

# Temperaturmanagement



## IR S400

### TECHNICAL DATA

#### 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 mit motorized focus
- Suberb 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	7.5 – 13 µm
Temperature ranges	-20 °C ... 100 °C, 0 °C ... 250 °C, (20) 150 °C ... 900 °C <sup>1)</sup>
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)
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), 3 x 0–10 V outputs, 3 x relay (0–30 V / 400 mA), faile-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	200 g
Shock <sup>2)</sup>	IEC 60068-2-27 (25 G and 50 G)
Vibration <sup>2)</sup>	• IEC 60068-2-6 (sinus shaped) • IEC 60068-2-64 (broadband noise)
Power supply	USB
Scope of supply	• Process imager S • USB cable (1 m) • Standard PIF cable (1 m) incl. terminal block • Mounting bracket with nut • Software package IR Connect

<sup>1)</sup> Accuracy statement effective from 150 °C

<sup>2)</sup> For more details see operator's manual