

More Precision.



optris® PI

Thermal Imager with USB 2.0 Interface
for online applications



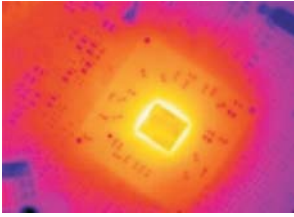
FEATURES

- High accuracy within temperature ranges of -20°C up to 900°C
- Easy to use - small size
- Excellent thermal sensitivity (NETD) of 0,08 K
- Exchangeable lenses with 9° FOV and 31° FOV
- Real-time thermography with 100 Hz frame rate
- USB 2.0 interface, USB powered device
- 1 m, 5m or 20 m cable length
- Windows XP / Vista - Software PI Connect
- Analog input and output, trigger interface
- Extremely lightweight (250 g) and rugged (IP65)
- Size 45 mm x 45 mm x 62 mm

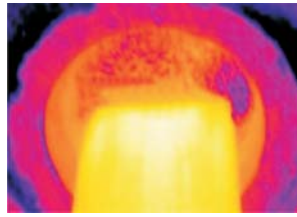
General specifications	
Environmental rating	IP 65
Ambient temperature	-15 - 50°C
Storage temperature	-40 - 70°C
Relative humidity	20 - 80 %, non condensing
Shock	25G, IEC 68-2-29
Vibration	2G, IEC 68-2-6
Weight	250 g, incl. Lens
Electrical specifications	
Output	USB 2.0
Power supply	USB powered
Process Interface (electrically isolated)	0-10 V output 0-10 V input trigger input
Tripod mount	1/4-20 UNC

Measurement specifications	
Temperature ranges	-20°C to 100°C 0°C to 250°C 150°C to 900°C (optional)
Detector	Focal Plane Array (FPA) uncooled micro bolometer 35 x 35 μm²
Thermal Sensitivity (NETD)	0,08 K with 31° FOV/F=0.7 0,3 K with 9° FOV/F=1.6
Spectral range	7,5 - 13 μm
Optical resolution	160 x 120 pixel
System accuracy	±2 % or ±2°C
Resolution (Display)	0,1°C
Lenses	31° /f = 10 mm 9° /f = 36 mm
Measurement Modes	Flexible spot with crosshair marking, fixed measurement field with automatic display of maximum-, minimum- or average value
Color Palettes	Iron, rainbow, black-white, black-white inverted
Set up controls (via menu)	Mesurement modes, full automatic, manual, color palettes, emissivity, file management, date/time, °C/ °F, language
Emissivity	0,10 - 1,00 adjustable

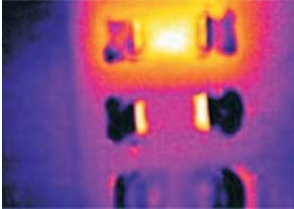
Applications



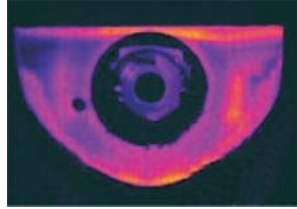
R&D electronic



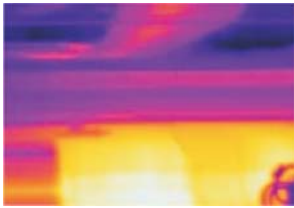
Process control extrusion



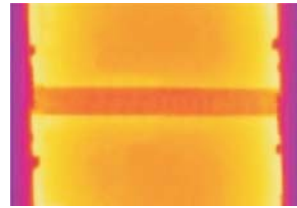
R&D electronic devices



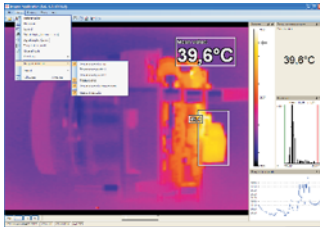
R&D mechanical components



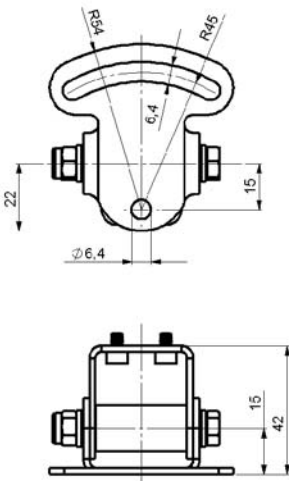
Process control calendaring



Production of solar panels



- Display of the thermal image in real time (100 Hz) with recording function (video, snap shot)
- Complete set up of parameters and remote control of the camera
- Detailed analysis of fast thermodynamic processes



Mounting base with protective housing



Standard Scope of Supply

- PI process camera incl. one selected lens
- Tripod mount
- Rugged transport case
- Manual
- USB cable
- Software PI Connect: processing and analyzing thermal images

Dimensions

