

DESCRIPTION	TENDER SPECIFICATION
<b>TECHNICAL SPECIFICATIONS</b>	
<b>Imaging and optical data</b>	
IR resolution	320 × 240 pixels
Thermal sensitivity/NETD	< 45 mK @ +30°C (+86°F)
Field of view (FOV) / Minimum focus distance	25° × 19° / 0.4 m (1.31 ft.)
Spatial resolution (IFOV)	1.39 mrad or less
Image frequency	60 Hz
Focus	Automatic (one shot) or manual
Zoom	1–4× continuous, digital zoom, including panning
Focal Plane Array (FPA) / Spectral range	Un-cooled micro bolometer / 7.5–13 μm
<b>Image presentation</b>	
Display	Touch screen, 3.5 in. LCD, 320 × 240 pixels
Image modes	IR image, visual image, thermal fusion, picture in picture, Thumbnail gallery
Thermal fusion	IR image shown above, below or within temp interval on visual image
Multi Spectral Dynamic Imaging (MSX)	IR-image with enhanced detail presentation
Picture in Picture	Scalable IR area on visual image
<b>Measurement</b>	
Object temperature range	–20°C to +100°C (–4°F to +248°F) 0°C to +350°C (+32°F to +662°F)
Accuracy	±2°C (±3.6°F) or ±2% of reading, for ambient temperature 10°C to 35°C (+50°F to 95°F)
<b>Measurement analysis</b>	
Spot meter	5
Area	5 boxes with max./min./average
Automatic hot/cold detection	Auto hot or cold spot meter markers within area
Isotherm	Detect high/low temperature/interval
Difference temperature	Delta temperature between measurement functions or reference temperature
Emissivity correction	Variable from 0.01 to 1.0 or selected from materials list
External optics/windows correction	Automatic, based on inputs of optics/window transmission and temperature
Measurement corrections	Reflected temperature, optics transmission and atmospheric
Measurement function alarm	Audible/visual alarms (above/below) on any selected
Humidity alarm	1 humidity alarm, including dew point alarm
Insulation alarm	1 insulation alarm
Set-up	Color palettes Arctic, Gray, Iron, Lava, Rainbow and Rainbow HC Set-up commands User programmable button, local adaptation of units, language, date and time formats
Storage of images	Image storage Standard JPEG, including measurement data, on memory card
	Image storage mode IR/visual images; simultaneous storage of IR and visual images
	Periodic image storage 7 seconds to 24 hours (IR)

	Min. 14 seconds to at least 24 hours (IR and visual)
Image annotations	Text from predefined list or soft keyboard on touch screen Sketch From touch screen Image sketch On IR and visual image Report generation • Instant Report (*.pdf file) in camera including IR and visual images • Separate PC software with extensive report generation Compass Camera direction automatically added to every image
Video recording in camera and video streaming	Non-radiometric IR-video recording MPEG-4 to memory card Radiometric IR-video streaming Full dynamic to PC using USB Non-radiometric IR-video streaming uncompressed colorized video using USB
Digital camera	Built-in digital camera 3.1 Mpixel (2048 × 1536 pixels), and one LED light Digital camera, FOV Adapts to the IR lens Built-in digital lens data FOV 53° × 41°
Laser pointer	Laser Activated by dedicated button Laser alignment Position is automatic displayed on the IR image
Data communication interfaces	Interfaces USB-mini, USB-A, composite video USB • USB-A: Connect external USB device • USB Mini-B: Data transfer to and from PC / Uncompressed colorized video
Power system	Battery Li Ion, minimum 4 hours operating time Charging system In camera (AC adapter or 12 V from a vehicle) or 2-bay Charger Power management Automatic shutdown and sleep mode (user selectable)
Environmental data	Operating temperature range –15°C to +50°C (+5°F to +122°F) Storage temperature range –40°C to +70°C (–40°F to +158°F) Humidity (operating and storage) IEC 60068-2-30/24 h 95% relative humidity +25°C to +40°C (+77°F to +104°F) / 2 cycles EMC • EN 61000-6-2 (Immunity) • EN 61000-6-3 (Emission) • FCC 47 CFR Part 15 B (Emission) Encapsulation IP 54 (IEC 60529) Bump 25 g (IEC 60068-2-29) Vibration 2 g (IEC 60068-2-6) Safety EN/UL/CSA/PSE 60950-1
Physical data	Camera weight, incl. battery 0.880 kg (1.94 lb.) Camera size (L × W × H) 106 × 201 × 125 mm (4.2 × 7.9 × 4.9 in.), with built-in lens pointing forward Tripod mounting UNC ¼"-20 (adapter needed)
Warranty Conditions	*2+8 Years Manufacturer Warranty *2 year on full product and 8 years on Detector.