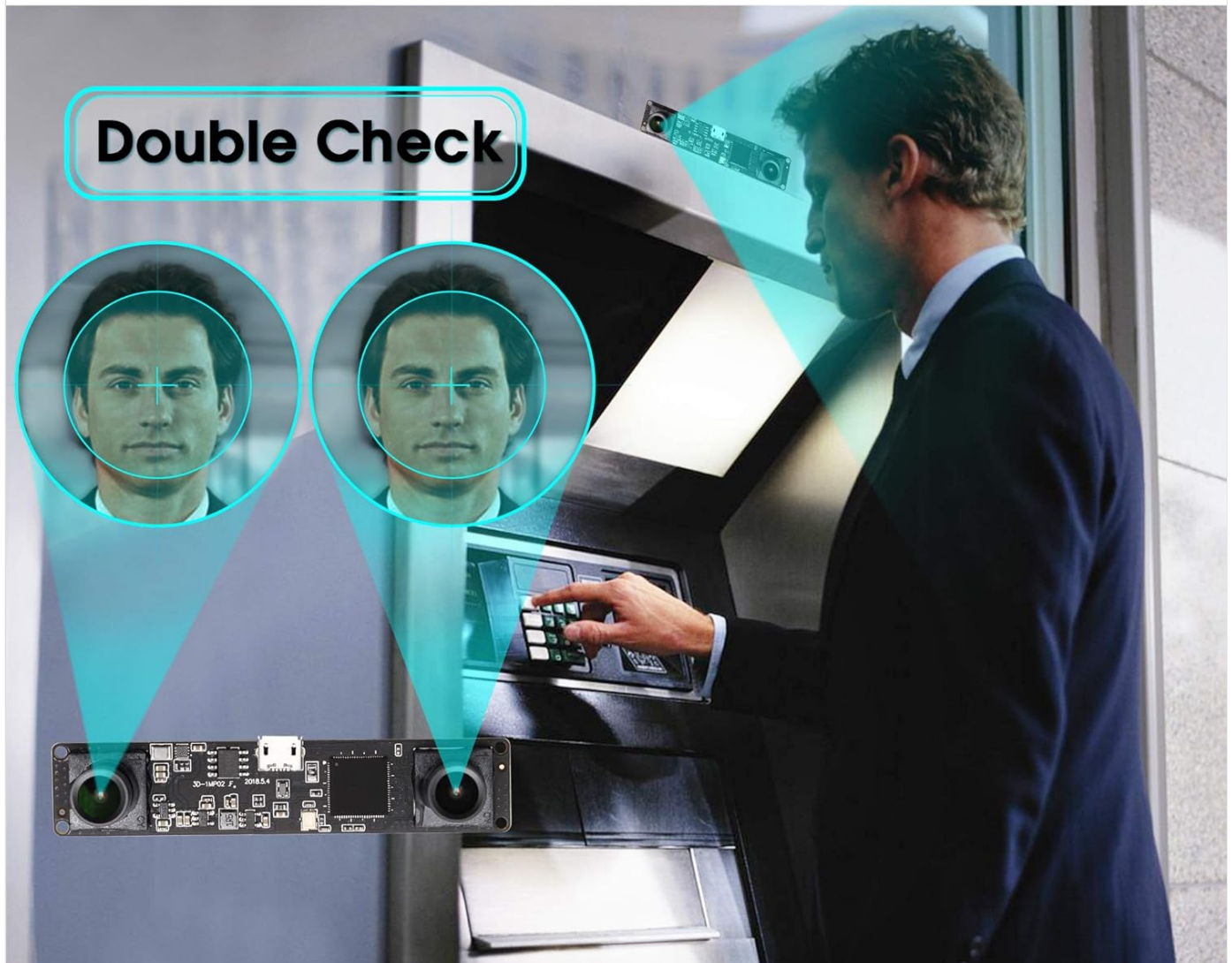


Figure 5: Diverse applications of the ELP Dual Lens USB Camera Module, ranging from drones and robots to ATM security and general electronic equipment.

**Video Demonstrations:**

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Video 3: A short demonstration of the ELP Dual Lens USB Camera, highlighting its use as a 3D camera for PC applications.

Your browser does not support the video tag.

Video 4: This video showcases the ELP 60fps Dual Lens Global Shutter USB Camera Module for PC, demonstrating its high-speed capture capabilities.

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Video 5: A demonstration of the IEights 960P Synchronical Dual Lens USB camera for computer, illustrating its synchronized imaging.

## 10. WARRANTY AND SUPPORT

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For any questions or issues regarding your ELP Dual Lens USB Camera Module, please contact ELP USB CAMERA directly through your purchase platform. Refer to your purchase documentation for specific warranty details and return policies.