HIKVISION®

DS-2TD1217B-3/PA[1]
Thermographic Turret Camera

DeepinViewseries

- 160 x 120 Thermal Resolution (Upscaled to 320 x 240)

- Accuracy at 2.62 ft to 4.92 ft (0.8 m to 1.5 m):
  ±0.5° F (±0.3° C) with Blackbody
  ±0.9° F (±0.5° C) without Blackbody

- Reliable Temperature Exception Alarm Function

- 3D DNR, Image Detail Enhancement

- Strobe Light and Voice Alarm

Hikvision DS-2TD1217B-3/PA Thermographic Turret Cameras are equipped with highly sensitive thermal and optical sensors and a graphical processing unit to run the video content analysis (VCA) algorithms developed by Hikvision's deep learning technology.

The sensor's 160 x 120 resolution is upscaled to 320 x 240 and features adaptive AGC (Automatic Gain Control), 3D DNR (Digital Noise Reduction), and Digital Detail Enhancement for outstanding image enhancement. The 4 MP optical sensor provides outstanding color video in very dim environments down to 0.0089 lux, and built-in IR illumination allows black and white optical surveillance in zero-light conditions up to 49 ft (15 m).

This camera series is able to measure an object's temperature at a high accuracy in real time. It is suitable for use in areas that require greater security measures such as airports.

Available Models:
DS-2TD1217B-3/PA: 3.1 mm thermal/4 mm optical lens

Specifications

DS-2TD1217B-3/PA	
Thermal Module	
Image Sensor	Vanadium oxide uncooled focal plane arrays
Maximum Resolution	160 × 120 (output image resolution is 320 × 240)
Pixel Interval	17 µm
Response Waveband	8 µm to 14 µm
NETD	Less than 40 mK (25° C), F# = 1.1
Lens (Focal Length)	3.1 mm
IFOV	5.48 mrad
Field of View	50° × 37.2° (H x V)
Minimum Focusing Distance	0.2 m
Aperture	ƒ/1.1
Temperature Measurement	4 temperature measurement rule types, 21 rules (up to 30 faces *or* 10 points, 10 areas, and 1 line)
Temperature Accuracy — w/DS-2TE127-G4A Blackbody	±0.5° F (±0.3° C) at 2.62 feet to 4.92 feet (0.8 m to 1.5 m)
Temperature Accuracy — w/o DS-2TE127-G4A Blackbody	±0.9° F (±0.5° C) at 2.62 feet to 4.92 feet (0.8 m to 1.5 m)
Optical Module	
Maximum Image Resolution	2688 × 1520
Image Sensor	1/2.7" progressive scan CMOS
Minimum Illumination	Color: 0.0089 lux @ (ƒ/1.6, AGC on), B/W: 0.0018 lux @ (ƒ/1.6, AGC on)
Shutter Speed	1s to 1/100,000s
Lens (Focal Length)	4 mm
Field of View	84° × 44.8° (H × V)
WDR	120 dB
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
Smart Features	
Voice Alarm	Camera plays pre-recorded messages upon temperature and mask alarms using its built-in speaker
Infrared	
IR Distance	Up to 49 ft (15 m)
IR Intensity and Angle	Automatically adjusted
Network	
Main Stream	Visible Light: 30 fps (2688 × 1520), 30 fps (1920 × 1080), 30 fps (1280 × 720) Thermal: 25 fps (1280 × 720, 704 × 576, 640 × 480, 352 × 288, 320 × 240)
Sub-Stream	Visible Light: 30 fps (704 × 480), 30 fps (352 × 240), 30 fps (176 × 120) Thermal: 25 fps (704 × 576, 352 × 288, 320 × 240)
Video Compression	H.265/H.264/MJPEG
Audio Compression	G.711u/G.711a/G.722.1/MP2L2/G.726/PCM
Protocols	TCP/IP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, SNMP, IGMP, 802.1x, QoS, IPv6, UDP, Bonjour
Simultaneous Live View	Up to 20
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
Integration	
Alarm Input	1-ch inputs (0–5 VDC)
Alarm Output	1-ch relay outputs, alarm response actions configurable
Alarm Action	SD recording/relay output/smart capture/FTP upload/e-mail linkage/audio alarm/strobe light alarm
Audio Input	1 x 3.5 mm mic in/line in interface. Line input: 2–2.4 V [p-p], output impedance: 1K Ω ±10%
Audio Output	Linear level; impedance: 600 Ω
Reset	1 x reset button
Communication Interface	1 x RJ-45 10M/100M self-adaptive Ethernet interface, 1 x RS-485 interface
SD Memory Card	Built-in microSD card slot, supporting microSD/SDHC/SDXC card (up to 256 GB), supports manual/alarm recording
Application Programming	Open-ended API, supporting ISAPI, HIKVISION SDK, and third-party management platform
Client	iVMS-4200, Hik-Connect
Web Browser	IE9+, chrome31—44, Firefox 30—51, Safari 5.02+ (mac)
General	
Menu Language	32 languages: English, Russian, Estonian, Bulgarian, Hungarian, Greek, German, Italian, Czech, Slovak, French, Polish, Dutch, Portuguese, Spanish, Romanian, Danish, Swedish, Norwegian, Finnish, Croatian, Slovenian, Serbian, Turkish, Korean, Traditional Chinese, Thai, Vietnamese, Japanese, Latvian, Lithuanian, Portuguese (Brazil)
Power	12 VDC ±20%, Ø5.5 mm coaxial power plug PoE (802.3af, class 3)
Power Consumption	12 VDC ±20%: 0.5 A, maximum 6 W PoE (802.3af, class 3): 42.5 V to 57 V, 0.14 A to 0.22 A, maximum 6.5 W
Working Temperature/Humidity	50° to 95° F (10° to 35° C) (indoor and windless environment use only)/humidity 95% or less (non-condensing)
Protection Level	IP66 standard, TVS 6000V lightning protection, surge protection, voltage transient protection
Dimension	5.45" × 5.45" × 4.85" (138.3 mm × 138.3 mm × 123.1 mm)
Weight	2.07 lb (940 g)

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Dimensions

138.3 mm (5.45")

123.1 mm (4.85")

138.3 mm (5.45")
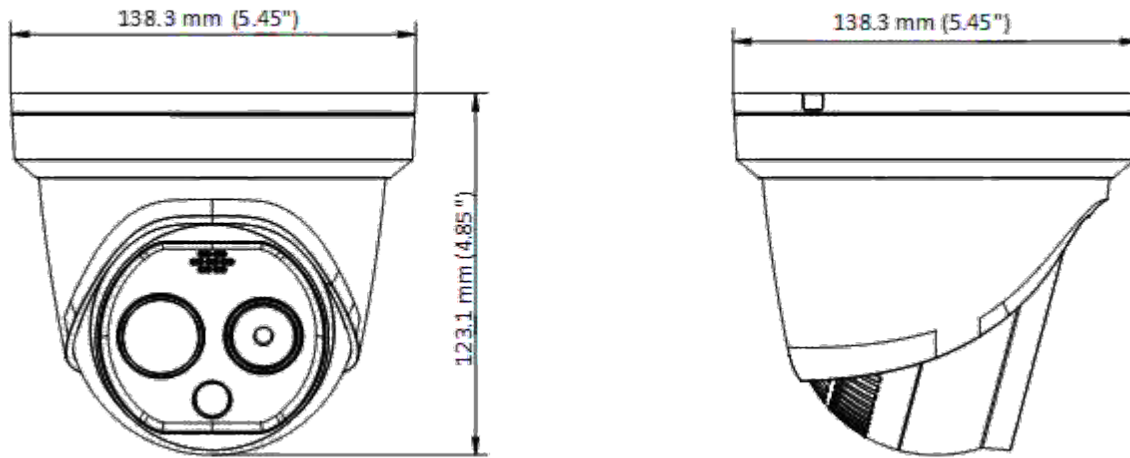
Accessories

NOT INCLUDED							
PC140 140 mm Pendant Cap	WML Long Wall Mount w/Back Box	PM Pole Mount	CM Corner Mount	CB135 Conduit Base	CPM Ceiling Pendant Mount	DS-2908ZJ Turret Tripod Adapter	DS-2907ZJ Tripod
Requires WML	Requires PC140	Requires WML			Requires PC140		Requires DS-2908ZJ

NOT INCLUDED					
PM1 Pole Mount	CM1 Corner Mount	DS-2TE127-G4A Blackbody Calibration Source	DS-2922ZJ Floor Mount	DS-2921ZJ-M Pendent Mount	DS-2921ZJ-S Pendent Mount
Requires CB135			Requires DS-2908ZJ		

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