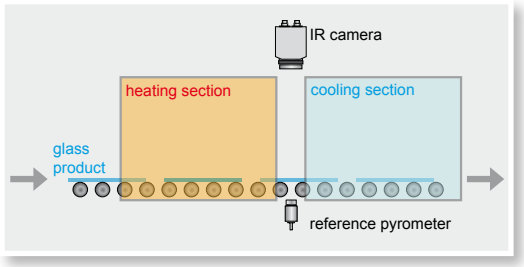
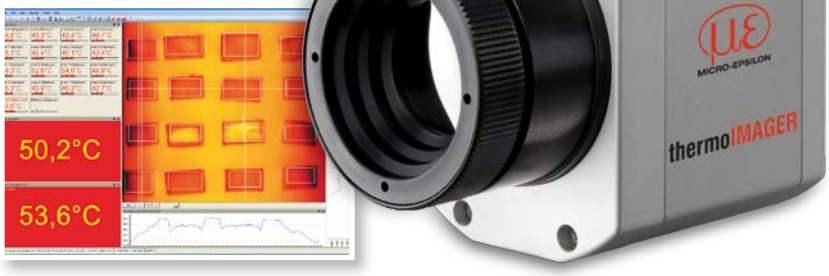
thermoIMAGER TIM G7

Thermal imager with line scan feature for glass industry

- ➔ Line scan feature via license-free analysis software
- ➔ Compact size of 46 x 56 x 90mm
- ➔ Frame rate of 80Hz
- ➔ Robust against ambient temperatures up to 70°C without additional cooling, up to 240°C with cooling jacket
- ➔ Optional integration of a reference pyrometer for glass with reflection coating





Model	TIM G7
Optical resolution	382 x 288 pixel
Detector	FPA, uncooled (17µm x 17µm)
Spectral range	7.9µm
Temperature ranges	200 ... 1500°C
Frame rate	switchable 80Hz or 27Hz
Lens (FOV)	38° x 29° (f = 15mm) 62° x 49° (f = 8mm)
Thermal sensitivity (NETD) T_{Obj} = 650 °C	130mK
System accuracy	±2°C or ±2%, whichever is greater
PC interface	USB 2.0
Process interface (PIF), standard	0-10V input, digital input (max. 24V), 0-10V output
Process interface (PIF), industrial	2x 0-10V inputs, digital input (max. 24V), 3x 0-10V outputs, 3x relay (0-30V/ 400mA), fail safe relay
Cable length (USB)	1m (Standard), 5m, 10m 5m and 10m also as high temperature USB cable (180°C)
Ambient temperature	0 ... 70°C
Storage temperature	-40 ... 85°C
Relative humidity	20 to 80%, non-condensing
Housing — Dimensions	46mm x 56mm x 90mm
Housing — Protection class	IP 67 (NEMA 4)
Weight	320g, incl. lens
Shock [1]	IEC 60068-2-27 (25g and 50g)
Vibration [1]	IEC 60068-2-6 (sinus-shaped) / IEC 60068-2-64 (broadband noise)
Tripod mount	¼-20 UNC
Power supply	USB powered
Scope of supply (standard)	TIM process camera including one selected lens, USB cable (1m), Table tripod, PIF cable (1m) incl. terminal block, Processing and analysing software, Aluminium case

[1] for more details see operators manual

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certified DIN EN ISO 9001 : 2008
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