

# 4MP 25X SOLAR POWER NETWORK PTZ CAMERA

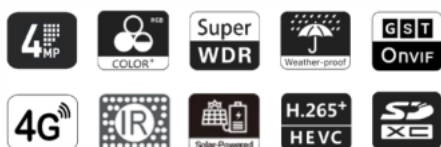
TB-SPP25-H4811VFBI-DI/4G

## Product Image Dimensions

- Dimensions: Ø208 mm × 344.8 mm
- Weight: 29.9 kg (65.9 lb.)
- Power: 12 VDC
- Battery Voltage: 10.8 V
- Battery Life: more than 500 cycles
- Operating Conditions: -30°C to 65°C (-22°F to 149°F), Humidity less than 95% RH (non-condensing)

## Features

- 1/2.8" progressive scan CMOS
- Max. 4MP(2560 × 1440) @25/30fps resolution
- 25x optical zoom and 16x digital zoom
- Standalone with solar panel and built-in battery
- H.265/H.264/MJPEG codec
- WDR (120dB), BLC, HLC, 3D DNR, Defog
- Support 4G, Wifi communication
- Built-in SD card slot
- IR distance up to 150m
- IP66



ONVIF®



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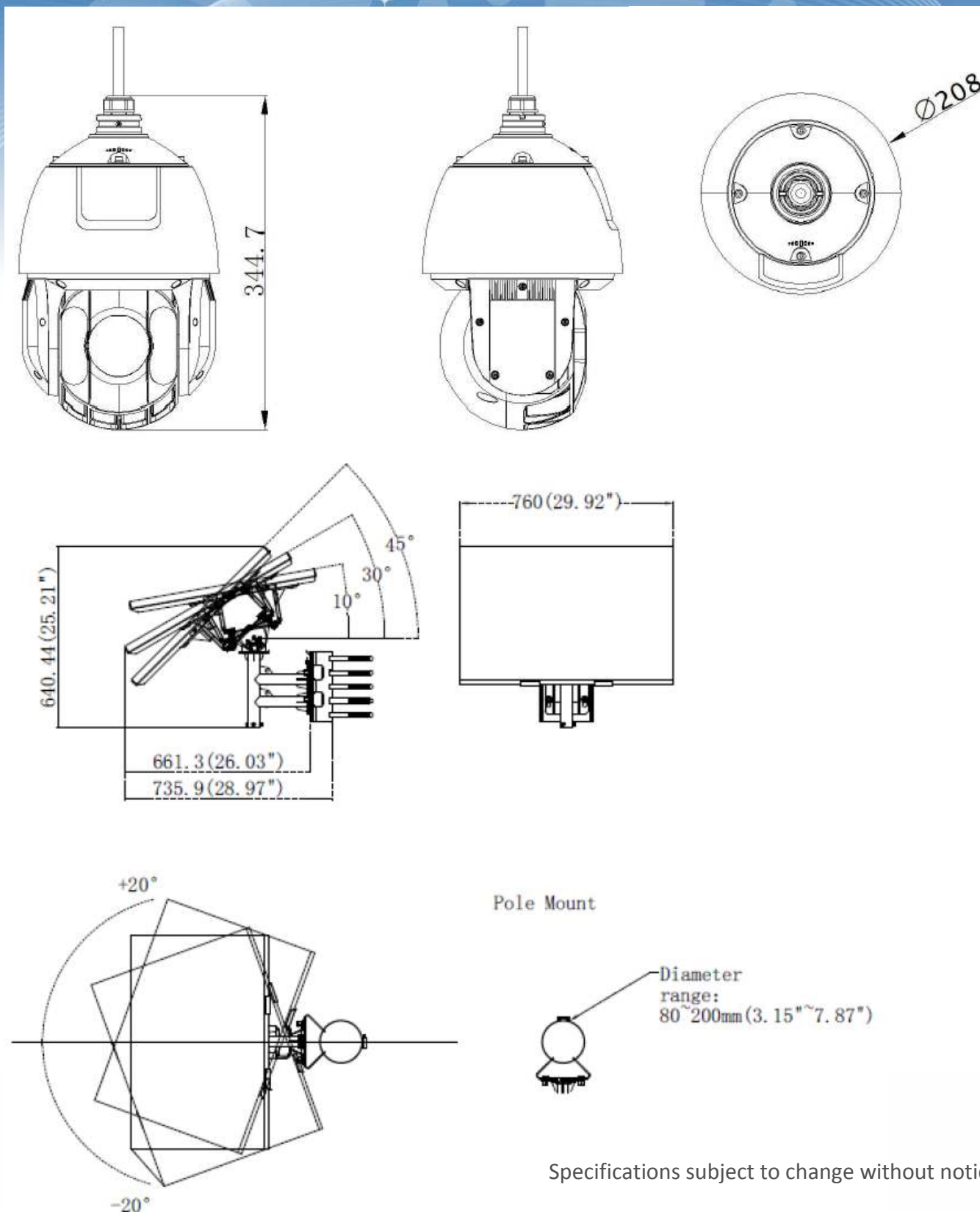
## Specifications

| Camera                 |                                                                                                                                                             |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Image Sensor           | 1/2.8" Progressive Scan CMOS                                                                                                                                |
| Max. Resolution        | 4MP (2560 × 1440)                                                                                                                                           |
| Min. Illumination      | color: 0.05Lux@(F1.6, AGC ON), B/W: 0.01Lux@(F1.6, AGC ON), 0 Lux with IR                                                                                   |
| Shutter Time           | 1 s to 1/30,000 s                                                                                                                                           |
| Slow Shutter           | Yes                                                                                                                                                         |
| Day & Night            | IR cut filter                                                                                                                                               |
| Lens                   |                                                                                                                                                             |
| Focal Length           | 4.8 mm ~ 120 mm                                                                                                                                             |
| Zoom                   | 25 × optical, 16 × digital                                                                                                                                  |
| Iris                   | Auto/Manual                                                                                                                                                 |
| Focus                  | Auto/Manual/Semiauto                                                                                                                                        |
| Aperture               | F1.6                                                                                                                                                        |
| FOV                    | Horizontal field of view: 55° to 2.4° (wide-tele),<br>Vertical field of view: 33° to 1.4° (wide-tele),<br>Diagonal field of view: 61.5° to 2.8° (wide-tele) |
| Illuminator            |                                                                                                                                                             |
| Supplement Light Type  | IR                                                                                                                                                          |
| Supplement Light Range | IR distance: up to 150 m                                                                                                                                    |
| PTZ                    |                                                                                                                                                             |
| Movement Range         | Pan: 360°, Tilt: -15° to 90° (auto flip)                                                                                                                    |
| Pan Speed              | Configurable from 0.1° to 120°/s; preset speed: 120°/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                                                                                                                                             |
| Park Action            | Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan                                                             |
| 3D Positioning         | yes                                                                                                                                                         |
| PTZ Status Display     | yes                                                                                                                                                         |
| Scheduled Task         | Preset, pattern scan, patrol scan, auto scan, tilt scan, random scan, frame scan, panorama scan, dome reboot, dome adjust, aux output                       |
| Power-off Memory       | yes                                                                                                                                                         |

| Video and Audio             |                                                                                                                                                                              |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Streaming Capability        | Multiple streaming (3 Streams)                                                                                                                                               |
| Main Stream                 | 50 Hz: 25 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720)<br>60 Hz: 30 fps (2560 × 1440, 1920 × 1080, 1280 × 960, 1280 × 720)                                         |
| Sub-Stream                  | 50 Hz: 25 fps (704 × 576, 640 × 480, 352 × 288)<br>60 Hz: 30 fps (704 × 480, 640 × 480, 352 × 240)                                                                           |
| Third Stream                | 50 Hz: 25 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288)<br>60 Hz: 30 fps (1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240) |
| Video Compression           | H.265/H.264/MJPEG                                                                                                                                                            |
| Scalable Video Coding (SVC) | Yes                                                                                                                                                                          |
| Region of Interest (ROI)    | fixed region                                                                                                                                                                 |
| Audio Compression           | G.711, G.722.1, G.726, MP2L2, MP3, PCM, AAC-LC                                                                                                                               |
| Audio Sampling Rate         | MP2L2: 16 kHz, 32 kHz, 48 kHz; AAC-LC: 16 kHz, 32 kHz, 48 kHz;<br>PCM: 8 kHz, 16 kHz, 32 kHz, 48kHz; MP3: 8 kHz, 16 kHz, 32 kHz, 48 kHz                                      |
| Environment Noise Filtering | Yes                                                                                                                                                                          |
| Network                     |                                                                                                                                                                              |
| Security                    | Authenticated username and password, MAC address binding, HTTPS encryption, 802.1X authenticated access, IP address filter                                                   |
| Protocols                   | IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP/IP, UDP, IGMP, ICMP, 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)                                                                                                                                                         |
| Web Browser                 | Chrome 57+, Firefox 52+, Safari 12+, IE10-11                                                                                                                                 |
| Wi-Fi Communication         |                                                                                                                                                                              |
| Wireless Range              | Up to 20 m (The performance varies based on actual environment)                                                                                                              |
| Mobile Communication        |                                                                                                                                                                              |
| Frequency                   | LTE FDD/LTE TDD/WCDMA/HSPA+/GSM/GPRS/EDGE                                                                                                                                    |
| Standard                    | LTE FDD: Band 1,3,5,7,8,20,28<br>LTE TDD: Band 38,40,41<br>WCDMA/HSPA+: Band 1,5,8<br>GSM/GPRS/EDGE:850/900/1800MH                                                           |
| 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                                                                                                                                                      |

| Interface                     |                                                                                                                                                                                                      |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Ethernet Interface            | RJ45, self-adaptive 10M/100M Ethernet port                                                                                                                                                           |
| On-Board Storage              | Built-in memory card slot, support microSD/microSDHC/microSDXC card, up to 512 GB,Built-in eMMC storage, up to 256 GB                                                                                |
| Audio                         | 1 audio input, 2.0 to 2.4Vp-p, 1k Ohm±10%,<br>1 audio output, line level, impedance: 600 Ω                                                                                                           |
| Alarm                         | 2 alarm inputs                                                                                                                                                                                       |
| Reset Key                     | Yes                                                                                                                                                                                                  |
| Power Output                  | 12 VDC, max. 1000 mA                                                                                                                                                                                 |
| Event                         |                                                                                                                                                                                                      |
| Basic Event                   | Motion detection,video tampering alarm,alarm input and output,exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error)                                              |
| Smart Event                   | Line crossing detection, intrusion detection, region entrance detection, region exiting detection, unattended baggage detection, object removal detection, audio exception detection, Face detection |
| Linkage                       | Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger alarm output, and PTZ actions (such as preset, patrol scan, pattern scan)                                             |
| General                       |                                                                                                                                                                                                      |
| Power                         | 12 VDC                                                                                                                                                                                               |
| Dimension                     | Ø208 mm × 344.8 mm                                                                                                                                                                                   |
| Weight                        | Approx. 29.9 kg (65.9 lb.)<br>With Package Weight:Approx. 35.3 kg (77.8 lb.)                                                                                                                         |
| Material                      | Metal                                                                                                                                                                                                |
| Operating Condition           | -30°C to 65°C (-22°F to 149°F)                                                                                                                                                                       |
| Protection                    | IP66                                                                                                                                                                                                 |
| Power Consumption and Current | Max. 20 W (including max. 7 W for IR and max. 1.6 W for heater)                                                                                                                                      |
| Battery                       |                                                                                                                                                                                                      |
| Battery Type                  | Lithium                                                                                                                                                                                              |
| Battery Voltage               | 10.8 V                                                                                                                                                                                               |
| Capacity                      | 360 WH (90 WH for each battery)                                                                                                                                                                      |
| 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: 2 days. Proactive mode: 2.5 days. Standby mode: 80 days<br>*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.