

VIVIDIA CXM-4010

Vividia CXM-4010 Flexible Joystick Articulation Video Borescope

USER MANUAL

Introduction

Thank you for choosing the Vividia CXM-4010 Flexible Joystick Articulation Video Borescope. This device is designed for detailed visual inspection in hard-to-reach areas, featuring a flexible probe with joystick-controlled articulation and a high-resolution camera. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your borescope.

Please read this manual thoroughly before using the product and retain it for future reference.

Safety Information

Always observe the following safety precautions to prevent injury or damage to the device:

- Do not immerse the main unit (monitor and handle) in water. Only the probe is waterproof (IP67 rated).
- Avoid bending the flexible probe beyond its natural articulation limits.
- Do not use the device in environments with explosive gases or liquids.
- Keep the device away from strong magnetic fields.
- Use only the specified charging adapter.
- Store the device in a cool, dry place when not in use.

Package Contents

Verify that all items are present in the package:

- Vividia CXM-4010 Borescope Main Unit (with 4.5" LCD Monitor)
- Flexible Articulating Probe (4mm camera head diameter, 1 meter length)
- USB Charging Cable
- User Manual (this document)
- MicroSD Card (pre-installed or included separately)

Product Overview

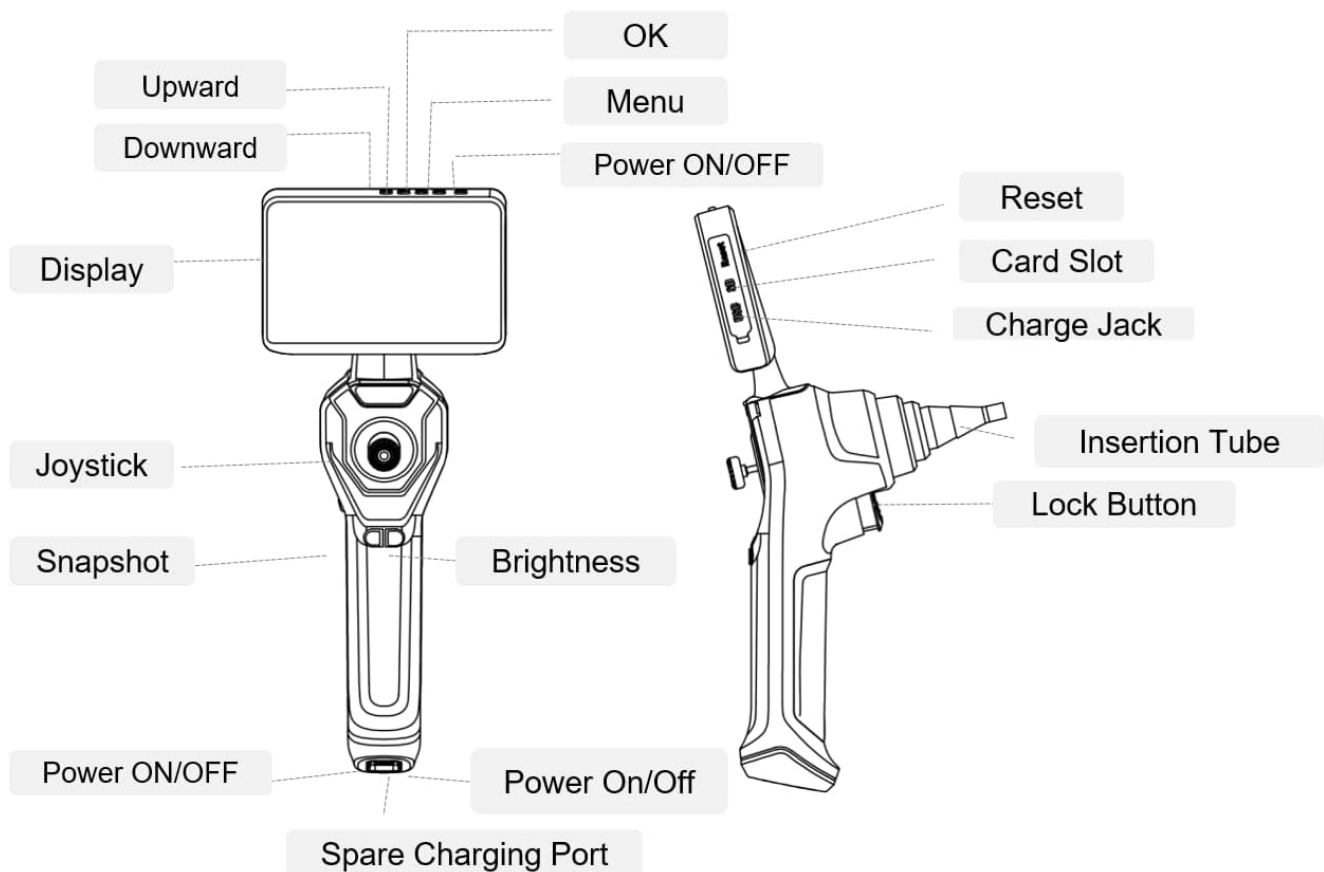


Figure 1: Labeled diagram of the Vividia CXM-4010 Borescope, showing the display, joystick, snapshot button, brightness control, power buttons, card slot, charge jack, insertion tube, and lock button.

The Vividia CXM-4010 consists of a main handle unit with an integrated 4.5-inch LCD monitor and a flexible probe with a camera head. Key components include:

- **Display:** 4.5-inch LCD for viewing live feed and recorded media.
- **Joystick:** Controls the 360-degree articulation of the camera head.
- **Snapshot Button:** Captures still images.
- **Brightness Control:** Adjusts the intensity of the LED lights on the camera head.
- **Power ON/OFF Buttons:** Located on the handle and the display unit.
- **Card Slot:** For inserting the microSD card.
- **Charge Jack:** USB port for charging the device.
- **Insertion Tube:** The flexible, metal-mesh covered probe containing the camera.
- **Lock Button:** Locks the articulation angle of the camera head.



Figure 2: Front view of the Vividia CXM-4010 Borescope, showing the main unit with the monitor displaying an image from the probe,

and the flexible probe extending from the top.



Figure 3: Side view of the Vividia CXM-4010 Borescope, illustrating the ergonomic handle and the flexible probe's connection point.

Setup

1. Charging the Device

Before first use, fully charge the borescope. Connect the USB charging cable to the charge jack on the device and to a suitable USB power adapter (not included). The charging indicator lights will show the charging status.



Figure 4: Close-up view of the charging port and battery indicator lights located at the bottom of the borescope handle.

2. Inserting the MicroSD Card

The device comes with a microSD card for storing images and videos. Locate the card slot on the side of the monitor unit. Gently insert the microSD card until it clicks into place. Ensure the card is inserted in the correct orientation.

3. Attaching the Probe

The flexible probe is typically pre-attached. If not, align the connector of the probe with the port on the main unit and secure it firmly.

Operating Instructions

1. Powering On/Off

Press and hold the Power ON/OFF button on the handle or the display unit for a few seconds to turn the device on. The LCD monitor will illuminate. To turn off, press and hold the same button until the display shuts down.

2. Adjusting Camera Articulation

Use the joystick located on the main unit to control the direction of the camera head. Moving the joystick will articulate the camera head 360 degrees, allowing for precise viewing angles. To lock the camera head at a specific angle, press the lock button.



Figure 5: A user demonstrating the operation of the borescope, adjusting the joystick to maneuver the probe within an engine compartment.

3. Adjusting LED Brightness

Press the Brightness control button to cycle through different LED light intensity levels. This helps illuminate dark inspection areas effectively.

4. Capturing Images and Videos

- **To take a photo:** Press the Snapshot button once. The image will be saved to the microSD card.
- **To record a video:** Press and hold the Snapshot button to start recording. Press and hold again to stop recording. Videos are saved to the microSD card.

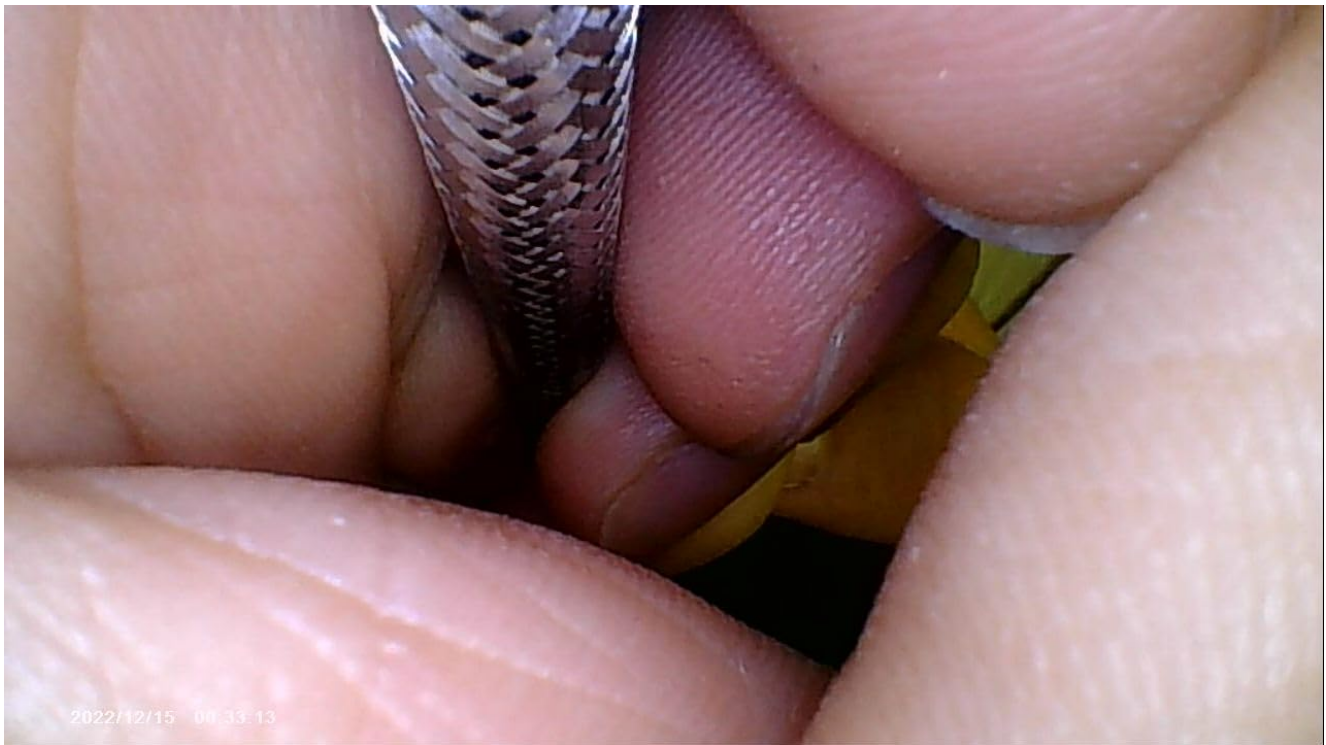


Figure 6: A close-up view of the flexible probe, highlighting its metal-mesh covering and the small camera head, demonstrating its maneuverability.

5. Viewing Media

Access the menu on the display to browse and playback saved images and videos. You can also connect the device to a computer via USB to transfer files.

Maintenance

1. Cleaning the Probe and Camera Head

After each use, especially in dirty or oily environments, gently wipe the flexible probe and camera head with a soft, damp cloth. For stubborn residue, a mild, non-abrasive cleaning solution can be used. Ensure the camera lens is clean for clear images.

2. Battery Care

To prolong battery life, avoid fully discharging the battery frequently. If storing the device for an extended period, charge the battery to approximately 50% and recharge every few months.

3. Storage

Store the borescope in its original packaging or a protective case in a cool, dry place, away from direct sunlight and extreme temperatures. Avoid coiling the flexible probe too tightly.

Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	Low battery.	Charge the device fully.
No image on screen.	Probe not connected properly.	Ensure the probe is securely connected.

Problem	Possible Cause	Solution
Image is blurry or dark.	Camera lens dirty; insufficient lighting.	Clean the camera lens; increase LED brightness.
Cannot save photos/videos.	MicroSD card full or not inserted correctly.	Check microSD card insertion; delete old files or replace card.
Joystick articulation not working.	Articulation lock engaged; mechanical obstruction.	Release the lock button; check for obstructions in the probe path.

Specifications

Feature	Detail
Model Number	CXM-4010
Camera Head Diameter	4mm (0.16")
Probe Length	1 meter (3.3 ft)
Probe Material	Metal-mesh covered flexible tube
Waterproof Rating	IP67 (probe and camera head)
Articulation	Joystick-controlled, 360-degree all-direction, 180-degree bending back
Camera Resolution	1280x720 (1MP HD CMOS sensor)
Display	4.5 inch LCD Monitor
Illumination	6 bright LED lights
Storage Media	MicroSD Card (included)
Battery	Rechargeable Lithium battery (more than 3h working time)
Item Weight	12 pounds
Package Dimensions	20.5 x 16 x 6 inches

Warranty and Support

Warranty and specific support contact information are not available in the provided product data. Please refer to the product packaging or the manufacturer's official website for details regarding warranty coverage and customer support.