

TNO-4030TR/4040TR

VGA Radiometric Thermal Camera

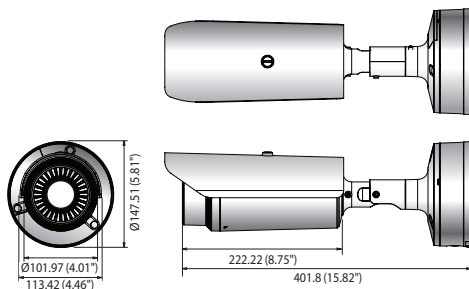


TNO-4030TR / TNO-4040TR

Key Features

- 640 x 480 resolution
- Built-in 13/19mm fixed lens
- H.265, H.264, MJPEG codec
- 30fps@all resolutions (H.265, H.264, MJPEG)
- Directional/Virtual line detection, Motion detection, Appear/Disappear, Enter/Exit, Loitering, Tampering, Audio detection, Sound classification, Temperature detection, Shock detection, Handover
- Micro SD / SDHC / SDXC memory slot (Maximum 256GB)
- Hallway View, WiseStream II support
- PoE, 24VAC, 12VDC / IP66, NEMA4X, IK10

Dimensions



TNO-4030TR / TNO-4040TR

	TNO-4030TR	TNO-4040TR
VIDEO		
Imaging Device	Uncooled microbolometer	
Effective Pixels	N/A	
NETD	< 50mK	
Pixel Size	17 μ m	
Minimum Illumination	None	
Video Out	CVBS : 1.0 Vp-p / 75 Ω composite, 720x480 for installation USB : Micro USB Type B, 1280x720 for installation	
LENS		
Focal Length (Zoom Ratio)	13mm fixed focal	19mm fixed focal
Maximum Aperture Ratio	F1.0	
Angular Field of View	H : 48.6° / V : 36.4° / D : 61.6°	H : 32° / V : 24.3° / D : 39.2°
Minimum Object Distance	5m (16.40ft)	11m (36.09ft)
Focus Control	Fixed	
OPERATIONAL		
Camera Title	Displayed up to 85 characters, 5 lines, English / Numeric / Special & International characters, 6 colors, Transparency, Auto scale by resolution	
Digital Image Stabilization	Support (Built-in gyro sensor)	
Motion Detection	8ea, 8point polygonal zones, Handover	
Privacy Masking	32ea, polygonal zones - Color : Grey / Green / Red / Blue / Black / White - Mosaic	
Video Rotation	Flip, Mirror, Hallway view (90°/270°)	
Analytics	Directional detection, Motion detection, Appear/Disappear, Enter/Exit, Loitering, Tampering, Audio detection, Temperature detection, Sound classification, Shock detection	
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	
Audio In	Selectable (mic in/line in) Supply voltage : 2.5VDC (4mA), Input impedance : 2K Ohm	
Audio out	Line out, Maximum output level : 1Vrms	
RADIOMETRY		
Temperature detect range	-20°C~130°C (-4°F~266°F)	
Temperature accuracy	$\pm 5^{\circ}\text{C}$ ($\leq 100^{\circ}\text{C}$), $\pm 20\%$ ($> 100^{\circ}\text{C}$)	
Temperature detection	3ea rectangular	
Additional	Hybrid palettes, Spot temperature reading	
NETWORK		
Ethernet	RJ-45 (10/100BASE-T)	
Video Compression	H.265/H.264: Main/Baseline/High, MJPEG	
Resolution	640 x 480, 640 x 360, 320 x 240	
Maximum Framerate	H.265/H.264 : Maximum 30fps MJPEG : Maximum 30fps	
Smart Codec	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	

	TNO-4030TR	TNO-4040TR
Streaming	Unicast (20 users) / Multicast Multiple streaming (Up to 10 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	
Audio Communication	Bi-directional (2-Way)	
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)	
Edge Storage	Micro SD/SDHC/SDXC 1 slot maximum 256GB	
Application Programming Interface	ONVIF Profile S/G/T SUNAPI (HTTP API) Wisenet open platform	
Webpage Language	English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Swedish, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek	
Web Viewer	Supported OS : Windows 7, 8.1, 10, Mac OS X 10.10, 10.11, 10.12 Recommended Browser : Google Chrome Supported Browser : Microsoft Internet Explorer 11, Microsoft Edge, Google Chrome Mozilla Firefox (Windows 64bit only), Apple Safari (Mac OS X only)	
Central Management Software	Wisenet WAVE, SmartViewer, SSM	
Memory	1024MB RAM, 256MB Flash	
ENVIRONMENTAL		
Operating Temperature / Humidity	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 90% RH	
Storage Temperature / Humidity	-50°C ~ +60°C (-58°F ~ +140°F) / Less than 90% RH	
Certification	IP66, IK10, NEMA4X	
ELECTRICAL		
Input Voltage	PoE (IEEE802.3af, Class3), 24VAC, 12VDC	
Power Consumption	PoE : Maximum 10W, typical 8.6W 12VDC : Maximum 9W, typical 7.5W 24VAC : Maximum 10.5W, typical 8.9W	
MECHANICAL		
Color / Material	White / Aluminum	
RAL Code	RAL9003	
Product dimensions / weight	Φ101.97x401.8mm (4.01x15.82") / 3,124g (6.89lb)	

* The latest product information / specification can be found at hanwhasecurity.com

* Design and specifications are subject to change without notice.

* Wisenet is the proprietary brand of **Hanwha Techwin**.