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> SVPRO 12MP High Speed USB Camera User Manual (Model: SV-USB12MP01-UFV(3.6-10))

## SVPRO SV-USB12MP01-UFV(3.6-10)

# SVPRO 12MP High Speed USB Camera User Manual

Model: SV-USB12MP01-UFV(3.6-10)

## INTRODUCTION

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The SVPRO 12MP High Speed USB Camera (Model: SV-USB12MP01-UFV(3.6-10)) is a versatile industrial-grade camera designed for various applications requiring high resolution and fast frame rates. It features a 1/2.3" 12MP image sensor, capable of capturing detailed images up to 3840x3040 pixels and video at 1080p 120fps. The camera includes a 3X optical manual zoom lens (3.6-10mm) for precise control over focus, aperture, and zoom. Its UVC plug-and-play compatibility ensures easy integration with Windows, Linux, Mac OS, Android, and Raspberry Pi systems without the need for additional drivers.

## PACKAGE CONTENTS

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- 1x SVPRO 12MP USB Camera Body
- 1x 10FT USB Cable

## SETUP INSTRUCTIONS

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### 1. **Physical Connection:**

Connect the provided 10FT USB cable to the camera and then to an available USB port on your computer (Windows, Linux, Mac OS), Raspberry Pi, or compatible Android device. The camera is UVC compliant, meaning it is plug-and-play and typically does not require driver installation.

# 12MP Excellent Image Quality



Image: The SVPRO 12MP USB Camera connected to a laptop, demonstrating its plug-and-play compatibility with various operating systems including Linux, Android, Mac OS, and Windows.

## 2. Mounting (Optional):

The camera features an adjustable metal bracket for surface or wall mounting. It also includes a standard 1/4-inch thread mount, allowing attachment to tripods or other camera accessories.

Your browser does not support the video tag.

Video: Demonstrates the physical features of the SVPRO 12MP USB Camera, including its adjustable metal bracket and standard 1/4-inch thread mount for versatile mounting options. It also shows the camera being connected via USB.

## 3. Software Recognition:

Once connected, your operating system should recognize the camera as a standard webcam. You can use various video software applications such as AMCAP, OpenCVC, VLC, V4L2, Kamosa, Camerafi, USB Camera APP, Photo Booth, Zoom, Quick Time, OBS, or Skype to access the camera feed.

## OPERATING INSTRUCTIONS

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### Adjusting Resolution and Frame Rate

The SVPRO camera supports multiple resolutions and frame rates, including 3840x3040 at 20fps, 4K at 30fps, and 1080p

at 120fps. To utilize the higher frame rates, especially 1080p 120fps, it is crucial to use professional video software that allows manual adjustment of frame rate settings. Standard webcam software or default camera applications may limit the frame rate to 30fps or 60fps.

# SVPRO | 12MP High Speed Camera

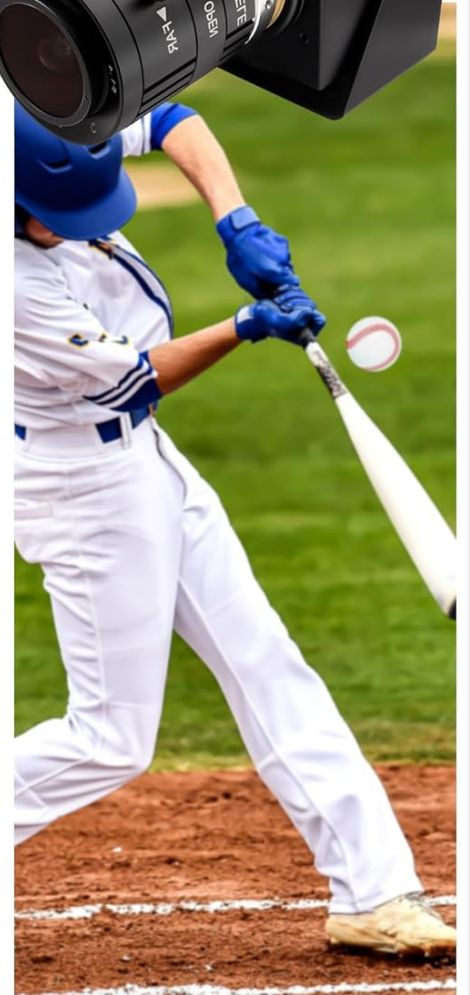
## Up To 1080P 120FPS



**3840x3040 20FPS**



**4K 30FPS**



**1080P 120FPS**

Image: Illustrates the high-speed capabilities of the SVPRO 12MP camera, showing different frame rates at various resolutions, including 3840x3040 at 20fps, 4K at 30fps, and 1080p at 120fps, ideal for capturing fast motion.

### Manual Zoom and Focus

The camera is equipped with a 3.6-10mm CS-mount manual zoom lens, offering 3X optical zoom. This allows for precise control over the focal length, aperture, and focus. Adjustments are made directly on the lens barrel. Use the "WIDE" and "TELE" rings to adjust zoom, and the "NEAR" and "FAR" rings for focus. The aperture can be adjusted using the "OPEN" and "CLOSE" rings. Secure your desired settings using the small set screws on the lens.

# 3X Optical Zoom



Image: Close-up view of the SVPRO 12MP USB Camera's manual zoom lens, highlighting the rings for adjusting focal length, aperture, and focus, along with the set screws for securing settings.

## Low Light Performance

The camera features an IMX577 sensor, providing good performance in low-light conditions. While it can capture clear images in dim environments, extreme low light may introduce some graininess. For optimal results, ensure adequate lighting for your application.

The logo for SVPRO, featuring the letters 'SVPRO' in a bold, blue, sans-serif font with a white outline. The 'O' is a circle with a white center.

Shot on this **Low Light Camera**

Shot on **Smartphone**

Image: A comparison shot demonstrating the SVPRO camera's superior low-light performance compared to a standard smartphone camera in a dimly lit parking garage.

## MAINTENANCE

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- **Cleaning:** Use a soft, dry cloth to clean the camera body. For the lens, use a specialized lens cleaning solution and microfiber cloth to avoid scratches.
- **Storage:** Store the camera in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Avoid dropping the camera or subjecting it to strong impacts, as this can damage internal components or the lens.
- **Water Resistance:** This camera is not water-resistant. Avoid exposure to moisture or liquids.

## TROUBLESHOOTING

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**Issue:** Camera not recognized by computer.

**Solution:**

- Ensure the USB cable is securely connected to both the camera and the computer.
- Try a different USB port on your computer.
- Test the camera on another computer to rule out a system-specific issue.
- Restart your computer.

**Issue: Low frame rate (e.g., 30fps) despite camera supporting 120fps.**

**Solution:**

- Many standard webcam software applications have limited frame rate capabilities.
- Use professional video software (e.g., OBS Studio, VLC, AMCAP) that allows you to manually set higher frame rates.
- Check the software's settings to ensure the desired resolution (e.g., 1080p) and frame rate (e.g., 120fps) are selected.

**Issue: Image is blurry or out of focus.**

**Solution:**

- Adjust the manual focus ring on the lens until the image is sharp.
- Ensure the lens is clean and free from smudges or dust.
- If using zoom, re-adjust focus after changing the zoom level.

## SPECIFICATIONS

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Feature	Detail
Brand	SVPRO
Model Number	SV-USB12MP01-UFV(3.6-10)
Photo Sensor Technology	CMOS
Video Capture Resolution	4K
Effective Still Resolution	11.6 MP
Maximum Focal Length	10 Millimeters
Minimum Focal Length	3.6 Millimeters
Optical Zoom	3 x
Focus Type	Manual Focus
Connectivity Technology	USB
Operating System Compatibility	Windows, Linux, Mac OS, Android
Special Features	Good Low Light Performance, High Resolution 12MP, 4K, High Speed up to 1080P 120fps, Manual Zoom Lens
Water Resistance Level	Not Water Resistant

Feature	Detail
Item Dimensions (D x W x H)	2.91"D x 1.81"W x 1.97"H
Item Weight	0.36 Kilograms

## WARRANTY AND SUPPORT

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### Warranty Information

This SVPRO camera comes with a 1-year manufacturer's warranty. For warranty claims or service, please contact SVPRO customer support with your purchase details.

### Return Policy

A 30-day refund/replacement policy is typically offered through the retailer. Please refer to your purchase platform's return policy for specific details.

### Customer Support

For further assistance, technical support, or inquiries, please visit the official SVPRO website or contact their customer service department. Contact information can usually be found on the product packaging or the brand's online store.

