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SWATAK

Product Technical Specifications

SWATAK PNVD04ML0280-HMST | 4.0 MP AI Network Vandal Dome Camera

Key Features

- Built-in Mic & Speaker.
- Ingress Protection IP67.
- Video Encoding H.265.
- Quad Streams.
- STQC Tested, BIS-ER Certified.

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Parameter	Details
Model	SWATAK PNVD04ML0280-HMST
Make	SECURUS
Camera	
Image Sensor	1/2.8" Progressive Scan CMOS
Max. Resolution	2568(H) x 1448(V) (4MP)
Min. Illumination	Color: 0.002 Lux @ (F1.4, AGC ON), B/W: 0 Lux with IR
Shutter Time	Auto/Manual (1/30 - 1/10000)
Day & Night	IR cut filter
Digital Zoom	16x (Max)
Lens	
Lens Type	Fixed focal lens, 2.8mm/3.6mm/4.0mm (MTO – Made to Order)
Focal Length & FOV	2.8 mm, horizontal FOV 107°, vertical FOV 57°, diagonal FOV 129°
Lens Mount	M16
Iris Type	Fixed
Aperture	F1.0
DORI	
DORI	2.8 mm: D: 44 m, O: 17 m, R: 9 m, I: 4 m
Illuminator	

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Parameter	Details
Supplement Light Type	IR
Supplement Light Range	Up to 30m
Smart Supplement Light	Yes
IR Wavelength	850 nm
Video	
Streaming Capability	Quad Streams
Main Stream	4MP (2560 x 1440) @25 fps
Sub-Stream	720P (1280 x 720), D1 (720 x 576), VGA (640 x 480), CIF (352 x 288) @25 fps
Third Stream	D1 (720 x 576), VGA (640 x 480), CIF (352 x 288) @25 fps
Fourth Stream	D1 (720 x 576), VGA (640 x 480), CIF (352 x 288) @25 fps
Video Compression	H.265/H.264
Video Bit Rate	128Kbps ~ 8192Kbps
Privacy Mask	Up to 4 areas
Bit Rate Control	CBR, VBR
H.264/H.265 Profile	Baseline Profile, Main Profile, High Profile
Video Quality	Ultra, High, Balanced, Standard, Economy
Scalable Video Coding (SVC)	H.264 and H.265 encoding
Region of Interest (ROI)	1 fixed region for main stream and sub-stream

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Parameter	Details
Audio	
Audio Compression	F/W Audio CODEC AAC encode/decode(32KHz, 48KHz @192kbps) ADPCM/G.711/G.726 AEC/ANR and ALC
Audio Bit Rate	64 Kbps
Audio Sampling Rate	8 kHz/16 kHz/32 kHz/44.1 kHz/48 kHz
Environment Noise Filtering	Yes
Network	
Protocols	TCP/IPv4/IPv6, HTTP, HTTPs, QoS, DHCP, DNS, Email, RTP, RTCP, RTSP/RTSPs, SNMP, NTP, PPPOE, SMTP, NTP, TLS/SSL, SFTP, ICMP, IGMP, ARP, UDP, 802.1x, ONVIF
Simultaneous Live View	Up to 6 channels
API	Open Network Video Interface (Profile S, Profile G, Profile T, Profile M), ISAPI, SDK, ISUP
User/Host	Up to 32 users 3 user levels: administrator, operator and user
Smooth Streaming	Yes
Security	Password protection, complicated password, HTTPS encryption, 802.1X authentication (EAP-TLS, EAP-LEAP, EAP-MD5), watermark, IP address filter, All data, including sensitive data, is encrypted with AES 256 and RSA 2048
Client	SWATAK Video Management Software (VMS)
Web Browser	Chrome, Mozilla, Firefox, Opera

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Parameter	Details
Image	
Image Parameters Switch	Yes
Image Settings	Rotate mode, saturation, brightness, contrast, sharpness, gain, white balance, adjustable by client software or web browser
Day/Night Switch	Day, Night, Auto, Schedule
Wide Dynamic Range (WDR)	≥ 140 dB
Signal to Noise Ratio (SNR)	≥ 45 dB
Image Enhancement	BLC, HLC, 3D DNR
Interface	
Ethernet Interface	1 RJ45 10M/100M self-adaptive Ethernet port
On-Board Storage	Storage slot up to 1TB SD/SDHC/SDXC memory
Microphone & Speaker	Yes (Built-in)
Alarm In/Out	1 Channel In / 1 Channel Out (Optional)
Event	
Smart Event	Video Masking Detection
Basic Event	Motion detection (support alarm triggering by specified target types (human and vehicle)), video tampering alarm, exception
Linkage	Upload to FTP/NAS/memory card, notify surveillance center, send email, trigger recording, trigger capture, trigger alarm output, audible warning

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Parameter	Details
Deep Learning Function	
Face Capture	Yes
Perimeter Protection	Line crossing, intrusion, region entrance, region exiting Support alarm triggering by specified target types (human and vehicle)
General	
AI Functions	Face Detection, Human Detection, People Counting, On-Duty Violation, Vehicle Detection, Vehicle Counting, Parking Violation, Smart Motion Detection, Line Crossing, Wrong-Side Vehicle Direction, Video Blind
Power	12V DC ± 25%, 0.5 A, max. 6 W, PoE: IEEE 802.3af/at, Class 3, max. 12W
Material	Metal
Storage Conditions	-30°C to +85°C (-22 °F to 185 °F).
Startup and Operating Conditions	-20°C to +80°C (-4 °F to 176 °F).
Humidity	0 to 90% RH non-condensing
MAC Address	OEM Registered
General Function	Anti-banding, mirror, privacy mask, flash log, password reset via email, pixel counter
Protection	IP67 (NABL Report Available) & IK10
Certification	ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, ISO/IEC 27001:2022, CE, FCC, RoHS, BIS-ER, STQC Approved, NABL Test Report
HTTPs Certificate	15 Years Certificate with Camera

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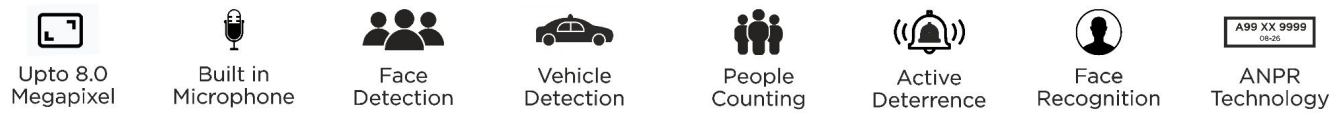
Securus Overview

Securus CCTV is one of the Largest Indian Manufacturer & Supplier of Video Surveillance Products like High Definition Cameras, Standalone Recorders, Network Recorders, POE Switches, Video Management Surveillance Software, CCTV & Networking Cables for Surveillance & Other Surveillance Products & Solutions. Powered by In House R&D Team & State-of-the Art Factory in Electronic Zone Gandhinagar. We Manufacture Products under the **Make in India** Initiative.

Securus AI Technology



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