optris PI 640i Microscope optics

TECHNICAL DATA

optris infrared measurements

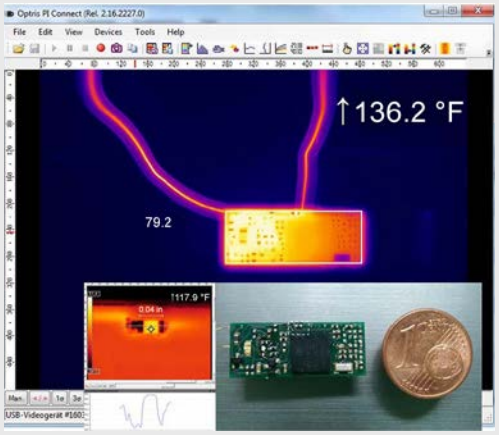
Microscope optics for the inspection of electronic boards

Features:

- Exchangeable, focusable optics for most flexible use of the camera
- Analysis of small chip level components down to 28 µm
- Hands-free operation for simultaneous testing and IR imaging
- Frame rates up to 125 Hz allow inspection of fast processes (like pulsed laser diodes)
- Radiometric video or tiff recording with +/-2 °C measurement accuracy
- License-free analysis software and complete SDK included







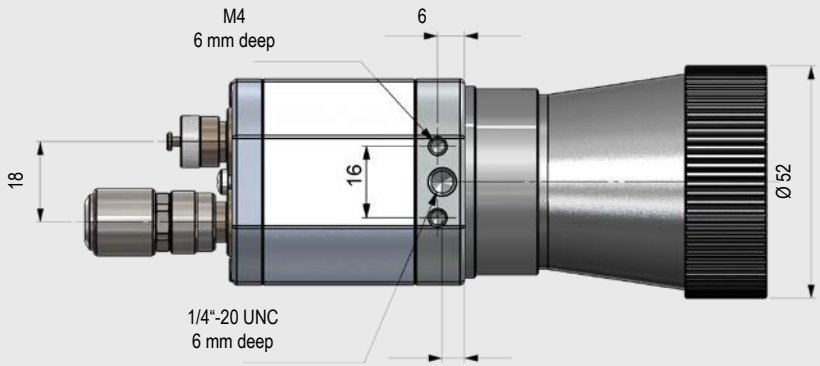


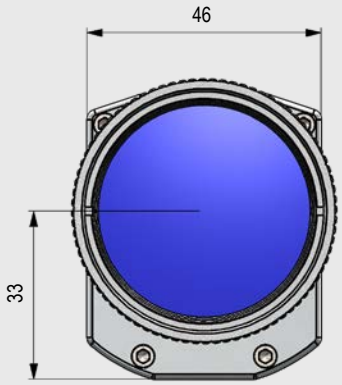
Typ	Specification
Temperature range (scalable)	–20 ... 100 °C, 0 ... 250 °C, (20)150 ... 900 °C[1]
Detector	FPA, 640 x 480 pixels @ 32 Hz 640 x 120 pixels @ 125 Hz
Spectral range	8 – 14 µm
Microscope optics (FOV)	12° x 9° (F=1.1) / f= 44 mm
Minimum spot size (IFOV)	28 µm
MFOV	85 µm[2]
Working distance	80 – 100 mm
System accuracy	±2 °C or ±2 %, whichever is greater
Temperature resolution (NETD)	80 mK
PC interface	USB 2.0
Standard process interface (PIF)	0–10 V input, digital input (max. 24 V), 0–10 V output
Industrial process interface (IPIF)	2x 0–10 V inputs, digital input (max. 24 V), 3x 0/4 – 20 mA outputs, 3x relays (0–30 V / 400 mA), fail-safe relay
Cable length (USB)	1 m (standard), 3 m, 5 m, 10 m, 20 m
Ambient temperature	0 ... 50 °C
Storage temperature	–40 ... 70 °C
Relative humidity	20–80 %, non condensing
Enclosing[3] (size / rating)	46 x 56 x 119 - 126 mm (depending on focus position) / IP 67 (NEMA 4)
Weight	370 g, incl. lense
Shock/Vibration[3]	IEC 60068-2-27 (25G and 50G) / IEC 60068-2-6 (sinus shaped), IEC 60068-2-64 (broadband noise)
Tripod mount	1/4 – 20 UNC
Power supply	via USB
Emissivity	0.100 ... 1.100
Software	optris PIX Connect / Windows and Linux SDKs
Scope of supply (PI camera + Microscope accessory kit)	• PI camera (PI 640i) • Microscope optics (MO44) • Standard USB cable (1 m) • Manual PI camera • Rugged outdoor transport case • Software package optris PIX Connect on USB flash drive • Microscope stand • Standard PIF

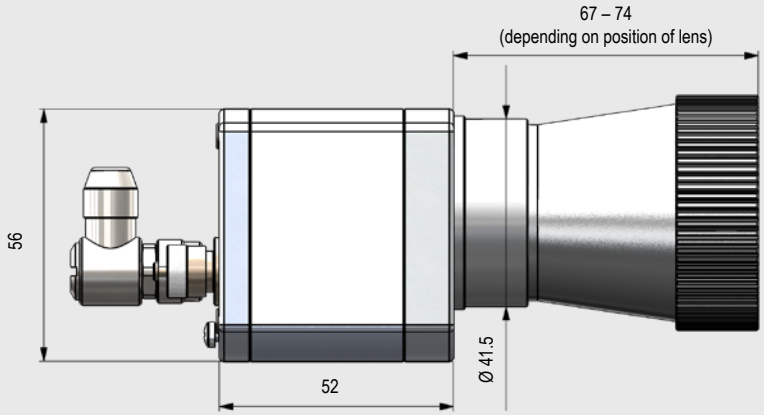
[1] Accuracy statement effective from 150 °C

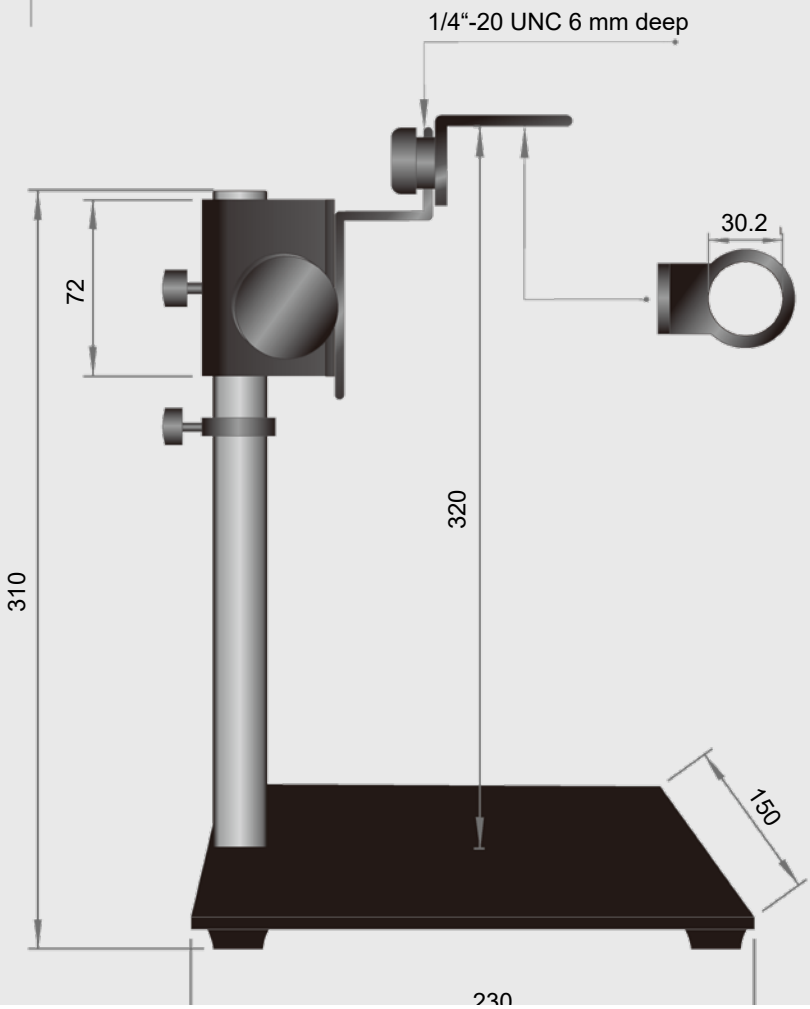
1.888.610.7664 www.calcert.com sales@calcert.com

Dimensions in mm









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