Pro Series

Human Body Temperature Detection Thermal Camera

MODEL: GNCF-PT02M04-TWA

GNCF-PT02M04-TWA

Applications

Educational Institutes, Hospital, Offices

Shops, Malls and other market places

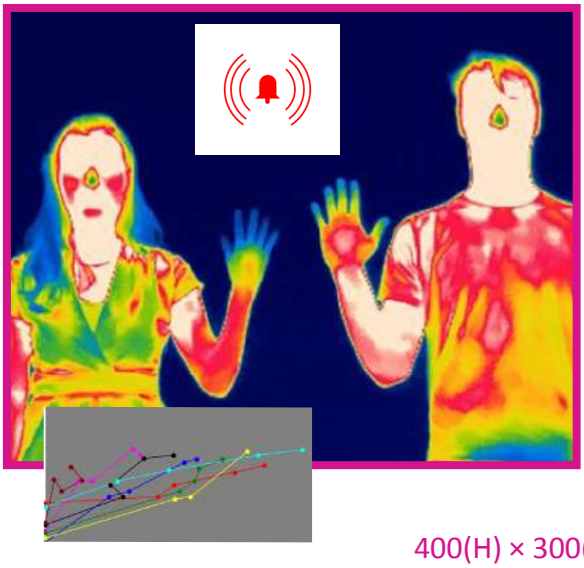
Airport, Railway stations etc.

Human Body Temperature Detection Thermal Camera

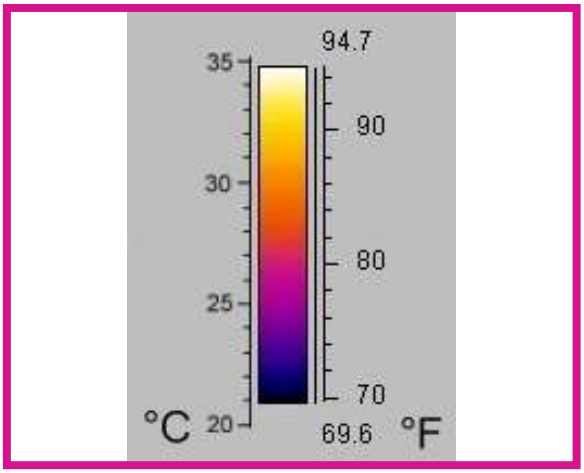
Model: GNCF-PT02M04-TWA
(Pro Series)

Globus range of Thermal Cameras are pre-configured to work with extreme accuracy in Temperature Measurement applications to find temperature deviations in a Controlled and Un-controlled Environment by utilising difference temperature alarms with a dynamically updated reference temperature. In addition, our range of thermal cameras provide an affordable and accurate temperature measurement solution for anyone who needs to solve problems that need built-in "smartness" such as Temperature analysis, alarm functionality and autonomous communication using standard protocols. Globus range of Thermal Cameras also have all the necessary features and functions to build distributed single or multi-camera solutions utilising standard Ethernet hardware and software protocols.

Screening difference temperature alarm with a dynamic updated reference temperature



Color Palettes Black-Heat/ White-Heat/ Rainbow/Iron-Red up to 17 modes



400(H) × 300(V) - Thermal effective pixel

2.7-12mm optical auto focus motorized lens

Meets the ASTM standards ± 0.5 ^{0}F accuracy

Technical Specifications

Solution Overview	
· Screening difference temperature alarm with a dynamic updated reference temperature. · Color Palettes Black-Heat /White-Heat/Rainbow/Iron-Red up to 17 modes. · 400(H) x 300(V) - Thermal effective pixel, 1920(H) x 1080(V) Optical effective Pixel. · Extensive alarm functionality, as a function of analysis and more. · Thermal: 8mm Fixed lens, Optical: 2.7-12mm Auto focus Motorized lens. · Open and well-described TCP/IP protocol for control and set-up. · Built-in extensive analysis functionality. · Encode Video Stream H.265, H.264 & MJPEG. · Temperature Range 32 ^{0}F ~ 140 ^{0}F. · Accuracy ± 0.5 ^{0}F with blackbody. · Thermal Sensitivity (NETD) ≤60mK @F1.0, 300K · Metal Housing with IP66 Ingress Protection.	
Thermal Sensor	
Detector Type	Uncooled IRFPA Microbolometer
Effective Pixels	400(H) x 300(V)
Detector Pitch	17um
Thermal Sensitivity (NETD)	≤60mK @F1.0, 300K
Spectral Range	8~14um
Lens Type	Fixed Lens
Focal Length	8mm
Angle of View	H: 46^{0}, V: 35^{0}
Streaming Resolution	Main Stream Video: D1 @25/30fps, Sub Stream Video: CIF @25/30fps
Optical Sensor	
Image Sensor	1/2.8" Sony CMOS
Effective Resolution	1920(H) x 1080(V)
Shutter Speed	1s to 1/100,000s
Wide Dynamic Range	True WDR 120dB
Min. Illumination	Color: 0.01Lux @(F1.1, AGC ON); B/W: 0.001Lux @(F1.1, AGC ON)
S/N Ratio	More than 55dB
Focal Length	2.7-12mm
Max Aperture	F1.6~ F2.9
Angle of View	105^{0}~ 32^{0}
Focus	Motorized Auto Focus (Built-in Motor)
Zoom	1–4x Optical, 16x Digital, interpolating zooming on images
Streaming Resolution	Main Stream Video: 1920 x 1080/1280 x 720 @25/30fps, Sub Stream Video: D1/VGA/640 x 360/CIF/QVGA @25/30fps.

Continued...

Video and Audio Data	
Video Streaming	Dual Streams
Video Compression	H.265, H.264, MJPEG
Bit Rate Control	CBR/ VBR
Audio Compression	G.711, RAW_PCM
Audio Interface	1ch Audio In,1ch Audio Out
Power	
External Power Operation	DC12V
Power Consumption	Max. 10W at 12V DC typical and PoE typical.
Connections and Communications	
Digital Inputs	2 Channel Input Port
Digital Outputs	2 Channel Output Port
Ethernet	For control, result, image, and power
Ethernet Communication	TCP/IP
Ethernet Power	Power over Ethernet, PoE IEEE 802.3af
Ethernet Protocols	IPv4/IPv6 ,HTTP,RTSP/RTP/RTCP, TCP/UDP, DHCP, DNS, PPPOE, SMTP, SIP, 802.1x, Onvif.
Ethernet Standard	IEEE 802.3
Multicast	Yes
Measurement	
Detection Mode	Body temperature monitoring
Temperature Alarm	Over temperature alarm
Accuracy	± 0.5 °F with blackbody; Detection Distance: 3~5m (4m recommended); Working Environment: Avoid the interference of wind, sunshine, high temperature and reflective objects, indoor is recommended
Temperature Range	32 °F ~ 140 °F
Blackbody	
Temperature Range	104 °F Ambient temp. 41~122 °F
Temperature Resolution	0.1°F
Accuracy	±0.3 °F (@104 °F)
Stability	± (0.1~0.3) °F / 30min
Environmental Data	
Operating Temperature Range	-30 °C ~ 60 °C (-22 °F~140 °F), 0~ 90% RH
Power System	
Power Supply	12 VDC, 10W max.
Physical Data	
Ingress Protection	IP66
Casing	Metal
Dimensions	212 x 182 x 136mm
Weight	2.1Kg

Thermal Smart Sensor Camera

Blackbody

*Due to continuous product development, the specifications may change without prior notice.
**Product image(s) are for illustrative purposes only and may differ from the actual product.

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