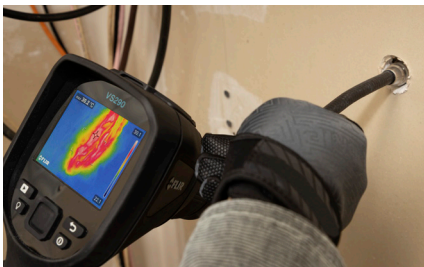


FLIR VS290™

THERMAL VIDEOSCOPE KITS WITH SPECIALTY PROBE OPTIONS

The FLIR VS290 is an industrial thermal and visual videoscope system designed to help professionals quickly and safely find hidden dangers in difficult-to-access locations. Featuring a 160 × 120 true thermal imager and FLIR MSX® (Multi-Spectral Dynamic Imaging)*, the VS290 gives users the power to see and measure invisible hot spots before catastrophic equipment failures can occur. Early detection improves safety and reliability and helps lower maintenance and replacement costs.

The small, sleek tips of the 2 m and 1 m camera probes make it possible to easily inspect through tight or confined openings, improving productivity and reducing diagnostic time. The side-viewing probe options are CAT IV 600 V safety rated – perfect for underground electrical vault inspections. The forward-viewing probe option is a practical fit for general purpose equipment and building thermal scans. All are versatile tools for the most demanding environments in utility, manufacturing, and building maintenance applications.



INSPECT DIFFICULT-TO-ACCESS AREAS SAFELY

Quickly find hidden faults without entering unsafe or hard-to-reach spaces

- Troubleshoot problems from a safe distance with the 160 × 120 true thermal imager
- Easily maneuver the narrow 2 m or 1 m field-replaceable camera probe to inspect underground electrical distribution faults, inside large gearboxes, motors, attics, crawl spaces, and other cramped locations
- Instantly recognize the location of a temperature issue with FLIR MSX that embosses scene details from the built-in visual camera onto the full thermal image*
- Navigate dark environments using the bright LED worklight*

IDENTIFY, DOCUMENT, AND SHARE

Improve workflow and communicate potential issues before they become major problems

- View findings clearly on the large 3.5-inch color display and use color alarms (isotherms) to quickly identify problems
- Save images and videos using the included SD memory card then upload to a PC via USB-C Cable
- Quickly create reports using FLIR Thermal Studio Suite software and share findings with team members to prioritize repairs

VERSATILE, RUGGED, AND RELIABLE

Use the VS290 system in the most demanding environments

- IP67 camera tips and IP54 base unit and probe provide a high level of protection against dust and water
- Easily replace or interchange the camera probe while in the field
- Conduct electrical inspections safely with CAT IV 600 V-rated VSC-IR32 and VSC-IR33 probes

Available Options



VSC-IR21 Probe
19 mm round forward viewing tip



VSC-IR32 Probe
11 mm rectangular side viewing tip†



VSC-IR33 Probe
19 mm round side viewing tip

* Visual camera, MSX, and worklight available on VSC-IR32 and VSC-IR33 probes only.
† Rectangular tip thinnest dimension

For more information, visit:
www.flir.com/VS290

www.teledyneflir.com

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SPECIFICATIONS

Imaging and optical data	
IR resolution	160 × 120 pixels
Digital image enhancement	Yes, MSX® on VSC-IR32 and VSC-IR33 probes only
Thermal sensitivity/NETD	<100 mK
IR Field of view (FOV)	57° × 44°
Minimum focus distance	0.15 m
Minimum focus distance with MSX	0.65 m (VSC-IR32 and VSC-IR33 only)
Image frequency	8.7 Hz
Focus	Fixed
Focal plane array/spectral range	Uncooled microbolometer/7.5–14 µm
Detector pitch	12 µm
Image presentation	
Display resolution	320 × 240 pixels
Screen size	3.5 in
Color palettes	Iron, Rainbow, Gray, Below alarm, Above alarm
Image modes	IR only, visual only, MSX (visual only and MSX available on VSC-IR32 and VSC-IR33 probes)
Gallery	Yes
Measurement and analysis	
Object temperature range	-10 to 400°C (14 to 752°F)
Measurement accuracy	At ambient temp. 15 to 35°C (59 to 95°F) and object temp. above 0°C (32°F) 0 to 100°C (32 to 212°F): ±3°C (±5.5°F) 100 to 400°C (212 to 752°F): ±3%
Spotmeter	1 in live mode
Emissivity correction	3 preset and 1 custom emissivity setting
Image storage and visual camera	
Storage capacity	Removable SD card (16 GB) - about 80,000 images
Image file format	Radiometric JPEG
Visual camera resolution	2 MP on VSC-IR32 and VSC-IR33 probes only
Visual camera field of view (FOV)	83° on VSC-IR32 and VSC-IR33 probes only
Worklight	Bright LED on VSC-IR32 and VSC-IR33 only
Data communication interface	
USB	USB Type-C: data transfer/power

Additional data	
Battery type	Rechargeable 3.7 V Li-ion
Battery operating time	>5 hours (full LCD brightness and worklight on)
Probe length (including tip)	VSC-IR21 Probe only: 111.5 cm (43.9 in) VSC-IR32 Probe only: 212.2 cm (83.5 in) VSC-IR33 Probe only: 211.9 cm (83.5 in)
Probe tip shape – forward view Probe tip shape – side view Probe tip shape – side view	VSC-IR21 – round 19 mm diameter VSC-IR32 – rectangular 11 mm (thinnest dimension) VSC-IR33 – round 19 mm diameter
Weight of kits (including two batteries)	Complete VS290-21 kit with case: 4.8 kg (10.58 lb) Complete VS290-32 and VS290-33 kit with case: 13.0 kg (26.46 lb)
Weight of individual components	Videoscope Display Only: 640 g (1.41 lb) VSC-IR21 Probe Only: 490 g (1.08 lb) VSC-IR32 Probe Only: 470 g (1.04 lb) VSC-IR33 Probe Only: 470 g (1.04 lb)
Size of kits and videoscope (L × W × H)	Complete VS290-21 kit with case: 53 × 33 × 16.5 cm (20.87 × 12.99 × 6.5 in) Complete VS290-32 and VS290-33 kit with case: 118 × 45 × 16 cm (46.46 × 17.72 × 6.3 in) Videoscope display only: 26.4 × 11 × 11 cm (10.4 × 4.3 × 4.3 in)
Box contents	
Kits include videoscope display, thermal camera probe, two rechargeable batteries, battery charger, SD card, USB cable, wrist strap, hard case, printed documents	
Complete Kits	
VS290-21	Thermal Videoscope Kit with 19 mm Diameter Round Tip Forward View Camera Probe
VS290-32	Thermal MSX® Videoscope Kit with CAT IV 11 mm Rectangular Tip Side View Camera Probe
VS290-33	Thermal MSX® Videoscope Kit with CAT IV 19 mm Diameter Round Tip Side View Camera Probe
Individual Components -- available as extra probes and/or spare videoscope displays	
VSC-IR21	Thermal Camera Probe with 19 mm Diameter Round Tip (Forward View)
VSC-IR32	Thermal MSX® Camera Probe with 11 mm Rectangular Tip (Side View)
VSC-IR33	Thermal MSX® Camera Probe with 19 mm Diameter Round Tip (Side View)
VS290-00	Videoscope Display for VS290 Series

Specifications are subject to change without notice. For the most up-to-date specifications, visit www.teledyneflir.com.

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