



Network

Dome

PNV-A6081R-E1T

2MP Camera with built-in 1TB Rugged SSD



Key Features

- Maximum 2MP resolution, Up to 120fps
- Color: 0.007Lux (F1.3, 1/30sec, 30IRE), BW: 0.0007Lux (F1.3, 1/30sec, 30IRE)
- H.265, H.264, MJPEG, WisestreamIII
- SSD 1TB included
- TPM with FIPS 140-2 level2, Secure boot, Verify firmware forgery
- Video Analytics based on AI
- Object detection and classification (Person, Face, Vehicle, License plate)
- Support Attributes, BestShot
- IP66, IP67, IP6K9K, IK10, NEMA4X
- Connect and record up to 5 additional cameras
- Pre-licensed with 1x Wave channel, purchase additional licenses to suit number of connected cameras

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Specifications

| Video | |
|---------------------------|---|
| Imaging Device | 1/2" CMOS |
| Resolution | 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360 |
| Max. Framerate | H.265/H.264: Max. 60/50fps(60Hz/50Hz, AI analytics on), Max. 120/100fps(60Hz/50Hz, AI analytics off) MJPEG: Max. 15fps/12fps(60Hz/50Hz) |
| Min. Illumination | Color: 0.007Lux(F1.3, 1/30sec, 30IRE) BW: 0.0007Lux(F1.3, 1/30sec, 30IRE), 0Lux(IR LED on), 30/25fps Color: 0.014Lux(F1.3, 1/60sec, 30IRE) BW: 0.0014Lux(F1.3, 1/60sec, 30IRE), 0Lux(IR LED on), 60/50fps Color: 0.028Lux(F1.3, 1/120sec, 30IRE) BW: 0.0028Lux(F1.3, 1/120sec, 30IRE), 0Lux(IR LED on), 120/100fps |
| Video Out | CVBS: 1.0 Vp-p / 75Ω composite, 720x480(N), 720x576(P) for installation |
| Lens | |
| Focal Length (Zoom Ratio) | 4.38~9.33mm(2.13x) motorized varifocal |
| Max. Aperture Ratio | F1.3(Wide)~F2.15(Tele) |
| Angular Field of View | H: 104°(Wide)~44°(Tele) V: 55°(Wide)~24°(Tele) D: 124°(Wide)~51°(Tele) |
| Min. Object Distance | 0.5m(1.64ft) |
| Focus Control | Simple focus |
| Lens Type | P-iris(IR corrected) |
| Pan / Tilt / Rotate | |
| Pan / Tilt / Rotate Range | 0°~360° / 0°~85° / 0°~355° |
| Operational | |
| Camera Title | Displayed up to 85 characters |
| Day & Night | Auto(ICR) |
| Backlight Compensation | BLC, WDR, SDR |
| Wide Dynamic Range | 120dB |
| Digital Noise Reduction | WiseNR II (Based on AI engine), SSNR V |
| Motion Detection | 8ea, 8point Polygonal zones |
| Privacy Masking | 6ea, Rectangular zones - Color: Gray/Black/White |
| Gain Control | Low / Middle / High |
| White Balance | ATW / AWC / Manual / Indoor / Outdoor |
| LDC | Support |
| Electronic Shutter Speed | Minimum / Maximum / Prefer / Anti flicker(1/5~1/12,000sec) Prefer shutter control(Based on AI engine) |

Design and specifications are subject to change without notice. The latest product information / specification can be found at HanwhaVision.com.

Hanwha Vision is formerly known as Hanwha Techwin.

| | |
|--------------------|--|
| Digital PTZ | Support(preset/group) |
| Video Rotation | Flip, Mirror, Hallway view(90°/270°) |
| Analytics | <p>Classified object type: Person/Face/Vehicle/License plate Attributes: Person(Gender, Color and Bag), Face(Age, Gender, Mask and Glasses), Vehicle(Type: car/bus/truck/motorcycle/bicycle and Color) Support BestShot per object Analytics events based on AI engine - Object detection, Virtual line*(Crossing/Direction), Virtual area*(Loitering/Intrusion/Enter/Exit), Face mask detection, Social distancing detection Analytics events - Defocus detection, Motion detection, Tampering, Audio detection, Sound classification, Shock detection, Virtual area(Appear/Disappear)</p> <p>*Some of the video analytics only works with people and vehicle detection</p> |
| Alarm I/O | Input 1ea / Output 1ea |
| Alarm Triggers | Analytics, Network disconnect, Alarm input, App event, Time schedule, MQTT subscription |
| Alarm Events | <p>When alarm trigger occurred - File upload(image): e-mail/FTP - Notification: e-mail - Alarm output - Handover: PTZ preset, send message by HTTP/HTTPS/TCP - Audio clip playback - MQTT: publication</p> |
| Audio In | Selectable(mic in/line in) |
| Audio Out | Line out |
| IR Viewable Length | 40m(131.23ft) |

| | |
|-----------------------------------|--|
| Network | |
| Ethernet | Metal shielded RJ-45(10/100/1000BASE-T) |
| Video Compression | H.265/H.264: Main/High, MJPEG |
| Audio Compression | G.711 u-law /G.726 Selectable G.726(ADPCM) 8KHz, G.711 8KHz G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps AAC-LC: 48Kbps at 16KHz |
| Smart Codec | Manual(5ea area), WiseStreamIII |
| Video Quality Adjustment | H.264/H.265: Target bitrate level control MJPEG: Target bitrate level control |
| Bitrate Control | H.264/H.265: CBR or VBR MJPEG: VBR |
| Streaming | Unicast(6 users) / Multicast Multiple streaming(Up to 5 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, UPnP, Bonjour, LLDP, SRTP(TCP, UDP Unicast), MQTT |
| Security | TPM 2.0(FIPS 140-2 level 2) HTTPS(SSL) Login Authentication Digest Login Authentication IP Address Filtering User access log 802.1X Authentication(EAP-TLS, EAP-LEAP) Device Certificate(Hanwha Private Root CA) Secure Boot, Signed firmware |
| Application Programming Interface | ONVIF Profile S/T/M SUNAPI(HTTP API) |

| | |
|------------------|---|
| General | |
| Webpage Language | English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Greek, Hungarian |
| Edge Storage | 1TB SSD included(WAVE pre-installed) Possible to register the maximum number of camera - up to 6 camera(Host + 5 camera) - Total bandwidth: up to 33Mbps * Cannot support the camera when host camera use AI mode |

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| | |
|--------|----------------------|
| Memory | 4GB RAM, 512MB Flash |
|--------|----------------------|

Environmental & Electrical

| | |
|----------------------------------|---|
| Operating Temperature / Humidity | -30°C~+55°C(-22°F~+131°F) / 0~95%RH(non-condensing) * Start up should be done at above -20°C Humidity control /w AIR vent |
| Storage Temperature / Humidity | -50°C~+60°C(-58°F~+140°F) / 0~90% RH |
| Certification | IP66/IP67/IP6K9K, NEMA4X, IK10 |
| Input Voltage | PoE+(IEEE802.3at type 2, Class4), 12VDC |
| Power Consumption | PoE+: Max 19.2W, typical 14.4W 12VDC: Max 17.5W, typical 12.7W Power redundancy failover |

Mechanical

| | |
|-----------------------------------|--|
| Color / Material | White / Aluminum Bubble: Hard-coated dome |
| RAL Code | RAL9003 |
| Product Dimensions / Weight | ø180x130mm(ø7.09x5.12"), 1900g(4.19 lb) |
| Compatible Conduit hole / Gangbox | 19.1mm(3/4")(M25) single, double, 4" octagon, 4" square |
| Hanging Mount (Dome) | SBP-187HMW |
| Weather Cap (Dome) | include |

Certifications & Standards

| | |
|-------------|--|
| EMC | FCC 47 CFR 15 Subpart B Class A ICES-3(A)/NMB-3(A) CE/UKCA - EN 55032 Class A, EN 50130-4, EN 61000-3-2, EN 61000-3-3 VCCI CISPR 32 Class A RCM AS/NZS CISPR 32 Class A KS C 9832 Class A, KS C 9835 |
| Safety | UL 62368-1, CAN/CSA C22.2 NO. 62368-1 IEC/EN 62471 |
| Environment | IEC/EN 63000 IEC/EN 60529 IP66/IP67, ISO 20653 IP6K9K, IEC/EN 62262 IK10 NEMA 250 type 4X |

DORI (EN62676-4 standard)

| | |
|---------------------------|--|
| Detect (25PPM/ 8PPF) | Wide: 30.0m(98.43ft) / Tele: 95.0m(311.82ft) |
| Observe (63PPM/ 19PPF) | Wide: 12.0m(39.37ft) / Tele: 38.0m(124.73ft) |
| Recognize (125PPM/ 38PPF) | Wide: 6.0m(19.69ft) / Tele: 19.0m(62.36ft) |
| Identify (250PPM/ 76PPF) | Wide: 3.0m(9.84ft) / Tele: 9.5m(31.18ft) |

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CAD

Unit:mm [inch]

