

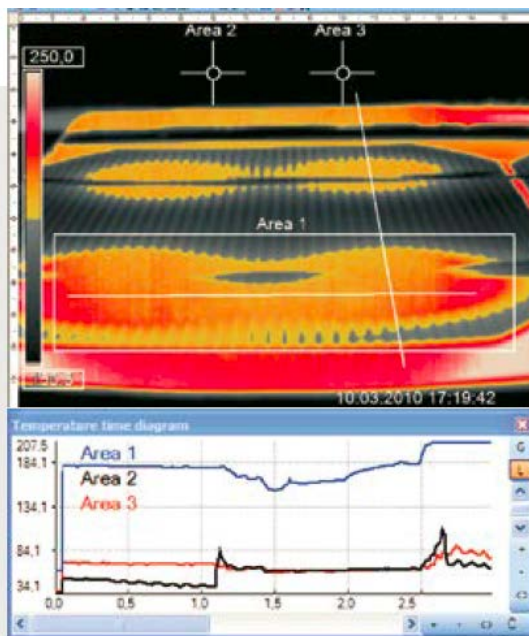
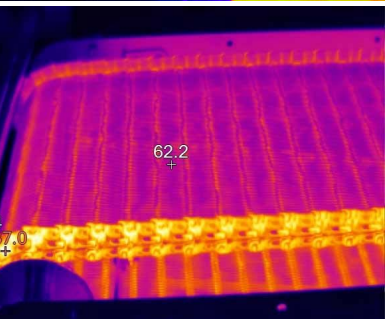
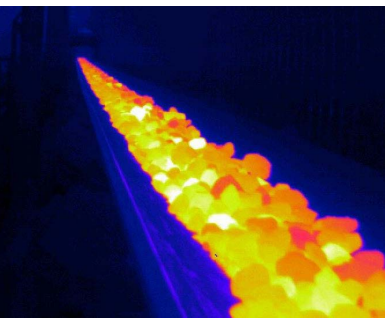


Industrial Infrared Thermal Imaging

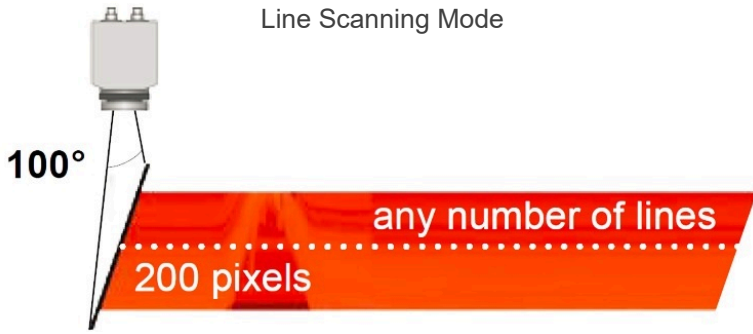


OTi 80

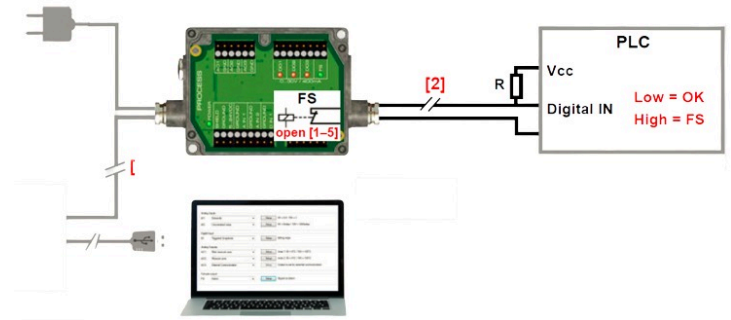
- Coveyour Width Thermal Imaging
- Refractor Hot Spot Monitoring
- Line Scanner Mode
- Conveyor Hot Spot Monitoring
- Motorized Zoom
- Various Lens Option For Larger or Narrower Area Thermal Imaging
- Advanced Professional Monitoring and Thermal Mapping Software
- Analog Input and Outputs



Line Scanning Mode



Analog and Digital Outputs and Trigger Inputs



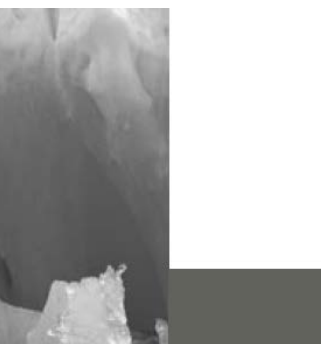
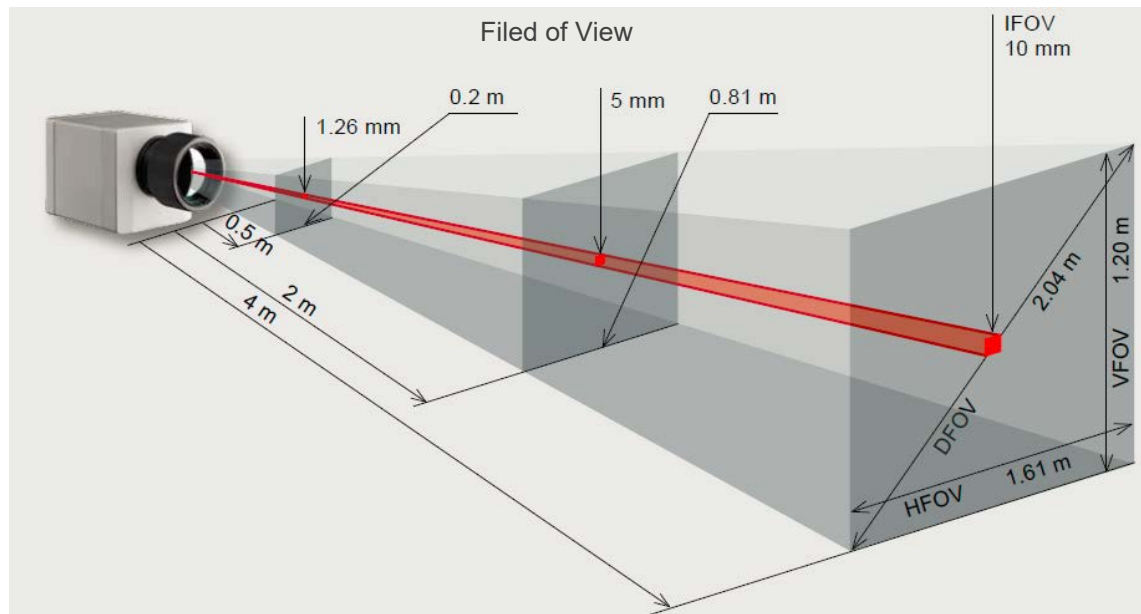
Compact SS316 Body With Motorised Zoom



High Temperature Cooling Jackets
Lens Purging
Lens Protection Windows



Additional I/O Modules



Technical details of Raytek OTi 80

Scope of supply:

- Process imager Xi
- USB cable (1 m)
- Standard PIF cable (1 m) incl. terminal block
- Mounting bracket with nut
- Software package Raytek Infrared Connect

Thermal Specifications

Detector	: FPA, uncooled (17 µm pitch)
Number of Thermal Detectors (Pixels)	: 80 x 80 pixels
Spectral range	: 8 - 14 µm
Thermal sensitivity (NETD)	: 80 mK
Temperature range (scalable via programming keys keys or software)	: -20 °C ... 100 °C (-4 ... 212 °F) 0 °C ... 250 °C (32 ... 482 °F) 150 °C ... 900 °C (302 ... 1652 °F)

Frame rate : 50 Hz

Optical Specifications

Optics	: (please click on bellow link to get field of view, minimum spot (IFOV) which can be detected, minimum spot (MFOV) which can be accurately measured https://stek.in/field-of-view-calculator
	12° x 12° (f = 1.0)
	30° x 30° (f = 0.9)
	55° x 55° (f = 0.9)
	80° x 80° (f = 0.9)

Macro optics	: NA
Distance-to-spot ratio	: 190:1 (12° optics)
System accuracy (at ambient temperature 23 ± 5°C)	: ±2 °C or ±2 % (±4 °F or ±2 %), whichever is greater

PC Interface, Outputs And Inputs

PC interface	: USB 2.0 / optional USB to GigE (PoE) conversion
Process interface (PIF)	
Standard PIF	: 0–10 V input, digital input (max. 24 V), 0–10 V output
Industrial PIF	: 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), Optional: 3 m (9.8 ft), 5 m (16.4 ft), 10 m (32.8 ft), 20 m (65.6 ft)

General Specifications

Ambient temperature (T _{Amb})	: 0°C...50°C (32 °F to 122 °F)
Relative humidity	: 10 - 95 %, non-condensing
Enclosure (size / rating)	: Ø 36 mm x 100 mm (Ø 1.42 in x 3.9 in) (M30x1 thread) / IP 67 (NEMA 4)
Weight (without mounting bracket)	: 216 - 220 g, (7.6 - 7.7 oz) depending on lens
Shock	: IEC 60068-2-27 (25 G and 50 G)
Vibration	: • IEC 60068-2-6 (sinus shaped) • IEC 60068-2-64 (broadband noise)
Tripod mount	: 1/4-20 UNC
Power supply	: USB powered
1) Accuracy statement effective from 150 °C	

