



Network

PTZ

XNP-C8253R

6MP 25x AI PTZ Camera



Key Features

- Max. 6MP resolution
- 5~125mm(25x) zoom (digital 32x, total 800x zoom)
- Day & Night (ICR), extreme WDR, DIS (Built-in gyro sensor)
- Intelligent Analytics, Object auto tracking (Person/Vehicle), Target lock tracking
- H.264, H.265, MJPEG codec, WiseStream II
- IP66, IK10, NEMA4X, NEMA-TS 2 (2.2.8, 2.2.9)
- PTZ PLUS Design applied (Compact, Lighter, Simple cabling)

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Specifications

Video		
Imaging Device	Size	1/2.8"
	Type	CMOS
Resolution		2688x1520, 1024x768, 1920x1080, 2592x1944, 720x480, 1280x960, 1600x1200, 320x240, 800x448, 720x576, 640x360, 640x480, 1280x720, 3328x1872, 3072x1728, 800x600, 1280x1024
Max. Framerate	H.265/H.264	30fps/25fps(60Hz/50Hz)
	MJPEG	30fps(@6MP Max. 5fps)
Min. Illumination (Lux)	Color(1/30sec, 30IRE)	0.1
	BW(1/30sec, 30IRE)	0.01
Lens		
Focal Length (mm)		5~125
Zoom Ratio	Optical	25x
	Digital	32x
Max Aperture Ratio (F number)	Wide	1.6
	Tele	3.73
Angular Field of View	Horizontal	57.42°~2.71°
	Vertical	33.54°~1.55°
Min. Object Distance		5m(16.4ft)
Focus Control		Oneshot AF, Focus save
Lens Type		DC auto iris
Pan / Tilt / Rotate		
Pan / Tilt / Rotate Range	Pan	360° Endless
	Tilt	90°~20°
Pan Speed	Preset	Max. 700°/sec
	Manual	0.024°/sec~250°/sec
Tilt Speed	Preset	Max. 500°/sec
	Manual	0.024°/sec~250°/sec
Sequence		Preset(300ea), Trace, Schedule, Auto Run, Swing, Tour, Group(6ea)

Pan / Tilt / Rotate

Preset Accuracy	Up to $\pm 0.1^\circ$, Pan/Tilt correction
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Operational

Direction Indicator		Support
Day & Night		Auto(ICR)
Backlight Compensation		BLC, HLC, WDR, SSDR
Wide Dynamic Range (dB)		120
Digital Noise Reduction		SSNR V , WiseNR II (Based on AI engine)
Digital Image Stabilization		Support(built-in gyro sensor)
Defog		Support
Motion Detection	Quantity	8ea
	Shape	8point Polygonal zones
Privacy Masking	Quantity	32ea
	Shape	4point Quadrangle zones
	Color / Option	Gray, Mosaic, Green, Red, Blue, White, Black
Gain Control		Max gain, Off, Manual
White Balance		NarrowATW, AWC, ATW, Mercury, Indoor, Manual, Outdoor, Sodium
Electronic Shutter	Mode	Anti flicker, Minimum, Maximum, Prefer shutter control(Based on AI engine)
	Speed Range	2~1/12,000sec
Video Rotation		Flip&Mirror
Alarm Interface	Others	Support alarm I/O via optional I/O box
Alarm Triggers		Time schedule, Alarm input, Network disconnect, MQTT subscription, Analytics
Alarm Events When Alarm Trigger Occurred		MQTT: publication, Handover: PTZ preset, send message by HTTP/HTTPS/TCP, Notification: e-mail, Audio clip playback, Recording: SD/SDHC/SDXC or NAS recording at event triggers, File upload(video clip): FTP/SFTP, Alarm output, File upload(image): e-mail/FTP/SFTP
Audio In		Support via optional I/O box
Audio Out		Support via optional I/O box
Light Type		IR LED
Light Viewable Length	IR	Wise IR 200m(656.17ft)
IR Wavelength		850nm
Water Removal		Support(Spin Dry, Lens heater)
Auto Tracking		Support, Target lock tracking, Object auto tracking(Person/Vehicle)

Analytics

Classified Object Type		Face, Vehicle, Person, License plate
Attributes	Vehicle	Type(car, bus, truck, motorcycle, bicycle)
Thumbnail		DetectionShot

Analytics

Analytics Events	Based on AI Engine	Motion detection, Virtual area(Loitering/Intrusion/Enter/Exit), Object detection, Virtual line(Crossing/Direction)
	Normal	Sound classification, Fog detection, Tampering, Virtual area(Appear/Disappear), Audio detection, Shock detection

Network

Ethernet		Metal shielded RJ-45(10/100BASE-T)
Video Compression		H.265/H.264: Main/Baseline/High, MJPEG
Smart Codec		WiseStreamIII, Manual
Bitrate Control		H.265/H.264: CBR or VBR, MJPEG: VBR
Streaming	Unicast	Up to 20 users
	Multicast	Support
	Multiple Streaming	Up to 10 profiles
Protocol		ICMP, RTSP, HTTPS, FTP, NTP, TCP/IP, ARP, DHCP, RTCP, IPv6, UDP/IP, SRTP(TCP, UDP Unicast), NTCIP 1205, IPv4, SFTP, UPnP, CDP, LLDP, MQTT, RTP(UDP), Bonjour, DNS, SNMPv1/v2c/v3(MIB-2), RTP(TCP), SSL/TLS, QoS, SMTP, DDNS, IGMP, HTTP
Application Programming Interface	ONVIF	T, M, S, G
	Others	Hanwha Vision Open Platform, SUNAPI(HTTP API)
Direct Cloud Connection		Support

Security

OS / Firmware Protect	Encrypted firmware, Signed firmware, Secure boot
User authentication	Digest authentication, Prevent brute-force attack
Network authentication	IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)
Secure Communication	WSS(WebSocket Secure), HTTPS, SRTP
Access Control	IP-based access control
Data Protect	Encrypt compress for live recording file export, Encryption credentials
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), HTPM(Hanwha Trusted Platform Module)
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 2slot(Total 1TB)

Environmental & Electrical

Operating Condition	Temperature	-40°C~+55°C(-40°F~+131°F)
	Humidity	0~100% RH(condensing)
	Others	Start up should be done at above -30°C, +74°C(+165°F)(Max) based on NEMA-TS 2(2.2.7), Humidity control with AIR vent
Storage Condition	Temperature	-50°C~+60°C(-58°F~+140°F)
	Humidity	0~90% RH(non-condensing)
Wind Load		241km/h(150mph)
EPA(Effective Projected Area)		0.035m ²
Input Voltage		PoE++(IEEE802.3bt type3, Class6)
Power Consumption	PoE	Max. 40W, typical 24W

Mechanical

Color	Black, White
Material	PC(Polycarbonate), Hard-coated dome , Aluminum
RAL Code	RAL9003, RAL9005
Product Dimensions	ø158x293.3mm(6.22x11.55")
Product Weight	3,200g(7.05lb)

Certifications & Standards

EMC	RCM AS-NZS CISPR 32 Class A, VCCI CISPR 32 Class A, ICES-3(A)/NMB-3(A), FCC 47 CFR 15 Subpart B Class A, CE/UKCA - EN55032 Class A, EN 50130-4, 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 62262 IK10, IEC 60529 IP66, NEMA TS 2-2013 (2.2.7, 2.2.8, 2.2.9), NEMA 250 type 4X

DORI (EN62676-4 standard)

Detect (25PPM/ 8PPF)	Wide	121.5m(398.7ft)
	Tele	2813.9m(9232.1ft)
Observe (63PPM/ 19PPF)	Wide	48.6m(159.5ft)
	Tele	1125.6m(3692.8ft)
Recognize (125PPM/ 38PPF)	Wide	24.3m(79.7ft)
	Tele	562.8m(1846.4ft)
Identify (250PPM/ 76PPF)	Wide	12.2m(39.9ft)
	Tele	281.4m(923.2ft)

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CAD

Unit: mm [inch]

