

ES-1217T

2MP Thermal and Optical Network Turret Camera

EYESONIC™



Key Features

- 2 Megapixel (1920 x 1080) Resolution
- Duel Lens Module, Thermal and Optical
- Leading image processing technology: Adaptive AGC, DDE, 3D DNR, NETD less than 40 mk (@25°C, F#=1.1)
- Reliable temperature exception alarm function
- Advanced fire detection algorithm
- IP67
- Bi-spectrum image fusion
- Picture in picture preview

Model Number

ES-1217T

Thermal Module

Image Sensor	Vanadium Oxide Uncooled Focal Plane Arrays
Max Resolution	160 x 120
Pixel Interval	17µm
Response Waveband	8µm to 14µm
NETD	less than 40 mk (@25°C, F#=1.1)
Lens	1.8 mm
MRAD	9.44 mrad
Field View	90° x 66.4° (H x V)
Min. Focus Distance	0.1 m
Aperture	F1.1

Optical Camera

Image Sensor	1/2.7" Progressive Scan CMOS
Max. Image Resolution	1920 x 1080
Min. Illumination	Color: 0.002 lux @ (F1.2, AGC On) B/W : 0.0002 lux @ (F1.2, AGC On)
Focal Length	2.1 mm
Field of View	101.2° x 77° (H x V)
WDR	120dB
Shutter Speed	1 to 1/100,000s
Day & Night	IR Cut Filter with Auto Switch

Image Function

Bi-spectrum Image Fusion	Fusion view of thermal view and overlaid details of the optical channel
Picture in Picture	Combines details of thermal and optical image PIP, overlay thermal image on optical image

Network

Visible Light Main Stream	50Hz: 25fps (1920 x 1080, 1280 x 960, 1280 x 720) 60Hz: 30fps (1920 x 1080, 1280 x 960, 1280 x 720)
Thermal Main Stream	25fps (160 x 120 (the output image is 320 x 240))
Visible Light Sub Stream	50Hz: 25fps (704 x 576, 352 x 288, 176 x 144) 60Hz: 30fps (704 x 480, 352 x 240, 176 x 120)
Thermal Sub Stream	25fps (160 x 120 (the output image is 320 x 240))
Video Compression	H.265/H.264/MJPEG, H.265+, H.264+ encoding with Baseline/Main/High Profile
Audio Compression Protocols	G.711u/G.711a/G.722.1/MP2L2/G.726/PCM IPv4/IPv6, HTTP, HTTPS, 802.1x, Qos, FTP, SMTP, UPnP, SNMP, DNS, DDNS, NTP, RTSP, RTP, TCP, UDP, IGMP, ICMP, DHCP, PPPoE, Bonjour
Simultaneous live view	Up to 20-ch
User/Host Level	Up to 32 users, 3 levels: Administrator, Operator, User
Security Measures	User authentication (ID and PW), MAC address binding, HTTPS encryption, IEEE 802.1x access control, IP address filtering

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Smart Function

VCA	Supports 4 VCA rule types (Line Crossing, Intrusion, Region Entrance, and Region Exiting), 8 VCA rules
Temperature Measurement	Supports 3 temperature measurement rule types, 21 rules (10 points, 10 regions, and 1 line)
Temperature Range	-20 °C to 150 °C (-4 °C to 302 °F)
Temperature Accuracy	±8 °C (14.4 °F)
Fire Detection	Dynamic fire point detection, up to 10 fire points detectable.

Infrared

IR Distance	Up to 15 m
IR Intensity and Angle	Auto Adjust

Integration

Reset	1 Reset Button
Alarm Input	1-ch Input (0-5V DC)
Alarm Action	SD recording/Relay output/Smart capture/FTP upload/Email linkage
Alarm Output	1-ch relay outputs, alarm response actions configurable
Audio Input	1-ch 3.5mm Mic in/Line in interface. Line input: 2-2.4 V(p-p), output impedance:1KΩ±10% Linear Level; Impedance: 600Ω
Audio Output	Built-in Micro SD card slot, support Micro SD/SDHC/SDXC card (up to 256G), support manual/alarm recording
Onboard Storage	1 RJ45 10M/100M Self-adaptive Ethernet interface, 1 RS-485 interface
Ethernet	1.0V [p-p]/75Ω, PAL/NTSC/BNC
Analog Video Output	Open-ended API, support ISAPI; Support HIKVISION SDK and Third-party Management Platform
Application Programming	Guarding Expert
Client	IE9+, chrome31-chrome44, Firefox 30-Firefox51, Safari 5.02+(mac)
Web Browser	

General

Operating Conditions	-30 °C to +60 °C (-22 °F to +140 °F), humidity 95% or less (non-condensing)
Power Supply	12 VDC± 20%, two-core terminal block, PoE (802.3af, class 3)
Power Consumption	12 VDC ± 20%: 0.7 A, max. 8W, PoE (802.3af, class 3): 42.5 V to 57 V, 0.14 A to 0.22 A, max. 8.5W
Menu Language	English
Weather Proof	IP67 Standard, TVS 6000V Lightning protection, surge protection, voltage transient protection
Protection Level	Up to 30 m
Dimensions	134.2 mm × 123.9 mm × 107.7 mm (5.28" × 4.87" × 4.24")
Weight	800 g (1.76lb)

Smart Functions Range

Lens (focal length)	1.8mm
VCA range (Vehicles)	42m
VCA range (humans)	14m
Temperature measurement (Object:2*2m)	44m
Temperature measurement (Object:1*1 m)	22m
Fire Detection (Object:2x 2 m)	108m
Fire Detection (Object:1x 1 m)	54m

Wide Range Coverage

Detection range (Vehicles)	162m
Detection range (Humans)	53m
Recognition range (Vehicles)	41m
Recognition range (Humans)	13m
Identification range (Vehicles)	20m
Identification range (Humans)	7m

