TNU-4051T

VGA NW Thermal Positioning Camera



Key Features

- Max. 640 x 480 resolution support
- Built-in 35mm fixed lens
- H.265, H.264, MJPEG codec, WiseStreamII support
- Max. 30fps@all resolutions (H.265, H.264)
- microSD/SDHC/SDXC memory slot (Max. 256GB)
- 24V AC, NEMA 4X

※ 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).

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Video	
Imaging Device	Uncooled micro bolometer
Effective Pixels	640(H)x480(V)
NETD	< 50mK
Pixel size	17㎛
Video Out	CVBS: 1.0 Vp-p / 75Ω composite, 720x480(N), 720x576(P) for installation
Lens	
Focal Length (Zoom Ratio)	35mm Fixed
Max. Aperture Ratio	F1.0
Angular Field of View	H:17.2˚, V:13˚, D:22˚
Min. Object Distance	36m
Focus Control	Fixed
Pan / Tilt / Rotate	
Pan Range	360˚ Endless
Pan Speed	0.025°~120°/sec
Tilt Range	-90˚ ~40˚
Tilt Speed	0.025°~40°/sec
Sequence	Preset(300ea), Group(6ea)
Preset Accuracy	0.3˚
Azimuth	Support
Operational	
Camera Title	Displayed up to 85 characters
Digital Image Stabilization	Support(built-in gyro sensor)
Motion Detection	8ea, 8point polygonal zones
Analytics	Directional detection, Motion detection, Appear/Disappear, Enter/Exit, Loitering, Tampering, Virtual line, Audio detection, Temperature ditection, Sound classification, Shock detection
Alarm I/O	Input 1ea / Output 1ea
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 PTZ Preset
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, Sepia, Red, Iron, Wisenet
Network	
Ethernet	RJ-45(10/100BASE-T)
Video Compression	H.265/H.264: Main/Baseline/High, MJPEG
Resolution	640x480, 640x360, 320x240
Max. Framerate	H.265/H.264 : Max. 30fps at all resolutions Motion JPEG : Max. 30fps

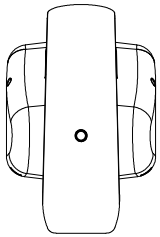
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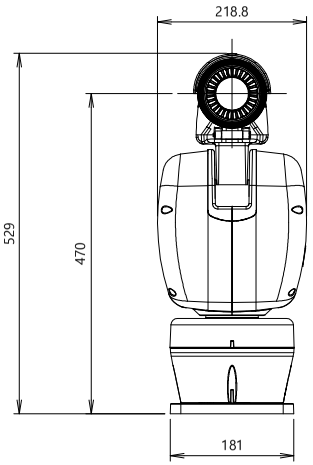
Smart Codec	Manual(5ea area), WiseStream Ⅱ
Bitrate Control	H.264/H.265: CBR or VBR MJPEG: VBR
Streaming	Unicast(20 users) / Multicast Multiple streaming(Up to 10 profiles)
Audio Compression	G.711 u-law /G.726 Selectable G.726(ADPCM) 8KHz, G.711 8KHz G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC-LC: 48Kbps at 16KHz
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)
Edge Storage	Micro SD/SDHC/SDXC 1slot 256GB
Application Programming Interface	ONVIF Profile S/G/T SUNAPI(HTTP API) Wisenet open platform
Web Viewer	Supported OS: Windows 7, 8.1, 10, Mac OS X 10.10, 10.11, 10.12 Recommended Browser: Google Chrome Supported Browser: MS Explore11, MS Edge, Mozilla Firefox(Window 64bit only), Apple Safari(Mac OS X only)
Memory	1024MB RAM, 256MB Flash
Environmental	
Operating Temperature / Humidity	-40°C ~ +55°C(-40°F ~ +131°F) / Less than 90% RH
Storage Temperature / Humidity	-50°C ~ +60°C(-58°F ~ +140°F) / Less than 90% RH
Certification	IP66, NEMA4X
Electrical	
Input Voltage	24VAC
Power Consumption	24VAC: Max 84W(Heater on), Max 62W(Heater off)
Mechanical	
Color / Material	White / Aluminum
RAL Code	RAL9003
Product dimensions / weight	(W)219×(H)528×(D)335mm, 11.7Kg

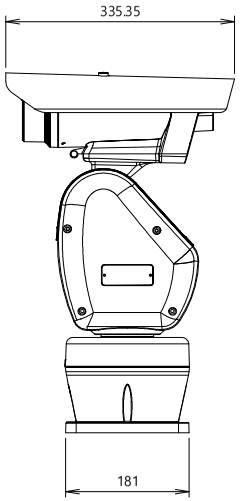
- The lastest product information / specification can be found at hanwha-security.com
- Design and specifications are subject to change without notice.
- Wisenet is the proprietary brand of Hanwha Techwin , formerly known as Samsung Techwin.

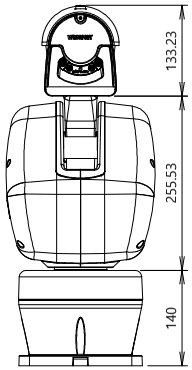
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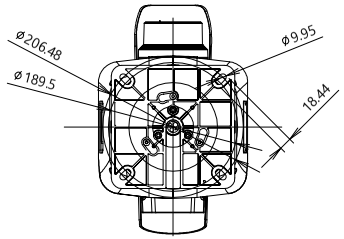
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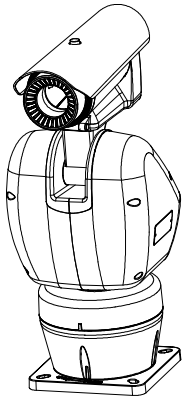


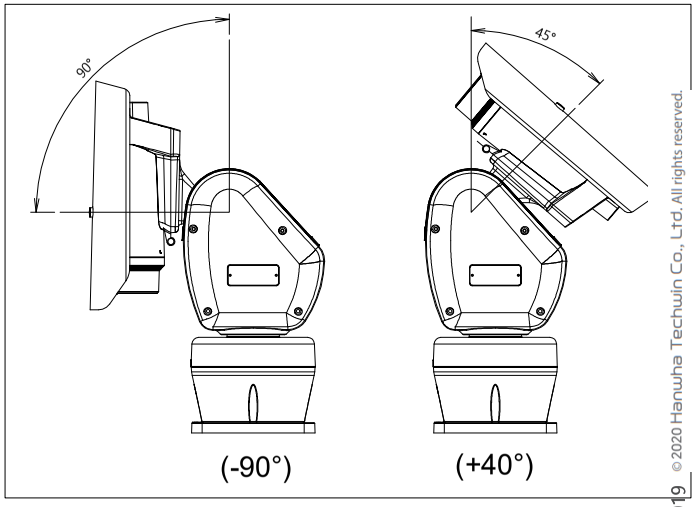












ITEM	PART NO.	DESCRIPTION	QTY	REMARKS

GENERAL TOLERANCE/			
DIM. \ CLA.	A	B	C
1 - 4	±0.05	±0.10	±0.25
4 - 16	±0.07	±0.20	±0.35
16 - 63	±0.10	±0.30	±0.50
63 - 250	±0.18	±0.55	±0.90
250 - 500	±0.30	±0.90	±1.50
500 - 1000	±0.50	±1.50	±2.50

FILE NAME			MATERIAL/材质		FINISH	DRW.NO/图号	
					NOTE 참조		
SCALE	UNIT	TOLERANCE	DESIGN	CHECK	APPROVE	DESCRIPTION 描述	외관도 EXTERNAL VIEW
1.000	MM						
DATE				/	/	MODEL NO./型号	TNU-4041T / 4051T
Hanwha Techwin						SIZE	A0
							SHEET 1 OF 1

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