



Network PTZ

XNP-C8253

6MP 25x AI PTZ PLUS Camera



Key Features

- Max. 6MP resolution
- 5~125mm(25x) zoom (digital 32x, total 800x zoom)
- Color: 0.1Lux(F1.6, 1/30sec), BW: 0.01Lux(F1.6, 1/30sec)
- 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)

XNP-C8253

6MP 25x AI PTZ PLUS 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	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), Swing, Group(6ea), Trace, Tour, Auto Run, Schedule

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.

Pan / Tilt / Rotate

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

Operational

Direction Indicator	Support	
Day & Night	Auto(ICR)	
Backlight Compensation	BLC, HLC, WDR, SSDR	
Wide Dynamic Range (dB)	120	
Digital Noise Reduction	WiseNR II (Based on AI engine), SSNR V	
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, Green, Red, Blue, Black, White, Mosaic
Gain Control	Off, Max gain, Manual	
White Balance	ATW, NarrowATW, AWC, Manual, Indoor, Outdoor, Mercury, Sodium	
Electronic Shutter	Mode	Minimum, Maximum, Anti flicker, Prefer shutter control(Based on AI engine)
	Speed Range	2~1/12,000sec
Video Rotation	Flip&Mirror	
Alarm Interface	Support alarm I/O via optional I/O box	
Alarm Triggers	Analytics, Network disconnect, Alarm input, Time schedule, MQTT subscription	
Alarm Events When Alarm Trigger Occurred	File upload(image): e-mail/FTP/SFTP, File upload(video clip): FTP/SFTP, Notification: e-mail, Recording: SD/SDHC/SDXC or NAS recording at event triggers,Alarm output, Handover: PTZ preset,send message by HTTP/HTTPS/TCP,Audio clip playback, MQTT: publication	
Audio In	Support via optional I/O box	
Audio Out	Support via optional I/O box	
Water Removal	Support(Spin Dry, Lens heater)	
Auto Tracking	Support, Object auto tracking(Person/Vehicle), Target lock tracking	

Analytics

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

Analytics

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

Network

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

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, EAP-PEAP, MSCHAPv2)
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), 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 2slot(Total 1TB)

Environmental & Electrical

Operating Condition	Temperature	-40°C~+55°C(-40°F~+131°F)
	Humidity	0~100% RH(condensing)
	Others	+74°C(+165°F)(Max) based on NEMA-TS 2(2.2.7), Start up should be done at above -30°C, 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+(IEEE802.3at, Class4)
Power Consumption	PoE	Max. 25.5W, Typical 24W

Mechanical

Color	White, Black
Material	Aluminum, PC(Polycarbonate), Hard-coated dome
RAL Code	RAL9003, RAL9005
Product Dimensions	Ø158x293.3mm(6.22x11.55")
Product Weight	3200g(7.05lb)

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 62262 IK10, 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)

XNP-C8253

6MP 25x AI PTZ PLUS Camera



CAD

Unit: mm [inch]

