

THERMAL IMAGING CAMERA

VP-NC8944P-AZ56THI1 BI-SPECTRUM LONG RANGE THERMAL PTZ CAMERA



FEATURES

Dual imaging modes supported with integrated thermal and regular visual cameras

Uncooled FPA detector (VOx) thermal image sensor with 75mm fixed lens (optional)

640×512 VGA thermal resolution for clearer imaging of distant objects

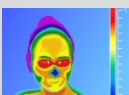
1/1.8" progressive scan CMOS sensor with 56X motorized optical zoom lens

Full HD visual camera with high resolution 2688×1520 (4MP) imaging

Integrated $\pm 0.01^\circ$ high-precision Pan tilt, 100°/s high rotation speed, support a variety of scanning modes and target tracking

Built-in intelligent alarm function based on system anomalies and video content analytics – intrusion & line cross detection

Waterproof IP66 rated enclosure with wind resistant design



Thermal Imaging



1/1.8" Progressive Scan CMOS Sensor



WDR



IP66 Weather Proof

TECHNICAL SPECIFICATIONS

VP-NC8944P-AZ56TH11

Thermal Camera Parameter	Image sensor	Vox uncooled FPA detector
	Pixels	640×512
	Pixel Pitch	12 μm
	Spectral Range	8 ~ 14 um
	Thermal Sensitivity NETD	≤40mK
	Focal Length	75mm (optional 100mm,150mm,30~150mm)
	Focus Mode	Auto/Manual/one shot auto
	FOV	5.9°×4.7°, (optional 4.4°×3.5°, 2.9°×2.3°, 14.6°×11.7°~2.9°×2.3°)
	Aperture	F1.0, (optional F1.2, F1.2, F0.85~F1.2)
	Spatial Resolution	0.16mrad, (optional 0.12mrad, 0.08mrad,0.4~0.08mrad)
	Color Palettes	20 modes selectable such as Blackhot / Whitehot / Rainbow,etc.
	Image Stabilization (EIS)	Supported
Visual Camera	Image Sensor	1/1.8 inch 4MP CMOS, (optional 1/1.25 inch 4MP CMOS)
	Effective Resolution	2688 (H)×1520 (V)
	Focal Length	6~336mm, (optional 10~550mm)
	Focus Mode	Auto/Manual/One-shot auto
	FOV	66.0°×40.3° ~ 1.3°×0.8°, (optional 58.2°×34.8° ~ 1.2°×0.7°)
	WDR	Supported
	Day /Night	Manual/Auto
	Defog	Supported optical defog
IR Illuminator (Optional)	Laser Spectral Range	808nm
	Illuminating Distance	800m, 1500m
LRF (Optional)	Laser Spectral Range	905nm, 1535nm
	Measurement Distance	2km, 3km, 6km
PTZ	Pan Range	360° continuous rotating
	Pan Speed	0.1° ~ 100°/s
	Tilt Range	-90° ~ +90°
	Tilt Speed	0.1° ~ 60°/s
	Scanning Mode	Preset/Tour/Area Scan/Linear Scan/Pattern Scan/Comprehensive Patrol
Network Interface	Protocols	TCP/IP,UDP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,RTP,RTSP,RTCP, IGMP,SMTP, NTP, QoS
	System Compatibility	ONVIF/SDK
	OSD	Supports time, axis, zoom, channel info, location info OSD
	Simultaneous live view	Up to 20 channels
	User Management	Up to 20 users, 2 levels: Administrator and User
	Web Browser	Edge, Google Chrome, Mozilla Firefox,etc.
Video	Max. Resolution	2688×1520(Visible), 1280×1024(Thermal)
	Image Encoding Format	JPEG
	Video Compression	H.264/H.265/MJPEG
	Audio Compression	G.711A/G.711Mu/PCM/AAC/MPEG2-Layer2
Frame Rate	Main Stream	Visible: 50Hz:25fps(2688×1520,2560×1440, 1920×1080) 60Hz:30fps(2688×1520,2560×1440,1280×720) Thermal: 50Hz:25fps(1280×1024,1024×768)
	Sub Stream	Visible: 50Hz:25fps(1920×1080,1280×720,704×576,352×288) 60Hz:30fps(1920×1080,1280×720,704×480,352×240) Thermal: 50Hz:25fps(640×512,320×256)

VP-NC8944P-AZ56TH1

Smart Function	Smoke & Fire Detection (Visible)	Supported
	Fire Detection (Thermal)	Supported
	Radar Linkage	Supported
	Zoom Linkage	Supported
	Alarm Trigger	Alarm trigger recording, disconnection trigger recording (continue transmission after connection)
	Smart Alarm	Support alarm trigger of network disconnection, IP address conflict, full memory, memory error, illegal access and abnormal detection
	Smart AI Analytics	Support smart video analysis such as tripwire & area intrusion detection, support AI human/vehicle/vessel classification
	Target Tracking	Supported
	Alarm Linkage	Recording/Snapshot/Sending Email/PTZ linkage/Alarm output
Interface	Ethernet	RJ45 self-adaptive 10M/100M Ethernet port
	Audio Interface	1-channel input, 1-channel output
	Alarm Interface	1-channel input, 1-channel output
	Storage Interface	Supports Micro SD card (Max.512GB)
	Communication Interface	1-channel RS485
General	Power Supply	DC 48V±15%
	Power Consumption	Max.300W
	Operating Temperature	-40°C to + 70°C
	Operating Humidity	<90% RH or less (non-condensing)
	Ingress Protection	IP66, TVS 6000V lightning protection, surge protection and voltage transient protection
	Dimensions	623.6mm×398.5mm×350mm(W×H×L)
	Weight	30kg
Certificates	Certificate	CE, RoHS

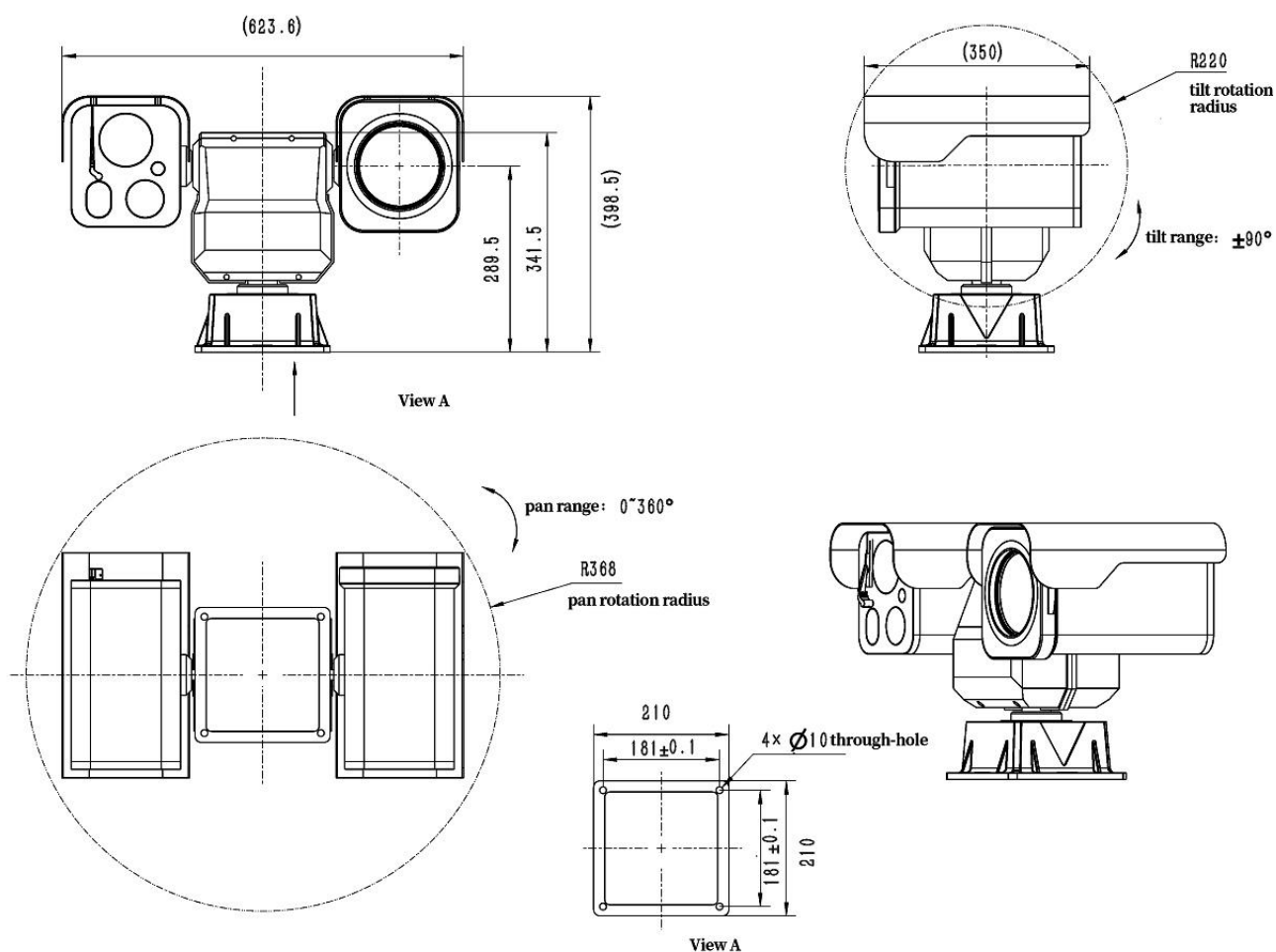
*Exact products and specifications shown may vary by geographic region and are subject to change without notice. Weights and measurements are approximate and may vary.

The recommended distance of detecting, recognition and identification for human (1.8x0.5m) and vehicles (1.4x4.0m) are as follows:

DD stands for Detecting Distance; RD stands for Recognition Distance; ID stands for identification Distance.

Lens	DD (Vehicle)	DD (Man)	RD (Vehicle)	RD (Man)	ID (Vehicle)	ID (Man)
75mm	9.6km	3.1km	2.4km	0.8km	1.2km	0.4km
100mm	12.8km	4.2km	3.2km	1.0km	1.6km	0.5km
150mm	19.2km	6.3km	4.8km	1.6km	2.4km	0.8km

DIMENSIONS:



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(AN ISO 9001 : 2008, ISO14001 : 2004 CERTIFIED COMPANY)

