SG-PTZ2086N-12T37300

1280x1024 12µm Thermal and 2MP 86x Zoom Visible Bi-spectrum PTZ Camera

- Thermal: 12µm 1280×1024
- Thermal lens: 37.5~300mm motorized lens
- Visible: 1/2" 2MP CMOS
- Visible lens: 10~860mm, 86x 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-PTZ2086N-12T37300
Thermal Module	
Detector Type	VOx, uncooled FPA detectors
Max Resolution	1280x1024
Pixel Pitch	12µm
Spectral Range	8~14µm
NETD	≤50mk (@25°C, F#1.0, 25Hz)
Focal Length	37.5~300mm
Field of View	23.1°×18.6°~ 2.9°×2.3°(W~T)
F#	F0.95~F1.2
Focus	Auto Focus
Color Palette	18 modes selectable such as Whitehot, Blackhot, Iron, Rainbow.
Optical Module	
Image Sensor	1/2" 2MP CMOS
Resolution	1920×1080
Focal Length	10~860mm, 86x optical zoom
F#	F2.0~F6.8
Focus Mode	Auto / Manual / One-shot auto
FOV	Horizontal: 39.6°~0.5°
Min. Illumination	Color: 0.001Lux/F2.0, B/W: 0.0001Lux/F2.0
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 (1280×1024, 704×576) 60Hz: 30fps (1280×1024, 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

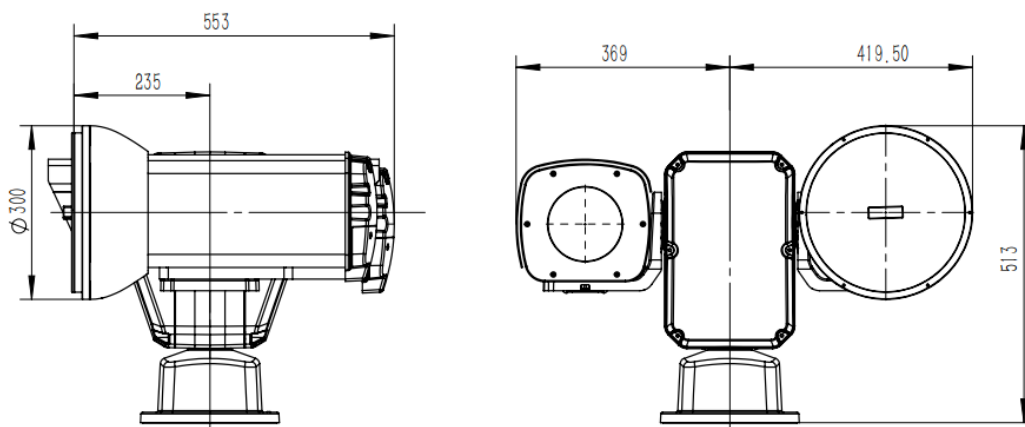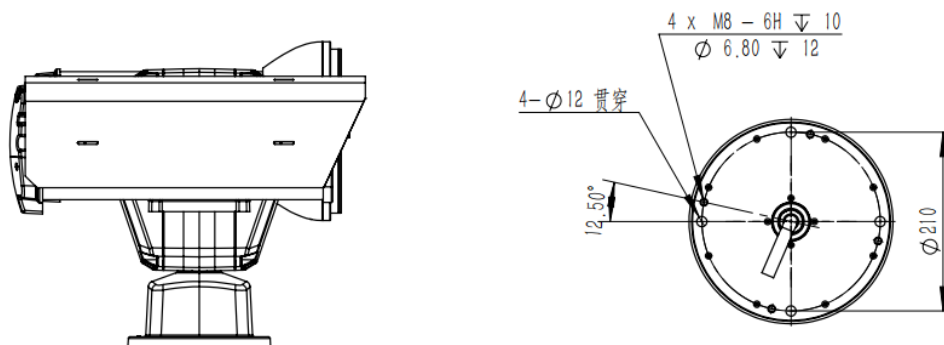|	
Baud-rate	2400/4800/9600/19200bps
Interface	
Network Interface	1 RJ45, 10M/100M Self-adaptive Ethernet interface
Audio	1 in, 1 out (for visible camera only)
Analog Video	1 (BNC, 1.0V[p-p], 75Ω) for Visible Camera only
Alarm In	7 channels
Alarm Out	2 channels
Storage	Support Micro SD card (Max. 256G), hot SWAP
RS485	1, support Pelco-D protocol
General	
Operating Conditions	-40℃~+60℃, <90% RH
Protection Level	IP66
Power Supply	DC48V
Power Consumption	Static power: 35W, Sports power: 160W (Heater ON)
Dimensions	789mm×570mm×513mm (W×H×L)
Weight	Approx. 88kg

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**
37.5mm	4792m (15722ft)	1563m (5128ft)	1198m (3930ft)	391m (1283ft)	599m (1596ft)	195m (640ft)
300mm	38333m (125764ft)	12500m (41010ft)	9583m (31440ft)	3125m (10253ft)	4792m (15722ft)	1563m (5128ft)

Dimension

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