Hanwha Vision

Network Bullet

TNO-L3030T
QVGA Thermal Camera

FC | c UL us LISTED | C E | EAC | NDAA

Key Features

• Maximum 320 x 240 resolution support
• Built-in 13.7mm fixed lens
• H.265, H.264, MJPEG codec
• Maximum 8fps@all resolutions (H.265, H.264, MJPEG)
• Motion detection, Handover, Tampering, Loitering
• Directional detection, Motion detection, Appear/Disappear, Enter/Exit, Loitering, Tampering, Virtual line, Audio detection, Sound classification Temperature detection, Shock detection
• Micro SD / SDHC / SDXC memory slot (Max. 256GB)
• Hallway View, WiseStreamII support
• PoE, 24VAC, 12VDC / IP66, NEMA4X, IK10

![Hanwha Vision]

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Specifications

Video

Imaging Device	Uncooled micro bolometer
Resolution	320x240
Max. Framerate	H.265/H.264/MJPEG: Max. 8fps
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)	13.7mm fixed focal
Max. Aperture Ratio	F1.0
Angular Field of View	H:16.0°, V:12.0°, D:20.0°
Min. Object Distance	8m(26.25ft)
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 - 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, Virtual line, Audio detection, Temperature change 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, Max.output level: 1Vrms
Color Palettes	Whitehot, Blackhot, Rainbow, Rainbow2, Sepia, Red, Iron, Custom

Network

Ethernet	RJ-45(10/100BASE-T)
Video Compression	H.265/H.264: Main/Baseline/High, MJPEG

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.

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(5ea area), WiseStream II
Bitrate Control	H.264/H.265: CBR or VBR MJPEG: VBR
Streaming	Unicast(20 users) / Multicast Multiple streaming(Up to 10 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, LLDP, SRTP
Security	HTTPS(SSL) login authentication Digest login authentication IP address filtering User access log 802.1X authentication(EAP-TLS, EAP-LEAP)
Application Programming Interface	ONVIF Profile S/G/T SUNAPI(HTTP API) Wisenet open platform

General

Webpage Language	English, French, Italian, Spanish, German, Japanese, Russian, Swedish, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek
Edge Storage	Micro SD/SDHC/SDXC 1slot 256GB
Memory	1024MB RAM, 256MB Flash

Environmental & Electrical

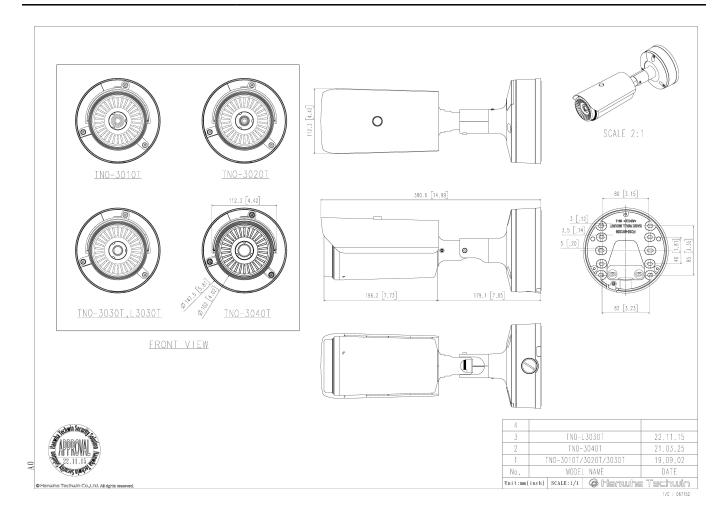| Operating Temperature / Humidity	-40°C to +60°C (-40°F to +140°F) / Less than 90% RH
Storage Temperature / Humidity	-50°C to +60°C (-58°F to +140°F) / Less than 90% RH
Certification	IP66, IK10, NEMA4X
Input Voltage	PoE(IEEE802.3af, Class3), 24VAC, 12VDC
Power Consumption	PoE: Max. 8.7W, typical 7.5W 12VDC: Max. 7.8W, typical 6.7W 24VAC: Max. 9.2W, typical 8.0W

Mechanical

Color / Material	White / Aluminum
RAL Code	RAL9003
Product Dimensions / Weight	Φ147.51x375.3mm(58.07x147.76") / 2512g(5.538lb)

TNO-L3030T

QVGA Thermal Camera

CAD

Unit:mm [inch]

FRONT VIEW

TNO-3010T
TNO-3020T
TNO-3030T,L3030T
TNO-3040T

112.3 [4.42]

Ø 147.5 [5.81]
Ø 102 [4.02]

SCALE 2:1

380.6 [14.99]
196.2 [7.73]
179.1 [7.05]

80 [3.15]
3 [.12]
3.5 [.14]
5 [.20]
46 [1.81]
85 [3.35]
82 [3.23]

BASE WALL MOUNT
PCB5-00155
ANGLE 60-1

4		
3	TNO-L3030T	22.11.15
2	TNO-3040T	21.03.25
1	TNO-3010T/3020T/3030T	19.09.02
No.	MODEL NAME	DATE
Unit:mm(inch)	SCALE:1/1	Hanwha Techwin

T/C : 067152

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