

## 4MP PTZ Camera

- Ultra HD Resolution Up to 4MP
- 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

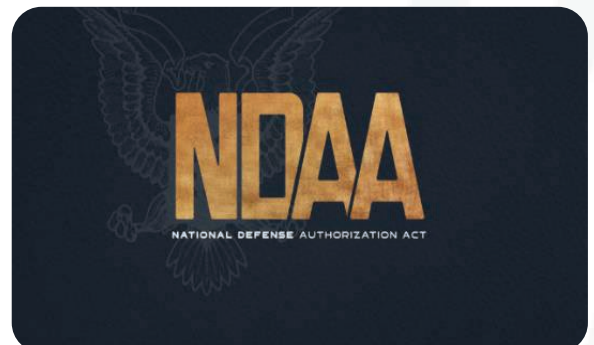


### Mean Time Between Failure (MTBF)

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-EN412P-(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	2560(H)X1440(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: 4MP(2560x1440)/ 1080P(1920x1080)@25/30fps Sub Stream: 720P(1280x720)@25/30fps Third Stream: VGA(640x480)@15fps 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/ Humidity	-50°C ~ 70°C (-40°F ~ +158°F) / 10–95% RH (condensing)
Storage Temperature/ 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 EMC & Immunity: CE, FCC Cyber Security: ISO/IEC 27400 OWASP Level 2 of ASVS v4.0 Appendix C Certificate No. STQC/IOTSCS/0922/001U1 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.

