

# SVEX-TH125B

Explosion Proof Fixed Thermal Camera



## Key Features:

- ATEX, IECEx Certified;
- Applicable for Gas Zone 1, Zone 2, Class II A, IIB, IIC, T1-T6 group, Dust Zone 21, 22.
- Certified for the latest standards IEC/EN60079
- Stainless steel 304 or 316L enclosure
- Surface optional electro-polished or painting
- Weather Proof IP66, IP68(2m/2h), IP69
- Wide voltage input: AC100-240V or AC/DC24V or PoE++
- Strong tempered glass, fit for hydrofluoric acid area
- Intelligent window defroster design
- Auto temperature adjust kit for aggressive area
- Fit for various brand cameras

## Specifications:

CERTIFICATE					
<b>Certificate Mark</b>	without optical fibre version: Ex II 2G Ex db II C T6 Gb / Ex II 2D Ex tb III C T80 °C Db				
<b>without optical fibre version:</b>					
<b>Certificate</b>	ATEX, IECEx				
<b>Standards</b>	IEC/EN60079				
MECHANICAL					
<b>Housing</b>	Stainless steel 304 or 316L				
<b>IP</b>	IP66, IP68 (2m/ 2h), IP69				
<b>Cable Thread Hole</b>	2pcs M25×1.5 (or M27*1.25)				
ELECTRICAL					
<b>Voltage Input</b>	AC100V□AC240V or AC24V or DC24V PoE++ (48 V d.c.) (IEEE 802.3bt)				
<b>Power</b>	25W/50W(with thermostat)				
<b>Surge protector</b>	Optional				
AMBIENT					
<b>Ambient temperature</b>	-40 to + 60°C				
<b>Air pressure</b>	80Kpa to 110Kpa				
<b>Relative Humidity</b>	≤ 95% (no condensation)				
COMMUNICATION					
<b>Communication</b>	RS485				
<b>485 Communication</b>	Pelco-D, Pelco-P				
<b>Communicate Rate</b>	2400 to 19200bps				
<b>485 Communication</b>	Support				
THERMAL CAMERA					
<b>Detector Type</b>	VOx Uncooled Focal Plane Arrays				
<b>Resolution</b>	Sensor is 640×512. Image can be scaled up to 1280×1024				
<b>Pixel Pitch</b>	12μm				
<b>Response Waveband</b>	8-14μm				
<b>Thermal Sensitivity (NETD)</b>	≤ 40 mK				
<b>Lens Type</b>	Fixed focal length				
<b>Focus Control</b>	Free focus				
<b>Focal Length</b>	9 mm	15 mm	25 mm	35 mm	50 mm
<b>F No.</b>	F1.0	F1.0	F1.0	F1.0	F1.0
<b>Field of View</b>	H:48°, V:38°	H:29°, V:23°	H:17°, V:14°	H: 12°, V:10°	H: 8°, V:7°
<b>Min. Focusing Distance</b>	1.73 m	3.79 m	13 m	25.49 m	52.3 m
<b>Detection Distance (Fire: 1m×1m)</b>	375 m	625 m	1042 m	1458 m	2083 m
<b>Detection Distance (Humans: 1.8×0.5m)</b>	375 m	624 m	1040 m	1456 m	2081 m
<b>Detection Distance (Vehicles: 4×1.5m)</b>	1150 m	1917 m	3194 m	4472 m	6389 m
<b>Recognition Distance (Humans: 1.8×0.5m)</b>	94 m	156 m	260 m	364 m	520 m
<b>Recognition Distance (Vehicles 4×1.5m)</b>	288 m	479 m	799 m	1118 m	1597 m

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VIDEO AND AUDIO	
<b>Main Stream</b>	1280×1024, 1280×720, 640×512 @ 25fps
<b>Sub Stream</b>	D1, CIF @ 25fps
<b>Bit Rate Control</b>	CBR/VBR
<b>Bit Rate</b>	Main stream: 100Kbps ~ 8Mbps Sub stream: 100Kbps ~ 6Mbps
<b>Region of Interest</b>	Off / On (8 Zone, Rectangle)
<b>Smart Encode</b>	Support
<b>Audio Compression</b>	G.711: 8kbps, RAW_PCM: 16kbps
IMAGE	
<b>Image Setting</b>	Brightness, Sharpness, Contrast
<b>Mirror</b>	Support
<b>Pseudo-color Setting</b>	White-hot/Black-hot/Rainbow/Ironbow etc. up to 17 modes
<b>DVE Image Enhance</b>	Support
<b>Noise Reduction</b>	2D/3D DNR
<b>Privacy Masking</b>	Support
SMART FUNCTION	
<b>Smart Alarm</b>	Motion detection, Disk alarm, I/O alarm, IVS alarm, Temperature detection & alarm
<b>Smart Detection</b>	Support human/vehicle detection, fire point detection, ship detection
<b>Smart Events</b>	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
TEMPERATURE DETECTION	
<b>Temperature Detection</b>	Support 3 temperature measurement rule types (Point, Line, Area)
<b>Temperature Alarm</b>	Over temperature alarm, Temperature difference alarm
<b>Accuracy</b>	±2°C / ±2%
<b>Response Time</b>	≤ 30ms
<b>Temperature Measurement Range</b>	-20°C ~ 150°C (-4°F ~ 302°F)
NETWORK	
<b>Protocols</b>	IPv4/IPv6, HTTP/RTSP/RTP/RTCP, TCP/UDP, DHCP, DNS, PPPOE, SMTP, 802.1x
<b>Interoperability</b>	ONVIF, CGI, SDK
<b>ONVIF</b>	ONVIF Profile S/G protocol
<b>Max. User Access</b>	10 Users
<b>Web Viewer</b>	<IE11, Chrome, Firefox, Microsoft Edge
<b>Web Language</b>	English, Chinese, Polish, Italian, Portuguese, Spanish, Russian, French, Czech, Hungarian
INTERFACE	
<b>Network Interface</b>	1 Ethernet (10/100 Base-T) RJ-45 Connector
<b>Audio Interface</b>	1ch Audio In, 1ch Audio Out
<b>Alarm Interface</b>	1ch Alarm In, 1ch Alarm Out
<b>Control Interface</b>	1ch RS485, 1ch RS232
<b>Reset Button</b>	Support
<b>SD Card Slot</b>	Built-in, up to 256GB
GENERAL	
<b>Weight</b>	8.6kg
<b>Dimensions</b>	464*166*171mm

## Dimensions

