

## 2MP PTZ Camera

- Ultra HD Resolution Up to 2MP
- Quad Streaming
- HTTPS, SSL, Digest Authentication, AES 256 Encryption, RTSP Validation.
- Digital Alarm 2 Ch In/1 Ch Out
- IP67 & IK10 compliant
- NDAA Compliant
- OWASP Rev. 4.0 Level 2 Cyber Security Certified by STQC



### Cyber Security

The camera is secured and reliable with OWASP Rev. 4.0 Cyber Security standard as per IoTSCS scheme by STQC with features such as HTTPS digest authentication, Watermark, RTSPS, AES 256 encryption, SHA256 and RSA2048, OTP, Signed Firmware, Firmware Anti-rollback, TEE (Trusted Execution Environment) and TRNG

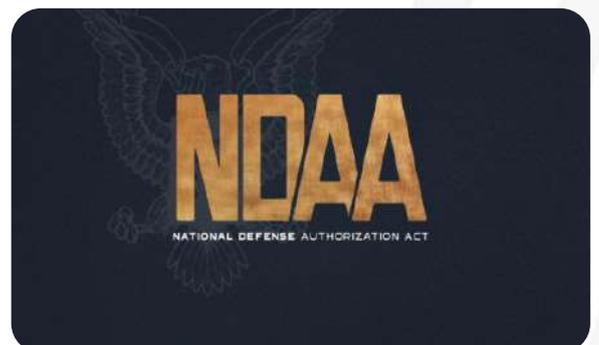


### Mean Time Between Failure (MTBF)

With MTBF of more than 100000 hours this camera operates without disturbances. The procedure for determining the amount of mean time between failure involves taking the entire operating time of an equipment and dividing it by the total number of failures that happened during that same time.

### NDAA Compliant

These cameras are fully NDAA compliant. With adherence to the National Defense Authorization Act's rigorous standards, rest assured that your surveillance solution not only offers unmatched performance but also aligns with the highest levels of regulatory compliance.



## Technical Specifications:

| Specifications                       | SS-EN212P-(I)   |
|--------------------------------------|---|
| <b>Camera</b>                        |   |
| Image sensor                         | 1/2.8" Progressive SCAN CMOS Sensor   |
| Min. illumination                    | Colour: 0.001Lux@F1.6; B/W: 0.0001Lux@F1.6, 0 Lux at IR ON  |
| Resolution                           | 1920(H)x1080(V)   |
| Optical zoom                         | 36X Optical Zoom Lens   |
| Digital zoom                         | 16X   |
| Focal length                         | 5.7~205.3mm   |
| Iris                                 | F1.6(W)~F4.4(T)   |
| Angle of View                        | H63°~H3°/D69°~D3°/V38°~V1°  |
| Zoom speed                           | 1-10 level  |
| Focus mode                           | Auto/manual   |
| Focus area                           | Panoramic/central focus   |
| S/N ratio                            | >58dB   |
| Image adjust                         | Support brightness, contrast, saturation, sharpness, Hue can be adjusted through web  |
| White balance                        | Auto, Manual, Warm light, Natural light, Incandescent lamp, fluorescent lamp, Locked WB   |
| Image mode                           | Auto/Indoor/Outdoor   |
| Iris control                         | Auto/ Manual  |
| Electronic shutter                   | Manual (1/1~1/1,00,000, Auto (normal: 1/1~1/30000 s; illumination mode:1/5~1/30,000s)   |
| Auto slow shutter                    | On/Off  |
| Gain control                         | Lower/Low/Middle/High/Higher  |
| BLC                                  | On/Off  |
| Electronic Image Stabilization (EIS) | Support   |
| Exposure compensation                | -6/3 ~ 6/3  |
| HLC                                  | On/Off  |
| WDR                                  | Upto120dB, On/Off   |
| Day/Night                            | Auto/Color/ B/W/Extern  |
| Mirror                               | Normal/ Horizontal Mirror/Vertical Mirror/180° rotation   |
| DNR                                  | 3D/2D DNR, On/Off (1~5)   |
| Defog                                | On/Off  |
| Anti-Shake                           | On/Off  |
| <b>Audio/Video Compression</b>       |   |
| Video compression                    | H.265/H.264/MJPEG   |
| H.265 encoding Type                  | Support   |
| H.264 encoding Type                  | Base Line / Main Profile / High Profile   |
| Streaming                            | Mainstream: 1080P(1920x1080)@25/30fps<br>Sub Stream: 720P(1280x720)@25/30fps<br>Third Stream: VGA(640x480)@15fps<br>Fourth Stream: VGA(640x480)@15fps |
| Output format                        | PAL/NTSC adjustable   |

|                                    |  |
|------------------------------------|--|
| Video bit rate                     | Constant bit rate, Variable bit rate(16kbps-8000kbps)  |
| Stream type                        | Complex stream/ Video stream   |
| Audio compression                  | G.711u   |
| Audio bit rate                     | 8-64Kbps   |
| Audio control                      | Input volume (0-100), Input volume (0-100)   |
| ROI                                | 8 zones (1-6)  |
| <b>PTZ Function</b>                |  |
| Pan/Tilt range                     | Pan: 0° ~ 360° endless; Tilt: 185° (-5° ~ 180°)  |
| Manual Control Speed               | Pan: 0.1° ~350° /s; Tilt: 0.1° ~350° /s  |
| Preset speed                       | 400°/s   |
| Preset accuracy                    | ±0.1°  |
| Preset                             | 256  |
| Cruise                             | 8 groups   |
| Pattern                            | 4 groups   |
| Continuous scan                    | Support  |
| Proportion zoom                    | Auto   |
| Home Return                        | Support  |
| PTZ watch                          | Off/ Preset/ Cruise/ Pattern   |
| Auto flip                          | Mechanical Flip  |
| Power off memory                   | Support  |
| 3D positioning                     | Support  |
| Magnification/Coordinate display   | Support  |
| IR irradiation angle               | Automatically grouping adjusted, depending on the zoom ratio   |
| IR Wavelength                      | 850nm  |
| IR distance                        | 250M   |
| Smart IR                           | IR irradiation brightness and angle can be adjusted depending on the zoom ratio  |
| <b>Network</b>                     |  |
| Network protocol                   | ONVIF2.4.1, Profile S, IPv4/IPv6, TCP/IP, UDP, HTTP, HTTPS, SMTP, FTP, NTP, DNS, DDNS, DHCP, ARP, UPnP, RTSP, RTP, RTCP, ICMP, IGMP, SSL, QoS, IEEE802.1x, PPPoE, ICMP, SNMP, SNTp, RSTP |
| Access protocol                    | ONVIF Profile S, ONVIF Profile G, ONVIF Profile G, PSIA, CGI   |
| Browser                            | Support IE11 above   |
| User permission                    | User Add/Delete/Modify, Administrator/ Operator/Ordinary users   |
| Safe mode                          | Authorized username and password   |
| Watermark                          | Available  |
| Privacy mask/Video Blanking Sector | 8 zones  |
| Event linkage                      | Snapshot, SD card video, FTP upload or Email sending, alarm output linkage, Preset linkage   |
| Mobile surveillance                | Support Android, Apple   |
| Device exception                   | Storage expectation, ethernet disconnection, IP conflict, illegal login  |
| OSD                                | Title, time and date overlay, OSD colour/size adjustable   |
| DST                                | Support  |
| System upgrade                     | Support online remote upgrade  |
| Discovery Interface                | ONVIF, Tool to Detect & Configure Device   |

|                                    |   |
|------------------------------------|---|
| Web Server                         | Internal Web Server   |
| Max. User Access                   | 20 Users  |
| Streaming                          | Unicast/ Multicast  |
| ANR                                | Support, match with the NVR   |
| Security Mode                      | Authorized username and password, HTTPS with password, HTTPS digest authentication, Memory Protection controls , Watermark, RTSPS, AES 256 encryption, SHA256 and RSA2048, OTP, Signed Firmware, Firmware encryption, Firmware Antirollback, TEE (Trusted Execution Environment), TRNG, User Authentication, and encrypted firmware, Hardware Secure Boot, security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog |
| <b>Smart Intelligence</b>          |   |
| Motion Detection                   | Set Detection Area, Period, Can Set Multi-Level Sensitivity   |
| Temper Detection                   | 1 Zone, camera is moved, partially obscured, severely defocused, covered or sprayed   |
| Event Actions                      | Enable Alarm Out, Send Email, Start Recording, Play Customized Audio Warning  |
| <b>Interface</b>                   |   |
| Network interface                  | RJ45 10M/100M Network Adaptive  |
| Audio                              | 1CH input/1CH output, monitoring or bidirectional talk  |
| Alarm Input                        | 2 CH inputs   |
| Alarm Output                       | 1CH output, support alarm linkage   |
| Reset                              | Support   |
| SD card                            | Support Max 256G, Support ANR   |
| <b>General</b>                     |   |
| Protection Level                   | IP67 Compliant, IK10 Compliant, TVS 6,000V Lightning Protection, Surge Protection and Voltage Transient Protection  |
| Operating Temperature/<br>Humidity | -50°C ~ 70°C (-40°F ~ +158°F) / 10–95% RH (condensing)  |
| Storage Temperature/<br>Humidity   | -50°C~70°C (-40°F ~ +158°F)/ 10–95% RH (condensing)   |
| Power supply                       | DC24V/1.5A (±10%)   |
| POE                                | PoE+ (802.3at)  |
| Power consumption (max.)           | 13W,20W (Heater on)   |
| Fan & Heater                       | Support   |
| Dimensions(mm)                     | 380(H)*216(D)mm   |
| Weight/PCS(g)                      | About 7kg   |
| Certification                      | Safety: CE, FCC, EN:60950-1, IS 13252 (Part 1):2010, BIS Registered<br>EMC & Immunity: CE, FCC<br>Cyber Security: ISO/IEC 27400 OWASP Level 2 of ASVS v4.0 Appendix C Certificate No. STQC/IOTSCS/0922/001U1<br>Reliability Certification: MTBF > 1,00,000 hours at 40°C  |

\*Note: The latest product information / specification can be found at [sparshsecuritech.com](http://sparshsecuritech.com)



\*Product specifications & appearance are subject to change without prior notice or obligation.

