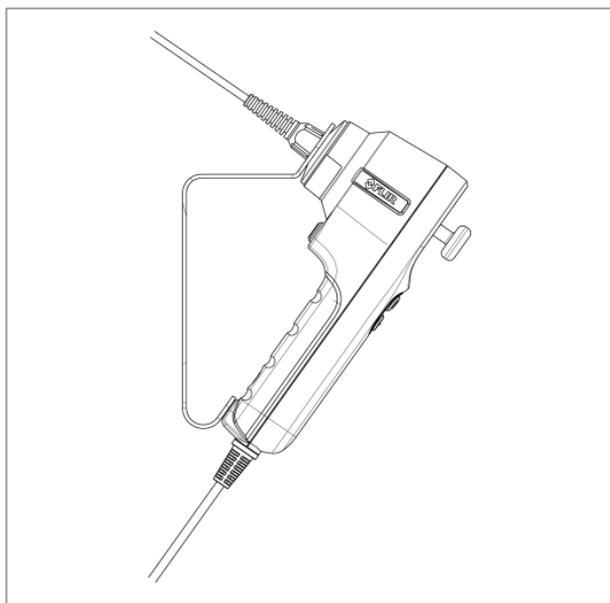




User Manual

Articulating Camera Probe

Model VS80A4HD-39-2RM

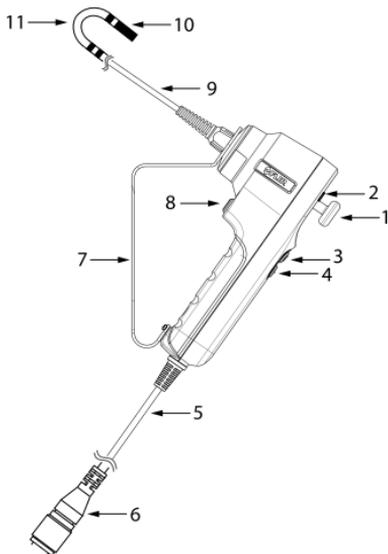


Introduction

Thank you for selecting the FLIR articulating probe. This probe is intended for use with the VS80 High Performance Videoscope. See the VS80 manual for complete instructions on image and video management, Wi-Fi connectivity, split-screen modes, and more. Obtain the VS80 user manual and additional translations of this user manual on the support site:

<https://support.flir.com>

Product Description



1. Joystick articulation control
2. Articulation locking switch
3. Increase brightness
4. Decrease brightness
5. VS80 connecting cable
6. VS80 connector
7. Control stabilizer base
8. Image and video capture button
9. Camera cable
10. Camera head
11. Articulating neck

Safety

Please read and understand all safety cautions before use.

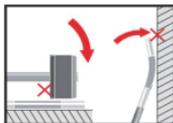
⚠ CAUTION!

Do not insert the probe into flammable liquid or gas.

This product is designed for industrial use only. It is not intended for use in human or other biological inspection.

Do not disassemble the product, damage to the product and electrical shock may occur.

Avoid direct sun exposure. Store in a cool, dry, and well-ventilated area.



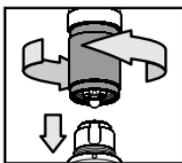
The probe contains sensitive circuitry that controls the optics and electronics of the camera. Do not strike the probe or allow it to impact objects forcefully.



The following liquids have been approved for submersion of the camera probe: Brake and transmission fluid, diesel fuel, unleaded gasoline, engine oil, and CPC hydraulic fluid (46AWS).

Connect the Probe to the VS80

Carefully connect the probe to the VS80 monitor as detailed below. Always switch the VS80 power off before connecting the probe.



1. Align the white dot on the probe connector with the white dot on the VS80 connector.
2. Plug the probe into the VS80, ensuring proper alignment and full insertion.
3. Tighten the collar nut to secure the connection. Do not overtighten.

Probe Controls

Articulation Joystick

Use the joystick (1) to move the probe neck, as shown in the illustration below. The thumb is typically used to move the joystick while the hand grips the control unit. If possible, mount the control stabilizer base (7) on a firm platform for greater control.

Move the probe slowly and carefully; stop moving in a specific direction if resistance is detected. Keep the probe as straight as possible and keep the probe neck at 0° articulation when moving into and out of an inspection area.



Articulation Lock

Move the locking switch (2) to the locked position to freeze the probe neck in place. Do not lock the probe neck at an angle when inserting or removing the probe from the inspection area, this can bind the probe in the inspection area.

Image Capture Button

Press the image capture button (8) to capture a camera image or to start/stop video recording (depending on selected VS80 mode).

Brightness Buttons

Short press brightness (+) button (3) to increase brightness. Short press brightness (-) button (4) to decrease brightness.

VS80 Controls

The VS80 offers touch-screen and physical control buttons that add more capabilities to the camera probe. Download the VS80 user manual from the FLIR support site for complete details.

Measurement Considerations

- Ensure that the camera lens cap is removed before use. Attach the lens cap when storing.
- After connecting the probe, verify that a clear camera image is displayed. If not, remove the probe and reattach it ensuring correct orientation and a tight seal.
- The control stabilizer base (7) can be used if there is a solid platform on which it can be mounted. This will make it easier, and safer, to control and manipulate the probe.
- Do not force the probe through an inspection area if resistance is detected.
- Use the VS80 to capture and manipulate still images and video, select camera views, control the worklights, and connect with smart devices.
- When the inspection is complete, remove the probe from the inspection area. To avoid binding, keep the probe straight and the articulation neck at a 0° angle.
- Coil the probe carefully, with as wide an arc as is possible, when storing.

Cleaning

To clean the probe, wipe with a soft cloth dampened with a mild detergent and clean water. Do not use abrasive detergents, corrosives (alcohol), or solvents to clean the probe. Use a high quality lens cleaning fluid and a lint-free swab to clean the camera and work-light lenses.

Specifications

Camera image resolution	1280 x 720 pixels
Media formats	Images: jpg; Video: mp4
Frame rate	30 frames per second (fps)
Probe head and probe body diameter	3.9 mm
Probe head length	0.67 in. (17 mm)
Probe length	4.9 ft. (1.5 m)
Articulation	Four-way articulation with 180° max. angle
Probe head material	Stainless steel
Probe body material	Stainless steel mesh
Worklights	Four (4) front-facing LED lamps
Field of View (FOV)	90°
Depth of Field (DOF)	0.4 to 4.0 in. (1 cm to 10 cm)
Operating temperature	14°F to 120°F (-10°C to 60°C)
Storage temperature	68°F (20°C) approximately, when storing > 30 days
Approved liquids for probe immersion	Brake and transmission fluid, diesel fuel, unleaded gasoline, engine oil, CPC hydraulic fluid (46AWS), and water.
Ingress protection (waterproof)	Probe tip and body: IP 67 (IEC 60529). Protected from submersion in water up to 3.3 ft. (1 m) for 30 mins. max.

Warranty and Support

Limited 3-Year Warranty

This product is protected by FLIR's Limited 3-Year Warranty. Visit www.flir.com/testwarranty to read the warranty document.

Customer Support

Customer Support Telephone List	https://support.flir.com/contact
Repair, Calibration, and Technical Support	https://support.flir.com

Website

<http://www.flir.com>

Customer support

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Publ. No.: NAS100223
Release: AB
Commit: 102647
Head: 102655
Language: en-US
Modified: 2025-02-25
Formatted: 2025-02-25

