

SG-PTZ4052NIO2-12T30180(6T30180)

- Thermal + Optical Bi-spectrum Heavy Load High Precision Network PTZ Camera
- 4MP 15~775mm 52x Optical Zoom Starlight Network OIS Zoom Camera Module
- 1280×1024 (640×512) Detector with 30~180mm Motorized Lens Network Thermal Camera Module



1. Features

- > Horizontal 360° rotation, speed up to 0.02°~120°/s.
- > Vertical -90°~+90°, speed up to 0.02°~80°/s.
- > Present Accuracy 0.01°.
- > Zoom Synchronization based on Visible Camera.
- > Auto Tracking Based on Visible Camera.
- > Weigh 28kg, 50% lighter than conventional heavy-duty PTZ.
- > IP67 and NEMA 4X ratings for resistance to dust, water, and corrosion.

Visible Camera

- > 1/1.8" Sony Stravis CMOS Sensor.
- > Powerful 52x optical zoom (15~775mm).
- > Max. 4MP(2688×1520) Resolution.
- > Support various IVS functions.
- > Support EIS and Optical Defog.
- > Support OIS function (Optical Image Stabilization).
- > Hisilicon new generation AI noise reduction ISP, restoring the true color world.

Thermal Camera

- > 1280×1024 (640×512) resolution, high sensitivity sensor.
- > 12μm pixel pitch.
- > 30~180mm motorized thermal lens.

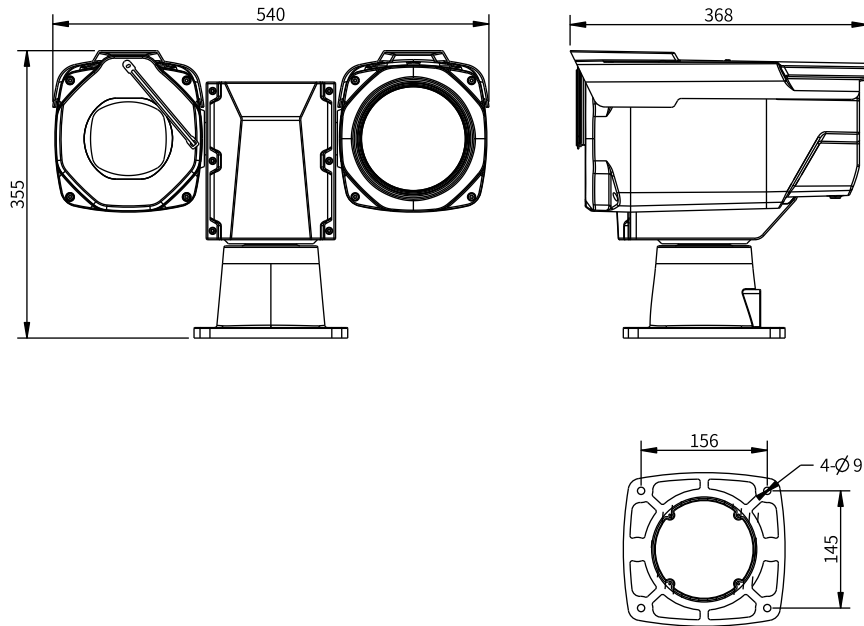
2. Specification

Model		SG-PTZ4052NIO2-12T30180		SG-PTZ4052NIO2-6T30180	
Thermal					
Sensor	Image Sensor	Uncooled VOx microbolometer		Uncooled VOx microbolometer	
	Resolution	1280×1024		640×512	
	Pixel Size	12μm		12μm	
	Spectral Range	8~14μm		8~14μm	
	NETD	≤50mK@25°C, F#1.0		≤50mK@25°C, F#1.0	
Lens	Focal Length	30~180mm motorized Lens		30~180mm motorized Lens	
	Aperture	F1.0~F1.4		F1.0~F1.4	
	Field of View	28.72°×23.15°~4.89°×3.91°(W~T)		14.59°×11.69°~2.44°×1.96°(W~T)	
	Optical Zoom	6x		6x	
	Digital Zoom	4x		8x	
	Protection Level	IP66 waterproof for the 1st Glass of Lens.			
Video	Compression	H.265/H.264B/H.264M/H.264H/MJPEG			
	Snapshot	JPEG			
	Pseudo color	Support: White Hot, Black Hot, Iron Red, Rainbow 1, Fulgurite, Rainbow 2, Fusion, Bluish Red, Amber, Arctic, Tint			
	Streams	Main Stream: 25/30fps@1280×1024, 25/30fps@704×576 Sub-Stream: 25/30fps@704×576, 25/30fps@352×288			
Network	Network Protocol	IPv4, IPv6, HTTP, HTTPS, TCP, UDP, RTSP, RTCP, RTP, ARP, NTP, FTP, DHCP, PPPoE, DNS, DDNS, UPnP, IGMP, ICMP, SNMP, SMTP, QoS, 802.1x, Bonjour			
	Interoperability	ONVIF, HTTP API, SDK, GB28181			
	Max. Connection	20			
Intelligence	Normal Event	Motion Detection, Audio detection, IP address conflict, Illegal Access, Storage anomaly			
	IVS functions	Support intelligent functions: Tripwire, Cross Fence Detection, Intrusion, Loitering Detection.			
	Fire Detection	Support			
Storage Capabilities		Micro SD card, up to 256G			
Visible					
Sensor	Image Sensor	1/1.8" Sony Starvis progressive scan CMOS			
	Effective Pixels	Approx. 4.17 Megapixel			
Lens	Focal Length	15mm~775mm, 52x Optical Zoom			
	Aperture	F2.8~F8.2			
	Field of View	H: 29.1°~0.57°, V: 16.7°~0.32°, D: 33.2°~0.66°			
	Close Focus Distance	1m~10m (Wide~Tele)			
	Zoom Speed	Approx. 7s (Optical Wide~Tele)			
	DORI Distance (Human)	Detect	Observe	Recognize	Identify
		10,808m	4,289m	2,162m	1,081m

Video	Compression	H.265/H.264/H.264H/MJPEG
	Streaming Capability	3 streams
	Resolution	50Hz: 50fps@4MP(2688×1520); 50fps@2MP(1920×1080) 60Hz: 60fps@4MP(2688×1520); 60fps@2MP(1920×1080)
	Video Bit Rate	32kbps~16Mbps
	Audio	AAC / MP2L2
Network	Network Protocol	IPv4, IPv6, HTTP, HTTPS, TCP, UDP, RTSP, RTCP, RTP, ARP, NTP, FTP, DHCP, PPPoE, DNS, DDNS, UPnP, IGMP, ICMP, SNMP, SMTP, QoS, 802.1x, Bonjour
	API	ONVIF, HTTP API, SDK
	Web Browser	IE, Edge, Firefox, Chrome
	User	Up to 20 users, 2 level: Administrator, User
	Storage	Micro SD/SDHC/SDXC card (Up to 1TB) edge storage, FTP, NAS
	Multicast	Support
General Events		Motion, Tamper, SD Card, Network
IVS		Tripwire, Cross Fence Detection, Intrusion, Abandoned Object, Fast-Moving, Parking Detection, Crowd Gathering Estimation, Missing Object, Loitering Detection.
Target Distinction		Human/Vehicle/Vessel Classification
Auto Tracking		Multiple detection tracking modes
S/N Ratio		≥55dB (AGC Off, Weight ON)
Minimum Illumination		Color: 0.01Lux/F2.8; B/W: 0.001Lux/F2.8 (AGC&AI-NR ON)
Noise Reduction		2D/3D/AI Noise Reduction
Exposure Mode		Auto, Aperture Priority, Shutter Priority, Gain Priority, Manual
Exposure Compensation		Support
Shutter Speed		1/1~1/30000s
BLC		Support
HLC		Support
WDR		Support, 120dB
White Balance		Auto, Manual, Indoor, Outdoor, ATW, Sodium lamp, Street lamp, Natural, One Push
Day/Night		Electrical, ICR(Auto/Manual)
Focus Mode		Auto, Manual, Semi Auto, Fast Auto, Fast Semi Auto, One Push AF
Electronic Defog		Support
Optical Defog		Support, 750nm~1100nm channel is Optical Defog
Heat Haze Reduction		Support
Flip		Support
EIS		Support
OIS (Optical Image Stabilization)		Support (ON/OFF)
Digital Zoom		16x
Pan Tilt		

Pan/Tilt Range	Pan: 360° rotate; Tilt: -90°~+90°
Pan Speed	Configurable, pan: 0.02°~120°/s
Tilt Speed	Configurable, pan: 0.02°~80°/s
Positioning Accuracy	0.01°
Preset	256
Tour	8, Up to 32 presets per tour
Scan	5
Pattern	5
Park	Preset/Tour/Scan/Pattern
Scheduled Task	Preset/Tour/Scan/Pattern
Power-off Memory	Support
Snap Positioning	Support
Proportional P/T to Zoom	Support
Heater/Fan	Integrated, Auto/Manual
Wiper	Integrated, Manual/Scheduled
Interface	
Power Interface	Support, GND
Ethernet	1x RJ45 (10/100Mbps self-adaptive Ethernet ports)
Audio I/O	1/1 (for Visible Camera only)
Alarm I/O	2/1
RS485	1, support Pelco-D protocol
General	
Waterproof	IP 67, NEMA 4x
Power	DC36, typical 30W, max 120W
Humidity	<90%, non-condensing
Working temperature	-40°C~+70°C/40°F~158°F
Dimensions(L*W*H)	368mm*540mm*355mm
Weight	Approx. 28kg
Protect	Corrosion-resistant coating meets classification society standards: ASTM B117/ISO9227 (2000 hours) TVS 6000V, Surge protection, Voltage transient protection

3. Dimension

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

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