



Network

Thermal

TNU-4041T

VGA Thermal Positioning Camera



Key Features

- Max. 640 x 480 resolution support
- Built-in 19mm fixed lens
- H.265, H.264, MJPEG codec, WiseStreamII support
- Max. 30fps@all resolutions (H.265, H.264)
- Tampering, Loitering, Directional Detection, Virtual Line, Enter/Exit, Appear/Disappear, Audio Detection, Motion Detection, Handover, Sound Classification, Shock detection, Temperature change detection
- microSD/SDHC/SDXC memory slot (Max. 256GB)
- 24V AC, NEMA 4X, IK10

※ Bridge firmware is required to upgrade from 1.00~1.2X versions to the latest version.
For more details, please refer to the [UPGRADE NOTIFICATION] or [Release Note] included with your firmware (ZIP file).

Compatible Devices



SBU-500WM

TNU-4041T

VGA Thermal Positioning Camera



Specifications

Video		
Imaging Device	Type	Uncooled micro bolometer (640x480)
Resolution		640x480, 640x360, 320x240
Max. Framerate	H.265/H.264	30fps/25fps(60Hz/50Hz)
	MJPEG	30fps
Spectral Range		8~14 μ m
NETD		≤ 50 mK
Pixel Size		17 μ m
Video Out		CVBS: 1.0 Vp-p / 75 Ω composite for installation
Lens		
Focal Length (mm)		19
Max Aperture Ratio (F number)	Wide	1.0
Angular Field of View	Horizontal	32°
	Vertical	24.3°
	Diagonal	39.2°
iFoV		0.895mRad
Min. Object Distance		11m(36.09ft)
Focus Control		Fixed
Pan / Tilt / Rotate		
Pan / Tilt / Rotate Range	Pan	360° Endless
	Tilt	-90° ~40°
	Others	None, None
Pan Speed	Preset	Max. 120°/sec
	Manual	0.025°/sec~120°/sec
Tilt Speed	Preset	Max. 40°/sec
	Manual	0.025°/sec~40°/sec
Sequence		Preset(300ea), Preset(300ea), Group(6ea), Group(6ea)
Preset Accuracy		$\pm 0.3^\circ$

Operational

Direction Indicator		Support
Digital Image Stabilization		Support(built-in gyro sensor)
Motion Detection	Quantity	8ea
	Shape	8point Polygonal zones
Alarm Interface	In/Out	Input 1ea, Output 1ea
Alarm Triggers		Analytics, Network disconnect, Alarm input
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,Alarm output, Handover: PTZ preset
Audio In		Selectable(mic in/line in)
Audio Out		Line out
Color Palettes		Whitehot, Blackhot, Rainbow, Rainbow2, Sepia, Red, Iron, Custom

Analytics

Analytics Events	Normal	Motion detection, Tampering, Audio detection, Sound classification, Shock detection, Virtual area(Lotering, Intrusion, Enter/Exit, Appear/Disappear), Virtual line(Crossing, Direction) , Temperature change detection
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Network

Ethernet		RJ-45(10/100BASE-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		WiseStream II
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
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, UPnP, Bonjour, LLDP, SRTP(TCP, UDP Unicast)
Application Programming Interface	ONVIF	S, G, T
	Others	SUNAPI(HTTP API), Hanwha Vision Open Platform

Security

User authentication		Digest authentication
Network authentication		IEEE 802.1X(EAP-TLS, EAP-LEAP)
Secure Communication		HTTPS
Access Control		IP-based access control
Audit		Access / System / Event Log management

General

Memory	RAM	1GB
	Flash	256MB
Edge Storage	Micro SD/SDHC/SDXC	Max. 256GB x 1slot

Environmental & Electrical

Operating Condition	Temperature	-40°C~+55°C(-40°F~+131°F)
	Humidity	0~90% RH(non-condensing)
Storage Condition	Temperature	-50°C~+60°C(-58°F~+140°F)
	Humidity	0~90% RH(non-condensing)
Input Voltage		24VAC
Power Consumption	24VAC	Max. 84W(Heater on), 62W(Heater off)

Mechanical

Color	White
Material	Aluminum
RAL Code	RAL9003
Product Dimensions	219(W) × 528(H) × 335(D)mm(8.62x20.79x13.19")
Product Weight	11.7kg(25.79lb)

Certifications & Standards

Environment	IEC 60529 IP66, IEC 62262 IK10, NEMA 250 type 4X
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CAD

Unit: mm [inch]



GENERAL TOLERANCE			ITEM		PART NO.		DESCRIPTION		QTY		REMARKS	
			FILE NAME		FINISH		DRW NO./图号					
			MATERIAL/材質		APPROV		NOTE 备注					
			SCALE		UNIT		TOLERANCE		DESIGN		CHECK	
			1.000		MM							
			DATE									

