



SNTPS6457ELTM

Bi-spectrum 4G Network Speed Dome Camera



Key Features

- 640×512 (the resolution of output image is 1920×1080) resolution
- 12 μ m, VOx UFPA, NETD \leq 40mK
- Thermal: 25mm motorized focus lens; Visible: 40x optical zoom module
- Support human/vehicle/ship, smoking, smoke & flame, fire point detection
- Intelligent analytics: Intrusion, single/double line crossing, loitering, wrong-way, enter/leave area detection, smart motion detection, and people counting
- Support 4G LTE data transmission
- Smart tracking: Cold/hot spot tracking, human/vehicle and ship tracking
- Support 3 temperature measurement rule types (spot, line, area)
- Temperature monitoring & alarm: -20°C to 150°C (-4°F to 302°F) or 0°C to 550°C (32°F to 1022°F), Accuracy: ±2°C / ±2%
- Smart IR range up to 300m
- Smart Rain-Sensing Wiper, IP66





Specification

Camera	Thermal	Visible
Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays	1/1.8" STARVIS™ CMOS
Resolution	Sensor is 640×512. Image can be scaled up to 1920×1080	2688 (H)×1520 (V), 4MP
Pixel Pitch	12µm	
Spectral Range	8 to 14μm	
NETD	≤ 40mK	
Min. Illumination		Color: 0.001 Lux @(F1.5, AGC ON), B/W: 0.0001 Lux (F1.5, AGC ON), 0 Lux with light
Shutter Speed		1/5 to 1/20,000s
Lens Type	Fixed lens	40x optical zoom
Focal Length	25 mm	6.27 to 251 mm
Max. Aperture	F1.0	F1.5
Focus Control	Motorized focal	Auto/Manual/Semi-automatic
Field of View (FOV)	H: 17°, V: 14°	H: 60.7° to 2.33°, V: 36.8° to 1.38°
IVS		
Al Multi-Target	Human / Vehicle / Ship detection	Human / Vehicle detection
Intelligent Analysis	Intrusion, Single Line Crossing, Double Line Crossing, Loitering, Wrong-Way Detection, Enter Area, Leave Area, Smart Motion Detection Support alarm triggering by specified target types (human and vehicle)	Intrusion, Single Line Crossing, Double Line Crossing, Loitering, Wrong-Way Detection, Enter Area, Leave Area, Smart Motion Detection Support alarm triggering by specified target types (human and vehicle)
Smoke and Flame Detection		Support
Smoking Detection	Support	
Fire Spot Detection	Support	
People Counting	Support	Support
Smart Tracking	Cold/hot spot tracking, human/vehicle/ship tracking	
Video and Audio		
Main Stream	1920×1080, 1280×1024, 1280×720, 640×512 @25fps	2688×1520, 2560×1440, 2304×1296, 1920×1080, 1280×720 @25/30fps
Sub Stream	D1, VGA, 640×512, CIF @25fps	D1, VGA @25/30fps
Bit Rate Control	CBR/VBR	CBR/VBR
Bit Rate	Main Stream: 100Kbps to 12Mbps, Sub Stream: 100Kbps to 6Mbps	Main Stream: 100Kbps to 16Mbps Sub Stream: 100Kbps to 6Mbps
Smart Encode	Support	Support
Audio Compression	G.711 A-law, G.711 μ-law, RAM PCM	G.711 A-law, G.711 μ-law, RAM PCM
Image		
Image Setting	Brightness, Contrast, Sharpness	Brightness, Saturation, Contrast, Sharpness
Mirror	Horizontal / Vertical / Horizontal+Vertical	Horizontal / Vertical / Horizontal+Vertical
Pseudo-color Setting	Up to 17 colors (White-hot / Black-hot / Rainbow / Iron red / HSV /Bone / Cool / Copper / Fire-hot / Pink / Spring / Summer / Autumn / Winter / Jet / Flame / Rose -Bengal)	
FFC Control	Auto / Manual	

Gain Control		Auto / Manual	
White Balance		Auto / Tungsten / Fluorescent / Daylight / Shadow	
Day/Night		Day mode / Night mode / Time	
Noise Reduction	2D/3D DNR 2D/3D DNR		
Image Enhancement	WDR, HLC, BLC		
Wide Dynamic Range		True WDR 120dB	
OSD	Up to 8 OSD	Up to 8 OSD	
Privacy Masking	Up to 4 areas	Up to 4 areas	
Illuminator		IR Range:	
Thermal Function		- Up to 300 m (984.25 ft)	
Temperature Range	-20°C to 150°C (-4°F to 302°F) or 0°C to 550°C (32°F	to 1022°F)	
Accuracy	±2°C/±2%	1010111	
Temperature Detection		ntal 1 full screen 19 others (snot areas line)	
	3 temperature measurement rule types, 20 rules in total, 1 full screen, 19 others (spot, areas, line). Display in the lower left corner; follow the cursor display of the highest temperature, lowest temperature or		
Temperature Display	average temperature	average temperature	
Image Fusion	Fusion view of thermal view and overlaid details of th	e optical channel	
Event	IVC Torroveture anomaly Mating detection Alarma	Innut Disk slave Natural slave Abrayes I saved	
Alarm Triggers	detection	IVS, Temperature anomaly, Motion detection, Alarm Input, Disk alarm, Network alarm, Abnormal sound detection	
Event Actions	Alarm out, Alarm record, SMTP, FTP upload, Audible	Alarm out, Alarm record, SMTP, FTP upload, Audible alarm output	
PTZ			
Pan/Tilt Range	Pan: 0° to 360° endless, Tilt: -10° to 90° (auto-flip)		
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)	Auto/Manual (0-8)	
Power Off Memory	Support	Support	
Idle Motion	The time can be set (1-240 minutes), and functions such as preset positions, patrols, scans, and tracks can be run.		
Network			
Protocols	IPv4/IPv6, HTTP/HTTPS, DNS, DDNS, DHCP, PPPOE, RT QoS, 802.1x, SNMP, Multicast	rsp/rtp/rtcp, tcp/udp, ntp, arp, upnp, ftp, smtp,	
Compatible Integration	ONVIF (Profile S/T/G/M), CGI, SDK		
Max Concurrent Streams	10 channels		
THAN CONTOUNT CITE OU CANTO	10 channels		
User/Host Level	10 channels 32+ users, 3 levels: Administrator, Operator, Media us	ser	

Web Viewer	<ie11, chrome,="" edge<="" firefox,="" microsoft="" th=""></ie11,>			
Cyber Security	"Network protocols IPv4, IPv6 USGv6, ICMPv4/ICMPv6, HTTP, HTTPS 2, TLS3, HTTP/ QoS Layer 3 / DiffServ, FTP, SFTP, CIFS/SMB, SMTP, mDNS (Bonjour), UPnP *, SNMP v1/v2c/v3 (MIB II), DNS/DNSv6, DDNS, NTP, PTP, NTS, RTSP, RTP, SRTP, TCP, UDP, IGMPv1/v2/v3, RTCP, ICMP, DHCPv4/v6, SSH, LLDP, CDP, MQTT v3.1.1, Secure syslog (RFC 3164/5424, UDP/TCP/TLS), Link-Local address (ZeroConf)"			
Mobile Communication	313 (73 12 1)	cear address (Ecrocom)		
SIM Card Type	MicroSIM			
Wireless Version Type	Europe, Southeast Asia, Africa, Middle East	North America, Canada	Latin America, Australia, New Zealand	
Frequency	LTE-FDD: B1/3/7/8/20/28A LTE-TDD: B38/40/41 WCDMA: B1/8	LTE-FDD: B2/4/5/12/13/14/66/71 WCDMA: B2/4/5	LTE-FDD: B1/2/3/4/5/7/8/28 LTE-TDD: B40 WCDMA: B1/2/4/5/8	
Standard	LTE-FDD/LTE-TDD/WCDMA	LTE-FDD/WCDMA	LTE-FDD/LTE-TDD/WCDMA	
Interface				
Network Interface	1 Ethernet (10/100 Base-T) RJ-45 C	Connector		
Audio Interface	1ch Audio In, 1ch Audio Out			
Alarm Interface	7ch Alarm In, 2ch Alarm Out			
RS-485	Support			
BNC Interface	1 (CVBS output for visible)			
SD Card Slot	Built-in, up to 1 TB			
General				
Language	English, Chinese, Traditional Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian, Japanese, Korean. Default: English			
Power Supply	24VAC/36VDC/PoE++ (802.3bt), Standard Equipped: 36VDC			
Power Consumption	Max 45 W			
Working Temperature and Humidity	-40°C to 60°C (-40°F to 140°F) Less than 90% RH			
Certifications	CE-EMC - EN 55032, EN IEC 61000-6-4, EN IEC 61000-3-2, EN 61000-3-3, EN 55035, EN 50130-4 CE-LVD - EN IEC 62368-1 FCC 47 CFR Part 15 Subpart B			
Ingress Protection	IP66			
Material	Metal			
Dimensions	ф240.18 × 363 mm (ф9.46 × 14.29 inch)			
Net Weight	6 kg (13.2 lb)			
Ordering Information				
Model	Description			
SN-TPS6457ELV-M25-ZSD40	Thermal Focal Length: 25mm Optical Focal Length: 6.27 to 251mm, 40x optical zoom			

Thermal DRI Range Table

Note: The table is only for reference and the performance may vary according to different environment.

Note: The optimal detection, recognition, and identification distances are calculated according to Johnson's Criteria.

Detection Range: In order to distinguish an object from the background, the object must be covered by 1.5 or more pixels.

Recognition Range: In order to classify the object (animal, human, vehicle, etc.), the object must be covered by 6 or more pixels.

Identification Range: In order to identify the object and describe it in details, the object must be covered by 12 or more pixels.

DRI Distance Table	
Focal Length	25 mm
Detection Distance (Human: 1.8×0.5m)	1,042 m (3,418.6 ft)
Detection Distance (Vehicle: 4×1.5m)	3,194 m (10,479 ft)
Recognition Distance (Human: 1.8×0.5m)	260 m (853 ft)
Recognition Distance (Vehicle: 4×1.5m)	799 m (2,621.4 ft)
Identification Distance (Humans: 1.8×0.5m)	130 m (426.5 ft)
Identification Range (Vehicles: 4×1.5m)	399 m (1,309 ft)

Thermal Smart Detection Range Table

Note: The table is for reference only. The distances within it are subject to actual conditions including atmospheric conditions, target size, the installation site, and more.

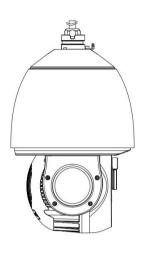
Detection Range Table	
Focal Length	25 mm
VCA Detection Distance (Human: 1.8 × 0.5 m)	205 m (672.6 ft)
VCA Detection Distance (Front/Rear of Vehicle: 4×1.5 m)	300 m (984.3 ft)
Temperature Measurement (Object: 1 × 1m)	417 m (1,368.1 ft)
Temperature Measurement (Object: 0.2 × 0.2m)	83 m (272.3 ft)
Fire Detection (Object: 1 × 1m)	1,042 m (3,418.6 ft)
Fire Detection (Object: 0.2 × 0.2m)	208 m (682.4 ft)

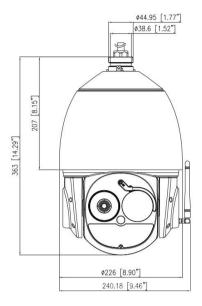
Visible DORI Range Table

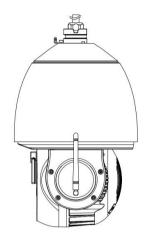
Note: DORI (Detect, Observe, Recognize, and Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.

DORI Distance	
Lens	6.27 to 251 mm
Detection	95 to 3,515 m (311.68 to 11,532.15 ft)
Observe	38 to 1,406 m (124.67 to 4,612.86 ft)
Recognize	19 to 703 m (62.34 to 2,306.43 ft)
Identify	9.5 to 351.5 m (31.17 to 1,153.22 ft)

Dimensions (mm)







Accessories

Optional:



SN-CBK506B Wall Bracket



SN-BK367 Junction Box



SN-BK348A Ceiling Bracket



SN-BK358 Corner Mount



SN-BK605 Corner Mount



SN-BK359 Pole Mount



SN-BK604B Pole Mount