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› Yosoo 4MP USB Dual Lens Stereo Camera Module - User Manual

## Yosoo Yosoo2b7qe91gf8

# Yosoo 4MP USB Dual Lens Stereo Camera Module - User Manual

Model: Yosoo2b7qe91gf8 | Brand: Yosoo

## 1. INTRODUCTION

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This manual provides essential information for the proper use and maintenance of your Yosoo 4MP USB Dual Lens Stereo Camera Module. This module is designed for various applications requiring high-resolution 3D synchronized imaging, offering broad compatibility with multiple operating systems.

## 2. PRODUCT OVERVIEW

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The Yosoo 4MP USB Dual Lens Stereo Camera Module features a synchronous dual-lens design, enabling simultaneous image capture from both lenses. This capability is crucial for applications such as 3D reconstruction and depth detection, providing accurate and comprehensive visual data. It delivers dual 1080P HD resolution, ensuring clear and detailed images. The module supports USB On-The-Go (OTG) for direct connection to compatible devices without extra adapters, and its plug-and-play functionality with UVC protocol ensures compatibility with Windows, Mac OSX, Linux, and Android without requiring additional drivers. Its compact size and easy integration make it suitable for industrial imaging, advertising displays, and embedded systems.



Figure 1: Yosoo 4MP USB Dual Lens Stereo Camera Module with dimensions indicating 60mm lens pitch and 80mm total length.

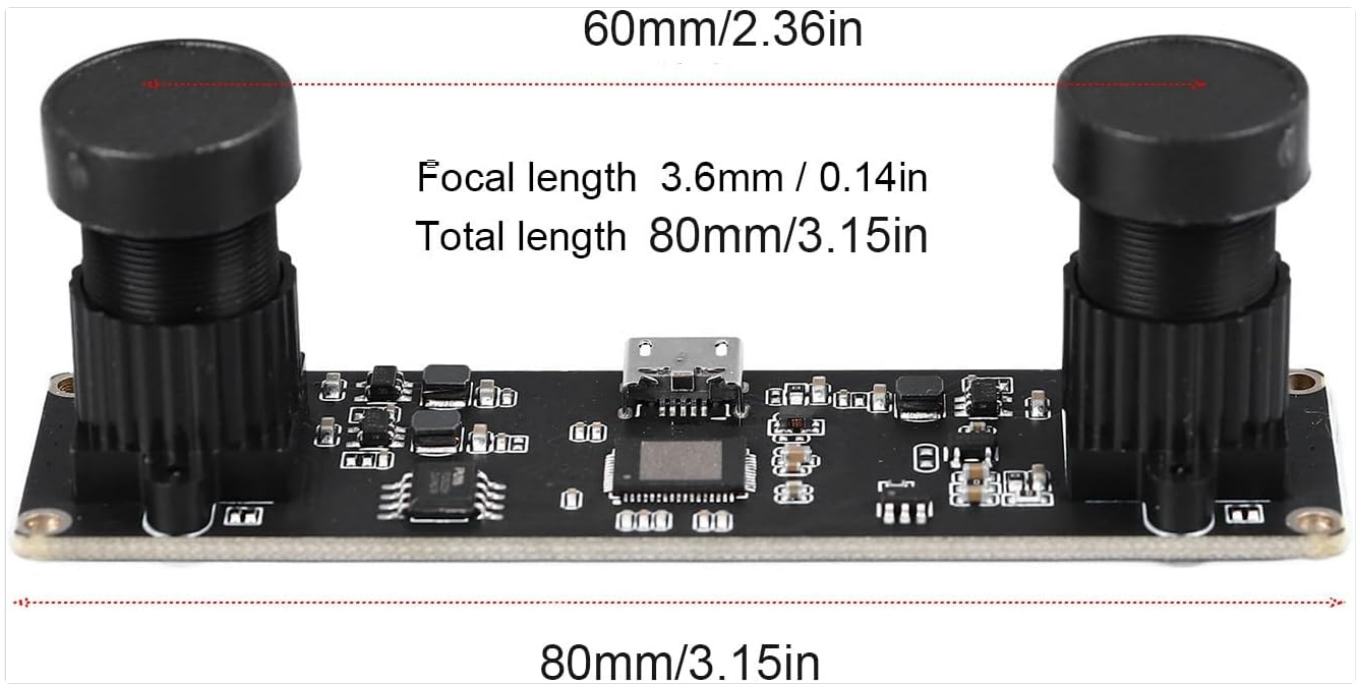


Figure 2: Top view of the camera module, showing the two lenses and the central USB port.

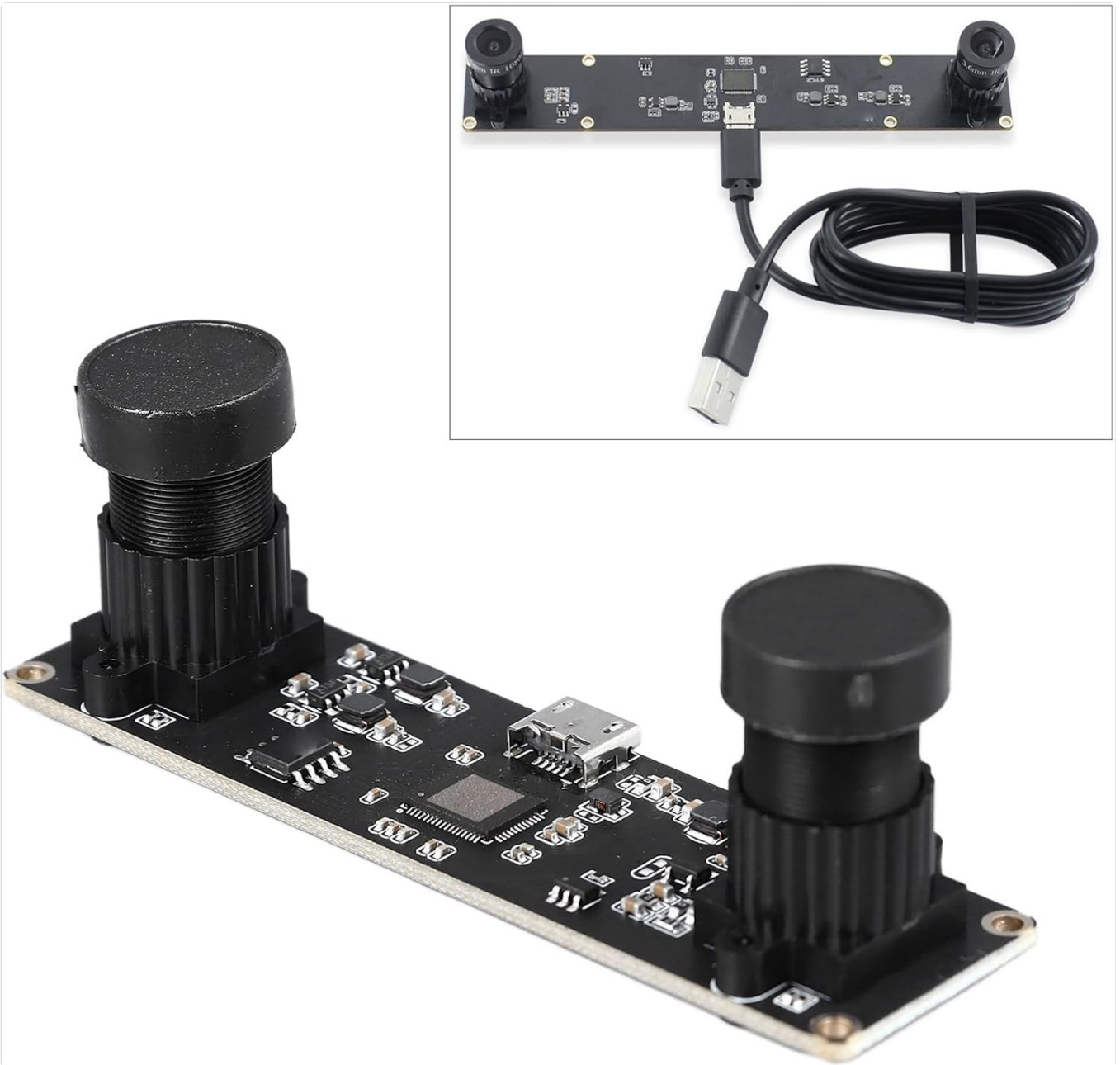


Figure 3: Angled view of the camera module connected to a USB cable.

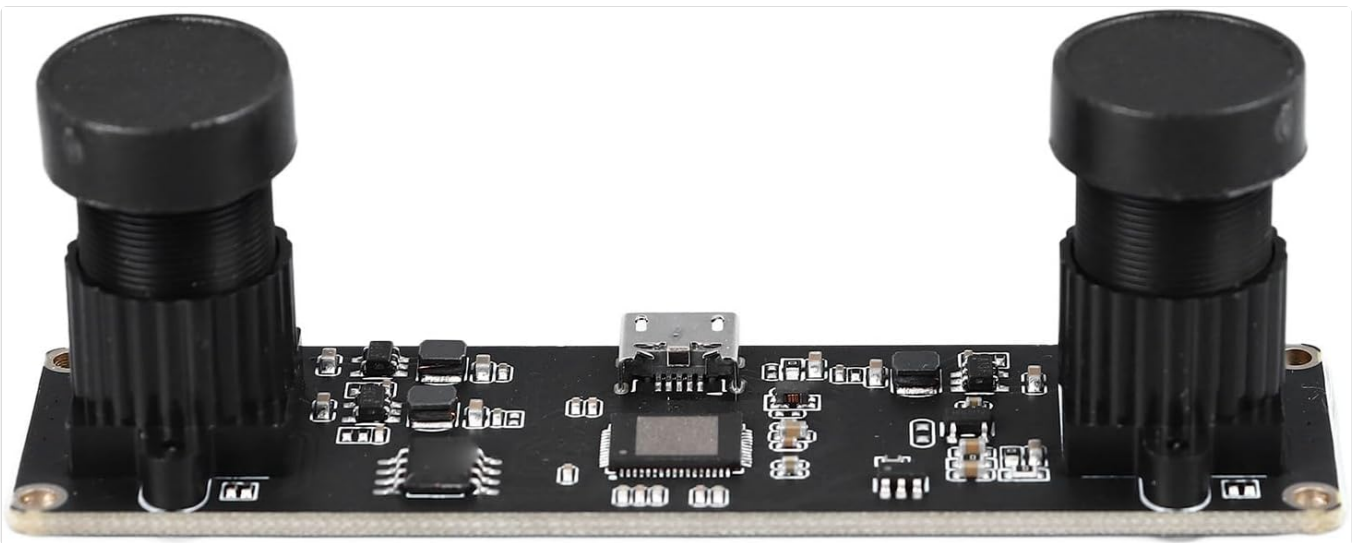


Figure 4: Frontal view of the camera module, highlighting the dual lenses.

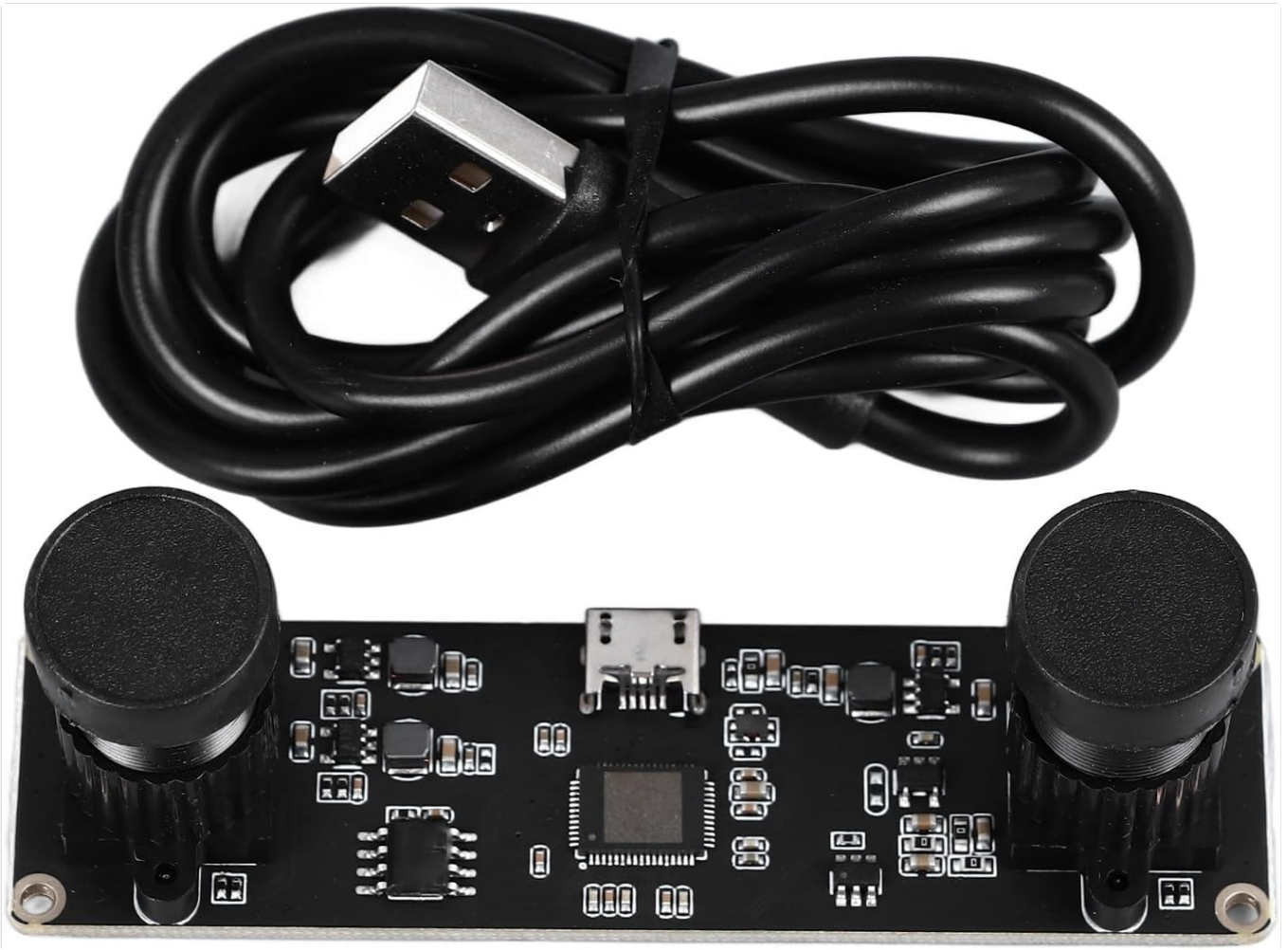


Figure 5: Top view of the camera module with the coiled USB cable.

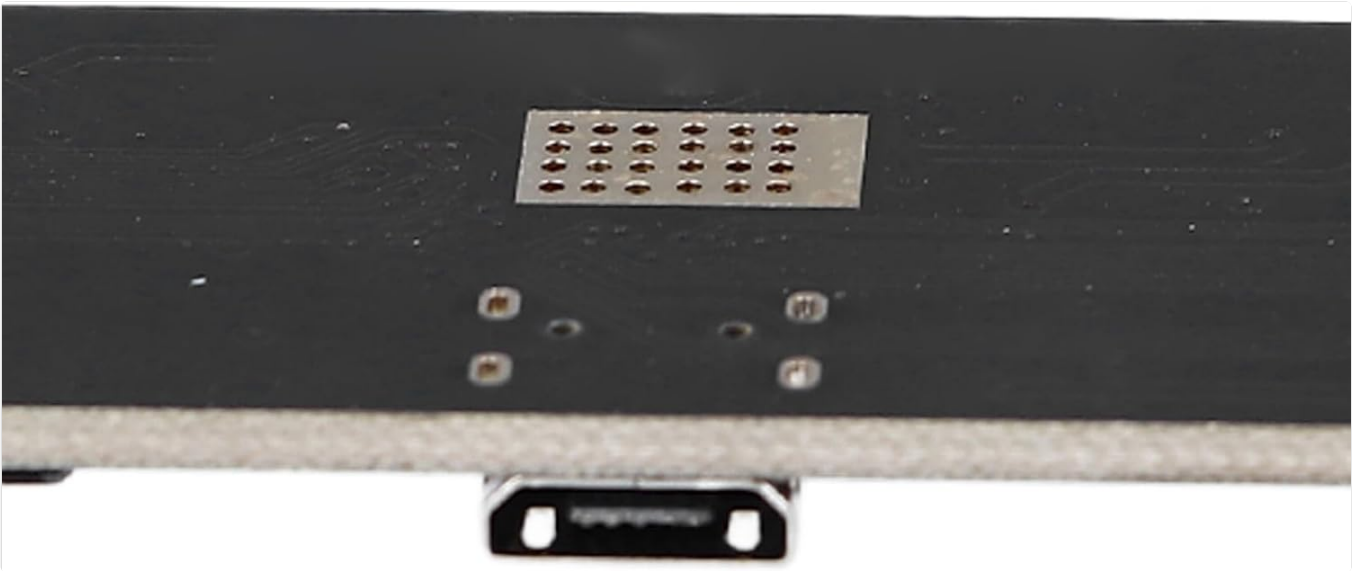


Figure 6: Bottom view of the camera module, showing the circuit board.



Figure 7: Side angled view of the camera module.



Figure 8: Close-up of the bottom of the camera module, showing screw holes for mounting.

## 3. SETUP

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### 3.1 Connecting the Camera Module

1. Locate the USB port on your device (computer, embedded system, or Android device with OTG support).
2. Connect the camera module to your device using a compatible USB cable. The module is plug-and-play, meaning it should be recognized automatically by most operating systems.
3. For Android devices, ensure your device supports USB On-The-Go (OTG) functionality.

### 3.2 Driver Installation

This camera module supports the standard UVC (USB Video Class) protocol. This means it typically does not require any additional drivers to be installed on compatible operating systems such as Windows (7, 8, 10), Mac OSX, Linux, and Android. Your system should automatically detect and configure the camera upon connection.

## 4. OPERATING INSTRUCTIONS

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### 4.1 Basic Operation

1. Once connected, open a compatible camera application or software on your device.
2. Select the "3D USB Camera" or similar name from the list of available video input devices within your application.
3. Adjust resolution and frame rate settings as needed for your specific application. The module supports resolutions up to 3840x1080 at 30FPS (YUV/MJPEG).

### 4.2 Advanced Features

- **Synchronous Dual Lens:** The dual lenses capture images simultaneously, which is essential for 3D reconstruction and depth detection. Ensure your software supports processing synchronized stereo images.
- **Low Distortion Lens:** The 72-degree non-distortion lenses provide accurate visual information, minimizing image warping.
- **Versatile Applications:** This module is suitable for a wide range of industrial and commercial uses, including robotics, machine vision, 3D printing, laser engraving, and VR applications.

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Video 1: This video demonstrates the ELP 4MP USB Camera Module, highlighting its 3D stereo synchronization dual lens and performance at 3840x1080 resolution at 60fps. It also shows its 120-degree wide-angle view with low distortion and plug-and-play compatibility via USB, requiring no additional software.

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Video 2: This video showcases an ELP 3D Stereo Dual Lens USB Camera, emphasizing its ability to capture 800P footage at up to 120FPS. It demonstrates the global shutter sensor's capability to avoid rolling artifacts and produce crisp, sharp monochrome images even for high-speed moving objects, making it suitable for robotic and machine vision applications.

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Video 3: This video presents an ELP 3D Stereo USB Camera, highlighting its 1080P 60fps high-speed capture capabilities. It demonstrates its plug-and-play functionality, wide-angle view, and suitability for various applications including robotics, video production, panoramic shots, and VR applications.

## 5. MAINTENANCE

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

- **Cleaning:** Gently wipe the lenses with a soft, lint-free cloth. For stubborn smudges, use a lens cleaning solution specifically designed for optical surfaces. Avoid abrasive materials or harsh chemicals.
- **Storage:** Store the camera module in a cool, dry place away from direct sunlight and extreme temperatures. Protect it from dust and moisture when not in use.
- **Handling:** Handle the module with care to avoid physical damage to the lenses or circuit board. Do not apply excessive force to the USB connector.

## 6. TROUBLESHOOTING

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If you encounter issues with your camera module, consider the following:

- **Not Detected:** Ensure the USB cable is securely connected to both the camera module and your device. Try connecting to a different USB port or a different device to rule out port or device issues.
- **No Image/Black Screen:** Verify that the correct camera is selected in your application. Check the application's settings for any

disabled video feeds.

- **Poor Image Quality:** Ensure the lenses are clean and free from obstructions. Adjust lighting conditions and camera settings (e.g., exposure, white balance) within your application.
- **Software Compatibility:** While UVC compliant, some specialized software might require specific configurations. Refer to your software's documentation for compatibility and setup instructions.

## 7. SPECIFICATIONS

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Feature	Detail
Brand	Yosoo
Manufacturer	Yosoo
Product Model Number	Yosoo2b7qe91gf8
Package Dimensions	13 x 9 x 3 cm
Item Weight	44 g
ASIN	B0CMVB8JZ2
First Available Date	November 7, 2023

## 8. WARRANTY AND SUPPORT

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For warranty information or technical support, please refer to the product packaging or contact the seller directly. Keep your purchase receipt as proof of purchase for any warranty claims.