WISENET T series

TNM-3620TDY

Dual-Sensor Camera with
AI Face and Body Temperature detection

Benefits

- Save time and unnecessary costs associated with false alarms, thanks to highly accurate detection and object classification that uses Deep Learning Artificial Intelligence technology

- Help keep businesses, government buildings and any public space safe through efficient temperature monitoring

- Fast detection of multi-point skin-surface temperature of a person

- Multi-person detection

- No physical contact required

- Immediate alarms notify operators

- Reduce false alarms by ignoring other heat sources with AI-based face detection, even while wearing a mask

- Accuracy within ±0.5°C (±0.9°F), ±0.3°C (±0.54°F) with blackbody

- Verification and identification of subject with visible camera

※Proper installation and use of a blackbody device (optional) is recommended for best performance and accuracy. To ensure accuracy, please follow FDA Guidelines. Make sure to have an approved medical thermometer and trained staff for secondary body temperature screening for a person suspected of having an elevated temperature.

※Please note: Please contact Hanwha Techwin for information on purchasing thermal cameras. Thermal cameras may not be available for purchase by all customers or shipped to all locations. Hanwha Techwin America restricts the purchase and shipment to Ultimate Consignee and Purchaser locations in the United States.

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	TNM-3620TDY	
VIDEO	**THERMAL**	**VISIBLE**
Imaging Device	Uncooled micro bolometer	1/2.8" 2MP CMOS
Effective Pixels	320(H) x 240(V)	1945(H) x 1109(V)
NETD	< 60mK	-
Pixel Size	12μm	-
Minimum Illumination	-	Color : 0.05 lux (F1.6, 1/30sec) B/W : 0.005 lux (F1.6, 1/30sec)
Video Out	CVBS : 1.0 Vp-p / 75Ω composite, 720 x 480 for installation USB : Micro USB Type B, 1280 x 720 for installation	
LENS		
Focal Length	4.7mm fixed focal	4mm fixed focal
Maximum Aperture Ratio	F1.0	F1.6
Angular Field of View	H : 50.0˚, V : 36.4˚, D : 65.3˚	H : 87.6, V : 46.4°, D : 104.5°
Minimum Object Distance	1m (3.28ft)	-
Focus Control	Fixed	Fixed
OPERATIONAL		
Camera Title	Displayed up to 85 characters	
Day & Night	-	Auto (ICR)
Backlight Compensation	-	BLC, WDR, SSDR
Wide Dynamic Range	-	ExtremeWDR (150dB)
Digital Noise Reduction	-	SSNRV
Digital Image Stabilization	Support (built-in gyro sensor)	
Motion Detection	8ea, 8point polygonal zones	
Privacy Masking	32ea, polygonal zones / - Color: Grey/Green/Red/Blue/Black/White / Mosaic	
Gain Control	-	Low / Middle / High
White Balance	-	ATW / AWC / Manual / Indoor / Outdoor
LDC	-	Support
Electronic Shutter Speed	-	Minimum / Maximum / Anti flicker (2~1/12,000sec)
Video Rotation	Flip, Mirror, applied to both channels	
Analytics	Normal mode : Motion detection, Enter/Exit, Tampering, Virtual line, Audio detection, Temperature detection EBT mode : Temperature detection, Blackbody error	
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 (microphone in/line in) Supply voltage : 2.5VDC(4mA), Input impedance : 2K Ohm	
Audio Out	Line out, Maximum output level : 1Vrms	
Color Palettes	Estimated Body Temperature Mode (Thermal Face detection) : Whitehot Estimated Body Temperature Mode (Visible Face detection) & Normal mode : Whitehot, Blackhot, Rainbow, Rainbow2, Sepia, Red, Iron, Custom	-
RADIOMETRY		
Temperature detection 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 (±0.9°F) / ±0.3°C (±0.54°F) with blackbody Normal mode : -20°C~130°C (-4˚F~266˚F) /±5˚C≤100°C, ±20% >100°C (±9˚F≤212˚F, ±20%>212˚F	

TNM-3620TDY

Dual-Sensor Camera with
AI Face and Body Temperature detection

Key Features

- Dual sensor camera with QVGA thermal & 2MP visible video outputs

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

- AI Face & temperature detection analytics including temperature & face overlay and alerts, detects people even while wearing a mask

- Estimated Body Temperature Mode: +30℃~+45℃ (+86℉~+113℉) / ±0.5℃ (±0.9℉), ±0.3℃ (±0.54℉) with blackbody

- Normal Radiometric mode: -20℃~+130℃ (-4℉~+266℉) / ±5℃(≤+100℃), ±20%(>+100℃) ±9℉(≤+212℉), ±20%(>+212℉)

- Micro SD/SDHC/SDXC memory slot (Maximum 256GB)

- Integration of visible camera face detection with thermal camera Elevated Body Detection

- PoE+, 12VDC powered

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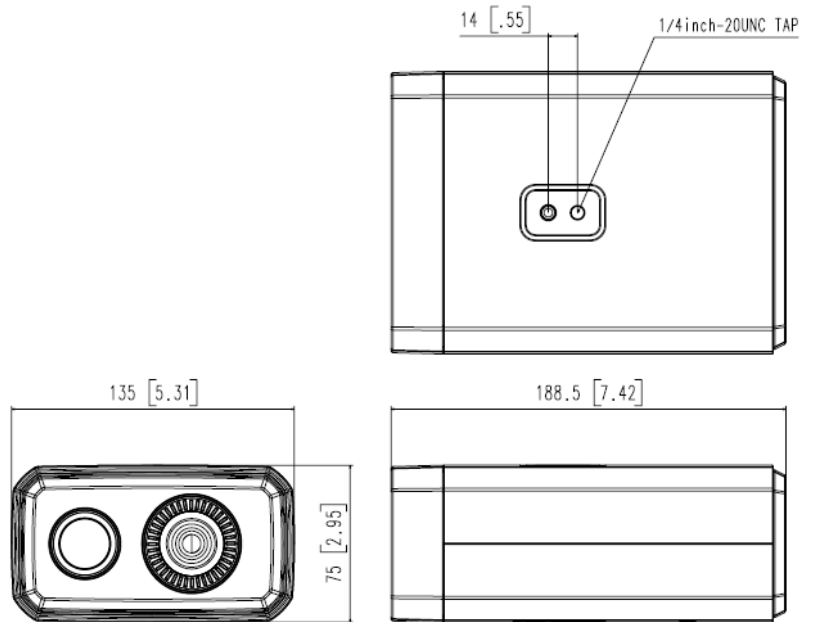|	TNM-3620TDY	
RADIOMETRY	THERMAL	VISIBLE
Temperature detection	3ea rectangular (Normal Mode)	-
Additional	Hybrid palettes (Normal mode), Spot temperature reading (Normal mode)	-
NETWORK		
Ethernet	Metal Shielded RJ-45(10/100BASE-T)	
Video Compression	H.265 / H.264 : Main / Baseline / High, MJPEG	
Resolution	Stretched: 1280x960, 640x480 Native: 320 x 240	1920 x 1080, 1280x1024, 1280 x 960, 1280 x 720, 1024 x 768, 800 x 600, 800 x 448, 720 x 576, 720 x 480, 640 x 480, 640 x 360, 320 x 240
Maximum Framerate	H.265/H.264: 30fps MJPEG : 30fps	H.265/H.264 : 60fps MJPEG : 30fps
Smart Codec	WiseStream Ⅱ	Manual(5ea area), WiseStream II
Video Quality Adjustment	H.264/H.265 : Target bitrate level control, MJPEG : Target bitrate level control	
Bitrate Control	H.264/H.265 : CBR or VBR, MJPEG : VBR	
Streaming	Unicast (20 users) / Multicast Multiple streaming (Up to 6 profiles)	
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	
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, LLDP	
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)	
Edge Storage	Micro SD/SDHC/SDXC slot, maximum 256GB, record 1 / 2 sensors	
Application Programming Interface	ONVIF Profile S/T, SUNAPI(HTTP API)	
Webpage Language	English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Swedish, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek	
Web Viewer	Supported OS: Windows 10, Mac OS X 10.13 or later Recommended Browser: Google Chrome Supported Browser: MS Edge, Mozilla Firefox (Windows 64-bit only), Apple Safari (Mac OS X only)	
Memory	4608MB RAM, 512MB Flash	
ENVIRONMENTAL		
Operating Temperature / Humidity	Estimated Body Temperature Mode : +10℃~+35℃(+50℉~+95℉) / Less than 95% RH Normal mode : -10℃~+55℃(+14℉~+131℉) / Less than 95% RH	
Storage Temperature / Humidity	-30℃~+60℃ (-22℉~+140℉) / Less than 95% RH	
ELECTRICAL		
Input Voltage	PoE+ (IEEE802.3at, Class4), 12VDC	
Power Consumption	PoE+ : Maximum 17.0W, typical 12.5W 12VDC: Maximum 14.5W, typical 11.0W	
MECHANICAL		
Color / Material	White / Aluminum	
RAL Code	RAL9003	
Product dimensions / Weight / Mounting	135 x 75 x 188.5mm (5.31" x 2.95" x 7.42") 1.7kg (3.77lb) 1/4 - 20 UNC top & bottom	

* The lastest product information / specific tion can be found at hanwhavisionamerica.com
* Design and specific tions are subject to change without notice.

TNM-3620TDY

Dual-Sensor Camera with
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Dimensions

Optional Accessories

STB-5075W
Floor Stand

STB-1520VW
Hanging Mount with Swivel
Adapter

SPI-35B
Black Body
Calibration Device

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