Network Thermal

TNO-3040T

QVGA Thermal Camera

Key Features

- Max. 320 x 240 resolution support
- Horizontal 11.5°, Vertical 8.7° field of view
- Max. 30fps@all resolutions (H.265, H.264, MJPEG)
- Motion detection, Handover, Tampering, Loitering
- Directional detection, Audio detection, Shock detection
- Micro SD / SDHC / SDXC memory slot (Max. 256GB)
- Hallway View, WiseStreamII support
- PoE, 24VAC, 12VDC
- IP66, NEMA4X

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QVGA Thermal Camera

Specifications

映像

Imaging Device	タイプ	Uncooled micro bolometer (320x240)
解像度		320x240
Max. Framerate	H.265/H.264	30fps/25fps(60Hz/50Hz)
	MJPEG	30fps
Spectral Range		8~14㎛
NETD		≤60mK
Pixel Size		12㎛
Video Out		CVBS: 1.0 Vp-p / 75Ω composite for installation, USB: Micro USB Type B. Preview and installation ONLY. Requires WiFi dongle.

レンズ

Focal Length (mm)		19
Max Aperture Ratio (F number)	Wide	1.0
視野角度	Horizontal	12°
	Vertical	9°
	Diagonal	15°
iFoV		0.63mRad
Min. Object Distance		15m(49.21ft)
Focus Control		Fixed

技能

Digital Image Stabilization		Support(built-in gyro sensor)
モーション検知	Quantity	8ea
	Shape	8point Polygonal zones
Privacy Masking	Quantity	32ea
	Shape	Polygonal zones
	Color / Option	灰色, 緑, Red, 青, 黒, 白, モザイク
ビデオ回転		FLIPモード, ミラー, Hallway view(90°/270°)
Alarm Interface	In/Out	Input 1ea, Output 2ea

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技能

Alarm Triggers	分析, ネットワーク切断, アラーム入力
Alarm Events When Alarm Trigger Occurred	File upload(image): e-mail/FTP, Notification: e-mail, Recording: SD/SDHC/SDXC or NAS recording at event triggers,アラーム出力, Handover: PTZ preset
オーディオ入力	Selectable(mic in/line in)
オーディオ出力	Line out
Color Pallettes	Whitehot, Blackhot, Rainbow, Rainbow2, Sepia, Red, Iron, Custom

分析

分析イベント	通常	モーション検知, タンパリング, 音声検出, サウンド分類, 衝撃検知, Virtual area(Lotering, Intrusion, Enter/Exit, Appear/Disappear), Virtual line(Crossing, Direction) , 温度検知

ネットワーク

Ethernet		RJ-45(10/100BASE-T)
映像圧縮		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		手動, WiseStream II
ビットレートコントロール		H.265/H.264: CBR or VBR, MJPEG: VBR
Streaming	Unicast	最大 20ユーザー
	マルチキャスト	サポート
	Multiple Streaming	最大 10プロファイル
プロトコル		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, UPnP, Bonjour, LLDP, SRTP(TCP, UDP Unicast)
Application Programming Interface	ONVIF	s, G, T
	その他	SUNAPI(HTTP API), Hanwha Vision Open Platform

セキュリティ

OS / Firmware Protect	Encrypted firmware
ユーザー認証	ダイジェスト認証
Network authentication	IEEE 802.1X(EAP-TLS, EAP-LEAP)
Secure Communication	HTTPS, WSS(WebSocket Secure), SRTP
Access Control	IP-based access control
Data Protect	Encryption credentials
Audit	Access / System / Event Log management
デバイスID	Device certificate(Hanwha Vision Root CA)

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一般

メモリ	RAM	1GB
	フラッシュ	256MB
Edge Storage	Micro SD/SDHC/SDXC	Max. 256GB x 1slot

Environmental & Electrical

動作条件	温度	-40°C~+60°C(-40°F~+140°F)
	湿度	0~90% RH(non-condensing)
保管条件	温度	-50°C~+60°C(-58°F~+140°F)
	湿度	0~90% RH(non-condensing)
Input Voltage		PoE(IEEE802.3af, Class3), 12VDC, 24VAC
消費電力	PoE	Max. 8.7W, typical 7.5W
	12VDC	Max. 7.8W, typical 6.7W
	24VAC	Max. 9.2W, typical 8.0W

Mechanical

カラー	白
材料	アルミニウム
RAL Code	RAL9003
Product Dimensions	ø147.51x375.3mm(5.81x14.78")
Product Weight	2495g(5.50lb)

Certifications & Standards

環境	IEC 60529 IP66, IEC 62262 IK10, NEMA 250 type 4X

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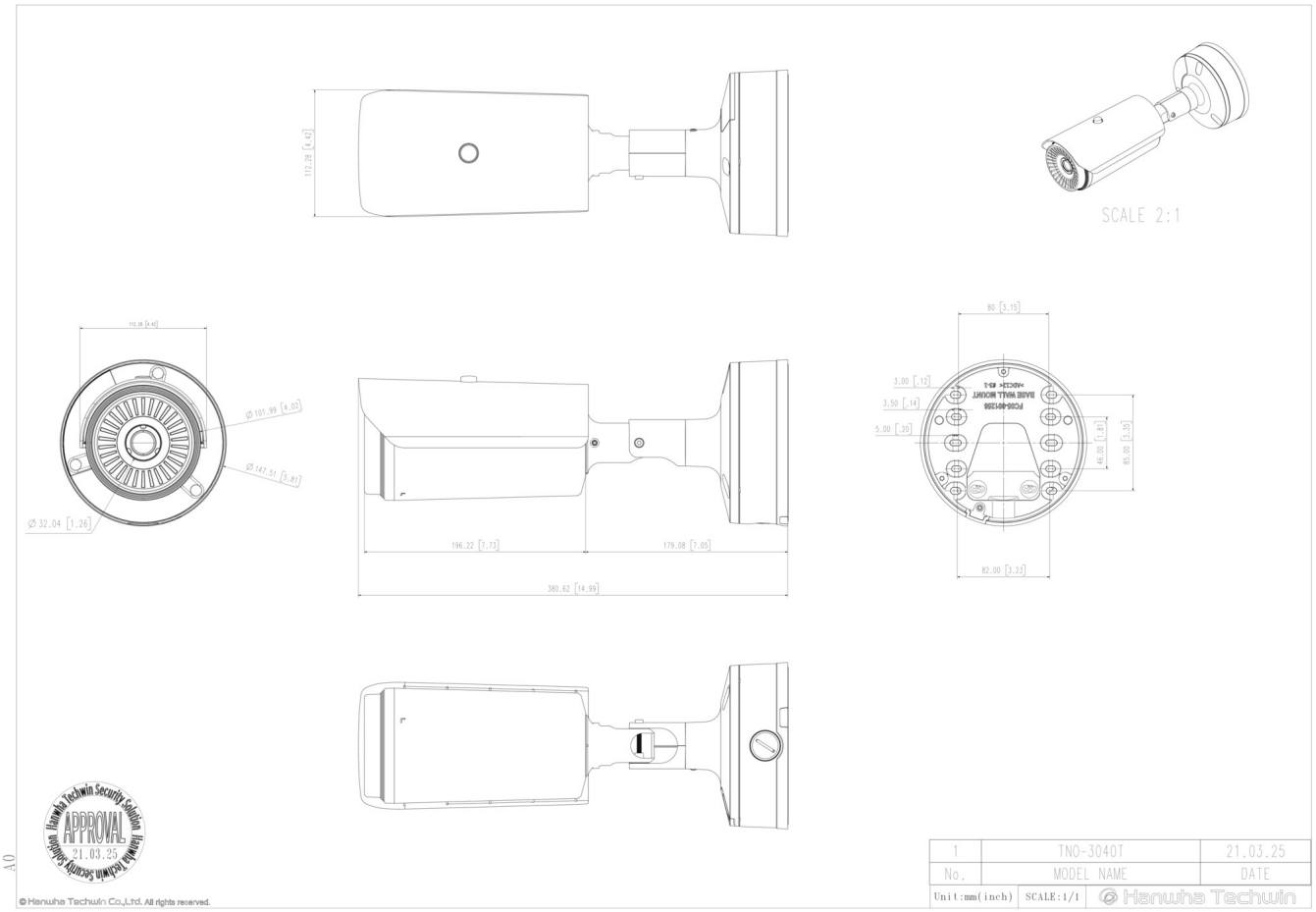
CAD

Unit: mm [inch]



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