

### DS-2TD2617-x/V1 Series

#### Thermal-Optical DeepinView Network Bullet Camera





- 160 x 120 Resolution (Upscaled to 320 x 240)
- Vanadium Oxide Uncooled Focal Plane Arrays
- NETD < 40 mK</li>
- 3.1 mm, or 6.2 mm Thermal Lens Options
- Adaptive AGC, 3D DNR
- Digital Detail Enhancement
- Smart Features:
- Line Crossing, Intrusion, Region Entrance/Exit with Human and Vehicle Filtering
- Temperature Exception
- Early Warning Fire Prevention
- Advanced Fire Detection
- Cigarette Smoking Detection
- Temperature Range: -4° to 302° F (-20° to 150° C)
- Temperature Accuracy: ±14° F (8° C)
- 15 Pseudo Color Palettes Available
- IP66 Protection
- PoE (802.3af), 12 VDC, Maximum 8 W

The Hikvision DS-2TD2617-x/V1 Thermal-Optical DeepinView Network Bullet 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.

Hikvision's HikMicro factory manufactures the vanadium oxide uncooled focal plane array thermal sensor with best in class image quality and price. 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 2 MP optical sensor provides outstanding color video in very dim environments down to 0.002 lux, and a built-in IR illumination allows black and white optical surveillance in zero-light conditions up to 130 ft (40 m).

This camera series is an excellent solution for short-range outdoor and indoor perimeter detection, fire prevention, predictive maintenance, human smoking detection and other applications. The total cost of ownership for this innovative camera system comes at an unprecedented, low level, due to affordable installation cost and ultra-low thermal-optical camera cost, which is competitive with purely optical cameras.

#### Available Models:

DS-2TD2617-3/V1 (3.1 mm lens) DS-2TD2617-6/V1 (6.2 mm lens)





















# **Specifications**

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	DS-2TD2617-3/V1	DS-2TD2617-6/V1			
Thermal Module	20 2.32027 0,12	50 2:52527 07.2			
Image sensor	Vanadium oxide uncooled focal plane arrays				
Maximum Resolution	160 x 120 (output image resolution is 320 x 240)				
Detector Pitch	17 μm				
Response waveband	8 μm to 14 μm				
NETD	<40 mK (@ 25° C, F#=1.0)				
Lens (focal length)	3.1 mm	6.2 mm			
IFOV	5.48 mRad	2.74 mRad			
Field of View	50° x 37.2°	25° x 18.7°			
Minimum Focusing Distance	0.2 m	0.6 m			
Aperture	f/1.1				
Optical Module	1000 1000				
Maximum Image Resolution	1920 x 1080				
Image Sensor	1/2.8" Progressive Scan CMOS	0 (6/1 5 400 )			
Minimum Illumination	Color: 0.002 lux @ (f/1.5, AGC on), B/W: 0.0002 lux	x @ (f/1.5, AGC on)			
Shutter Speed	ls to 1/100,000s				
Lens (Focal Length)	4 mm	6 mm			
Field of View	87° x 46.2°	53° x 30°			
WDR	Digital WDR				
Day/Night	IR cut filter with auto switch				
Image Function	Fusion view of thermal view and overlaid details o	f the entired shapped			
Bi-Spectrum Image Fusion					
Picture in Picture Smart Function	Combines details of thermal and optical image Pif	z, overtay, and thermat image on optical image			
VCA	Supports /LVCA rule types (line crossing intrusion	n, region entrance, and region exiting), 8 VCA rules			
Temperature Measurement	Supports 3 temperature measurement rule types,				
Temperature Range	-4° to 302° F (-20° to 150° C)	21 Tutes (10 points, 10 regions, and 1 time)			
Temperature Accuracy	±8° C (14.4° F)				
Fire Detection	Dynamic fire point detection, up to 10 fire points of	detectable			
Infrared	Bynamic me point detection, up to 10 me points t	3000000			
IR Distance	130 ft (40 m)				
IR Intensity and Angle	Automatically adjusted				
Network					
Main Stream	Visible light: 30 fps (1920 × 1080), 30 fps (1280 × 960), 30 fps (1280 × 720), Thermal: 25 fps (160 × 120 (the resolution of output image is 320 × 240))				
Sub-Stream	Visible light: 30 fps (1920 $\times$ 1080), 30 fps (1280 $\times$ 960), 30 fps (1280 $\times$ 720), Thermal: 25 fps (160 $\times$ 120 (the resolution of output image is 320 $\times$ 240))				
Video Compression	H.265/H.264/MJPEG, H.265+/H.264+ encoding with baseline/main/high profile				
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-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				
Integration					
Alarm Input	2-ch inputs (0 to 5 VDC)				
Alarm Output	2-ch relay outputs, alarm response actions configurable				
Alarm Action	SD recording/relay output/smart capture/FTP upload/email linkage				
Audio Input	1-ch 3.5 mm microphone /line in interface. Line input: 2 to 2.4 V[p-p], output impedance:1k Ω ±10%				
Audio Output	Linear level; impedance: 600 D				
Reset	One reset button				
Communication Interface	1-port RJ-45 10M/100M Self-adaptive Ethernet interface, 1 RS-485 interface				
Onboard Storage	Built-in microSD/SDHC/SDXC card slot, up to 256 GB; supports manual/alarm recording				
API	Open-ended API, supports ISAPI; supports HIKVISION SDK and third-party management platforms				
Client	iVMS-4200				
Web Browser	IE 9+, Chrome 31 to 44, Firefox 30 to 51, Safari 5.02+				
General Menu	English				
Power	English 12 VDC ± 20%, PoE (802.3at, class 4)				
Power Consumption	12 VDC ± 20%, PDE (802.3at, class 4)  12 VDC ± 20%: maximum 12 W, PDE (802.3af, class 4)				
Work Temperature/Humidity	From -40° to 140° F (-40° to 60° C), 90% or less				
Protection Level	IP66 standard; TVS 6000V lightning protection, surge protection, and voltage transient protection				
Dimensions	13.9" x 4.5" x 4.5" [352.4 mm x 113.5 mm x 114.7 mm]				
Weight	3.3 lbs (1.5 kg)				
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# Range Performance<sup>1</sup>

Standard Range	Model					
Table	DS-2TD2617-3/V1		DS-2TD2617-6/V1			
Johnson Criteria	Human	Vehicle	Human	Vehicle		
Detection	298 ft	919 ft	597 ft	1834 ft		
	(91 m)	(280 m)	(182 m)	(559 m)		
Recognition	75 ft	230 ft	151 ft	459 ft		
	(23 m)	(70 m)	(46 m)	(140 m)		
Identification	36 ft	114 ft	75 ft	230 ft		
	(11 m)	(35 m)	(23 m)	(70 m)		

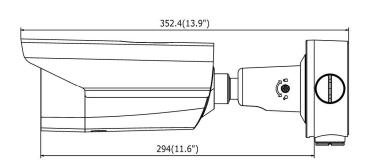
Smart Functions Range Table Model		
	Smart Functions Range Table	

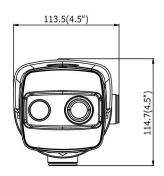
 $<sup>^{\,1}\,</sup>$  Range performance values are calculated under ideal conditions and are not a guarantee of performance.



Line Cross/Intrusion/Region Entrance-Exit	Object	DS-2TD2617-3/V1	DS-2TD2617-6/V1
Optimized to Johnson Criteria	Human	69 ft (21 m)	138 ft (42 m)
(Recognition)	Vehicle	207 ft (63 m)	413 ft (126 m)
Temperature Exception	Size of Point	Max Range	Max Range
Accuracy at 5 x 5 pixels	2 m x 2 m	217 ft (66 m)	434 ft (132 m)
	1 m x 1 m	108 ft (33 m)	217 ft (66 m)
Advanced Fire Detection	Size of Point	Max Range	Max Range
Accuracy at 2 x 2 pixels	2 m x 2 m	591 ft (180 m)	1181 ft (360 m)
	1 m x 1 m	295 ft (90 m)	591 ft (180 m)

# **Dimensions**





Units: mm (inch)

#### **Accessories**

