



Network

Multi-sensor

# PNM-C7083RVD

2MP x 2CH AI Multi-directional Camera



## Key Features

- Analytics events based on AI engine: Classified object (Person/Face/Vehicle/License plate)  
Attributes(vehicle type: Car/Bus/Truck/Motorcycle/Bicycle)  
Support BestShot
- WiseNR II, Auto prefer shutter control, WiseStreamIII, extremeWDR (120dB)
- Maximum 1920x1080 resolution
- Maximum 30fps/25fps@2MP
- Color: 0.035lux(F2.2, 1/30sec, 30IRE), 0 Lux (IR LED on)
- 3~6mm(2x) motorized varifocal, 75° tilt angle
- IR viewable length: IR 25m(82ft)
- TPM 2.0(FIPS 140-2 certified)
- IP66, NEMA4X, IK10

# PNM-C7083RVD

2MP x 2CH AI Multi-directional Camera



## Specifications

|                           |                                                                                                                              |
|---------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Video                     |                                                                                                                              |
| Imaging Device            | 1/2.8" CMOS x 2CH                                                                                                            |
| Resolution                | 1920x1080, 1600x1200, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240 |
| Max. Framerate            | H.265/H.264: 2MP Max. 30fps/25fps(60Hz/50Hz)<br>MJPEG: Max. 30fps/25fps(60Hz/50Hz)                                           |
| Min. Illumination         | Color: 0.035lux(F2.2, 1/30sec, 30IRE)<br>BW: 0.0035lux(F2.2, 1/30sec, 30IRE), 0lux(IR LED on)                                |
| Video Out                 | USB: micro USB Type B, 1280x720 for installation                                                                             |
| Lens                      |                                                                                                                              |
| Focal Length (Zoom Ratio) | 3~6mm(2x) motorized varifocal                                                                                                |
| Max. Aperture Ratio       | F2.2(Wide)~F3.1(Tele)                                                                                                        |
| Angular Field of View     | H: 107-(Wide)~56-(Tele)<br>V: 57-(Wide)~31-(Tele)<br>D: 126-(Wide)~64-(Tele)                                                 |
| Min. Object Distance      | 0.5m(1.64ft)                                                                                                                 |
| Focus Control             | Simple focus                                                                                                                 |
| Lens Type                 | Fixed IRIS                                                                                                                   |
| Pan / Tilt / Rotate       |                                                                                                                              |
| Pan / Tilt / Rotate Range | 0~355° / 0~78° / 0~180°                                                                                                      |
| Operational               |                                                                                                                              |
| Camera Title              | Displayed up to 85 characters                                                                                                |
| Day & Night               | Auto(ICR)                                                                                                                    |
| Backlight Compensation    | BLC, WDR, SSDR                                                                                                               |
| Wide Dynamic Range        | extremeWDR(120dB)                                                                                                            |
| Digital Noise Reduction   | WiseNR II (Based on AI engine), SSNR V                                                                                       |
| Motion Detection          | 8ea, 8point Polygonal zones                                                                                                  |
| Privacy Masking           | 6ea, 4point Quadrangle zones<br>- Color : Gray/Black/White                                                                   |
| Gain Control              | Low / Middle / High                                                                                                          |
| White Balance             | ATW / AWC / Manual / Indoor / Outdoor                                                                                        |
| LDC                       | Support                                                                                                                      |
| Electronic Shutter Speed  | Minimum / Maximum / Anti flicker (1/5~1/12,000sec)<br>Auto prefer shutter control(Based on AI engine)                        |
| Video Rotation            | Flip, Mirror, Hallway view (90°/270°) - Each channel separately                                                              |

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Analytics          | Classified object type : Person/Face/Vehicle/License plate<br>Attributes : Vehicle(Type:car/bus/truck/motorcycle/bicycle)<br>Support Bestshot<br>Analytics events based on AI engine<br>- Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit)<br>Analytics events*<br>- Defocus detection, Motion detection, Tampering, Virtual area(Appear/Disappear)<br>* Support Audio detection, Sound classification via optional SPM-4210 I/O box |
| Alarm I/O          | * Support Alarm via optional SPM-4210 I/O box                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Alarm Triggers     | Analytics, Network disconnect, Alarm input via optional SPM-4210 I/O box                                                                                                                                                                                                                                                                                                                                                                                                             |
| Alarm Events       | When alarm trigger occurred<br>- File upload(image) : e-mail/FTP<br>- Notification : e-mail<br>- Recording : SD/SDHC/SDXC or NAS recording at event triggers<br>- Handover(PTZ preset, Send message by HTTP/HTTPS/TCP)<br>- * Alarm output via optional SPM-4210 I/O box                                                                                                                                                                                                             |
| Audio In           | * Audio in via optional SPM-4210 I/O box                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Audio Out          | * Audio out via optional SPM-4210 I/O box                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| IR Viewable Length | 15m(49ft)<br>25m(82ft) based on scene                                                                                                                                                                                                                                                                                                                                                                                                                                                |

|                                   |                                                                                                                                                                                                                                                                                                                                                           |
|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Network                           |                                                                                                                                                                                                                                                                                                                                                           |
| Ethernet                          | Metal shielded RJ-45 (10/100/1000BASE-T)                                                                                                                                                                                                                                                                                                                  |
| Video Compression                 | H.265/H.264: Main/Baseline/High, MJPEG                                                                                                                                                                                                                                                                                                                    |
| Smart Codec                       | Manual(5ea area), WiseStream II, WiseStreamIII(Based on AI engine)                                                                                                                                                                                                                                                                                        |
| Bitrate Control                   | H.264/H.265: CBR or VBR<br>MJPEG: VBR                                                                                                                                                                                                                                                                                                                     |
| Streaming                         | Unicast(10 users) / Multicast<br>5 profiles per channel                                                                                                                                                                                                                                                                                                   |
| 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)                                                                                                                                               |
| Security                          | TPM 2.0 (FIPS 140-2 level 2)<br>HTTPS(SSL) Login Authentication<br>Digest Login Authentication<br>IP Address Filtering<br>User access log<br>802.1X Authentication(EAP-TLS, EAP-LEAP, EAP-PEAP MSCHAPv2)<br>Device Certificate(Hanwha Techwin Root CA, pre-installed)<br>Secure by default certificate<br>Secure OS/Boot/Storage, Verify firmware forgery |
| Application Programming Interface | ONVIF Profile S/T<br>SUNAPI(HTTP API)<br>Open platform                                                                                                                                                                                                                                                                                                    |

|                  |                                                                                                                                                     |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
| General          |                                                                                                                                                     |
| Webpage Language | English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Swedish, Portuguese, Czech, Polish, Turkish, Dutch, Greek, Hungarian |
| Edge Storage     | Micro SD/SDHC/SDXC 1slot Max. 512GB                                                                                                                 |
| Memory           | 2GB RAM, 512MB Flash                                                                                                                                |

|                                  |                                                                |
|----------------------------------|----------------------------------------------------------------|
| Environmental & Electrical       |                                                                |
| Operating Temperature / Humidity | -40°C~+55°C(-40°F ~ +131°F) / Less than 95% RH(Non-condensing) |
| Storage Temperature / Humidity   | -50°C~+60°C (-58°F~+140°F) / Less than 95% RH(Non-condensing)  |
| Certification                    | IP66/IP67, NEMA4X, IK10                                        |
| Input Voltage                    | PoE+(IEEE802.3at, Class4)                                      |
| Power Consumption                | PoE+: Max 20W, typical 15.5W                                   |

---

**Mechanical**

|                                   |                                                     |
|-----------------------------------|-----------------------------------------------------|
| Color / Material                  | White / Aluminum<br>Hard-coated dome bubble         |
| RAL Code                          | RAL9003                                             |
| Product Dimensions / Weight       | 215(W)x135(D)x93.2(H)mm(8.46"x5.31"x3.67") / 1330g  |
| Compatible Conduit hole / Gangbox | 1/2" (M20)<br>single, double, 4" octagon, 4" square |
| Hanging Mount (Dome)              | SBP-215HMW                                          |

---

**Certifications & Standards**

|             |                                                                                                                                                                                             |
|-------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EMC         | FCC 47 CFR 15 Subpart B Class A<br>ICES-3(A)/NMB-3(A)<br>CE/UKCA<br>- EN 55032 Class A, EN 50130-4<br>VCCI CISPR 32 Class A<br>RCM AS/NZS CISPR 32 Class A<br>KS C 9832 Class A , KS C 9835 |
| Safety      | UL 62368-1, CAN/CSA C22.2 NO. 62368-1<br>IEC/EN 62471                                                                                                                                       |
| Environment | IEC/EN 63000<br>IEC/EN 60529 IP66/67, IEC/EN 62262 IK10<br>NEMA 250 type 4X                                                                                                                 |

---

**DORI (EN62676-4 standard)**

|                           |                                              |
|---------------------------|----------------------------------------------|
| Detect (25PPM/ 8PPF)      | Wide: 28.4m(93.22ft) / Tele: 72.2m(236.94ft) |
| Observe (63PPM/ 19PPF)    | Wide: 11.4m(37.29ft) / Tele: 28.9m(94.78ft)  |
| Recognize (125PPM/ 38PPF) | Wide: 5.7m(18.64ft) / Tele: 14.4m(47.39ft)   |
| Identify (250PPM/ 76PPF)  | Wide: 2.8m(9.32ft) / Tele: 7.2m(23.69ft)     |