



## 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.



### 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	



The World's Sixth Sense®