

Network | Positioning

TNU-6321

2MP Positioning Zoom Camera

Key Features

- 2 megapixel (1920 x 1080) resolution
- 4.44 ~ 142.6mm (32x) varifocal zoom lens
- 60fps@2M (H.264)
- H.264, MJPEG dual codec support
- Day & Night (ICR), WDR (120dB), Defog
- Tampering, Virtual line, Enter / Exit, (Dis)Appear, Face detection, Motion detection
- SD / SDHC / SDXC slot
- Built-in Wiper, Defroster
- Operating temperature -40° ~ + 55°
- Optional IR illuminator SPI-50

Design and specifications are subject to change without notice. The latest product information / specification can be found at HanwhaVision.com
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Specifications

Video

Imaging Device	Size	1/2.8"
	Type	CMOS
Resolution		1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
Max. Framerate	H.265/H.264	60fps/50fps(60Hz/50Hz)
	MJPEG	30fps
Min. Illumination (Lux)	Color(1/30sec, 30IRE)	0.05
	BW(1/30sec, 30IRE)	0.005
Video Out		CVBS: 1.0 Vp-p / 75Ω composite for installation

Lens

Focal Length (mm)		4.44~142.6
Zoom Ratio	Optical	32x
Max Aperture Ratio (F number)	Wide	1.6
	Tele	4.4
Angular Field of View	Horizontal	61.8˚~2.19˚
	Vertical	36.2˚~1.24˚
Min. Object Distance		1.5m(4.92ft)
Focus Control		Auto, Oneshot AF
Lens Type		DC auto iris

Pan / Tilt / Rotate

Pan / Tilt / Rotate Range	Pan	360˚ Endless
	Tilt	-90˚~40˚
Pan Speed	Preset	Max. 120°/sec
	Manual	0.036°/sec~120°/sec
Tilt Speed	Preset	Max. 40°/sec
	Manual	0.012°/sec~40°/sec
Sequence		Preset(255ea), Swing, Group(6ea), Tour, Auto Run, Schedule

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Pan / Tilt / Rotate

Preset Accuracy	±0.3°

Operational

Direction Indicator		Support
Day & Night		Auto(ICR)
Backlight Compensation		BLC, HLC, WDR, SSDR
Wide Dynamic Range (dB)		120
Digital Noise Reduction		SSNR V
Digital Image Stabilization		Support
Defog		Support
Motion Detection	Quantity	8ea
	Shape	8point Polygonal zones
Gain Control		Low, Middle, High
White Balance		ATW, AWC, Manual, Indoor, Outdoor
Electronic Shutter	Mode	Minimum, Maximum, Anti flicker
	Speed Range	1~1/12,000sec
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
Water Removal		Support(with Wiper)

Analytics

Analytics Events	Normal	Defocus detection, Motion detection, Tampering, Fog detection, Face detection, Audio detection, Virtual area(Lotering, Intrusion, Enter/Exit, Appear/Disappear)

Network

Ethernet	RJ-45(10/100BASE-T)
Video Compression	H.265: Main, 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
Bitrate Control	H.265/H.264: CBR or VBR, MJPEG: VBR

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Network

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, IGMPv2, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP(TCP, UDP Unicast), PIM-SM
Application Programming Interface	ONVIF	S, G, T
	Others	SUNAPI(HTTP API), Hanwha Vision Open Platform
Direct Cloud Connection		Optional (needs gateway)

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)
	Others	Start up should be done at above -30°C
Storage Condition	Temperature	-40°C~+60°C(-40°F~+140°F)
	Humidity	0~90% RH(non-condensing)
Input Voltage		24VAC
Power Consumption	24VAC	Max. 100W(Heater On), typical 25W(Heater Off)

Mechanical

Color	White
Material	Aluminum
RAL Code	RAL9003
Product Dimensions	219(W)×528.2(H)×460(D)mm(8.62x20.79x18.11")
Product Weight	14,000g(30.86lb)

DORI (EN62676-4 standard)

Detect (25PPM/ 8PPF)	Wide	64.2m(210.50ft)
	Tele	2,009.0m(6,591.31ft)
Observe (63PPM/ 19PPF)	Wide	25.7m(84.20ft)
	Tele	803.6m(2,636.53ft)
Recognize (125PPM/ 38PPF)	Wide	12.8m(42.10ft)
	Tele	401.8m(1,318.26ft)

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DORI (EN62676-4 standard)

Identify (250PPM/ 76PPF)	Wide	6.4m(21.05ft)
	Tele	200.9m(659.13ft)

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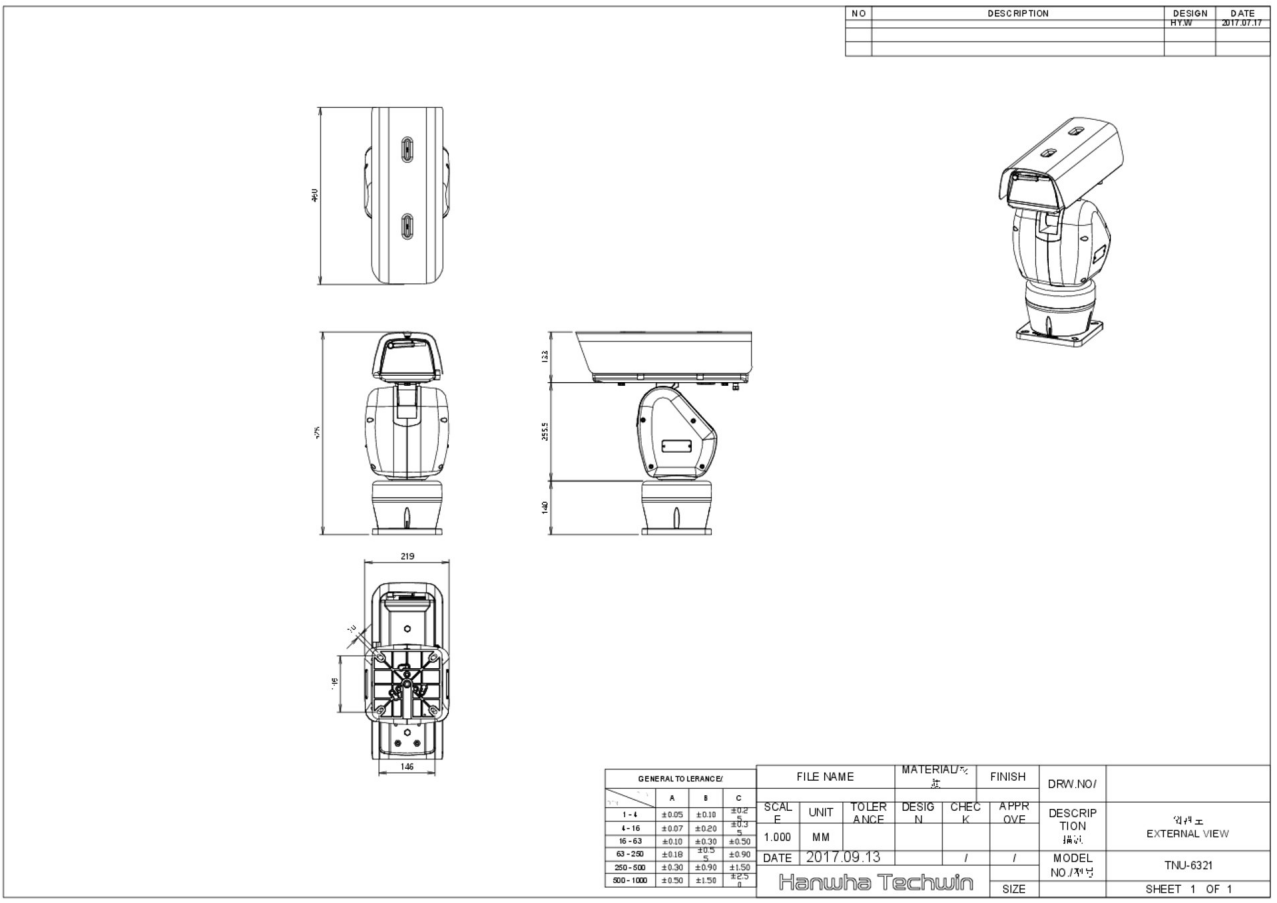
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CAD

Unit: mm [inch]



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