TGBF1L

TECHNICAL DATA

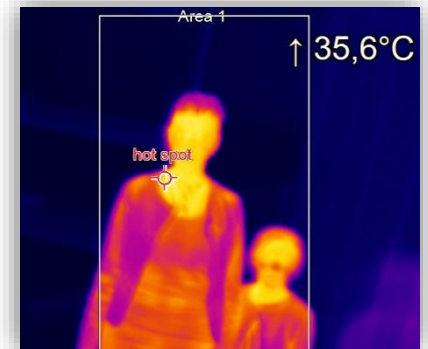**GRUPPO PEDERCINI**
HEALTHCARE DIVISION

Features:

- Industrial imager with 80 x 80 pixels for exact temperature measurement of -20 °C to 900 °C

- Small sized rugged camera with motorized focus

- Superb distance-to-spot-size ratio up to 190:1 with sighting capabilities

- Autonomous operation with automatic spot finder and direct analog output – ideal for OEM use

- Optional stackable industrial process interface with up to 9 analog or alarm outputs

- Extensive ready-to-use package for an attractive price – including versatile image processing software and connection cables

TECHNICAL SPECIFICATIONS

Optical resolution	80x80 pixels
Detector	FPA, uncooled (34 µm pitch)
Spectral range	8 - 14 µm
Temperature ranges	–20 ... 100 °C, 0 ... 250 °C, (20) 150 ... 900 °C[1],
Frame rate	50 Hz
Optics (FOV)	12° f =12,7 or 30° f = 5,1 or 55° f = 3,1 or 80° f = 2,3
Focus	Manual motor Focus
Optical resolution	190:1 (12° optics)
Thermal sensitivity NETD)	100 mK
System accuracy	±2 °C or ±2 %, whichever is greater
PC interface	USB 2.0 / Ethernet (100Mbit/s) / PoE / RS485 [2]
Process interface (IPI), industrial	3x analog outputs (0/4–20 mA or 0–10 V) or alarm OUT (relais) / 3x inputs (analog or digital) / fail-safe (LED and relay); stackable up to 3 IPIs; optically isolated
Cable length (USB)	1 m (standard), 5 m, 10 m, 20 m Ethernet / RS485: 100m
Ambient temperature	0 ... 50 °C [32...122 °F]
Enclosure (size / rating)	Ø36 x 90 mm (M30x1 thread) / IP 67 (NEMA 4)
Weight	201 - 210 g, incl. lens
Shock / Vibration[1]	IEC 60068-2-27 (25G and 50G) / IEC 60068-2-6 (sinus shaped), IEC 60068-2-64 (broadband noise)
Power supply	via USB / PoE / 5-30VDC
Scope of supply (standard)	• Process imager • USB cable (1 m) • Cable for output/input (1 m) incl. terminal block • Mounting bracket with tripod thread, mounting nut • Software package TGIPI Connect

[1] Accuracy statement effective starting at 150°C
[2] Direct out-and inputs are not available while using the RS485 interface
[3] For further information see operator's manual

For further information as well as the product configurator, please visit https://www.gruppopedercini.com/divisions /healthcare/