WISENET T series

TNM-3620TDY

Temperature detection thermal camera

Benefits

- IEC 60601 certificated Temperature Detection Thermal camera.

- FDA* 510(k) clearance (In progress).

- Dual purpose camera equipped with QVGA thermal imaging and high definition cameras, to help businesses operate safely during the COVID-19 era.

  - EBT (Estimated Body Temperature mode). Able to accurately measure a persons temperature for a reliable and safe way to scan for fevers. Accuracy is further increased with Blackbody accessory.

  - In Radiometric mode, the camera can measure changes in temperature with a high degree of accuracy, which will alert them to the threat of a fire in recycling, waste management and landfill type facilities.

  - The camera can be used to monitor the temperate of specific areas or objects in a scene.

  - Valuable equipment could be saved before it overheats.

- When the camera is no longer required for COVID-19, Radiometric mode can be used, making the camera a long-term investment.

- The 2 megapixel camera features Intelligent Video Analytics including directional detection, motion detection, enter/exit, virtual line, audio detection and tampering detection (These features are only in Normal mode, see table for more detail).

- Ability to connect external devices, such as a traffic light probe to indicate if there is a positive detection of high temperature.
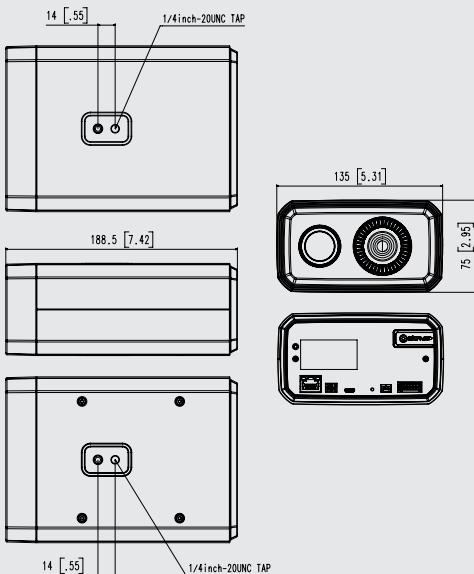
TNM-3620TDY	
VIDEO	
Imaging Device	Uncooled micro bolometer (320x240)
Visual Lens Resolution	2Mpix (1920x1080)
Thermal Lens Resolution	1280x960*, 640x480*, 320x240 *resized from 320x240
Max. Framerate	H.265/H.264: Max. 30fps/25fps(60Hz/50Hz) MJPEG: Max. 30fps/25fps(60Hz/50Hz)
NETD	< 60mK
Pixel Size	12μm
Video Out	CVBS: 1.0 Vp-p / 75Ω composite, 720x480(N), 720x576(P) for installation USB : Micro USB Type B, 1280x720 for installation
LENS	
Focal Length (Zoom Ratio)	4.7mm fixed focal
Max. Aperture Ratio	F1.0
Angular Field of View	H: 50.0˚, V: 36.4˚, D: 65.3˚
Min. Object Distance	1m(3.28ft)
Focus Control	Fixed
OPERATIONAL	
Camera Title	Displayed up to 85 characters
Digital Image Stabilization	Support(built-in gyro sensor)
Motion Detection	8ea, 8point polygonal zones
Privacy Masking	32ea, polygonal zones - Colour: Grey/Green/Red/Blue/Black/White - Mosaic
Video Rotation	Flip, Mirror
Analytics	EBT mode : Temperature detection, Blackbody error Normal mode : Directional detection, Motion detection, Enter/Exit, Tampering, Virtual line, Audio detection, Temperature detection *EBT : Estimated Body Temperature
Alarm I/O	Input 1ea / Output 2ea
Alarm Triggers	Analytics, Network disconnect, Alarm input
Alarm Events	File upload via FTP and e-mail Notification via e-mail SD/SDHC/SDXC or NAS recording at event triggers Alarm output Handover (normal mode only) Audio playback Beep alarm (EBT mode only)
Audio In	Selectable(mic in/line in) Supply voltage: 2.5VDC(4mA), Input impedance: 2K Ohm
Audio Out	Line out, Max.output level: 1Vrms
Color Palettes	EBT Mode (thermal face detection) : Whitehot EBT (visible face detection) & Normal mode : Whitehot, Blackhot, Rainbow, Rainbow2, Sepia, Red, Iron, Custom
RADIOMETRY	
Temperature detect range	Estimated body temperature mode 30~45°C(86°F~113°F) Normal mode -20~+130°C(-4˚F~+266˚F)
Temperature accuracy	Estimated body temperature mode ±0.5°C(±0.3°C with Blackbody) Normal mode ±5˚C(≤100˚C), ±20%(>100˚C)
Temperature detection	3ea rectanguler (normal mode)
Additional	Hybrid palettes (normal mode), Spot temperature reading (normal mode)

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Key Features

- Bi-spectrum : QVGA thermal & 2MP visible sensor

- Built-in 4.7mm fixed lens (thermal), 4mm fixed lens (visible)

- Two temperature detection modes
  - Estimated Body Temperature Mode : 30~45℃ (86~113°F) / ±0.5℃ (±0.3℃ with blackbody)
  - Normal Radiometric mode : -20~130℃ (-4~266°F) / ±5˚C(≤100˚C), ±20%(>100˚C)

- AI based face and temperature detection analytics

- MicroSD 1slot

- PoE+/12VDC

Dimensions

Unit:mm(inch)

TNM-3620TDY	
NETWORK	
Ethernet	Metal shielded RJ-45(10/100BASE-T), RJ-45(10/100BASE-T)
Video Compression	H.265/H.264: Main/Baseline/High, MJPEG
Audio Compression	G.711 u-law /G.726 Selectable G.726(ADPCM) 8KHz, G.711 8KHz G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC-LC: 48Kbps at 16KHz
Smart Codec	WiseStreamII
Bitrate Control	H.264/H.265: CBR or VBR MJPEG: VBR
Streaming	Unicast(20 users) / Multicast Multiple streaming(Up to 6 profiles)
Protocol	IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP,RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour
Security	HTTPS(SSL) login authentication Digest login authentication IP address filtering User access log 802.1X authentication(EAP-TLS, EAP-LEAP) Device certificate(Hanwha Techwin Root CA)
Application Programming Interface	ONVIF Profile S/T SUNAPI(HTTP API)
GENERAL	
Webpage Language	English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Swedish, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek
Edge Storage	Micro SD/SDHC/SDXC 1slot 256GB
Memory	4608MB RAM, 512MB Flash
ENVIRONMENTAL & ELECTRICAL	
Operating Temperature / Humidity	EBT mode : +10℃~+35℃(+50°F~+95°F) / Less than 95% RH Normal mode : -10℃~+55℃(+14°F~+131°F) / Less than 95% RH
Storage Temperature / Humidity	-30℃~+60℃(-22°F~+140°F) / Less than 95% RH
Input Voltage	PoE+(IEEE802.3at, Class4), 12VDC
Power Consumption	PoE+: Max. 17.0W, typical 12.5W 12VDC: Max. 14.5W, typical 11.0W
MECHANICAL	
Colour / Material	White / Aluminum
RAL Code	RAL9003
Product dimensions / weight	135(W)x75(H)x188.5(D)mm, (5.31x2.95x7.42"), 1.7kg(3.77lb)

* Blackbody accessory available separately for even more accurate temperature detection
* The latest product information / specification can be found at hanwha-security.eu
* Wisenet is the proprietary brand of Hanwha Techwin.
* FDA* 510(k) clearance (In progress)
  * Hanwha Techwin facility registration is completed.
  * Device registration is in progress.
    * Product code LHQ / Estimated compete date : 1Q. 2021

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