

Dual-spectrum PTZ Network Camera UNC-PT8S4-IRS



Product Feature

1. The latest 12 μ m uncooled IR detector makes the images farther and clearer.
2. The high-definition digital camera and tele-lens make high-accuracy and long distance imaging possible for 24/7 monitoring.
3. High-speed and high accuracy PTZ, support 5 scanning styles and 17 scan tracks with speed memory.
4. The professional platform software supports intelligent infrared video analysis, which can satisfy the needs of forest fire prevention and smart fire fighting.
5. Thermal channel and optical channel both support EIS, conflicted with intelligent function.

Camera Specifications

Models		UNC-PT8S4-IRS
Thermal		
Sensor Type	VOx uncooled FPA detector	
Spectral Range	8~14μm	
NETD	≤40mK(@25°C,F#1.0,25Hz)	
Max. Resolution	1280×1024	
Pixel Pitch	12μm	
Focal Length	30~150mm, 25~225mm	
Focus Mode	Auto/Manual	
FOV	28.7°×23.1°~5.9°×4.7°, 34.2°×27.6°~3.9°×3.1°	
F number	F1.0~F1.2, F1.09~F1.5	
Spatial Resolution	0.080~0.400mrad, , 0.053~0.480mrad	
Color Palette	20 modes selectable such as Blackhot/Whitehot/Rainbow,etc.	
Visible		
Image Sensor	1/1.8inch 4MP CMOS	
Max. Resolution	2688×1520	
Focal Length	6~300mm 50×optical zoom	
Focus Mode	Auto / Manual / One-shot auto	
FOV	Horizontal: 86.0°×40.3°~ 1.4°×0.8°	
Min. Illumination	Color: 0.005Lux/F1.4 B/W: 0.0005Lux/F1.4	
WDR	Support	
Day/Night	Manual/Auto	
DNR	3D NR	
PTZ		
Pan Range	Pan:360° Continuous Rotate	
Pan Speed	Configurable: 0.01°~100°/s	
Tilt Range	Tilt-90°~+45°	

Tilt Speed	Configurable: 0.01°~60°/s
Preset Accuracy	±0.01°
Presets	256
Patrol Scan	8, up to 255 presets per patrol
Pattern Scan	4

Linear Scan	4
Panorama Scan	1
3D Positioning	yes
Power Off Memory	yes
Tele Speed Setup	Speed adaptation to zoom ratio
Position Setup	support, configurable in horizontal/vertical
Privacy Mask	yes
Park	Preset/Pattern Scan/Patrol Scan/Linear Scan/Panorama Scan
Scheduled Task	Preset/Pattern Scan/Patrol Scan/Linear Scan/Panorama Scan
Anti-burn	yes
Remote Power-off Reboot	yes
Heater	yes

Network

Protocols	IPv4,IPv6,TCP/IP,UDP,ICMP,HTTP,HTTPS,FTP,DHCP,DNS,RTP,RTSP,RTCP,IGMP,SMTP,NTP,QoS
Interoperability	ONVIF、GB28181、SDK
Simultaneous live view	Up to 20 channels
User Management	Up to 20 users, 3 levels: Administrator, Operator and User
Browser	IE8+, multiple languages (at least Chinese and English)

Video

Max. Resolution	2688×1520 (visible), 1280×1024 (thermal)
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Image Encoding Format	JPEG
Audio Compression	G.711A/G.711Mu/PCM/AAC/MPEG2-Layer2
Video Compression	H.264/H.265/MJPEG
Main Stream	Visible : 50Hz:25fps(2688×1520), 25fps(1920×1080), 25fps(1280×720); 60Hz:30fps(2688×1520), 30fps(1920×1080), 30fps(1280×720); Thermal: (640×512) 50Hz:25fps(640×512); 60Hz:30fps(640×512);
Sub Stream	Visible : 50Hz:25fps(1280×720), 25fps(704×576); 60Hz:30fps(1280×720), 30fps(704×480); Thermal: (640×512)

	50Hz:25fps(640×512); 60Hz:30fps(640×512);
Smart Function	
Fire Detection	yes
Zoom Linkage	yes
Smart Record	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 Detecting	Support smart video analysis such as line intrusion, cross-border, and region intrusion
Alarm Linkage	Recording/Capture/Sending mail/PTZ linkage/Alarm output
System Interface	
Power Supply	DC 48V
Communication Interface	RJ45 self-adaptive 10M / 100M Ethernet port
Audio Input	1 channel
Audio Output	1 channel
Video Output	1.0V[p-p] / 75Ω, PAL or NTSC, BNC head
Alarm Input	7 channels

Alarm Output	2 channels
Storage Interface	Support Micro SD card (Max. 256G), hot swap
RS485	1 channel, support Pelco protocols
General	
Operating Conditions	-40℃~+70℃; <90%RH
Protection Grade	IP66, TVS 6000V Lightning Protection, Surge Protection and Voltage Transient Protection Conform to GB/T17626.5 Grade-4 Standard
Power Protection	support protection on overvoltage, undervoltage and reverse connection
Power Consumption	200W
Dimensions (mm)	505× 395 ×245 mm (W×H ×L)
Weight	35KG

Operating Distance

The recommended distance of detecting, recognizing and identifying for human (1.8×0.5m) and vehicles (1.4×4.0m) are as follows:

DD stands for Detecting Distance;

RD stands for Recognizing Distance;

ID stands for Identifying Distance;

The recommended distance of detecting, recognizing and identifying for human (1.8×0.5m) and vehicles (1.4×4.0m) are as follows:

Lens	DD (Vehicle)	DD (Human)	RD (Vehicle)	RD (Human)	ID (Vehicle)	ID (Human)
30mm	3.8km	1.3km	1.0km	0.3km	0.5km	0.2km
150mm	19.2km	6.3km	4.8km	1.6km	2.4km	0.8km

Lens	DD (Vehicle)	DD (Human)	RD (Vehicle)	RD (Human)	ID (Vehicle)	ID (Human)
25mm	3.2km	1.0km	0.8km	0.3km	0.4km	0.1km
225mm	28.8km	9.4km	7.2km	2.3km	3.6km	1.2km