

## WS16M01 (6mm Fixed Focus)

# Generic IMX298 16MP USB Camera with 6mm Fixed Focus CS Lens User Manual

Model: WS16M01 (6mm Fixed Focus)

## 1. INTRODUCTION

---

This manual provides detailed instructions for the proper installation, operation, and maintenance of your Generic IMX298 16MP USB Camera with a 6mm Fixed Focus CS Lens. Please read this manual thoroughly before using the product to ensure optimal performance and to prevent damage.

## 2. PRODUCT OVERVIEW

---

The Generic IMX298 16MP USB Camera is a high-resolution imaging device designed for various applications requiring detailed image capture. It features a 16-megapixel sensor, USB connectivity for easy integration, and a 6mm fixed focus CS mount lens. This camera is compatible with multiple operating systems, offering flexible integration across different computing platforms.

## 3. SAFETY INFORMATION

---

- Do not expose the camera to water or excessive moisture.
- Avoid dropping or subjecting the camera to strong impacts.
- Do not attempt to disassemble or modify the camera. This will void the warranty.
- Use only the provided USB cable or a compatible replacement.
- Keep the lens clean and free from dust and fingerprints.

## 4. PACKAGE CONTENTS

---

Verify that all items are present in your package:

- 1x Generic IMX298 16MP USB Camera (WS16M01)
- 1x 6mm Fixed Focus CS Lens
- 1x USB Cable (approximately 1.5 meters)
- 1x User Manual (this document)

## 5. SETUP

---

### 5.1 Attaching the CS Lens

1. Carefully remove the protective cap from the camera's CS mount.
2. Gently screw the 6mm fixed focus CS lens onto the camera's CS mount until it is secure. Do not overtighten.
3. Remove the lens cap from the front of the lens.



Image 1: Generic IMX298 16MP USB Camera with 6mm Fixed Focus CS Lens attached.

## 5.2 Connecting the Camera to Your Computer

1. Connect one end of the provided USB cable to the USB port on the camera.
2. Connect the other end of the USB cable to an available USB port on your computer.
3. The camera is a USB drive-free device, meaning it should be automatically recognized by most operating systems without requiring manual driver installation.

## 6. OPERATING INSTRUCTIONS

---

### 6.1 Software Compatibility

This camera is compatible with multiple operating systems and can be used with various imaging software applications that support standard USB cameras (e.g., OBS Studio, VLC, AMCap, or custom applications).

### 6.2 Basic Image Capture

1. Launch your preferred imaging software on your computer.
2. Select the Generic IMX298 USB Camera as the video input device within the software settings.
3. Adjust software settings such as resolution (up to 4656x3496), frame rate, and exposure as needed.
4. The 6mm lens provides a fixed focus. Ensure your subject is within the optimal focal distance for clear images.
5. Use the software's controls to capture still images or record video.

## 7. MAINTENANCE

---

### 7.1 Cleaning the Lens

Use a soft, lint-free cloth specifically designed for optical lenses to gently wipe the lens surface. For stubborn

smudges, a small amount of lens cleaning solution can be applied to the cloth (not directly to the lens).

## 7.2 Cleaning the Camera Body

Wipe the camera body with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.

## 7.3 Storage

When not in use, store the camera in a cool, dry place, away from direct sunlight and extreme temperatures. Replace the lens cap to protect the lens.

## 8. TROUBLESHOOTING

---

- **Camera Not Detected:**  
Ensure the USB cable is securely connected to both the camera and the computer. Try a different USB port or a different USB cable. Restart your computer.
- **No Image or Black Screen:**  
Verify that the camera is selected as the input device in your imaging software. Check if the lens cap has been removed. Ensure sufficient lighting for the scene.
- **Image is Blurry:**  
Since this is a fixed focus lens, ensure the subject is within the optimal focal range of the 6mm lens. The camera is designed for specific working distances.
- **Low Frame Rate:**  
Reduce the resolution setting in your imaging software. Ensure your computer meets the minimum system requirements for high-resolution video streaming.

## 9. SPECIFICATIONS

---

Feature	Specification
Model Number	WS16M01
Max. Resolution	4656x3496
Sensor	IMX298 (Compatible)
Interface Type	USB (drive-free)
Cable Length	1.5M
Shutter Type	Rolling Shutter
Lens Type	6mm Fixed Focus CS Lens
Picture Format	MJPEG, YUY2
Item Weight	1.76 ounces
Package Dimensions	3.94 x 3.94 x 3.94 inches
Manufacturer	Generic

## 10. WARRANTY AND SUPPORT

---

Specific warranty details and direct support contact information are not provided within this manual. For warranty claims or technical assistance, please refer to the retailer or the manufacturer's official website where the product was purchased. Keep your proof of purchase for warranty purposes.

© 2025 Generic. All rights reserved.