







TNO-C3062T

QVGA AI Tele lens Thermal Camera











- QVGA resolution (384x288, 17µm)
- 35mm Tele lens option
- \bullet High performance thermal sensitivity (NETD 20mK@25°C)
- AI based object classification (person, vehicle)
- Max. 8fps (H.265/H.264/MJPEG)
- IP66/67, IK10, NEMA4X, NEMA-TS2, MIL-STD-810H
- Secure element with FIPS 140-3 level3, CC EAL6+



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Specifications

Video				
Imaging Device	Туре	Uncooled micro bolometer (384x288)		
Resolution		768x576, 384x288		
Max. Framerate	H.265/H.264	8fps		
	MJPEG	8fps		
Spectral Range		8~14μm		
NETD		≤20mK@25°C, F1.0		
Pixel Size		17μm		
Video Out		USB: Micro USB Type B		
Lens				
Focal Length (mm)		35		
Max Aperture Ratio (F number)	Wide	1.0		
Angular Field of View	Horizontal	10.7°		
	Vertical	8.0°		
	Diagonal	13.3°		
iFoV		0.486 mRad		
Min. Object Distance		36.1m(118.4ft)		
Focus Control		Fixed		
Lens Type		Athermalized		
Pan / Tilt / Rotate				
Pan / Tilt / Rotate Range	Pan	0°~350°		
	Tilt	0°~90°		
	Rotate	0°~350°		
Operational				
Motion Detection	Quantity	8ea		
	Shape	8point Polygonal zones		



Operational		
Privacy Masking	Quantity	6ea
	Shape	Rectangular zones
	Color / Option	Gray, Black, White
Video Rotation		Flip, Mirror, Hallway view(90°/270°)
Serial Interface		RS-485
Alarm Interface	In/Out	2 configurable I/O ports
	Others	Support extra alarm I/O via optional I/O box
Alarm Triggers		Analytics, Network disconnect, Alarm input, Time schedule, MQTT subscription
Alarm Events When Alarm Trigger Occurred		File upload(image): e-mail/FTP/SFTP, File upload(video clip): FTP/SFTP, Notification: e-mail, Recording: SD/SDHC/SDXC or NAS recording at event triggers,Alarm output, Handover: PTZ preset, MQTT: publication
Audio In		Selectable(mic in/line in)
Audio Out		Line out
Color Pallettes		Whitehot, Blackhot, Rainbow, Rainbow2, Sepia, Red, Iron, Custom
Analytics		
Classified Object Type		Person, Vehicle
Thumbnail		BestShot
Analytics Events	Based on Al Engine	Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit), Motion detection
	Normal	Motion detection, Tampering, Audio detection, Sound classification, Shock detection, Virtual area(Appear/Disappear)
Radiometry		
Hybrid Pallettes		Support
ROI Condition Monitor	ing	None, Increase, Decrease
Network		
Ethernet		Metal shielded RJ-45(10/100/1000BASE-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		Manual, WiseStream II , WiseStreamIII
Bitrate Control		H.265/H.264: CBR or VBR, MJPEG: VBR
Streaming	Unicast	Up to 20 users
	Multicast	Support
	Multiple Streaming	Up to 10 profiles



Network		
Protocoi		IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SFTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS QoS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), MQTT, Syslog
Application	ONVIF	S, G, T, M
Programming Interface	Others	SUNAPI(HTTP API), Hanwha Vision Open Platform
Security		
OS / Firmware Protect		Encrypted firmware, Secure boot, Signed firmware
User authentication		Digest authentication, Prevent brute-force attack
Network authentication		IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)
Secure Communication		HTTPS, WSS(WebSocket Secure), SRTP
Access Control		IP-based access control
Data Protect		Encryption credentials, Encrypt compress for live recording file export
Audit		Access / System / Event Log management
Device ID		Device certificate(Hanwha Vision Root CA)
Secure Storage		SDcard partition encrypt(AES-256), Secure element
Security Certificate		Secure element(FIPS 140-3 level3, CC EAL6+)
General		
Memory	RAM	2GB
	Flash	512MB
Edge Storage	Micro SD/SDHC/SDXC	Max. 1TB x 1slot
Environmental & E	Electrical	
Operating Condition	Temperature	-40°C~+60°C(-40°F~+140°F)
	Humidity	0~95% RH(non-condensing)
Storage Condition	Temperature	-50°C~+60°C(-58°F~+140°F)
	Humidity	0~95% RH(non-condensing)
Input Voltage		PoE(IEEE802.3af, Class3), 12VDC
Power Consumption	PoE	Max. 10.8W, typical 9W
	12VDC	Max. 9.4W, typical 7.7W
Mechanical		
Color		White
Material		Aluminum
RAL Code		RAL9003
Product Dimensions		ø107.3x275mm(ø4.22x10.83")
Product Weight		2370g(5.22lb)
Compatible Conduit Hole		Support conduit compatibility via optional adaptor

Design and specifications are subject to change without notice. The latest product information / specification can be found at HanwhaVision.com Hanwha Vision is formerly known as Hanwha Techwin.

$T_{\text{series}}_{\text{tno-c3062t}}$



Mechanical				
Compatible Gang Box		Single, Double, 4" Octagon, Square		
Certifications & Sta	andards			
EMC		FCC 47 CFR 15 Subpart B Class A, CE/UKCA - EN55032 Class A, EN 50130-4, EN 61000-3-2, EN 61000-3-3, VCCI CISPR 32 Class A, RCM AS-NZS CISPR 32 Class A, KS C 9832 Class A, KS C 9835, IC Regulation ICES-003 Issue 7 Class A		
Safety		UL 62368-1, CAN/CSA C22.2 NO. 62368-1		
Environment		IEC/EN 63000, IEC 60529 IP66, IEC 60529 IP67, IEC 62262 IK10, NEMA TS 2-2013 (2.2.7, 2.2.8, 2.2.9), NEMA 250 type 4X, IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78, MIL-STD-810H 501.7, MIL-STD-810H 502.7, MIL-STD-810H 507.6, MIL-STD-810H 509.7, MIL-STD-810H 514.8, MIL-STD-810H 516.8		
DORI (EN62676-4	standard)			
Detect (25PPM/8PPF)	Wide	454m(1,487.81ft)		
Recognize (125PPM/ 38PPF)	Wide	113m(371.95ft)		
Identify (250PPM/ 76PPF)	Wide	57m(185.98ft)		



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CAD Unit: mm [inch]

