

4MP 32X SOLAR POWER NETWORK PTZ CAMERA

TB-SPP32-H4811VFBI-DI/4G

Product Image Dimensions

- Dimensions: Ø220 mm × 382.1 mm
- Weight: 6 kg (13.23 lb.)
- Power: 12 VDC
- Battery Voltage: 9 to 12.6 V
- Battery Life: more than 500 cycles
- Operating Conditions: -30°C to 65°C (-22°F to 149°F), Humidity less than 90% RH (non-condensing)

Features

- 1/1.8" progressive scan CMOS dual channel
- Max. 4MP(2560 × 1440) @25/30fps resolution
- 32x optical zoom and 16x digital zoom
- Standalone with solar panel and built-in battery
- H.265+/H.265/H.264+/H.264/MJPEG codec
- WDR (120dB), BLC, HLC, 3D DNR, Defog
- Support 4G communication
- Built-in SD card slot
- IR distance up to 200m (PTZ channel)
- IP67, IK10



ONVIF®



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Specifications

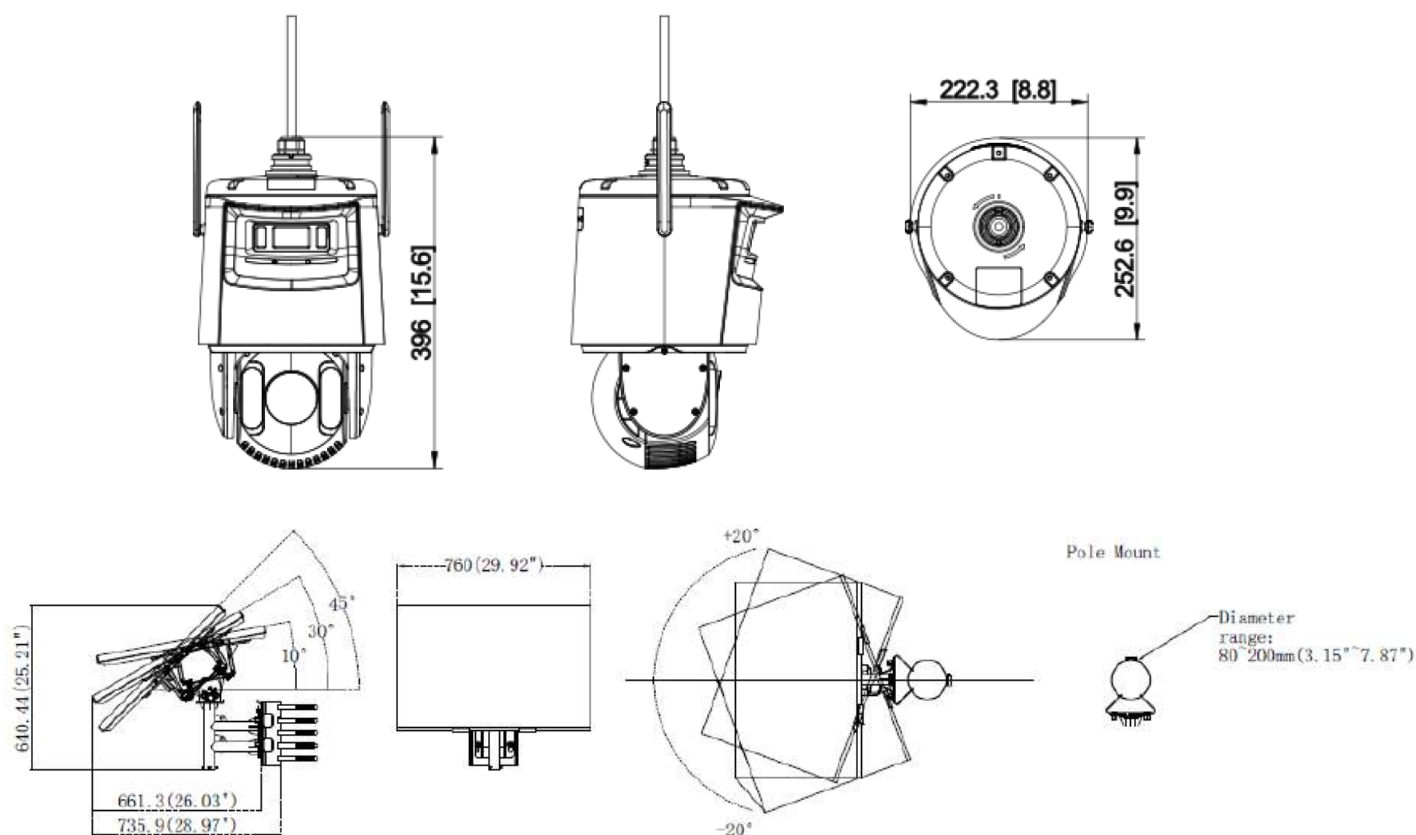
Camera	
Image Sensor	[Bullet channel] 1/1.8" Progressive Scan CMOS, [PTZ channel] 1/1.8" Progressive Scan CMOS
Max. Resolution	[Bullet channel] 2560 × 1440, [PTZ channel] 2560 × 1440
Min. Illumination	[Bullet channel]: 0.0005 Lux @ (F1.0, AGC ON), 0 Lux with light; [PTZ channel]: Color: 0.005 Lux @ (F1.5, AGC ON), B/W: 0.001 Lux @ (F1.5, AGC ON), 0 Lux with IR
Shutter Time	1 s to 1/30,000 s
Slow Shutter	Yes
Day & Night	ICR
Lens	
Focal Length	[Bullet channel] 2.8 mm, [PTZ channel] 5.9 to 188.8 mm
Zoom	[PTZ channel] 32 × optical, 16 × digital
Iris	Auto/Manual
Focus	Auto/Manual/Semiauto
Aperture	[Bullet channel]: F1.0; [PTZ channel]: F1.5
FOV	[Bullet channel] horizontal field of view: 108°, vertical field of view: 56°, diagonal field of view: 134°, [PTZ channel] horizontal field of view: 60.2° to 2.3°, vertical field of view: 35.2° to 1.3°, diagonal field of view: 67.4° to 2.6°
Illuminator	
Supplement Light Type	[Bullet channel] IR, [PTZ channel] IR
Supplement Light Range	[Bullet channel] IR: up to 30 m, [PTZ channel] IR: up to 200 m
Smart Supplement Light	Yes
PTZ	
Movement Range	Pan: 360°, Tilt: -15° to 90° (auto flip)
Pan Speed	Configurable from 0.1° to 80°/s; preset speed: 80°/s
Tilt Speed	Configurable from 0.1° to 80°/s, preset speed 80°/s
Proportional Pan	yes
Presets	300
Preset Freezing	yes
Patrol Scan	8 patrols, up to 32 presets for each patrol
Pattern Scan	4 pattern scans, record time over 10 minutes for each scan
Park Action	Preset, patrol scan
3D Positioning	yes
PTZ Status Display	yes
Scheduled Task	Preset, patrol scan, dome reboot, aux output, dome adjust
Power-off Memory	yes

Video and Audio	
Streaming Capability	Multiple streaming (3 Streams)
Main Stream	[Bullet channel] 50 Hz: 25 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720), 60 Hz: 30 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720), [PTZ channel] 50 Hz: 25 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720), 60 Hz: 24 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720)
Sub-Stream	[Bullet channel] 50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288), 60 Hz: 30 fps (704 × 480, 640 × 480, 352 × 240), [PTZ channel] 50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288), 60 Hz: 24 fps (704 × 480, 640 × 480, 352 × 240)
Third Stream	[Bullet channel] 50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288), 60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240), [PTZ channel] 50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288), 60 Hz: 24 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240)
Video Compression	Main stream: H.265+/H.265/H.264+/H.264, Sub-stream: H.265/H.264/MJPEG, Third stream: H.265/H.264/MJPEG
Video Bit Rate	32 Kbps to 16 Mbps
Scalable Video Coding (SVC)	H.264 and H.265 encoding
Region of Interest (ROI)	8 fixed regions for each stream
Audio Compression	G.711, G.722.1, G.726, MP2L2, PCM, MP3, AAC-LC
Audio Sampling Rate	AAC-LC: 16 kHz, 32 kHz, 48 kHz, MP2L2: 16 kHz, 32 kHz, 48 kHz, PCM: 8 kHz, 16 kHz, 32 kHz, 48 kHz, MP3: 8 kHz, 16 kHz, 32 kHz, 48 kHz
Environment Noise Filtering	Yes
Network	
Security	Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-TLS, EAP-LEAP, EAP-MD5), IP address filter
Protocols	TCP/IP, ICMP, HTTP, HTTPS, 802.1X, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, UDP, IPv4/IPv6, IGMP, DHCP, Bonjour, WebSocket
API	ONVIF (profile S/G/T), SDK, Open-ended API
User/Host	Up to 32 users, 3 user levels: administrator, operator, and user
Network Storage	NAS (NFS, SMB/CIFS), ANR
Web Browser	IE 10+, Chrome 57+, Firefox 52+, Safari 12+
Mobile Communication	
Mobile Communication Type	4G
Frequency	
Standard	

Image	
Image Parameters Switch	Yes
Image Settings	Saturation, brightness, contrast, sharpness
Day/Night Switch	Day, night, auto, scheduled-switch
Wide Dynamic Range (WDR)	120 dB
SNR	> 52dB
Image Enhancement	BLC, HCL, Defog, 3D DNR, EIS (Built-in gyroscope to improve EIS performance)
Regional Focus	yes
Regional Exposure	yes
Interface	
Ethernet Interface	RJ45, self-adaptive 10M/100M Ethernet port
On-Board Storage	Built-in memory card slot, support Micro SD/Micro SDHC/Micro SDXC, up to 256 GB
Audio	1 input (line in), max. input amplitude: 2-2.4 vpp, input impedance: 1 K Ω $\pm$ 10%, 1 output (line out), line level, output impedance: 600 Ω
Alarm	2 input(s), 1 output(s)
Reset Key	Yes
Power Output	12 VDC, max. 1000 mA
Event	
Basic Event	[PTZ channel] motion detection, video tampering alarm, [PTZ channel & bullet channel] alarm input and output, exception
Smart Event	[PTZ channel] line crossing detection, intrusion detection, region entrance detection, region exiting detection
Linkage	[Bullet channel] Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, and trigger recording, [PTZ channel] Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, trigger recording, and PTZ actions (such as preset, patrol scan, pattern scan)
Smart Tracking	[PTZ channel] yes
Smart Linkage	Manual tracking, auto tracking, tracking takeover, track in turn
Deep Learning Function	
Face Capture	[Bullet channel] no,[PTZ channel] yes
General	
Power	12 VDC $\pm$ 25%, max. 28 W,Typical power scenarios: 8.7 W (4G working); Standby scenarios: 7.7W (4G working); Sleep mode: 100 mW
Dimension	$\varnothing$ 220 mm $\times$ 382.1 mm ($\varnothing$ 8.66" $\times$ 15.04")
Weight	Approx. 6 kg (13.23 lb.)

Material	Metal
Operating Condition	-30 °C to 65 °C (-22 °F to 149 °F). Humidity 90% or less (non-condensing)
Protection	IP67, IK10
General Function	mirror, password protection, watermark, IP address filter
Demist	Demist by heating the glass
Battery	
Battery Type	Lithium
Battery Voltage	9 to 12.6 V
Capacity	360 WH (90 WH for each battery)
Max. Charging Voltage	12.6 V
Operating Temperature	Charging: -20 °C to 45 °C (-4 °F to 113 °F) Discharging: -20 °C to 60 °C (-4 °F to 140 °F)
Cycle Lifetime	Performance mode: 1.5 days. Proactive mode: 2 days. Standby mode: 80 days *in cloudy/rainy days (25 °C)
Battery Life	More than 500 cycles
Battery Weight	Approx. 2.74 kg (6.0 lb.) (0.685 kg (1.5 lb.) for each battery)

Dimensions (mm)



Specifications subject to change without notice.