

SN-TPS4157ET-F

Thermal & Optical Bi-spectrum Network Speed Dome



Key Features

- 384 × 288 (the resolution of output image is 1280 × 720) resolution 12µm, VOx UFPA, NETD \leq 40mK
- 5/7/15mm 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

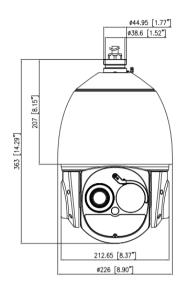
Specification

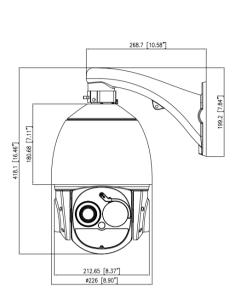
Thermal Module				
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays			
Resolution	Sensor is 384×288. Image can be scaled up to 1280×720			
Pixel Pitch	12µm			
NETD	≤ 40mK			
Spectral Range	8 to 14 μm			
Image Setting	Brightness, Sharpness, Contrast, Mirror, FFC control, 2D/3D DNR			
Pseudo-color Setting	White-hot/Black-hot/Rainbow/Ironbow etc. up to 17 modes			
Thermal Lens				
Focus Control	Free Focus			
Focal Length	5mm	7mm	15mm	
Aperture	F1.0	F1.0	F1.0	
Angle of View	H: 56°, V: 40°	H: 44°, V: 33°	H: 21°, V: 16°	
Detection Distance (Fire: 1×1m)	208m (682.4ft)	292m (10,252.6ft)	625m (2,050.5ft)	
Detection Distance (Human: 1.8×0.5m)	208m (682.4ft)	291m (10,239.5ft)	624m (2,047.2ft)	
Detection Distance (Vehicle: 4×1.5m)	639m (2,096.5ft)	894m (31,440.2ft)	1,917m (6,289.4ft)	
Recognition Distance (Human: 1.8×0.5m)	52m (170.6ft)	73m (2,559.1ft)	156m (511.8ft)	
Recognition Distance	160m (524.9ft)	224m (7,860.9ft)	479m (1,571.5ft)	
	l 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			

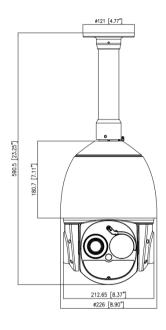
Defog	Support		
Anti-shake	Support Gyroscope		
Privacy Masking	Support		
PTZ			
Pan/Tilt Range	Pan: 0° to 360° endless, Tilt: -10° to 90°		
Pan Speed	Pan: 0.01° to 300°/s, preset speed: 300°/s		
Tilt Speed	Tilt: 0.01° to 240°/s, preset speed: 240°/s		
Wiper	Support		
Preset Accuracy	≤ 0.2°		
Presets	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: 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	φ226 × 362.8mm (φ8.9 × 14.28 inch)		
Net Weight	6kg (13.2lb)		
Ordering Information			
Model	Description		
SN-TPS4157ET-F5-ZSD40	Thermal Focal Length: 5mm Optical Focal Length: 6.27 to 251mm, 40x optical zoom		
SN-TPS4157ET-F7-ZSD40	Thermal Focal Length: 7mm Optical Focal Length: 6.27 to 251mm, 40x optical zoom		
SN-TPS4157ET-F15-ZSD40	Thermal Focal Length: 15mm Optical Focal Length: 6.27 to 251mm, 40x optical zoom		

Dimensions (mm)







Accessories

Optional:



SN-BK349 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