

SG-PTZ4037NIO-6T55(35)

- Thermal + Optical Bi-spectrum Network PTZ Camera
- 640×512 Detector with 55(35mm) Athermalized Lens Network Thermal Imaging Camera Module
- 4MP 6.5~240mm 37x Optical Zoom Starlight Network Zoom Camera Module



1. Features

- > Horizontal 360° rotation, speed up to 0.1°~160°/s.
- > Vertical -90°~+90°, speed up to 0.1°~55°/s.
- > Precision of pre-positioning $\pm 0.1^\circ$.
- > IP67 waterproof.

Visible Camera

- > 1/1.8" Sony CMOS Sensor.
- > Powerful 37x optical zoom (6.5mm~240mm).
- > Max. 4MP(2688×1520) Resolution.
- > Support various IVS functions.
- > Support Electronic Defog and Optical Defog.
- > Hisilicon new generation AI noise reduction ISP.

Thermal Camera

- > 640×512 Resolution, high sensitivity sensor.
- > 12 μ m Pixel pitch.
- > 55mm (35mm) Athermalized Thermal Lens.
- > Support various IVS functions.

2. Specification

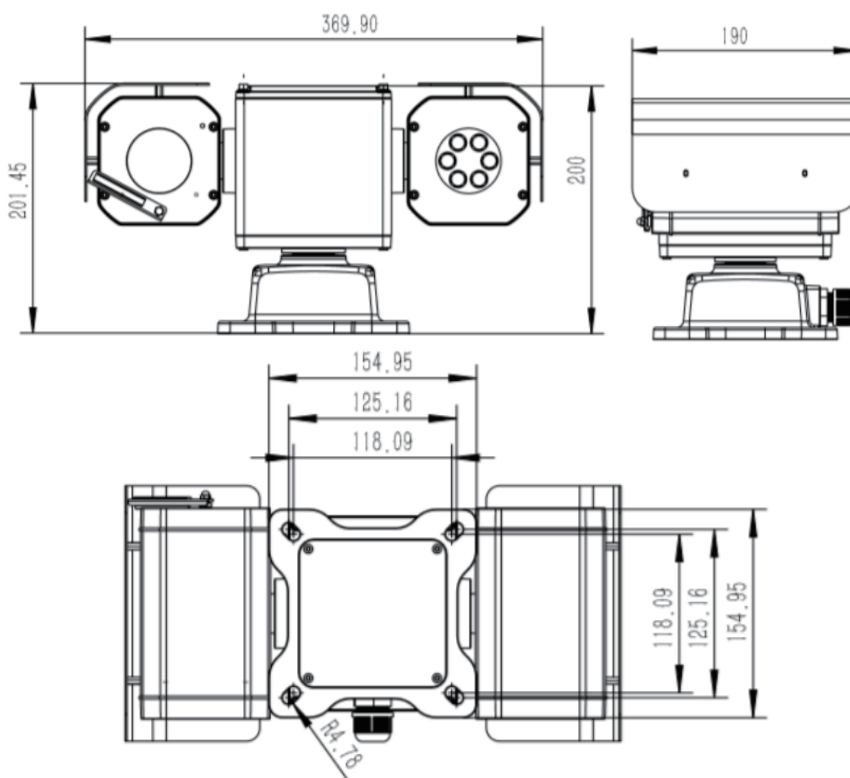
Model		SG-PTZ4037NIO-6T55	SG-PTZ4037NIO-6T35
Thermal			
Sensor	Image Sensor	Uncooled VOx microbolometer	
	Resolution	640×512	
	Pixel Size	12 μ m	

	Spectral Range	8~14μm		
	NETD	≤50mK@25°C, F#1.0		
Lens	Focal Length	55mm Athermalized Lens	35mm Athermalized Lens	
	Digital Zoom	N/A	N/A	
	F Value	F1.0	F1.0	
	FOV	8.0°×6.4°	12.5°×10.0°	
Video	Compression	H.265/H.264/H.264H		
	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: 25fps@(1280×1024), 25fps@(640×512) Sub Stream: 25fps@(704×675), 25fps@(352×288)		
Network	Network Protocol	IPv4/IPv6, HTTP, HTTPS, Qos, FTP, SMTP, UPnP, DNS, DDNS, NTP, RTSP, RTP, TCP, UDP, DHCP, PPPoE, 802.1X, IP Filter		
	Interoperability	ONVIF Profile S, Open API, SDK		
	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	6.5mm~240mm, 37x Optical Zoom		
	Aperture	F1.5~F4.8		
	Field of View	H: 61.90°~1.86°, V: 37.28°~1.05°, D: 69.05°~2.13°		
	Close Focus Distance	1.0m~5m (Wide~Tele)		
	Zoom Speed	< 4s (Optical Wide~Tele)		
	DORI Distance (Human)	Detect	Observe	Recognize
	3,311m	1,314m	662m	331m
Video	Compression	H.265/H.264B/H.264M/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
S/N Ratio		≥55dB (AGC Off, Weight ON)
Minimum Illumination		Color: 0.0001Lux/F1.5; B/W: 0.00005Lux/F1.5
Noise Reduction		2D/3D/AI Noise Reduction
Exposure Mode		Auto, Aperture Priority, Shutter Priority, Gain Priority, Manual
Exposure Compensation		Support
Shutter Speed		1/3~1/30000s
BLC		Support
HLC		Support
WDR		Support
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
Flip		Support
EIS		Support
Digital Zoom		16x
Pan Tilt		
Power On/OFF Self-Checking		Yes
Preset		255
Communication Mode		RS485
Pan/Tilt Range		Pan: 360° rotate; Tilt: -90°~+90°
Pan Speed		Configurable, pan: 0.1°~160°/s
Tilt Speed		Configurable, Tilt: 0.1°~55°/s
Precision of pre-positioning		±0.1°
Scan		Support
Wiper		Support (For visible camera)
Interface		
Power Interface		Support
Ethernet		1×RJ45 (10Base-T/100Base-TX)

Audio I/O	1/1 (for Visible Camera only)
Alarm I/O	1/1
RS485	1
General	
Waterproof	IP67
Power	DC9~36V Power input (AC 24V for optional)
Power Consumption	<30W
Humidity	0~90% non-condensing
Working temperature	-40°C~70°C/ 0 to 90%RH
Dimensions(L*W*H)	190mm*369.9mm*201.5mm
Weight	Approx. 7.4kg

3. Dimension



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

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