



Network

Positioning

# TNU-6321

2MP Positioning Camera



## Key Features

- Max. 2megapixel (1920 x 1080) resolution
- 4.44 ~ 142.6mm (32x) varifocal lens
- Max. 60fps@2MP (H.265/H.264), Max. 30fps@2MP (MJPEG)
- H.265, H.264, MJPEG codec support
- Day & Night (ICR), WDR (120dB), Defog
- Tampering, Virtual line, Enter / Exit, (Dis)Appear, Audio detection
- Face detection, Motion detection
- microSD / SDHC / SDXC slot

## Compatible Accessories (Optional)



SPI-50



SBU-500WM

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## Specifications

### Video

Imaging Device	1/2.8" CMOS
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
Min. Illumination	Color: 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), Tour(1ea), Auto Run, Schedule
Preset Accuracy	±0.3

### Operational

Camera Title	Displayed up to 85 characters
Direction Indicator	Support
Day & Night	Auto(ICR)
Backlight Compensation	BLC, HLC, WDR, SSDR
Wide Dynamic Range	120dB
Digital Noise Reduction	SSNR V
Digital Image Stabilization	Support
Defog	Support
Motion Detection	8ea, 8point polygonal zones
Gain Control	Low, Middle, High
White Balance	ATW, AWC, Manual, Indoor, Outdoor
Electronic Shutter Speed	Minimum, Maximum, Anti flicker (1~1/12,000sec)
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

<b>Alarm Events</b>	File upload via FTP and E-Mail Notification via E-Mail SD/SDHC/SDXC or NAS recording at event triggers Alarm output Handover
<b>Audio In</b>	Selectable(Mic in/Line in), Supply voltage: 2.5VDC(4mA), Input impedance: 2K Ohm
<b>Audio Out</b>	Line out, Max.output level: 1Vrms
<b>IR Illuminator (Optional)</b>	Support (Auto/Manual)
<b>Water Removal</b>	Support (with Wiper)

## Network

<b>Ethernet</b>	RJ-45(10/100BASE-T)
<b>Video Compression</b>	H.265/H.264: Main/Baseline/High, MJPEG
<b>Audio Compression</b>	G.711 u-law, G.726 G.726(ADPCM) 8KHz, G.711 8KHz G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC-LC: 48Kbps at 16KHz
<b>Smart Codec</b>	Manual(Sea area), WiseStream II
<b>Bitrate Control</b>	H.264/H.265: CBR or VBR MJPEG: VBR
<b>Streaming</b>	Unicast(20 users), Multicast Multiple streaming(Up to 10 profiles)
<b>Protocol</b>	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, SRTT
<b>Security</b>	HTTPS(SSL) login authentication Digest login authentication IP address filtering User access log 802.1X authentication(EAP-TLS, EAP-LEAP)
<b>Application Programming Interface</b>	ONVIF Profile S/G/T SUNAPI(HTTP API) Wisenet open platform

## General

<b>Webpage Language</b>	English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek
<b>Edge Storage</b>	Micro SD/SDHC/SDXC 1slot 256GB
<b>Memory</b>	1024MB RAM, 256MB Flash

## Environmental & Electrical

<b>Operating Temperature / Humidity</b>	-40°C~+55°C(-40°F ~ +131°F) / Less than 90% RH
<b>Storage Temperature / Humidity</b>	-40°C~+60°C(-40°F ~ +140°F) / Less than 90% RH
<b>Certification</b>	IP66, Safety(UL, KC-SDOC), EMC(FCC, CE, VCCI, RCM, KC), IK10(Except wiper & window)
<b>Input Voltage</b>	24VAC
<b>Power Consumption</b>	Max 100W(Heater On), typical 25W(Heater Off)

## Mechanical

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

## DORI (EN62676-4 standard)

<b>Detect (25PPM/ 8PPF)</b>	Wide: 64.2m(210.50ft) / Tele: 2.009.0m(6,591.31ft)
<b>Observe (63PPM/ 19PPF)</b>	Wide: 25.7m(84.20ft) / Tele: 803.6m(2,636.53ft)
<b>Recognize (125PPM/ 38PPF)</b>	Wide: 12.8m(42.10ft) / Tele: 401.8m(1,318.26ft)
<b>Identify (250PPM/ 76PPF)</b>	Wide: 6.4m(21.05ft) / Tele: 200.9m(659.13ft)

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CAD

Unit: mm [inch]

