vantage
keeping you safe

ULTRA HIGH DEFINITION
8MP IP LASER PTZ CAMERA

VP-NC9778P-AZ37IR9T1
IR Night Vision High Speed PTZ Dome Camera

vantage

FEATURES

Ultra high definition 8MP (3840×2160) resolution

1/1.8" progressive scan CMOS Sensor
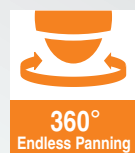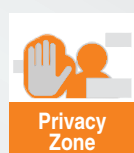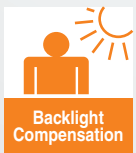
Inbuilt 2D/3D DNR, HLC,HDR, BLC & Defog functions

Support H.265+/H.265/H.264+/H.264,MJPEG video compression

37x Optical zoom

360° endless panning

Inbuilt IR LEDs for 800 mtrs light distance

IP67 Weather proof outdoor enclosure

1/1.8" Progressive Scan CMOS Sensor

Backlight Compensation

Defog

Privacy Zone

360° Endless Panning

Onvif (UL) CE FC RoHS

TECHNICAL SPECIFICATIONS

VP-NC9778P-AZ37IR9T1

Camera	SOC	NT98529,2x4Gb LPDDR3, 4GB Flash(emmc)
	Image sensor	1/1.8" progressive CMOS (SONY IMX678)
	Signal System	PAL/NTSC
	Effective Pixels	3840x2160
	Minimum Illumination	Color：0.001 Lux @ (F1.2,AGC ON)；B/W：0.0002 Lux @ (F1.2, AGC ON). 0Lux with IR
	Electronic Shutter Speed	1/1 s – 1/30,000s, support slow shutter
	Signal to Noise	> 52 dB
	Gain Control	Auto / Manual
	White Balance	Auto/Manual//Indoor/Outdoor
	Iris control	Auto/Manual
Lens	Lens Type	6mm to 222mm
	Field of View	Horizontal: 59° ~1.98° (wide-tele),Vertical: 34.14° ~ 1.12° (wide-tele), Diagonal: 67.08° ~ 2.27° (wide-tele)
	Zoom Speed	Approx. 5.2s (optical zoom, wide-tele) ±5%
	Zoom	37x Optical Zoom
	Focus Control	Auto, Manual (Near/Far)
	Aperture Range	F1.2~F4.6(wide-tele)
	Iris Type	P-IRIS, 6 slices Diaphragm

		f=6mm	f=222mm	f=6mm	f=222mm
Dori	Focus length	f=6mm	f=222mm	f=6mm	f=222mm
	Detect	95.3m(312.7f.t.)	2,960m(8126.6f.t.)	138.2m(453.4f.t.)	4,293m(14,084f.t.)
	Observe	124m (129.7 f.t.)	1,429m (3250.7 f.t.)	54.8m(217.5 f.t.)	1,706m (5,589 f.t.)
	Recognize	19.06m(62.5 f.t.)	592m(1625.3f.t.)	27.6m(90.6 f.t.)	858.6m(2,817f.t.)
	Identify	7.9m (31.3 f.t.)	296m (812.7 f.t.)	13.8m(31.3 f.t.)	429.3m(1,408f.t.)

Compression	Video Compression	Mainstream: H.265+/H.265/H.264+/H.264 Sub-stream: H.265/H.264/MJPEG Third stream: H.265/H.264/MJPEG
	H.264 Standard	H.264/AVC codec BP/MP/HP, Level 5.1
	H.265 Standard	H.265/HEVC codec MP, level 5.0
	Video Bit Rate	32 Kbps to 16Mbps
	Audio Compression	G.711 A/U
	Audio Bit Rate	64K bps
Resolution and Frame Rate	Max. Resolution	3840×2160
	Main Stream	50Hz/25fps:3840x2160,2560x1440,1920x1080,1280×960,1280×720 60Hz/30fps:3840x2160,2560x1440,1920x1080,1280×960,1280×720
	Sub Stream	50Hz/25fps:704 × 576, 640 × 480, 352 × 288. 60Hz/30fps :704× 480, 640 × 480, 352 × 240
	Third Stream	50Hz/25fps :1920 × 1080, 1280 × 960, 1280 × 720, 704 × 576, 640 × 480, 352 × 288. 60Hz/30fps :1920 × 1080, 1280 × 960, 1280 × 720, 704 × 480, 640 × 480, 352 × 240
Day/Night Functionality	Day & Night	True Day & Night with ICR
	IR Cut	Switchable 3 filters: IR-Cut filter, IR Only filter, Near IR pass filter
	Illuminator type	Continuous zoom illuminator with VSCEL Laser
	Light distance	800 Mtrs
Pan-Tilt	Pan Angle	360° endless pan rotation
	Pan Speed	Configurable, from 0.1~180°/s; Preset speed: 240°/s
	Tilt Range	From -25° to 155°, auto flip at 90°
	Tilt Speed	Configurable, from 0.1~150°/s, Preset speed: 180°/s
	Presets	360
	Proportional Zoom	Supported
	Cruise	8 cruises, up to 16 presets for each cruise
	Trace	4 traces, record time over 3 minutes for each trace
	Power-off Memory	Supported

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	PTZ position display	Supported
	3D Positioning	Supported
	Scheduled Task	Preset/Cruise/Trace/Random Scan/Boundary Scanning /Dome reboot
	Action mode	Preset/Cruise/Trace/Auto Scan/Random Scan
Operational Features	Digital Zoom	8X
	Privacy Mask	4 areas per scene
	Picture overlay	Logo picture could be overlaid on video, 16x16,24x24,32x32,48x48, 64x64,96x96,128x128 pixels
	Image Enhancement	BLC, HLC, HDR
	Day & Night Control	Auto Mode (ambient brightness threshold and delay time adjustable), manual mode, scheduled-switch, timer
	Noise Reduction	2D/3D DNR, auto/manual
	Optical Defog	Built-in optical defog filter
	OSD Overlay	Max 15 characters/line, 8 lines, white or red font color, text such as week, date, time
	Codec Streaming Capability	Triple streaming
	Image Settings	Saturation, brightness, contrast, sharpness, AGC, AWB, etc. adjusted by client
	Security	User authentication (ID and PW), Host authentication (MAC address); HTTPS encryption, IEEE802.1x port-based network access control; IP address filtering
	Onboard Storage	One Micro SD slot and chamber, up to 256G
	Alarm Linkage	Alarm actions, such as preset, cruise, trace, memory card video record, trigger recording, notify surveillance center, upload to FTP/memory card, send email, etc.
	Basic Event	Motion detection, video tampering alarm, alarm input, alarm output, exception ((Network disconnected, IP conflict, SD full, SD error)
Network & Remote Monitoring	Protocols	HTTP, HTTPS, IPv4/IPv6, 802.1x, QoS, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTCP, RTP,TCP/IP, UDP, DHCP, PPPoE, P2P, RTMP
	System Compatibility	ONVIF G/S/T
	CMS	Full function CMS (Central monitoring software)
	User / Host	Up to 16 users, 3 levels: Administrator, Advanced User and Normal User
	Mobile Client Application	Supports android and iOS APP for Smart phone and tablets
	Bandwidth control	VBR (Automatic) and CBR (Manual) supported
	Web Browser	IE8-11 with plug-in; Edge, Chrome, Firefox with plugin free
Interface	Ethernet	1 RJ45 10M/100M Adaptive Ethernet
	Audio Input / Output	1CH audio input, 2 to 2.4v[p-p] 1KΩ ±10%; 1CH audio output (line out), impedance: 600Ω
	Alarm input	7CH alarm input (Dry contact)
	Alarm Output	2CH
	RS485	Half-duplex, Pelco-P/D
	Reset button	Supported
Smart Analytics	Smart Detection	Line crossing detection, region entrance detection, object removal detection, intrusion detection, region exiting detection, audio exception detection
	Smart Tracking	Manual/Auto-tracking of human/no-motor vehicle/motorized vehicle(ver5.1.1); Pickup someone to track(ver5.1.3)
	Face Capture	Detecting multiple faces in the same scene. Support detecting, capturing, grading, and output the best
	Face Comparison	(Default off) Yes
	Perimeter Protection	Line crossing, Intrusion, Region entrance, Region exiting. Support alarm triggering by specified type
	Road Traffic	Support vehicle detection and tracking(ver5.1.1).ANPR recognition, vehicles models, colors, etc. (ver5.1.3)

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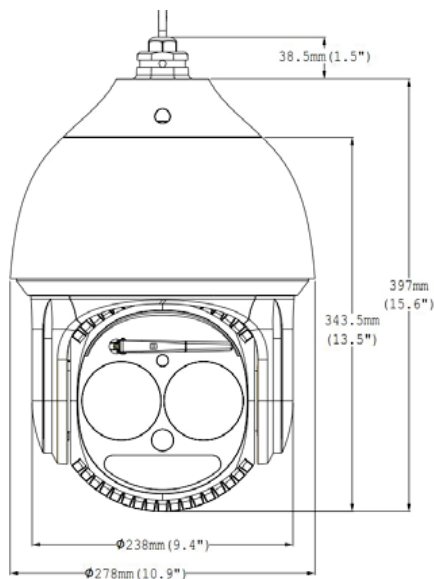|		
Electrical	Power Requirement	24VAC±15%5000mA; 36VDC±20%3000mA; High Power PoE (IEEE 802.3bt,90Watt)
	Power Consumption	36W, max 72Watt (PTZ working + IR ON + Heater on)
	Electric Fan & Heater	Built-in electric fan for heat sink and glass Frost/Fog removal. Built-in electric heater for cold start
	Water Removal	Electric wipe for water-drops, dust, mud, ice, frost. Time-schedule/manual
	Demist	Active electric heating and air loop
Environmental	Enclosure	IP67, TVS 6,000V Lightning Protection, Surge Protection and Voltage Transient Protection
	Impact Protection	IK10
	Working Temperature	-40°C~70°C(-48°F ~ 158°F) IR off; -40°C~50°C, IR on; Cold start>=-40°C (0.5~1.5 hour waiting); 90%RH
	Storage Temperature	-40°C to +70°C
	Operating Humidity	≤ 95% RH
Mechanical	Material	Aluminum Alloy
	Dimensions	Φ 278mm × 435mm
	Weight	Approx. 8.8KG
Certification	Certification	UL, CE, FCC,RoHS

*Exact products and specifications shown may vary by geographic region and are subject to change without notice. Product image, weights and measurements are approximate and may vary due to customized solutions & products being offered as per customer requirements.

DIMENSIONS

Unit: mm

38.5mm(1.5")
397mm (15.6")
343.5mm (13.5")
Φ238mm(9.4")
Φ278mm(10.9")