



Network

Multi-sensor

# PNM-9030V

15MP Panoramic Camera



## Key Features

- Max. 15MP 180°/220° panoramic stitching image
- Panoramic stitching, original, crop view channel
- H.265 / H.264 : Max. 30fps at all resolutions
- MJPEG : Max. 15fps at under 2Megapixel resolutions
- H.265, H.264, MJPEG codec, WiseStream II supported
- Tampering, Loitering, Directional detection, Virtual line, Enter / Exit
- (Dis)Appear, Audio detection, Motion detection, Handover, Sound classification, Heatmap
- microSD/SDHC/SDXC 2 slots, PoE+, IP66, IK10

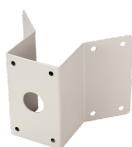
## Compatible Devices



SBP-300CM



SBP-300PM



SBP-300KM



SBP-300WM1



SBP-300LM



SBP-390WM2



SBP-300WM



SBP-276HM



SBP-300B



SBP-300NB

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## Specifications

### Video

|                   |  |
|-------------------|--|
| Imaging Device    | 1/2.8" 5MP CMOSx4  |
| Resolution        | [180° mode]<br>6096x2540, 5760x2400, 5472x2280, 5184x2160, 4800x2000, 4560x1900, 4096x1704, 3840x1600, 2688x1120, 2560x1064, 2048x852, 1920x800, 1280x532, 640x264<br>[220° mode]<br>7744x1936, 6096x1524, 5760x1440, 5472x1368, 5184x1296, 4800x1200, 4560x1140, 4096x1024, 3840x960, 2688x672x 2560x640, 2048x512, 1920x480, 1280x320, 640x160 |
| Max. Framerate    | H.265/H.264: Max. 30fps/25fps(60Hz/50Hz)<br>MJPEG: Max. 15fps(60Hz/50Hz)   |
| Min. Illumination | Color: 0.15Lux(F2.0, 1/30sec)<br>B/W: 0.01Lux (F2.0, 1/30sec)  |
| Video Out         | USB : Micro USB Type B, 1280x720 for installation  |

### Lens

|                           |  |
|---------------------------|--|
| Focal Length (Zoom Ratio) | 4mm Fixed  |
| Max. Aperture Ratio       | F2.0   |
| Angular Field of View     | [180° mode] H: 180°, V: 70°<br>[220° mode] H: 220°, V: 52° |
| Min. Object Distance      | 3m(9.84ft)   |
| Focus Control             | Fixed  |

### Pan / Tilt / Rotate

|                           |                      |
|---------------------------|----------------------|
| Pan / Tilt / Rotate Range | 0°~355° / 0°~60° / - |
|---------------------------|----------------------|

### Operational

|                          |   |
|--------------------------|---|
| Camera Title             | Displayed up to 75 characters   |
| Day & Night              | Auto(ICR)   |
| Backlight Compensation   | BLC, HLC, WDR, SSDR   |
| Wide Dynamic Range       | 120dB   |
| Digital Noise Reduction  | SSNR V  |
| Defog                    | Support   |
| Motion Detection         | 8ea, 8point polygonal zones   |
| Privacy Masking          | 16ea, rectangle zones<br>- Color: Grey/Green/Red/Blue/Black/White<br>- Mosaic   |
| Gain Control             | Low / Middle / High   |
| White Balance            | ATW / AWC / Manual / Indoor / Outdoor   |
| LDC                      | Support   |
| Electronic Shutter Speed | Minimum / Maximum / Anti flicker (2~1/12,000sec)  |
| Video Rotation           | Flip, Mirror, Hallway view(90°/270°)  |
| Analytics                | Directional detection, Motion detection,, Appear/Disappear, Enter/Exit, Loitering, Tampering, Virtual line, Audio detection, Sound classification |

Design and specifications are subject to change without notice. The latest product information / specification can be found at [HanwhaVision.com](http://HanwhaVision.com).

Hanwha Vision is formerly known as Hanwha Techwin.

|                       |   |
|-----------------------|---|
| Business Intelligence | Heatmap   |
| Alarm I/O             | Input 1ea / Output 1ea  |
| Alarm Triggers        | Analytics, Network disconnect, Alarm input  |
| Alarm Events          | File upload via FTP and e-mail<br>Notification via e-mail<br>SD/SDHC/SDXC recording at event triggers<br>Alarm output |

|                                   |  |
|-----------------------------------|--|
| Network                           |  |
| Ethernet                          | RJ-45(10/100/1000BASE-T)   |
| Video Compression                 | H.265/H.264: Main/Baseline/High, MJPEG   |
| Smart Codec                       | Manual(5ea area), WiseStream II  |
| Bitrate Control                   | H.264/H.265: CBR or VBR<br>MJPEG: VBR  |
| Streaming                         | Unicast(15 users) / Multicast<br>Multiple streaming(Up to 5 or 3 profiles)   |
| Protocol                          | IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour, LLDP |
| Security                          | HTTPS(SSL) Login Authentication<br>Digest Login Authentication<br>IP Address Filtering<br>User access log<br>802.1X Authentication(EAP-TLS, EAP-LEAP)                                      |
| Application Programming Interface | ONVIF Profile S/G<br>SUNAPI(HTTP API)  |

|              |   |
|--------------|---|
| General      |   |
| Web Viewer   | Supported OS: Windows 7, 8.1, 10, Mac OS X 10.10, 10.11, 10.12<br>Recommended Browser: Google Chrome<br>Supported Browser: MS Explore11, MS Edge, Mozilla Firefox(Window 64bit only), Apple Safari(Mac OS X only) |
| Edge Storage | Micro SD/SDHC/SDXC 1slot 256GB  |
| Memory       | 8GB RAM, 4GB Flash  |

|                                  |  |
|----------------------------------|--|
| Environmental & Electrical       |  |
| Operating Temperature / Humidity | -40°C ~ +55°C(-40°F ~ +131°F) / Less than 90% RH |
| Storage Temperature / Humidity   | -40°C ~ +60°C(-58°F ~ +140°F) / Less than 90% RH |
| Certification                    | IP66, IK10                                       |
| Input Voltage                    | PoE+(IEEE802.3at, Class4), 12VDC                 |
| Power Consumption                | PoE+: Max 25.5W<br>12VDC: Max 21.0W              |

|                             |                               |
|-----------------------------|-------------------------------|
| Mechanical                  |                               |
| Color / Material            | Ivory / Aluminum              |
| Product Dimensions / Weight | Ø253x165mm(9.96"x6.5"), 3200g |

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**CAD**

Unit:mm [inch]

