

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, wrongway, 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

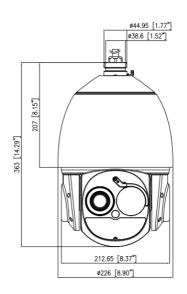
Specification

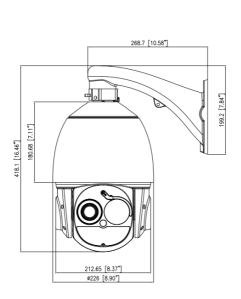
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NETD Amma Spectral Range 840 14 µm mage Setting Bits 14 µm Breadboard of Setting Brightness, Sharpness, Contrast, VFC control, 2D/3D DNR Breadboard Setting White-hot/Black-hot/Rainbow/Ire-true to to 17 modes Phoreal Lease Setting Mine-hot/Black-hot/Rainbow/Ire-true to to 17 modes Phoreal Lease Fee Focus Ismm Ismm Setting Of View Fi.0 Fi.0 Fi.0 Ange of View H: 56', V: 40' H: 44', V: 33' H: 21', V: 16' Setting Distance SoBm (682.4ft) Spin (958.4') Spin (2005.5ft) Setting Distance SoBm (682.4ft) Spin (954.7 ft) E24m (2,047.2ft) Setting Distance SoBm (682.4ft) Spin (954.7 ft) E24m (2,047.2ft) Setting Distance SoBm (2,096.5ft) B44m (2933.1 ft) 1,917m (6,289.4ft) Setting Distance SoBm (2,096.5ft) Spin (239.5 ft) 479m (1,571.5ft) Setting Distance IsoB (1,92.50 ft/) Spin (1,92.51 ft) Spin (1,92.51 ft) Setting Distance Sto 1/20.00005 Spin (1,35.01 (20,0005	Resolution	Sensor is 384×288. Image can be scaled up to 1280×720					
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AppertureF1.0F1.0F1.0Angle of ViewF1.0F1.0F1.0Angle of ViewH: 56°, V: 40°H: 44°, V: 33°H: 21°, V: 16°Detection Distance Fire: 1x1m)208m (682.4ft)292m (958 ft)625m (2,050.5ft)Detection Distance Human: 1.8x0.5m)208m (682.4ft)291m (954.7 ft)624m (2,047.2ft)Detection Distance Human: 1.8x0.5m)639m (2,096.5ft)894m (293.1 ft)1,917m (6,289.4ft)Detection Distance Human: 1.8x0.5m)52m (170.6ft)73m (239.5 ft)156m (511.8ft)Recognition Distance Vehicle: 4x1.5m)160m (524.9ft)224m (734.9 ft)479m (1,571.5ft)Note: The detection ranges are calculated with Johnson's criteria and vary in different weather conditions. Product performance is based on testing in consoled environment. Your results may vary due to several environmental factors. Detection DistanceNote: The detection ranges are calculated with Johnson's criteria and vary in different weather conditions. Product performance is based on testing in consoled environment. Your results may vary due to several environmental factors. Detection DistanceNote: The detection ranges are calculated with Johnson's criteria and vary in different weather conditions. Product performance is based on testing in CMOSMuman: 1.8x0.5m)6268 (H)×1520 (V), 4MPWin. IlluminationColor: 0.001 Lux @ (F1.5, AGC ON). JW: 0.0001 Lux, 0 Lux with IRMoRColor: 0.001 Lux @ (F1.5, AGC ON). JW: 0.0001 Lux, 0 Lux with IRColor Length62.7 to 251mm, 40x optical zoomAnd Length62.7 to 251mm, 40x optical zoom	Focus Control	Free Focus					
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Detection Distance Vehicle: 4x1.5m)639m (2,096.5ft)894m (2933.1 ft)1,917m (6,289.4ft)Recognition Distance Human: 1.8x0.5m)52m (170.6ft)73m (239.5 ft)156m (511.8ft)Recognition Distance Vehicle: 4x1.5m)160m (524.9ft)224m (734.9 ft)479m (1,571.5ft)Note: The detection ranges are calculated with Johnson's criteria and vary in different weather conditions. Product performance is based on testing a controlled environment. Your reverse may vary due to several external environmental factors. Product performance is based on testing and vary in different weather conditions. Product performance is based on testing and vary in different weather conditions. Product performance is based on testing and vary in different weather conditions. Product performance is based on testing and vary in different weather conditions. Product performance is based on testing and vary in different weather conditions. Product performance is based on testing and vary in different weather conditions. Product performance is based on testing and vary in different weather conditions. Product performance is based on testing and vary in different weather conditions. Product performance is based on testing and vary in different weather conditions. Product performance is based on testing and vary in different weather conditions. Product performance is based on testing and vary in different weather conditions. Product performance is based on testing and vary in different weather conditions. Product performance is based on testing and vary in different weather conditions. Product performance is based on testing and vary in different weather conditions. Product performance is based on testing and vary in different weather conditions. Product performance is based on testing and vary in dinferent weather conditions. Product per	Detection Distance	208m (682.4ft)	291m (954.7 ft)	624m (2,047.2ft)			
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Recognition Distance Vehicle: 4x1.5m) 160m (524.9ft) 224m (734.9 ft) 479m (1,571.5ft) Note: The detection ranges are calculated with Johnson's criteria and vary is different weather conditions. Product performance is based on testing a controlled environment. Your Just and vary due to several external environmental factors. Optical Module International optical controlled environment. Your Just and vary due to several externations. International environmental factors. Optical Module International environment. Your Just and Vary due to several externations. International environmental factors. Optical Module International environment. Your Just and Yary due to several externations. International environmental factors. Optical Module International environment. Your Just and Yary due to several externations. International environmental factors. Make Resolution International environmental environment. Your Just and Yary due to several externations. International environmental factors. WDR International environmental environ	Recognition Distance	52m (170.6ft)	73m (239.5 ft)	156m (511.8ft)			
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Dptical Module mage Sensor 1/1.8" CMOS Max. Resolution 2688 (H)×1520 (V), 4MP Shutter Speed 1/5 to 1/20,000s Vin. Illumination Color: 0.001 Lux @ (F1.5, AGC ON), B/W: 0.0001 Lux, 0 Lux with IR VDR True WDR Focal Length 6.27 to 251mm, 40x optical zoom Aperture F1.5 to F4.8	Note: The detection ranges are calculated with Johnson's criteria and vary in different weather conditions.						
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Min. Illumination Color: 0.001 Lux @ (F1.5, AGC ON), B/W: 0.0001 Lux, 0 Lux with IR NDR True WDR Focal Length 6.27 to 251mm, 40x optical zoom Aperture F1.5 to F4.8	Max. Resolution	2688 (H)×1520 (V), 4MP					
WDR True WDR Focal Length 6.27 to 251mm, 40x optical zoom Aperture F1.5 to F4.8	Shutter Speed						
Focal Length 6.27 to 251mm, 40x optical zoom Aperture F1.5 to F4.8	Min. Illumination	Color: 0.001 Lux @ (F1.5, AGC ON), B/W: 0.0001 Lux, 0 Lux with IR					
Aperture F1.5 to F4.8	WDR						
	Focal Length	6.27 to 251mm, 40x optical zoom					
Angle of View H: 60.7° to 2.33°. V: 36.8° to 1.38°	Aperture	F1.5 to F4.8					
	Angle of View	H: 60.7° to 2.33°, V: 36.8° to 1.38°					
Digital Zoom 16x	Digital Zoom	16x					
Focus Control Auto/Manual/Semi-automatic	Focus Control	Auto/Manual/Semi-automatic					
Mirror Support	Mirror	Support					

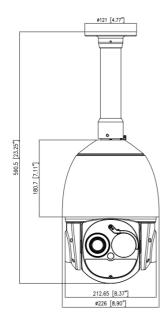
Defog	Support	
Anti-shake	Support Gyroscope	
Privacy Masking	Support	
PTZ		
Pan/Tilt Range	Pan: 0° to 360° endless, Tilt: -10° to 90°	
Pan Speed	Pan: 0.01° to 300°/s, preset speed: 300°/s	
Tilt Speed	Tilt: 0.01° to 240°/s, preset speed: 240°/s	
Wiper	Support	
Preset Accuracy	≤ 0.2°	
Presets	400	
Scan	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	
Illuminator Type Illumination Distance	IR Up to 300m (984.25ft)	
Illumination Distance	Up to 300m (984.25ft)	
Illumination Distance Illumination Intensity And Angle	Up to 300m (984.25ft)	
Illumination Distance Illumination Intensity And Angle Video and Audio	Up to 300m (984.25ft) Automatically adjusted Thermal: 1280×720, 704×576, 384×288 @ 25fps	
Illumination Distance Illumination Intensity And Angle Video and Audio Main Stream	Up to 300m (984.25ft) Automatically adjusted Thermal: 1280×720, 704×576, 384×288 @ 25fps Optical: 2688×1520, 2560×1440, 2304×1296, 1920×1080, 1280×720 @ 25/30fps Thermal: 704×576, 384×288, 352×240 @ 25fps	
Illumination Distance Illumination Intensity And Angle Video and Audio Main Stream Sub Stream	Up to 300m (984.25ft) Automatically adjusted Thermal: 1280×720, 704×576, 384×288 @ 25fps Optical: 2688×1520, 2560×1440, 2304×1296, 1920×1080, 1280×720 @ 25/30fps Thermal: 704×576, 384×288, 352×240 @ 25fps Optical: D1, VGA @ 25/30fps	
Illumination Distance Illumination Intensity And Angle Video and Audio Main Stream Sub Stream Bit Rate Control	Up to 300m (984.25ft) Automatically adjusted Thermal: 1280×720, 704×576, 384×288 @ 25fps Optical: 2688×1520, 2560×1440, 2304×1296, 1920×1080, 1280×720 @ 25/30fps Thermal: 704×576, 384×288, 352×240 @ 25fps Optical: D1, VGA @ 25/30fps CBR/VBR Thermal: Main stream: 100Kbps to 8Mbps Sub stream: 100Kbps to 6Mbps Optical: Main stream: 100Kbps to 16Mbps,	
Illumination Distance Illumination Intensity And Angle Video and Audio Main Stream Sub Stream Bit Rate Control Bit Rate	Up to 300m (984.25ft) Automatically adjusted Thermal: 1280×720, 704×576, 384×288 @ 25fps Optical: 2688×1520, 2560×1440, 2304×1296, 1920×1080, 1280×720 @ 25/30fps Thermal: 704×576, 384×288, 352×240 @ 25fps Optical: D1, VGA @ 25/30fps CBR/VBR Thermal: Main stream: 100Kbps to 8Mbps Sub stream: 100Kbps to 6Mbps Optical: Main stream: 100Kbps to 16Mbps, Sub stream: 100Kbps to 16Mbps, Sub stream: 100Kbps to 6Mbps	
Illumination Distance Illumination Intensity And Angle Video and Audio Main Stream Sub Stream Bit Rate Control Bit Rate Region of Interest (Thermal)	Up to 300m (984.25ft) Automatically adjusted Thermal: 1280×720, 704×576, 384×288 @ 25fps Optical: 2688×1520, 2560×1440, 2304×1296, 1920×1080, 1280×720 @ 25/30fps Thermal: 704×576, 384×288, 352×240 @ 25fps Optical: D1, VGA @ 25/30fps CBR/VBR Thermal: Main stream: 100Kbps to 8Mbps Sub stream: 100Kbps to 6Mbps Optical: Main stream: 100Kbps to 16Mbps, Sub stream: 100Kbps to 16Mbps, Sub stream: 100Kbps to 6Mbps Off/On (8 Zone, Rectangle)	
Illumination Distance Illumination Intensity And Angle Video and Audio Main Stream Sub Stream Bit Rate Control Bit Rate Region of Interest (Thermal) Audio Compression	Up to 300m (984.25ft) Automatically adjusted Thermal: 1280×720, 704×576, 384×288 @ 25fps Optical: 2688×1520, 2560×1440, 2304×1296, 1920×1080, 1280×720 @ 25/30fps Thermal: 704×576, 384×288, 352×240 @ 25fps Optical: D1, VGA @ 25/30fps CBR/VBR Thermal: Main stream: 100Kbps to 8Mbps Sub stream: 100Kbps to 6Mbps Optical: Main stream: 100Kbps to 16Mbps, Sub stream: 100Kbps to 16Mbps, Sub stream: 100Kbps to 6Mbps Off/On (8 Zone, Rectangle)	
Illumination Distance Illumination Intensity And Angle Video and Audio Main Stream Sub Stream Bit Rate Control Bit Rate Audio of Interest (Thermal) Audio Compression Smart Function	Up to 300m (984.25ft)Automatically adjustedThermal: 1280×720, 704×576, 384×288 @ 25fps Optical: 2688×1520, 2560×1440, 2304×1296, 1920×1080, 1280×720 @25/30fpsThermal: 704×576, 384×288, 352×240 @ 25fps Optical: D1, VGA @25/30fpsCBR/VBRThermal: Main stream: 100Kbps to 8Mbps Sub stream: 100Kbps to 6MbpsOptical: Main stream: 100Kbps to 6Mbps Optical: Main stream: 100Kbps to 6MbpsOff/On (8 Zone, Rectangle)G711: 64kbps, RAW_PCM: 128kbpsMotion detection, Disk alarm, I/O alarm, IVS alarm, Temperature detection & alarmSupport human/vehicle detection, fire point detection, smoking detection and smoke & fire detection	
Illumination Distance Illumination Intensity And Angle Video and Audio Main Stream Sub Stream Bit Rate Control Bit Rate Audio Compression Smart Function Smart Alarm	Up to 300m (984.25ft)Automatically adjustedThermal: 1280×720, 704×576, 384×288 @ 25fps Optical: 2688×1520, 2560×1440, 2304×1296, 1920×1080, 1280×720 @25/30fpsThermal: 704×576, 384×288, 352×240 @ 25fps Optical: D1, VGA @25/30fpsCBR/VBRThermal: Main stream: 100Kbps to 8Mbps Sub stream: 100Kbps to 6MbpsOptical: Main stream: 100Kbps to 16Mbps, Sub stream: 100Kbps to 16Mbps, Sub stream: 100Kbps to 6MbpsOff/On (8 Zone, Rectangle)G711: 64kbps, RAW_PCM: 128kbpsMotion detection, Disk alarm, I/O alarm, IVS alarm, Temperature detection & alarm	

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