



TNU-6321

2M H.264 NW Positioning Camera

Benefits

- Monitoring a broad range with TNU-6321 and its 360° endless pan and 130° tilt feature moving at 1~40° /sec preset speed.
- In addition, the camera's flexibility is increased by 255 preset positions, allowing users to save settings for pan/tilt functions and automatically view the desired location.
- See much further, capturing everything with sharpness without losing details with 32x Optical zoom and 16x digital zoom.
- Increased image clarity in poor weather conditions such as fog or yellow dust with Defog image processing technology. The visibility of the cameras can be enhanced in any weather condition so that users can monitor full-time.

Key Features

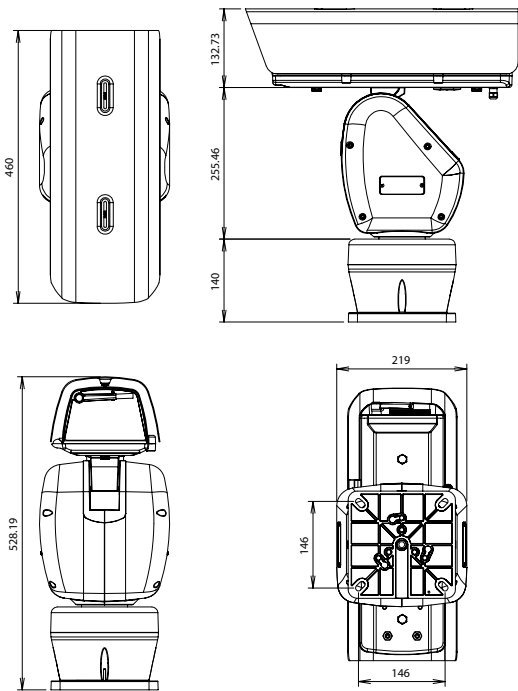
- Max. 2megapixel (1920 x 1080) resolution
- 4.44 ~ 142.6mm (32x) varifocal lens
- Max. 60fps@2M (H.264), Max. 15fps@2M (MJPEG)
- H.264, MJPEG codec support
- Day & Night (ICR), WDR (120dB), Defog
- Tampering, Virtual line, Enter / Exit, (Dis)Appear
- Face detection, Motion detection
- SD / SDHC / SDXC slot

TNU-6321

TNU-6321	
VIDEO	
Imaging Device	1/2.8" 2MP CMOS
Effective Pixels	1944(H)x1212(V)
Min. Illumination	Colour: 0.05Lux(F1.6, 1/30sec) B/W: 0.005 Lux(F1.6, 1/30sec)
Video Out	CVBS: 1.0 Vp-p / 75Ω composite, 720x480(N), 720x576(P), for installation
LENS	
Focal Length (Zoom Ratio)	4.44~142.6mm(32x) zoom
Max. Aperture Ratio	F1.6(Wide)~F4.4(Tele)
Angular Field of View	H: 61.8°(Wide)~2.19°(Tele) / V: 36.2°(Wide)~1.24°(Tele)
Min. Object Distance	1.5m(4.92ft)
Focus Control	Auto, One shot AF
Lens Type	DC auto iris
PAN / TILT / ROTATE	
Pan Range	360° Endless
Pan Speed	0.036°~120°/sec
Tilt Range	-90°~40°
Tilt Speed	0.012°~ 40°/sec
Sequence	Preset(255ea), Swing, Group(6ea), Trace, Tour(1ea), Auto Run, Schedule
Preset Accuracy	±0.3°
Azimuth	Support
OPERATIONAL	
Camera Title	Displayed up to 85 characters
Day & Night	Auto(ICR)
Backlight Compensation	BLC, HLC, WDR, SSSR
Wide Dynamic Range	120dB
Digital Noise Reduction	SSNRV
Digital Image Stabilization	Support
Defog	Support
Motion Detection	8ea, rectangular zones
Gain Control	Low, Middle, High
White Balance	ATW, AWC, Manual, Indoor, Outdoor
LDC	Support
Electronic Shutter Speed	Minimum, Maximum, Anti flicker (2~1/12,000sec)
Analytics	Defocus detection, Directional detection, Fog detection, Face detection, Motion detection, Appear/Disappear, Enter/Exit, Loitering, Tampering, Virtual line, Audio 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 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
IR Illuminator (Optional)	Support (Auto/Manual)
Wiper	Support

Dimensions

Unit:mm(inch)



TNU-6321	
NETWORK	
Ethernet	RJ-45(10/100BASE-T)
Video Compression	H.265/H.264: Main/Baseline/High, MJPEG
Resolution	1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
Max. Framerate	H.265/H.264: Max. 60fps/50fps(60Hz/50Hz) MJPEG: Max. 30fps/25fps(60Hz/50Hz)
Smart Codec	Manual(5ea area), WiseStreamII
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 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 Explorer11, MS Edge, Mozilla Firefox(Windows 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	-40°C~+60°C(-40°F ~ +140°F) / Less than 90% RH
Certification	IP66, Safety(UL, KC-SDOC), EMC(FCC, CE, VCCI, RCM, KC)
ELECTRICAL	
Input Voltage	24VAC
Power Consumption	Max 100W(Heater On), typical 25W(Heater Off)
MECHANICAL	
Colour / Material	White / Aluminum
RAL Code	RAL9003
Product dimensions / weight	219(W)×528.2(H)×460(D)mm (8.62x20.79x18.11"), 14Kg (30.86 lb)

- * The latest 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.