

SG-PTZ2090N-6T30150**640x512 12μm Thermal and 2MP 90x Zoom Visible Bi-spectrum PTZ Camera**

- Thermal: 12μm 640×512
- Thermal lens: 30~150mm motorized lens
- Visible: 1/1.8" 2MP CMOS
- Visible lens: 6~540mm, 90x optical zoom
- Support tripwire/intrusion/abandon detection
- Support up to 18 color palettes
- 7/2 alarm in/out, 1/1 audio in/out, 1 analog video
- Micro SD Card, IP66
- Support Fire Detect

Specification

Model Number	SG-PTZ2090N-6T30150
Thermal Module	
Detector Type	VOx, uncooled FPA detectors
Max Resolution	640x512
Pixel Pitch	12μm
Spectral Range	8~14μm
NETD	≤50mk (@25°C, F#1.0, 25Hz)
Focal Length	30~150mm
Field of View	14.6°×11.7°~ 2.9°×2.3°(W~T)
F#	F0.9~F1.2
Focus	Auto Focus
Color Palette	18 modes selectable such as Whitehot, Blackhot, Iron, Rainbow.
Optical Module	
Image Sensor	1/1.8" 2MP CMOS
Resolution	1920×1080
Focal Length	6~540mm, 90x optical zoom
F#	F1.4~F4.8
Focus Mode	Auto / Manual / One-shot auto
FOV	Horizontal: 65.2°~0.8°
Min. Illumination	Color: 0.01Lux/F1.4, B/W: 0.001Lux/F1.4
WDR	Support
Day/Night	Manual/Auto
Noise Reduction	3D NR

Network		
Network Protocols		TCP, UDP, ICMP, RTP, RTSP, DHCP, PPPOE, UPNP, DDNS, ONVIF, 802.1x, FTP
Interoperability		ONVIF, SDK
Simultaneous Live View		Up to 20 channels
User Management		Up to 20 users, 3 levels: Administrator, Operator and User
Browser		IE8+, multiple languages
Video & Audio		
Main Stream	Visual	50Hz: 25fps (1920×1080, 1280×720) 60Hz: 30fps (1920×1080, 1280×720)
	Thermal	50Hz: 25fps (704×576) 60Hz: 30fps (704×480)
Sub Stream	Visual	50Hz: 25fps (1920×1080, 1280×720, 704×576) 60Hz: 30fps (1920×1080, 1280×720, 704×480)
	Thermal	50Hz: 25fps (704×576) 60Hz: 30fps (704×480)
Video Compression		H.264/H.265/MJPEG
Audio Compression		G.711A/G.711Mu/PCM/AAC/MPEG2-Layer2
Picture Compression		JPEG
Smart Features		
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 Detection		Support smart video analysis such as line intrusion, cross-border, and region intrusion
Alarm Linkage		Recording/Capture/Sending mail/PTZ linkage/Alarm output
PTZ		
Pan Range		Pan: 360° Continuous Rotate
Pan Speed		Configurable, 0.01°~100°/s
Tilt Range		Tilt: -90°~+90°
Tilt Speed		Configurable, 0.01°~60°/s
Preset Accuracy		±0.003°
Presets		256
Tour		1
Scan		1
Power On/OFF Self-Checking		Yes
Fan/Heater		Support/Auto
Defrost		Yes
Wiper		Support (For visible camera)
Speed Setup		Speed adaptation to focal length

Baud-rate	2400/4800/9600/19200bps
Interface	
Network Interface	1 RJ45, 10M/100M Self-adaptive Ethernet interface
Audio	1 in, 1 out (for visible camera only)
Analog Video	1 (BNC, 1.0V[p-p], 75Ω) for Visible Camera only
Alarm In	7 channels
Alarm Out	2 channels
Storage	Support Micro SD card (Max. 256G), hot SWAP
RS485	1, support Pelco-D protocol
General	
Operating Conditions	-40°C~+60°C, <90% RH
Protection Level	IP66
Power Supply	DC48V
Power Consumption	Static power: 35W, Sports power: 160W (Heater ON)
Dimensions	748mm×570mm×437mm (W×H×L)
Weight	Approx. 55kg

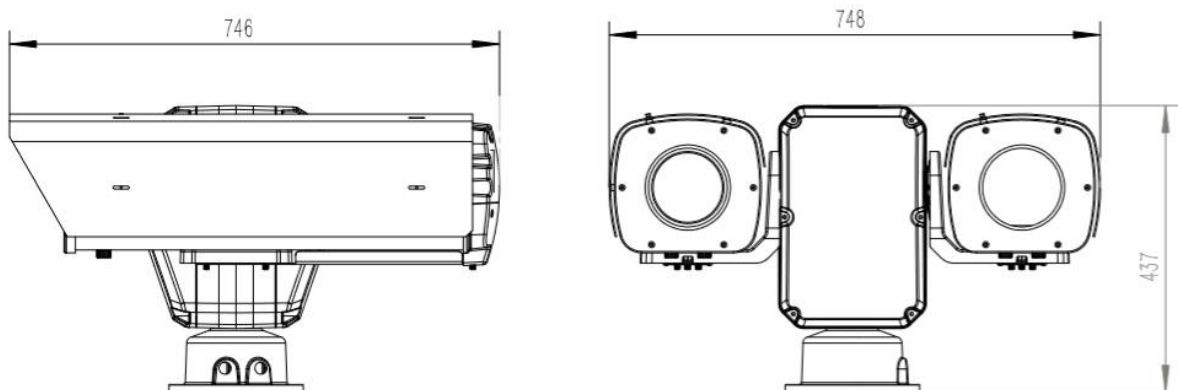
DRI Distance

Target: Human size is 1.8m×0.5m (Critical size is 0.75m), Vehicle size is 1.4m×4.0m (Critical size is 2.3m). The target detection, recognition and identification distances are calculated according to Johnson's Criteria.

The recommended distances of Detection, Recognition and Identification are as follows:

Lens	Detect		Recognize		Identify	
	Vehicle	Human	Vehicle	Human	Vehicle	Human
30mm	3833m (12575ft)	1250m (4101ft)	958m (3143ft)	313m (1027ft)	479m (1572ft)	156m (512ft)
150mm	19167m (62884ft)	6250m (20505ft)	4792m (15722ft)	1563m (5128ft)	2396m (7861ft)	781m (2562ft)

Dimension



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*Design and specifications are subject to change without prior notification.
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