







TNM-C2722TDR

Early Fire Detection Bi-spectrum Thermal Camera











Key Features

- Bi-spectrum Multi-Channel: QQVGA Thermal & 3MP Visible Sensor
- Max. Framerate: Visiable 30fps, Thermal 8fps
- Angular Field of View : Thermal H: 57° / V: 44° / D: 71° &

Visible H: 69° / V: 50.8° / D: 88.9°

- Early fire detection (Analytics events based on AI engine)
- Temperature detect range (-10°C~450°C)
- ,Temperature difference detection
- IP66/IP67, IK09 (except lenses in front)
- PoE: Max 10.8W, typical 6.2W



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Specifications

Video		Ch 1	Ch 2
Imaging Device	Size	1/2.8"	
	Туре	CMOS	Uncooled micro bolometer (160x120)
Resolution		2048x1536, 1920x1080, 1280x960, 1280x720, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240	640x480, 320x240
Max. Framerate	H.265/H.264	30fps/25fps(60Hz/50Hz)	8fps
	MJPEG	5fps	5fps
Spectral Range			8~14μm
NETD			≤50mK
Pixel Size			12µm
Min. Illumination (Lux)	Color(1/30sec, 30IRE)	0.06	
	BW(1/30sec, 30IRE)	0.06	
Lens			
Focal Length (mm)		4.46	1.9
Max Aperture Ratio (F number)	Wide	F1.65	F1.1
Angular Field of View	Horizontal	69	57
	Vertical	50.8	44
	Diagonal	88.9	71
Min. Object Distance		1.9m(6.2ft)	0.3m(0.98ft)
Focus Control		Fixed	Fixed
Pan / Tilt / Rotate			
Pan / Tilt / Rotate Range	Pan	0°~360°	
	Tilt	0°~70°	
	Rotate	0°~360°	
Operational			
Day & Night		Auto(Electrical)	
Backlight Compensation		BLC, WDR, SSDR	

Design and specifications are subject to change without notice. The latest product information / specification can be found at HanwhaVision.com Hanwha Vision is formerly known as Hanwha Techwin.



Operational				
Wide Dynamic Range (dB)		120		
Digital Noise Reduction		SSNRV		
Motion Detection	Quantity	8ea	8ea	
	Shape	8point Polygonal zones	8point Polygonal zones	
Privacy Masking	Quantity	6ea	6ea	
	Shape	Rectangular zones	Rectangular zones	
	Color / Option	Gray, Black, White	Gray, Black, White	
Gain Control		Low, Middle, High		
White Balance		ATW, AWC, Manual, Indoor, Outdoor		
LDC		Support		
Electronic Shutter	Mode	Minimum, Maximum, Anti flicker		
	Speed Range	1/5~1/12,000sec		
/ideo Rotation		Flip, Mirror	Flip, Mirror	
Alarm Interface	In/Out	Input 1ea, Output 1ea		
Alarm Triggers		Analytics, Network disconnect, Alarm input, MQTT subscription		
Alarm Events When Alarm Trigger Occurred		File upload(image): e-mail/FTP, Notification: e-mail, Recording: SD/SDHC/SDXC or NAS recording at event triggers,Alarm output, Handover: PTZ preset,send message by HTTP/HTTPS/TCP,Audio clip playback, MQTT: publication,Light alarm		
Audio In		Selectable(mic in/line in)		
Audio Out		Line out		
Color Pallettes			Whitehot, Sepia, Red, Custom	
Radiometry				
Temperature Detect Range	e		-10°C~450°C	
Temperature Accuracy			Greater of ±10°C or 10%	
Temperature Detection	Quantity		2ea	
ROI Zones	Shape / Option		Rectangle	
Spot Temperature Reading	g		Support	
ROI Condition Monitoring			Above, Below, Increase, Decrease	
Security				
OS / Firmware Protect		Encrypted firmware, Secure boot, Signed fir	Encrypted firmware, Secure boot, Signed firmware	
OS / Firmware Protect			Digest authentication, Prevent brute-force attack	
OS / Firmware Protect User authentication		Digest authentication, Prevent brute-force	attack	
		Digest authentication, Prevent brute-force		

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Security				
Access Control		IP-based access control		
Data Protect		Encryption credentials		
Audit		Access / System / Event Log management		
Device ID		Device certificate(Hanwha Vision Root CA)		
Secure Storage		SDcard partition encrypt(AES-256)		
General				
Memory	RAM	2GB		
	Flash	512MB		
Edge Storage	Micro SD/SDHC/SDXC	Max. 512GB x 1slot		
Environmental & El	lectrical			
Operating Condition	Temperature	-30°C~+55°C(-22°F~+131°F)		
	Humidity	0~95% RH(non-condensing)		
	Others	Start up should be done at above -10°C		
Storage Condition	Temperature	-40°C~+60°C(-40°F~+140°F)		
	Humidity	0~95% RH(non-condensing)		
Input Voltage		PoE(IEEE802.3af, Class3)		
Power Consumption	РоЕ	Max 10.8W, typical 6.2W		
Mechanical				
Color		White		
Material		Aluminum		
RAL Code		RAL9003		
Product Dimensions		Ø110x97mm(ø4.33x3.82")		
Product Weight		650g(1.43lb)		
Compatible Gang Box		Single		
Certifications & Sta	ndards			
EMC		FCC 47 CFR 15 Subpart B Class A, ICES-3(A)/NMB-3(A), CE/UKCA - EN55032 Class A, EN 50130-4, EN 61000-3-2, EN 61000-3-3, VCCI CISPR 32 Class A, RCM AS-NZS CISPR 32 Class A, KS C 9832 Class A, KS C 9835		
Safety		UL 62368-1, CAN/CSA C22.2 NO. 62368-1, IEC 62471		
Environment		IEC/EN 63000, IEC 60529 IP66, IEC 60529 IP67, IEC 62262 IK09		
DORI (EN62676-4 s	standard)			
Detect (25PPM/ 8PPF)	Wide	70.9m(232.6ft)		
Observe (63PPM/ 19PPF)	Wide	28.4m(93.1ft)		
Recognize (125PPM/ 38PPF)	Wide	14.2m(46.5ft)		

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DORI (EN62676-4 standard)						
Identify (250PPM/ 76PPF)	Wide	7.1m(23.2ft)				
Thermal Detection Range						
Temperature Detection			15m(49.21ft)			
Early Fire Detection			15m(49.21ft)			



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CAD Unit: mm [inch]

