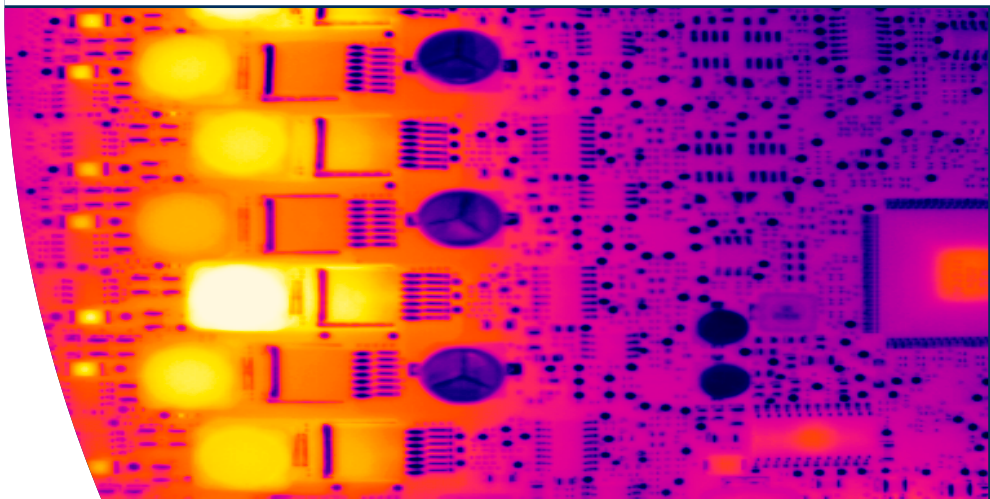




PI 640

The smallest measuring
VGA infrared camera worldwide

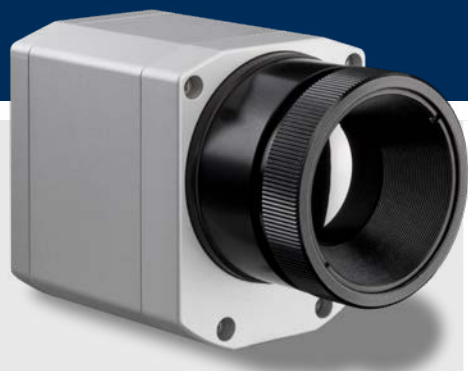
innovative infrared technology



optris® PI 640

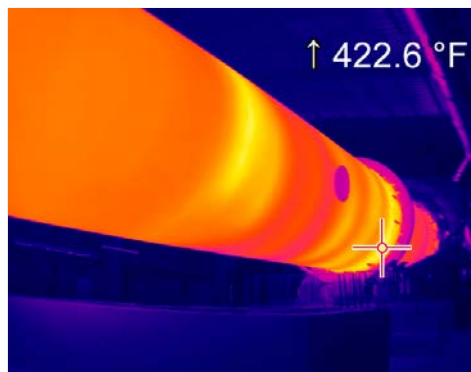
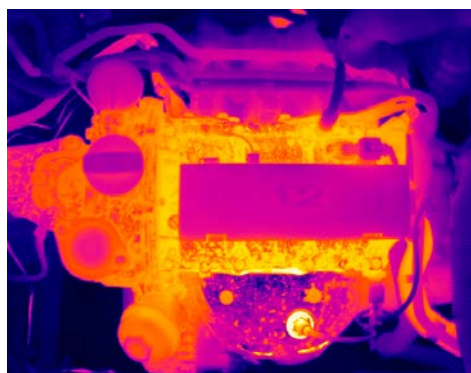
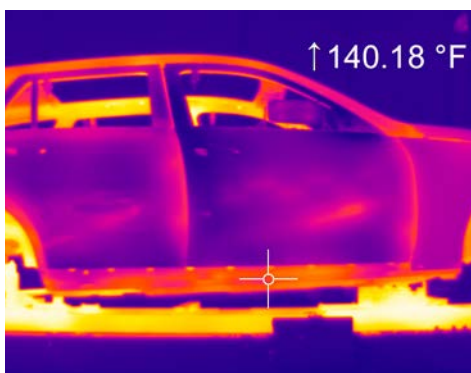
TECHNICAL DATA

Thermography in VGA resolution



Features:

- 640 x 480 pixel
- Radiometric video recording with 32 Hz
- Licence-free analysis software and complete SDK inclusive



Type	PI 640
Optical resolution	640 x 480 pixel
Detector	FPA, uncooled (17 µm x 17 µm)
Spectral range	7.5 – 13 µm
Temperature ranges	-20 ... 100 °C (-4 ... 212 °F) 0 ... 250 °C (32 ... 482 °F) 150 ... 900 °C (302 ... 1652 °F)
Frame rate	32 Hz / 125 Hz @ 640 x 120 pixels
Optics (FOV)	15° x 11° FOV / f=41.5 mm (f=1.6 in) or 33° x 25° FOV / f = 18.7 mm (f=0.7 in) or 60° x 45° FOV / f = 10.5 mm (f=0.4 in) or 90° x 66° FOV / f = 7.7 mm (f=0.3 in)
Thermal sensitivity (NETD)	75 mK
Accuracy	±2 °C or ±2 % (±3.6 °F or ±2 %), whichever is greater
PC interface	USB 2.0
Process interface (PIF), standard	0 – 10 V input, digital input (max. 24 V), 0 – 10 V output
Process interface (PIF), industrial	2x 0 – 10 V input, digital input (max. 24 V), 3x 0 – 10 V output, 3x relay (0 – 30 V / 400 mA), fail-safe relay
Cable length (USB)	1 m (3.3 ft) (standard), 5 m (16.4 ft), 10 m (32.8 ft) 5 m (16.4 ft) and 10 m (32.8 ft) also as HT cable (180 °C [356 °F])
Ambient temperature	0 °C to 50 °C (32 °F to 122 °F)
Storage temperature	-40 ... 70 °C (-40 ... 158 °F)
Relative humidity	20 – 80 %, non-condensing
Enclosure (size / rating)	46 mm x 56 mm x 90 mm (1.8 in x 2.2 in x 3.5 in) / IP 67 (NEMA 4)
Weight	320 g (11.3 oz), incl. lens
Shock ¹⁾	IEC 60068-2-27 (25 G and 50 G)
Vibration ¹⁾	• IEC 60068-2-6 (sinusoidal form) • IEC 60068-2-64 (broadband noise)
Tripod mount	¼ - 20 UNC
Power supply	USB powered
Scope of supply	• USB camera with 1 lens • USB cable (1 m [3.3 ft]) • Table tripod • Standard PIF with cable (1 m [3.3 ft]) and terminal block • Software package optris® PI Connect • Hard transport case

¹⁾ For more details see operator's manual