Xi 400
Spot finder IR camera
when temperature matters
Compact spot finder
IR camera

Features:

• Industrial imager with 382 x 288 pixels for exact temperature measurement of -20 °C ... 900 °C
• Small sized rugged camera with motorized focus
• Superb distance-to-spot-size ratio up to 390:1 with sighting capabilities
• 80 Hz frame rate for monitoring of fast thermal processes
• Extensive ready-to-use package for an attractive price – including versatile image processing software with line-scan feature and connection cables

Technical Specifications

Optical resolution 382 x 288 pixels
Detector FPA, uncooled (17 µm pitch)
Spectral range 8 – 14 µm
Temperature ranges –20 ... 100 °C, 0 ... 250 °C, (20) 150 ... 900 °C
Frame rate 80 Hz / 27 Hz
Optics (FOV) 18° x 14° (f = 20), 29° x 22° (f = 12.7), 53° x 38° (f = 7.7), 80° x 54° (f = 5.7)
Microscope lens (FOV) 18° x 14° (f = 20), smallest measuring spot (MFOV): 240 µm
Focus Manual motor focus
Optical resolution (D:S) 390:1 (18° optics)
Thermal sensitivity (NETD) 80 mK
Accuracy ±2 °C or ±2 %, whichever is greater
PC interface USB 2.0 / optional USB to GigE (PoE) conversion
Process interface (PIF), standard 0–10 V input, digital input (max. 24 V), 0–10 V output
Process interface (PIF), industrial 2 x 0–10 V inputs, digital input (max. 24 V), 3x 0/4-20 mA outputs, 3 x relay (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 °C ... 50 °C
Enclosure (size / rating) Ø 36 mm x 100 mm (M30x1 thread) / IP 67 (NEMA 4)
Weight (without mounting bracket) 216 - 220 g, depending on lens
Shock2) / Vibration2) IEC 60068-2-27 (25G and 50G) / IEC 60068-2-6 (sinus shaped), IEC 60068-2-64 (broadband noise)
Power supply USB
Scope of supply • Process imager Xi
• USB cable (1 m)
• Standard PIF cable (1 m) incl. terminal block
• Mounting bracket with tripod thread, mounting nut
• Software package optris PIX Connect

xi400 microscope optics lens kit

1) Accuracy statement effective from 150 °C
2) For more details see operator’s manual

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