

## Technical Specifications required for SF 6 Gas Find Camera required in NEG.

IR Resolution	320 × 240 pixels
Thermal Sensitivity/NETD	15 mK at 30°C (86°F)
Detector Type	Focal plane array (FPA), cooled QWIP
Spectral Range	10.3 μm to 10.7 μm
Detector Pitch	30 μm
Sensor Cooling	Stirling Microcooler (FLIR MC-3)
Gas Sensitivity	SF <sub>6</sub> : <0.3 ppm x m (ΔT = 10°C, Distance = 1 m)
Digital Image Enhancement	High sensitivity mode (HSM), noise reduction filter
Available Lenses	24° × 18° (23 mm); 14.5° × 10.8° (38 mm); 6° × 4.5° (92 mm)
F-Number	1.59
Focus	Autofocus, Manual focus
Display	4", 640 × 480 pixel rotatable, touchscreen LCD
Viewfinder	Built-in, tiltable OLED, 800 × 480 pixels
Image Presentation Modes	IR image, visual image, high sensitivity mode (HSM)
Color Palettes	Arctic, White hot, Black hot, Iron, Lava, Rainbow, Rainbow HC
Zoom	1–8x continuous, digital zoom
Laser Pointer	Class 2
Measurement Temperature Range	-40°C to 500°C (-40°F to 932°F)
Accuracy	±1°C (±1.8°F) for temperature range (0°C, to 100°C, 32°F to 212°F) or ±2% of reading for temperature range (>100°C, >212°F)
Image Analysis	10 spots, 5 boxes with max/min/average, 1 line (horizontal or vertical), measurement corrections
Voice	60 seconds with Bluetooth on still images and video
Text	Text from predefined list or soft keyboard on touchscreen
Image Sketch	Yes: on infrared only
FLIR Inspection Route	Enabled in the camera
MultiREC Recording	Record multiple files automatically in customizable order
GPS	Location data automatically added to every still image; first frame in video from built-in GPS; data logging feature
Compass	Yes
Cloud Services (via Wi-fi)	FLIR Ignite for direct, secure image uploading, organizing, storage, and sharing (required firmware available)
Storage Media	Removable SD card
Image File Formats	Standard JPEG, measurement data included. Infrared-only mode.
Communication Interfaces	USB 2.0, Bluetooth via headset, Wi-Fi, HDMI
Video Out	HDMI; DVI
Radiometric IR Video Recording	RTRR (.csq)
Non-Radiometric IR or Visual Video	H.264 to memory card
Radiometric IR Video Streaming	Over UVC
Non-Radiometric IR Video Streaming	H.264 (AVC) or MPEG4 over RTSP (Wi-Fi); MJPEG over UVC and RTSP (Wi-Fi)
Visual Recording	H.264 to memory card

Operating Temperature Range	-20°C to 50°C (-4°F to 122°F)
Storage Temperature Range	-30°C to 60°C (-22°F to 140°F)
Encapsulation	IP54 (IEC 60529)
Shock	25 g (IEC 60068-2-27)
Vibration	2 g (IEC 60068-2-6)

Battery Type	Rechargeable Li-ion battery; 7.4 V, charged in camera or separate 2-bay charger
Battery Operating Time	>2.5 hours at 25°C (68°F) and typical use
Battery Charging Time	2.5 hours to 95% capacity, charging status indicated by LEDs
Camera Size	251.6 mm x 164.5 mm x 170.9 mm (9.9 in x 6.48 in x 6.73 in)
Camera Weight	3 kg (6.18 lb)
Mounting Interfaces	UNC ¼"-20

Box Contents Packaging	Infrared camera with lens, battery: 2 pcs., battery charger, power supply including multi-plugs, hand strap, neck strap, lens cap, lens cap strap, memory card, HDMI-HDMI cable, USB cable, screwdriver TX20, printed documentation, and hard transport case
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