

# SN-TPS4157ET-M

Thermal & Optical Bi-spectrum Network Speed Dome



## **Key Features**

- 384 × 288 (the resolution of output image is 1280 × 720) resolution 12 $\mu$ m, VOx UFPA, NFTD < 40mK
- 25mm motorized focus 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 detection
- 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)
- IP66

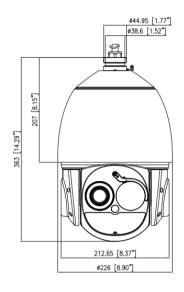
## **Specification**

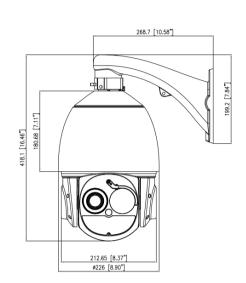
Thermal Module		
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays	
Resolution	Sensor is 384×288. Image can be scaled up to 1280×720	
Pixel Pitch	12μm	
NETD	≤ 40mK	
Spectral Range	8 to 14 μm	
Image Setting	Brightness, Sharpness, Contrast, Mirror, FFC control, 2D/3D DNR	
Pseudo-color Setting	White-hot/Black-hot/Rainbow/Ironbow etc. up to 17 modes	
Thermal Lens		
Focus Control	Motorized Focus	
Focal Length	25mm	
Aperture	F1.0	
Angle of View	H: 10.5°, V: 7.9°	
Detection Distance (Fire: 1×1m)	1,042m (3418.6ft)	
Detection Distance (Human: 1.8×0.5m)	1,040m (3,412.1ft)	
Detection Distance (Vehicle: 4×1.5m)	3,194m (10,479ft)	
Recognition Distance (Human: 1.8×0.5m)	260m (853.0ft)	
Recognition Distance (Vehicle: 4×1.5m)	799m (2621.4ft)	
Note: The detection ranges are calculated with Johnson's criteria and vary in different weather conditions.  *Product performance is based on testing in a controlled environment. Your results may vary due to several external and environmental factors.		
Optical Module		
Image Sensor	1/1.8" 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, 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/Semi-automatic	
Mirror	Support	

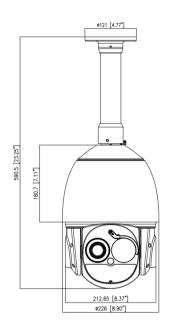
Defog		
50.05	Support	
Anti-shake	Support Gyroscope	
Privacy Masking	Support	
РТ		
Pan/Tilt Range	Pan: 0° to 360° endless, Tilt: -10° to 90°	
Pan Speed	Pan: 0.01° to 300°/s, preset speed: 300°/s	
Tilt Speed	Tilt: 0.01° to 240°/s, preset speed: 240°/s	
Wiper	Support	
Preset Accuracy	≤ 0.2°	
Presets	400	
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: 1280×720, 704×576, 384×288 @ 25fps Optical: 2688×1520, 2560×1440, 2304×1296, 1920×1080, 1280×720 @ 25/30fps	
Sub Stream	Thermal: 704×576, 384×288, 352×240 @ 25fps Optical: D1, VGA @25/30fps	
Bit Rate Control	CBR/VBR	
Bit Rate	Thermal: Main stream: 100Kbps to 8Mbps Sub stream: 100Kbps to 6Mbps Optical: Main stream: 100Kbps to 16Mbps, Sub stream: 100Kbps to 6Mbps	
Region of Interest (Thermal)	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 and Smart motion detection (these functions support accurate detection of human/vehicles)	
People Counting	Support	

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%	
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, DDNS, PPPoE, UPNP, ICMP, IGMP, FTP, NTP, SMTP, 802.1x, SNMP	
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	24VAC/36VDC/PoE++ (802.3bt)	
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	ф226 × 362.8mm (ф8.9 × 14.28 inch)	
Net Weight	6kg (13.2lb)	
Ordering Information		
Model	Description	
SN-TPS4157ET-M25-ZSD40	Thermal Focal Length: 25mm Optical Focal Length: 6.27 to 251mm, 40x optical zoom	

## **Dimensions (mm)**







## **Accessories**

#### Optional:

