



THERMAL MSX® VIDEOSCOPE KIT WITH RECTANGULAR PROBE TIP

FLIR VS290-32™

The FLIR VS290-32 is an industrial thermal and visual videoscope designed to help professionals quickly and safely find hidden dangers in difficult-to-access locations, especially underground electrical distribution vaults. Featuring a 160 × 120 true thermal imager and FLIR MSX® (Multi-Spectral Dynamic Imaging), the VS290-32 enables users to catch hot spots before a failure occurs to maintain uptime. The 2 m camera probe makes it possible to easily inspect through small openings – improving productivity and reducing diagnostic time. Plus, the CAT IV 600 V safety rating makes the VS290-32 a rugged and versatile tool for the most demanding environments in utility, manufacturing, and building maintenance applications.

www.flir.com/VS290-32



INSPECT INACCESSIBLE AREAS SAFELY

Quickly find hidden faults without entering difficult-to-access locations and other hard-to-reach spaces

- Troubleshoot problems from a safe distance with the 160 × 120 true thermal imager and 2 MP visual camera
- Easily maneuver the narrow 2 m field-replaceable camera probe to inspect underground electrical distribution vaults, inside large gearboxes, motors, attics, crawl spaces, and other industrial applications
- Instantly recognize the location of a temperature issue with FLIR MSX, which extracts scene details from the built-in visual camera and embosses them onto the full thermal image



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 areas of concern
- Save images and videos using the included SD memory card, and upload to a PC via USB-C Cable
- Quickly create and share reports with team members to prioritize repairs using FLIR Thermal Studio



VERSATILE, RUGGED, AND RELIABLE

Use the VS290-32 in the most demanding environments

- Provides a high level of protection against dust and water (IP67 rated camera tip, IP54 rated base unit and probe)
- Easily replace the camera probe while in the field
- Conduct electrical inspections safely (CAT IV 600 V rated)

SPECIFICATIONS

Imaging and optical data	
IR resolution	160 × 120 pixels
Digital image enhancement	Yes, MSX®
Thermal sensitivity/NETD	<100 mK
IR Field of view (FOV)	57° × 44°
Minimum focus distance	0.15 m
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
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
Measurement presets	No measurement, center spot, hot spot, cold spot
Emissivity correction	3 pre-set and 1 custom emissivity setting

Image storage and visual camera	
Storage capacity	Removable SD card (16 GB)
Image file format	Radiometric JPEG
Visual camera resolution	2 MP
Visual camera field of view (FOV)	83°
Worklight	Bright LED
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	2 m (6.6 ft)
Probe tip shape	Rectangular (side-viewing camera)
Weight (including battery)	Complete kit with case: 13 kg (28.66 lb) Display: 640 g (1.41 lb) Probe: 470 g (1.04 lb)
Size (L × W × H)	Complete kit with case: 120 × 48 × 20 cm (47 × 18.90 × 7.87 in) Display: 26.4 × 11 × 11 cm (10.4 × 4.3 × 4.3 in) Probe: 212.2 × 0.69 cm (83.5 × 0.3 in) Probe tip: 74.16 × 40.52 × 11 mm (2.9 × 1.6 × 0.4 in)
Box contents	
Videoscope display (VS290-00), thermal MSX camera probe (VSC-IR32), two rechargeable batteries (T199330ACC), battery charger (T199425ACC), power supply for battery charger (T911633ACC), SD card, USB cable (T911631ACC), wrist strap, hard case, printed documents	

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