

Autel MV108S

Autel MaxiVideo MV108S USB Endoscope Instruction Manual

1. INTRODUCTION

The Autel MaxiVideo MV108S USB Endoscope is a digital inspection camera designed to work with compatible Autel diagnostic tablets and personal computers. It allows users to inspect difficult-to-reach areas that are typically hidden from view. This device is capable of recording high-definition digital still images and videos, providing an efficient solution for inspecting machinery, facilities, and infrastructure.

Key features of the MV108S include:

- **High-Resolution Imaging:** Equipped with a 2MP camera, offering 1920x1080 HD resolution for clear images and videos.
- **Wide View Angle:** Features an 81° view angle for broader inspection coverage.
- **Extended Depth of Field:** Provides a depth of field from 3cm to 8cm, allowing for detailed close-up inspections.
- **IP67 Waterproof Imager Head:** The 8.5mm small diameter imager head is IP67 rated, ensuring functionality in wet environments.
- **Adjustable LED Illumination:** Integrated with 8 bright LED beads to ensure clear visibility in various lighting conditions.
- **Plug-and-Play Connectivity:** Connects via USB to compatible Autel tablets or PCs without requiring internet or Bluetooth.

2. PACKAGE CONTENTS

Verify that all items are present in your package:

- Autel MaxiVideo MV108S USB Endoscope
- User Manual
- Accessories: Mirror, Hook, Magnet



Image: Autel MV108S Endoscope and its three practical accessories.

3. SETUP AND CONNECTION

Follow these steps to connect your Autel MaxiVideo MV108S Endoscope to a compatible device:

1. **Connect Imager Head Cable:** Connect the removable imager head cable to the host handgrip. Ensure the connection is secure by screwing the knurled knob firmly in place.
2. **Connect to Device:** Insert the USB cable from the handgrip into a USB port on your compatible Autel tablet scanner or PC.
3. **Launch Application:**
 - **For Autel Tablet:** After USB connection, tap the "Digital Inspection" app icon on your tablet. You can then select image or video modes.
 - **For PC:** The device should be recognized as a USB camera. You may need to open a camera application (e.g., Windows Camera app) and select the Autel camera as the input source.

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PRODUCT	MV108S	MV108
Imager Head Diameter	8.5mm	8.5mm
Camera	2MP	0.3MP
View Angle	81°	70°
Rotation View	360°	360°
Depth of Field	3-8cm	2-6cm
Cable Length	1M	1M
Connection	USB 2.0	USB 2.0
Waterproof Grade (Imager head)	IP67	IP67
Operating Temp	(-10°C-70°C)	(-10°C-70°C)
Storage Temp	(-10°C-70°C)	(-10°C-70°C)
Reflector	✓	✓
Magnet	✓	✓
Hook	✓	✓

Image: Connection steps for the MV108S to an Autel scanner and a PC.

Your browser does not support the video tag.

Video: Demonstration of connecting the Autel MaxiVideo MV108S and its initial use with a laptop, including a waterproof test.

4. OPERATING INSTRUCTIONS

Once connected, the MV108S allows for visual inspection in various environments:

- **General Inspection:** Carefully insert the imager head into the area you wish to inspect. The flexible cable allows navigation through confined spaces.
- **Adjusting Illumination:** The integrated LED lights can be adjusted to provide optimal brightness for clear viewing in dark areas.
- **Capturing Media:** Use the connected Autel tablet or PC software to capture still images (JPEG) or record videos (MP4) of your inspection.
- **Waterproof Applications:** Due to its IP67 rating, the imager head can be submerged in water for inspecting pipes or other wet areas. Ensure the connection point to the handgrip remains dry.
- **Automotive Inspections:** The small diameter design is ideal for inspecting engine components, wiring

harnesses, and other tight spaces within a vehicle.

CONNECT WITH AUTEL SCANNER



Insert to the USB port



Click "Digital
Inspection" icon

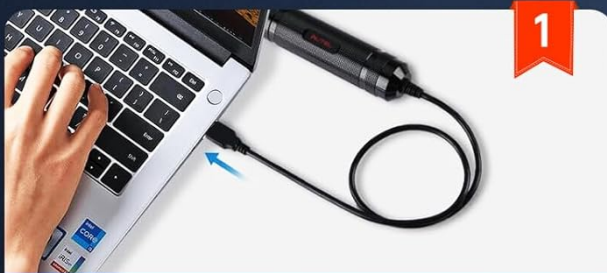


Working



PLUG & PLAY !

CONNECT WITH PC



Insert to PC USB port



Working

Image: Wide application scenarios for the MV108S, demonstrating its use in automotive and industrial settings.

5. USING ACCESSORIES

The MV108S comes with three practical accessories to enhance its functionality:

- **Mirror:** Attaches to the imager head to provide a side view, useful for looking around corners or inspecting surfaces not directly in front of the camera.
- **Hook:** Can be attached to retrieve small objects from inaccessible areas, such as dropped screws or wires.
- **Magnet:** Useful for picking up small ferrous metal objects that have fallen into tight spaces.

6. MAINTENANCE

To ensure the longevity and optimal performance of your MV108S Endoscope:

- **Cleaning:** After use, especially in dirty or wet environments, gently wipe the imager head and cable with a soft, damp cloth. Avoid harsh chemicals.

- **Drying:** If the imager head has been submerged, ensure it is thoroughly dried before storage.
- **Storage:** Store the endoscope in a clean, dry place, away from extreme temperatures and direct sunlight. Coil the cable loosely to prevent damage.
- **Connection Care:** Always ensure the knurled knob is properly tightened when connecting the imager head cable to the handgrip to maintain a secure and waterproof seal for the imager head.

7. TROUBLESHOOTING

If you encounter issues with your MV108S Endoscope, consider the following:

- **"Camera Not Found" Error:**
 - Ensure the USB cable is securely plugged into both the endoscope handgrip and the host device (Autel tablet or PC).
 - Try a different USB port on your device.
 - Restart the application or your host device.
 - On a PC, check Device Manager to confirm the camera is recognized. You may need to select the Autel camera within your camera application settings.
- **Poor Image Quality:**
 - Adjust the LED brightness using the controls on the handgrip or within the software.
 - Ensure the imager head lens is clean and free from debris.
 - Verify the object being inspected is within the optimal depth of field (3-8cm).
- **No Power/LEDs Not Lighting Up:**
 - Confirm the USB connection is firm and the host device is powered on.
 - Test with a different USB port or host device if possible.

8. SPECIFICATIONS

The following table outlines the technical specifications of the Autel MaxiVideo MV108S USB Endoscope:

Feature	Specification
Model Name	MV108S
Imager Head Diameter	8.5mm (0.33 inches)
Camera Resolution	2 MP (Effective Still Resolution)
Video Capture Resolution	1920x1080p
View Angle	81 Degrees
Depth of Field	3cm to 8cm
Cable Length	1 Meter
Water Resistance Level	IP67 (Imager Head)
Connectivity Technology	USB 2.0
Compatible Devices	Autel tablet scanners (MK808, MX808, MK808Z, MK808Z-BT, MK808Z-TS, MP808Z-TS, MP900Z-BT, MP900-TS, MS906 Pro, MK906 Pro, MK906 Pro-TS, MaxiSys Elite II) and PC
Operating Temperature	-10°C to 70°C
Storage Temperature	-10°C to 70°C
File Format	JPEG (images), MP4 (videos)
Item Weight	0.38 Kilograms

CONNECT WITH **AUTEL** SCANNER



1
Insert to the USB port



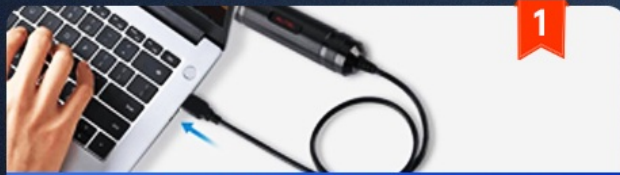
2
Click "Digital Inspection" icon



3
Working

 **PLUG & PLAY !**

CONNECT WITH **PC**



1
Insert to PC USB port



2
Working

Image: Comparison of MV108S specifications with the previous MV108 model.

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the official Autel website or contact Autel customer service directly. Keep your purchase receipt as proof of purchase for warranty claims.