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SWATAK

Product Technical Specifications

# SWATAK PNLB04ML0800-HMST | 4.0 MP AI Network Bullet 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 PNLB04ML0800-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),<br>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, 4.0mm/6.0mm/8.0mm<br>(MTO – Made to Order) |
| Focal Length & FOV | 8.0 mm, horizontal FOV 38°, vertical FOV 22°,<br>diagonal FOV 42° |
| Lens Mount | M16 |
| Iris Type | Fixed |
| Aperture | F1.0 |
| **DORI** | |
| DORI | 8.0 mm: D: 156 m, O: 62 m, R: 31 m, I: 15 m |
| **Illuminator** | |


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| Supplement Light Type | IR |
| Supplement Light Range | Up to 50m |
| 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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| **Audio** | |
| Audio Compression | F/W Audio CODEC<br>AAC encode/decode(32KHz, 48KHz @192kbps)<br>ADPCM/G.711/G.726<br>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<br>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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| **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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| **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,<br>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) |
| 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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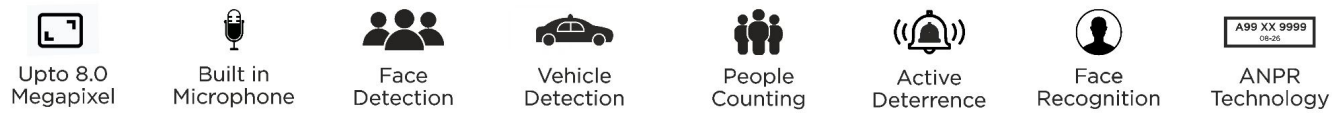
## Securus Overview

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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