



Network

# PNM-12082RVD

6MP x 2CH Multi-directional Camera



## Key Features

- WiseNR, WiseStream II, extremeWDR (120dB)
- Maximum 3328x1872 resolution
- Maximum 15fps@6M
- Color: 0.16lux (F1.67, 1/30sec, 30IRE), 0 Lux (IR LED on)
- 3.54~6.69mm motorized varifocal, 78° tilt angle
- IR viewable length: IR 25m (82ft) based on scene
- TPM 2.0 (FIPS 140-2 certified)
- IP66, IP67, IK10, NEMA4X

# PNM-12082RVD

6MP x 2CH Multi-directional Camera



## Specifications

Video		
Imaging Device	Size	1/2.8"
	Type	CMOS
Resolution	3328x1872, 3072x1728, 2688x1520, 2592x1944, 1920x1080, 1600x1200, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240	
Max. Framerate	H.265/H.264	15fps/15fps(60Hz/50Hz)
	MJPEG	15fps
Min. Illumination (Lux)	Color(1/30sec, 30IRE)	0.16
	BW(1/30sec, 30IRE)	0.016
Video Out	USB: Micro USB Type B	
Lens		
Focal Length (mm)	3.54~6.69	
Zoom Ratio	Optical	1.9x
Max Aperture Ratio (F number)	Wide	1.67
	Tele	2.64
Angular Field of View	Horizontal	96°~47°
	Vertical	51°~26°
	Diagonal	113°~54°
Min. Object Distance	1.5m(4.92ft)	
Focus Control	Simple focus, Manual	
Lens Type	Fixed iris	
Pan / Tilt / Rotate		
Pan / Tilt / Rotate Range	Pan	0°~355°
	Tilt	0°~78°
	Rotate	0°~180°
Sequence	Preset(255ea)	
Operational		
Day & Night	Auto(ICR)	

## Operational

<b>Backlight Compensation</b>		BLC, HLC, WDR, SDR
<b>Wide Dynamic Range (dB)</b>		120
<b>Digital Noise Reduction</b>		WiseNR, SSNR V
<b>Defog</b>		Support
<b>Motion Detection</b>	Quantity	8ea
	Shape	8point Polygonal zones
<b>Privacy Masking</b>	Quantity	32ea
	Shape	4point Quadrangle zones
	Color / Option	Gray, Green, Red, Blue, Black, White, Mosaic
<b>Gain Control</b>		Off, Max gain, Manual
<b>White Balance</b>		ATW, NarrowATW, AWC, Manual, Indoor, Outdoor
<b>LDC</b>		Support
<b>Electronic Shutter</b>	Mode	Minimum, Maximum, Anti flicker, Prefer shutter control
	Speed Range	2~1/12,000sec
<b>Video Rotation</b>		Flip, Mirror, Hallway view(90°/270°)
<b>Alarm Interface</b>	Others	Support alarm I/O via optional I/O box
<b>Alarm Triggers</b>		Analytics, Network disconnect, Alarm input
<b>Alarm Events When Alarm Trigger Occurred</b>		File upload(image): e-mail/FTP, Notification: e-mail, Recording: SD/SDHC/SDXC or NAS recording at event triggers,Alarm output, Handover: PTZ preset,send message by HTTP/HTTPS/TCP
<b>Audio In</b>		Support via optional I/O box
<b>Audio Out</b>		Support via optional I/O box
<b>Light Type</b>		IR LED
<b>Light Viewable Length</b>	IR	15m(49ft), 25m(82ft) based on scene
<b>IR Wavelength</b>		850nm

## Analytics

<b>Analytics Events</b>	Normal	Defocus detection, Motion detection, Tampering, Audio detection, Sound classification, Virtual area(Lotering, Intrusion, Enter/Exit, Appear/Disappear)
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## Network

<b>Ethernet</b>	Metal shielded RJ-45(10/100/1000BASE-T)
<b>Video Compression</b>	H.265/H.264: Main/Baseline/High, MJPEG
<b>Smart Codec</b>	Manual, WiseStream II
<b>Bitrate Control</b>	H.265/H.264: CBR or VBR, MJPEG: VBR

## Network

Streaming	Unicast	Up to 20 users
	Multicast	Support
	Multiple Streaming	Up to 10 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)
Application Programming Interface	ONVIF	S, T
	Others	SUNAPI(HTTP API), Hanwha Vision Open Platform
Direct Cloud Connection		Optional (needs gateway)

## Security

OS / Firmware Protect	Encrypted firmware, Secure boot, Signed firmware	
User authentication	Digest authentication	
Network authentication	IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)	
Secure Communication	HTTPS, 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), HTPM(Hanwha 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	Micro SD/SDHC/SDXC	Max. 512GB x 1slot
Edge Storage(OnCloud)	Micro SD/SDHC/SDXC	Max. 1TB x 1slot *Hanwha Vision branded microSD cards have been certified and recommended for OnCloud edge recording.

## Environmental & Electrical

Operating Condition	Temperature	-40°C~+55°C(-40°F~+131°F)
	Humidity	0~95% RH(non-condensing)
	Others	Start up should be done at above -35°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)
Power Consumption	PoE	Max. 18.3W, typical 13.5W

## Mechanical

Color	White
Material	Aluminum
RAL Code	RAL9003
Product Dimensions	215(W)x135(D)x93.2(H)mm(8.46x5.31x3.67")
Product Weight	1,330g(2.93lb)
Compatible Conduit Hole	12.7mm(1/2")(M20)
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, 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, IEC 62262 IK10, NEMA 250 type 4X

## DORI (EN62676-4 standard)

Detect (25PPM/ 8PPF)	Wide	59.9m(196.62ft)
	Tele	153.1m(502.22ft)
Observe (63PPM/ 19PPF)	Wide	24.0m(78.65ft)
	Tele	61.2m(200.89ft)
Recognize (125PPM/ 38PPF)	Wide	12.0m(39.32ft)
	Tele	30.6m(100.44ft)
Identify (250PPM/ 76PPF)	Wide	6.0m(19.66ft)
	Tele	15.3m(50.22ft)

# PNM-12082RVD

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## CAD

Unit: mm [inch]

215 [8.46]  
135 [5.31]  
2- ∅ 68 [2.68]  
93.2 [3.67]

4	PNM-12082RVD	'22.03.17
3	PNM-7082RVD	'22.03.17
2	PNM-C12083RVD	'22.03.17
1	PNM-C7083RVD	'22.03.17
No.	MODEL NAME	DATE

Unit:mm[inch] SCALE:1/1 © Hanwha Techwin

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