

THERMAL IMAGING CAMERA

VP-NC8864P-Z50F75THI1 Dual-spectrum PTZ Network Camera



FEATURES

Dual imaging modes supported with integrated thermal and visual cameras

Uncooled VOx thermal detector with optional lens variants

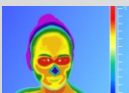
640×512 thermal resolution for clearer imaging of distant objects

1/1.8" progressive scan CMOS sensor

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

Integrated Pan tilt 100°/s high rotation speed, support a variety of scanning modes and target tracking

Waterproof IP66 rated enclosure with wind resistant design



Thermal
Imaging



1/1.8"
Progressive
Scan CMOS Sensor



WDR



IP66
Weather Proof

TECHNICAL SPECIFICATIONS

VP-NC8864P-Z50F75THI1

Thermal Camera Parameter	Image sensor	Uncooled VOx infrared detector
	Pixels	640x512 , optional 1280x1024
	Pixel Pitch	12 μm
	Spectral Range	8 ~ 14 um
	Thermal Sensitivity NETD	≤40mK
	Focal Length	75mm
	Focus Mode	Auto/Manual
	FOV	5.9°x4.7°
	Aperture	F1.0
	Spatial Resolution	0.16mrad
	Color Palettes	20 modes selectable such as Blackhot / Whitehot / Rainbow,etc.
Visual Camera	Image Sensor	1/1.8" Progressive scan 4 MP CMOS sensor
	Effective Resolution	2688 (H)x1520 (V)
	Minimum Illumination	Color: 0.0001Lux
	Focal Length	6~360mm
	Focus Mode	Auto / Manual /One-shot auto
	FOV	1.9°x1.1°~59.2°x34.82°
	Aperture	F1.61~F5.19
	Optical Zoom	60X
	WDR	Supported
	Defog	Support optical defog
	Digital Zoom	Supported
	Image Stabilization	EIS
	Privacy Mask	Supported
PTZ	Pan Range	360° Continuous Rotate
	Pan Speed	0.1° ~ 100°/s
	Tilt Range	-90° ~ +40°
	Tilt Speed	0.1° ~ 60°/s
	Positioning Accuracy	±0.02°
	Number of Presets	1024
	Tour	8 tours, each with up to 1024 presets
	3D Positioning	Supported
	Power-off Memory	Supported
	Patrol Mode	Supported
	Timed Tasks	Preset/Tour/Pattern Scan/Area Scan/Linear Scan
	Scan Mode	Preset/Tour/Pattern Scan/Area Scan/Linear Scan/Comprehensive Patrol
Network	Protocols	Ipv4, HTTP, HTTPS, FTP, SMTP, UPnP, DNS, DDNS, NTP, RTSP, RTCP, RTP, TCP, UDP, IGMP, ICMP, and DHCP
	System Compatibility	ONVIF, API, SDK
	Simultaneous live view	Up to 20 channels
	User Management	Up to 20 users, 2 levels: Administrator and User
	Web Browser	Google, Firefox
Video	Max.Resolution	2688x1520(Visible),1920x1080 (Thermal)
	Image Format	JPEG
	Audio Compression	G.711A/G.711U/PCM/AAC
	Video Compression	H.264/H.265

TECHNICAL SPECIFICATIONS

VP-NC8864P-Z50F75TH1

Frame Rate	Main Stream	Visual: PAL: 25fps(2688×1520,2560×1440,1920×1080) NTSC:30fps(2688×1520,2560×1440,1920×1080) Thermal: PAL: 25fps(1920×1080,1280×1024,1024×768) NTSC: 30fps(1920×1080,1280×1024,1024×768)
	Sub Stream	Visual: PAL: 25fps(1920×1080,1280×720,704×576,352×288) NTSC: 30fps(1920×1080,1280×720,704×480,352×240) Thermal: PAL: 25fps(1024×768,640×512,320×256) NTSC: 30fps(1024×768,640×512,320×256)
Smart Function	Smoke and Fire Detection (Visible Light)	Yes, supported
	Fire Point Detection (Thermal Imaging)	Yes, supported
	Zoom Linkage	Supported
	Smart Recording	Video taking triggered upon alarms or network failures (continue to transmit after recovery)
	Smart Alarm	Support abnormality detection and linkage alarm for network anomaly, IP address conflict, memory error, illegal access, and burn alarm
	VCA	Support VCA such as tripwire and regional intrusion detection, and human/vehicle classification
	Alarm Linkage	Video taking/Image capture/Email/Linked PTZ/Alarm output
Interface	Ethernet	1xRJ45 self-adaptive 10M/100M Ethernet port
	Audio Interface	1channel input, 1 channel output
	Alarm Interface	7-channel input,2-channel output
	Storage Interface	Support Micro SD card (up to 512G)
	Communication Interface	1-channel RS485
	Peripherals	Heater, wiper and fan
Electrical	Power Supply	DC 24V±15%
	Power Consumption	Max.75W
General	Operating Temperature	-40°C to + 70°C
	Operating Humidity	<90% RH or less (non-condensing)
	Enclosure	IP66,TVS 6000V Lightning Protection, Surge Protection and Voltage Transient Protection
	Dimensions (mm)	250×473.5×315mm (W×H×L)
	Weight	<20kg
Certificates	Certificate	CE,FCC,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.

Lens Options:

Focal Length	50mm	100mm	25~75mm	25~75mm (1280×1024)
FOV	8.78°×7.03°	4.4°×3.5°	17.7°×14.1°~5.8°×4.7°	36.7°×28.9°~11. 6°×9.3°
Aperture	F1.0	F1.2	F0.95~F1.2	F0.95~F1.2
Spatial Resolution	0.24mrad	0.08mrad	0.480~0.160mrad	0.480~0.160mrad

TECHNICAL SPECIFICATIONS

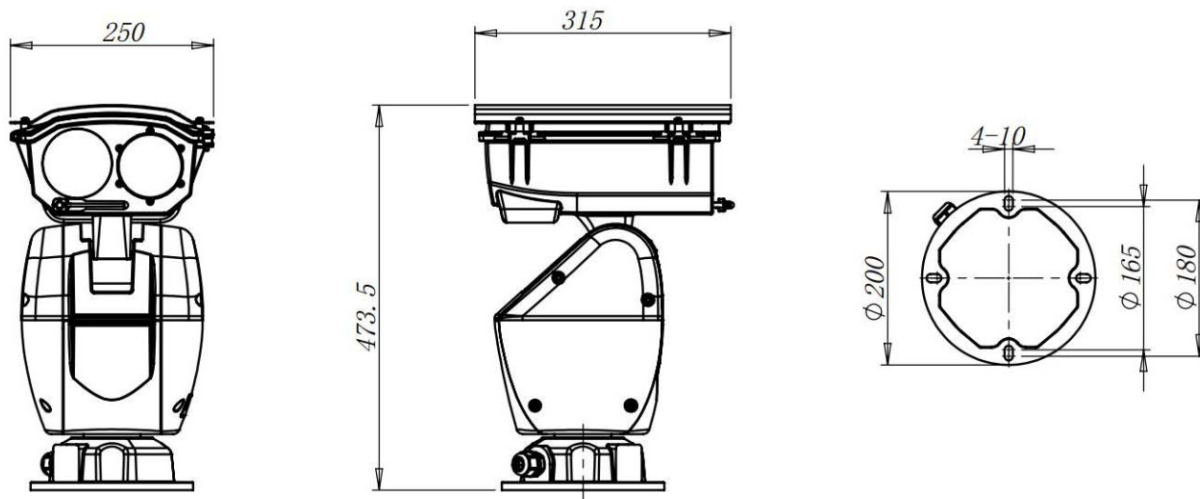
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The recommended distance of detecting, recognition and identification for human (1.8×0.5m) and vehicles (1.4×4.0m) are as follows:
DD stands for Detecting Distance; RD stands for Recognition Distance; ID stands for identification Distance.

Lens	DD (Vehicle)	DD (Human)	RD (Vehicle)	RD (Human)	ID (Vehicle)	ID (Human)
50mm	6.4km	2.1km	1.6km	0.5km	0.8km	0.3km
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
25~75mm	9.6km	3.1km	2.4km	0.8km	1.2km	0.4km

*The table is for reference only. Actual performance may vary due to different environments.

DIMENSIONS:



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

