

SN-TPS6457ET-M

Thermal & Optical Bi-spectrum Network Speed Dome



Key Features

- 640 × 512 (the resolution of output image is 1920 × 1080) resolution
- $12\mu m$, VOx UFPA, NETD $\leq 40mK$
- 25mm motorized thermal lens, 40x optical zoom lens
- Support human/vehicle detection
- Support fire point detection, smoking detection and smoke & fire detection
- Smart events: intrusion, single line crossing, double line crossing, loitering, wrong-way, people counting, enter area, leave area and smart motion detection
- Smart tracking: Cold/hot spot tracking, human/vehicle and ship tracking
- Support 3 temperature measurement rule types (spot, line, area)
- Temperature range: -20°C to 150°C (-4°F to 302°F) or 0°C to 550°C (32°F to 1022°F)
- Smart rain-sensing wiper, IP66

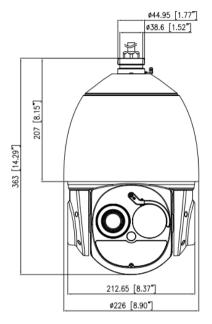
Specification

Thermal Module		
Image Sensor	Uncooled VOx Focal Plane Arrays	
Resolution	Sensor is 640×512. Image can be scaled up to 1920×1080	
Pixel Pitch	12µm	
NETD	≤ 40mK	
Spectral Range	8 to 14 μm	
Image Setting	Brightness, Sharpness, Contrast, Mirror, FFC control, 2D/3D DNR	
Pseudo-color Setting	White-hot/Black-hot/Rainbow/Ironbow etc. up to 17 modes	
Thermal Lens		
Focus Control	Motorized Focus	
Focal Length	25 mm	
Aperture	F1.0	
Angle of View	H: 17°, V: 14°	
Detection Distance (Humans: 1.8×0.5m)	1,040 m (3,412.1 ft)	
Detection Distance (Vehicles: 4×1.5 m)	3,194 m (10,479 ft)	
Recognition Distance (Humans: 1.8×0.5 m)	260 m (853 ft)	
Recognition Distance (Vehicles: 4×1.5 m)	799 m (2,621.4 ft)	
Identification Distance (Humans: 1.8×0.5 m)	130 m (426.5 ft)	
Identification Range (Vehicles: 4×1.5 m)	399 m (1,309 ft)	
* The optimal detection, recognition, and Detection Range: In order to distinguish a Recognition Range: In order to classify the	erformance may vary according to different environment. identification distances are calculated according to Johnson's Criteria. n object from the background, the object must be covered by 1.5 or more pixels. e object (animal, human, vehicle, etc.), the object must be covered by 6 or more pixels. he object and describe it in details, the object must be covered by 12 or more pixels.	
Detection Range Table		
Temperature Measurement (Object: 1 × 1m)	417 m (1,368.1 ft)	
Temperature Measurement (Object: 0.2 × 0.2m)	83 m (272.3 ft)	
Fire Detection (Object: 1 × 1m)	1,042 m (3,418.6 ft)	
Fire Detection (Object: 0.2 × 0.2m)	208 m (682.4 ft)	
Note: The table is for reference only. The installation site, and more.	distances within it are subject to actual conditions including atmospheric conditions, target size, the	
Optical Module		
Image Sensor	1/1.8" Sony CMOS	
Max. Resolution	2688 (H) ×1520 (V), 4MP	
Shutter Speed	1/5 to 1/20,000s	
Min. Illumination	Color: 0.001 Lux @ (F1.5, AGC ON), B/W: 0.0001 Lux (F1.5, AGC ON), 0 Lux with IR	

WDR	True WDR
Focal Length	6.27 to 251mm, 40x optical zoom
Aperture	F1.5 to F4.8
Angle of View	H: 60.7° to 2.33°, V: 36.8° to 1.38°
Digital Zoom	16x
Focus Control	Auto/Manual
Mirror	Support
Defog	Support
Anti-shake	Support Gyroscope
Privacy Masking	Support
PTZ	
Pan/Tilt Range	Pan: 0° to 360° endless, Tilt: -10° to +90°
Pan Speed	Pan: 0.01° to 300°/s, preset speed: 300°/s
Tilt Speed	Tilt: 0.01° to 240°/s, preset speed: 240°/s
Wiper	Support
Preset Accuracy	≤ 0.2°
Presets	400
Scan	12 scans
Patrol	12 patrols, up to 32 presets per patrol
Track	6 tracks
3D Positioning	Support
Speed Setup	Auto/Manual (0-8)
Power Off Memory	Support
Idle Motion	The time can be set (1-240 minutes), and functions such as preset positions, patrols, scans, and tracks can be run.
Illuminator	
Illuminator Type	IR
Illumination Distance	Up to 300m (984.25ft)
Illumination Intensity And Angle	Automatically adjusted
Video and Audio	
Main Stream	Thermal: 1920×1080, 1280×1024, 1280×720, 640×512 @25fps Optical: 2688×1520, 2560×1440, 2304×1296, 1920×1080, 1280×720 @25/30fps
Sub Stream	Thermal: D1, VGA, 640×512, CIF @25/30fps Optical: D1, VGA @25/30fps
Bit Rate Control	CBR/VBR
Bit Rate	Thermal: Main stream: 100Kbps to 12Mbps Sub stream: 100Kbps to 6Mbps Optical: Main stream: 100Kbps to 16Mbps, Sub stream: 100Kbps to 6Mbps
Region of Interest	Off/On (8 Zone, Rectangle)
Audio Compression	G711: 64kbps, RAW_PCM: 128kbps
Smart Function	

Smart Alarm	Motion detection, Disk alarm, I/O alarm, IVS alarm, Temperature detection & alarm
Smart Detection	Support human/vehicle detection, fire point detection, smoking detection and smoke & fire detection
Intelligent Analysis	Intrusion, Single line crossing, Double line crossing, Loitering, Wrong-way, Enter area, Leave area (these 7 function support accurate detection of people/vehicles)
People counting	Support
Smart Tracking	Cold/hot spot tracking, human/vehicle tracking
Temperature Detection	
Temperature Detection	3 temperature measurement rule types, 20 rules in total, 1 full screen, 19 others (spot, areas, line).
Temperature Alarm	Over temperature alarm, Temperature difference alarm
Accuracy	±2°C / ±2%
Response Time	≤ 30ms
Temperature Range	-20°C to 150°C (-4°F to 302°F) or 0°C to 550°C (32°F to 1022°F)
Network	
Protocols	IPv4/IPv6 ,HTTP,RTSP/RTP/RTCP, TCP/UDP, DHCP, DNS, PPPOE, SMTP, 802.1x
Interoperability	ONVIF, CGI, SDK
Max. User Access	10 Users
Web Viewer	<ie11, chrome,="" edge<="" firefox,="" microsoft="" td=""></ie11,>
Web Language	English, Chinese, Polish, Italian, Portuguese, Spanish. Russian, French, Czech, Hungarian
Interface	
Network Interface	1 Ethernet (10/100 Base-T) RJ-45 Connector
Audio Interface	1ch Audio In, 1ch Audio Out
Alarm Interface	7ch Alarm In, 2ch Alarm Out
RS485	Support
BNC Output	Support
SD Card Slot	Built-in, up to 256GB
General	
Power Supply	24VDC/36VDC/PoE++ (IEEE 802.3bt), Standard Equipped: 36VDC
Power Consumption	Max 45 W
Working Temperature	-40°C to 60°C (-40°F to 140°F)
Storage Conditions	0 to 90% RH
Certifications	CE /FCC
Ingress Protection	IP66
Casing	Metal
Dimensions	φ 226×363mm ($φ$ 8.9×14.29 inch)
Net Weight	6 kg (13.2 lb)
Ordering Information	
Model	Description
SN-TPS6457ET-M25-ZSD40	Thermal Focal Length: 25mm Optical Focal Length: 6.27 to 251mm

Dimensions (mm)



Accessories

Optional:



SN-CBK506B Wall Bracket



SN-BK367 Junction Box



SN-BK348A Ceiling Bracket



SN-BK355 Wall Bracket



SN-BK605 Corner Mount



SN-BK358 Corner Mount



SN-BK604B Pole Mount



SN-BK359 Pole Mount