

Network Купольные

# 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

Design and specifications are subject to change without notice. The latest product information / specification can be found at HanwhaVision.com
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# PNV-A6081R-E1T

2MP Camera with built-in 1TB Rugged SSD



## Specifications

### Video

| | | |
|---|---|---|
| **Imaging Device** | Size | 1/2" |
| | Type | CMOS |
| **Resolution** | | 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360 |
| **Max. Framerate** | H.265/H.264 | 120fps/100fps(60Hz/50Hz) |
| | MJPEG | 15fps |
| **Min. Illumination (Lux)** | Color(1/30sec, 30IRE) | 0.007 |
| | BW(1/30sec, 30IRE) | 0.0007 |
| **Video Out** | | CVBS: 1.0 Vp-p / 75Ω composite for installation |

### Lens

| | | |
|---|---|---|
| **Focal Length (mm)** | | 4.38~9.33 |
| **Zoom Ratio** | Optical | 2.13x |
| **Max Aperture Ratio (F number)** | Wide | 1.3 |
| | Tele | 2.15 |
| **Angular Field of View** | Horizontal | 104°~44° |
| | Vertical | 55°~24° |
| | Diagonal | 124°~51° |
| **Min. Object Distance** | | 0.5m(1.64ft) |
| **Focus Control** | | Simple focus |
| **Lens Type** | | P iris(IR corrected) |

### Pan / Tilt / Rotate

| | | |
|---|---|---|
| **Pan / Tilt / Rotate Range** | Pan | 0°~360° |
| | Tilt | 0°~85° |
| | Rotate | 0°~355° |

### Operational

| | |
|---|---|
| **Day & Night** | Auto(ICR) |
| **Backlight Compensation** | BLC, WDR, SSDR |

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## Operational

| | | |
|---|---|---|
| **Wide Dynamic Range (dB)** | | 120 |
| **Digital Noise Reduction** | | WiseNR II (Based on AI engine), SSNR V |
| **Motion Detection** | Quantity | 8ea |
| | Shape | 8point Polygonal zones |
| **Privacy Masking** | Quantity | 6ea |
| | Shape | Rectangular zones |
| | Color / Option | Gray, Black, White |
| **Gain Control** | | Low, Middle, High |
| **White Balance** | | ATW, AWC, Manual, Indoor, Outdoor |
| **LDC** | | Support |
| **Electronic Shutter** | Mode | Minimum, Maximum, Anti flicker, Prefer shutter control(Based on AI engine) |
| | Speed Range | 1/5~1/12,000sec |
| **Video Rotation** | | Flip, Mirror, Hallway view(90°/270°) |
| **Alarm Interface** | In/Out | Input 1ea, Output 1ea |
| **Alarm Triggers** | | Analytics, Network disconnect, Alarm input, App event, Time schedule, MQTT subscription |
| **Alarm Events When Alarm Trigger Occurred** | | File upload(image): e-mail/FTP,<br>Notification: e-mail,Alarm output,<br>Handover: PTZ preset,send message by HTTP/HTTPS/TCP,Audio clip playback,<br>MQTT: publication |
| **Audio In** | | Selectable(mic in/line in) |
| **Audio Out** | | Line out |
| **Light Type** | | IR LED |
| **Light Viewable Length** | IR | 40m(131.23ft) |
| **IR Wavelength** | | 850nm |

## Analytics

| | | |
|---|---|---|
| **Classified Object Type** | | Person, Face, Vehicle, License plate |
| **Attributes** | Person | Upper/Lower clothes color, Gender, Bag |
| | Vehicle | Type(car, bus, truck, motorcycle, bicycle), Color |
| | Face | Age, Gender, Face mask, Glasses |
| **Thumbnail** | | BestShot |
| **Analytics Events** | Based on AI Engine | Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit), Face mask detection, Social distancing detection |
| | Normal | Defocus detection, Motion detection, Tampering, Audio detection, Sound classification, Shock detection, Virtual area(Appear/Disappear) |

## Network

| | |
|---|---|
| **Ethernet** | Metal shielded RJ-45(10/100/1000BASE-T) |

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## Network

| | | |
|---|---|---|
| **Video Compression** | | H.265: Main,<br>H.264: Main/High,MJPEG |
| **Audio Compression** | | G.711 u-law /G.726 selectable,G.726(ADPCM) 8kHz,G.711 8kHz,<br>G.726: 16kbps,24kbps,32kbps,40kbps,<br>AAC-LC: 48kbps at 16kHz |
| **Smart Codec** | | Manual, WiseStreamIII |
| **Bitrate Control** | | H.265/H.264: CBR or VBR,<br>MJPEG: VBR |
| **Streaming** | Unicast | Up to 6 users |
| | Multicast | Support |
| | 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, IGMPv2, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP(TCP, UDP Unicast), MQTT |
| **Application Programming Interface** | ONVIF | S, T, M |
| | Others | SUNAPI(HTTP API) |

## Security

| | |
|---|---|
| **OS / Firmware Protect** | Encrypted firmware, Secure boot, Signed firmware |
| **User authentication** | Digest authentication, Prevent brute-force attack |
| **Network authentication** | IEEE 802.1X(EAP-TLS, EAP-LEAP) |
| **Secure Communication** | HTTPS, WSS(WebSocket Secure), SRTP |
| **Access Control** | IP-based access control |
| **Data Protect** | Encryption credentials, Encrypt compress for live recording file export |
| **Audit** | Access / System / Event Log management |
| **Device ID** | Device certificate(Hanwha Vision Root CA) |
| **Secure Storage** | TPM(Trusted platform module), SDcard partition encrypt(AES-256) |
| **Security Certificate** | TPM 2.0 with FIPS 140-2 level2 |

## General

| | | |
|---|---|---|
| **Memory** | RAM | 4GB |
| | Flash | 512MB |
| **Edge Storage** | SSD | 1TB included(WAVE pre-installed), Possible to register up to 6 camera(Host+5 camera) |

## Environmental & Electrical

| | | |
|---|---|---|
| **Operating Condition** | Temperature | -30°C~+55°C(-22°F~+131°F) |
| | Humidity | 0~95% RH(non-condensing) |
| | Others | Start up should be done at above -20°C, Humidity control with AIR vent |
| **Storage Condition** | Temperature | -50°C~+60°C(-58°F~+140°F) |
| | Humidity | 0~90% RH(non-condensing) |
| **Input Voltage** | | PoE+(IEEE802.3at, Class4), 12VDC |

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## Environmental & Electrical

| | | |
|---|---|---|
| **Power Consumption** | PoE | Max. 19.2W, typical 14.4W |
| | 12VDC | Max. 17.5W, typical 12.7W |
| **Power Redundance Failover** | | Support |

## Mechanical

| | |
|---|---|
| **Color** | White |
| **Material** | Aluminum, Hard-coated dome |
| **RAL Code** | RAL9003 |
| **Product Dimensions** | ø180x130mm(7.09x5.12") |
| **Product Weight** | 1,900g(4.19lb) |
| **Compatible Conduit Hole** | 19.1mm(3/4")(M25) |
| **Compatible Gang Box** | Single, Double, 4" Octagon, Square |

## Certifications & Standards

| | |
|---|---|
| **EMC** | FCC 47 CFR 15 Subpart B Class A, ICES-3(A)/NMB-3(A), CE/UKCA - EN55032 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 62471 |
| **Environment** | IEC/EN 63000, IEC 60529 IP66, IEC 60529 IP67, ISO 20653 IP6K9K, IEC 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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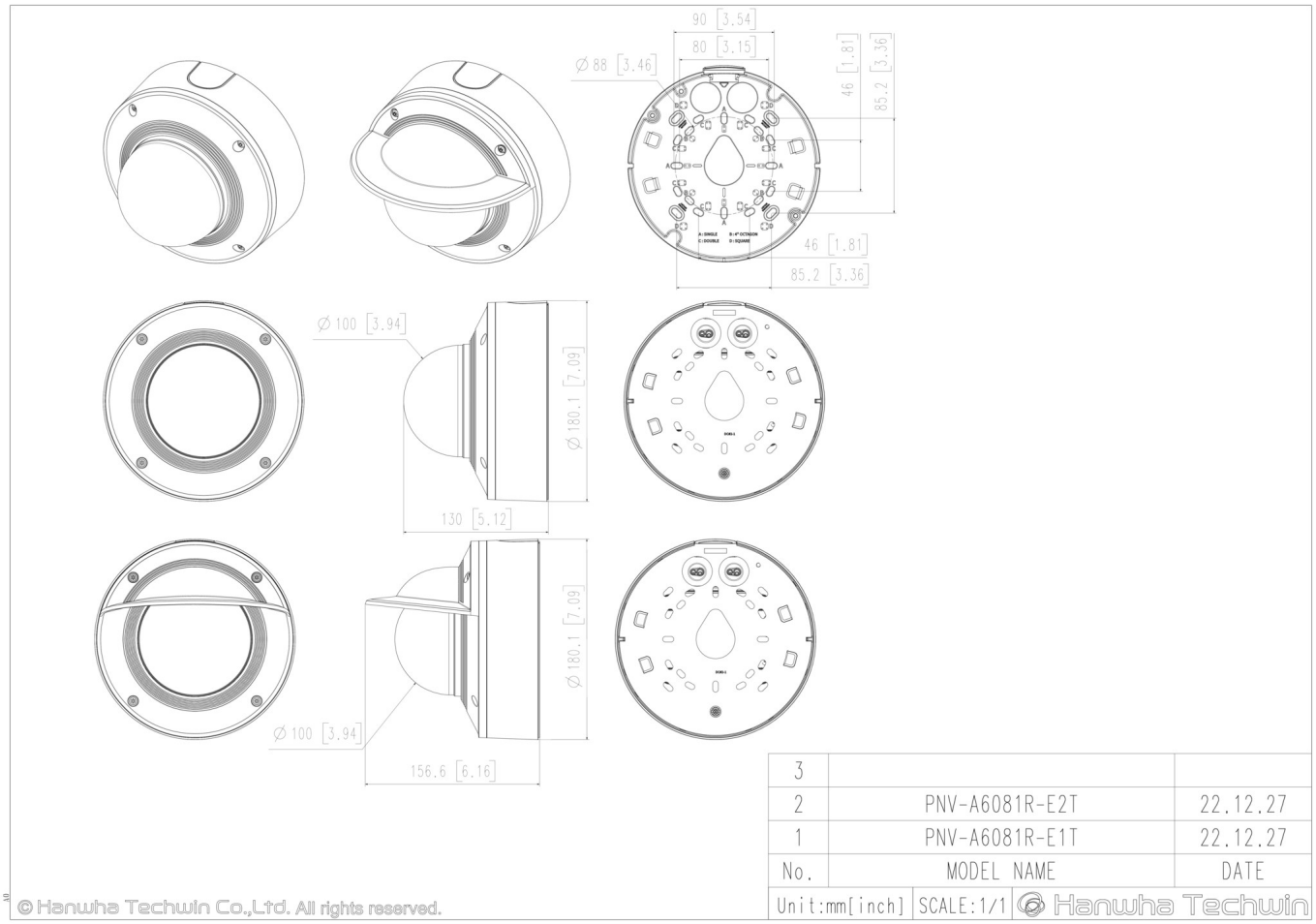
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## CAD

**Unit:** mm [inch]




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