

DH-TPC-BF2120

Thermal Network Mini Hybrid Bullet Camera



- · 160x120 VOx uncooled thermal sensor technology
- · Athermalized Lens (thermal camera), Focus-free
- · 1/2.8" 2Megapixel progressive scan Sony CMOS
- · Support ROI, Motion Detection, Color Palettes
- · Support Fire detection & alarm
- · Built-in 2/1 alarm in/out
- · Micro SD memory, IP67













System Overview

Featuring a dual lens, fixed bullet camera, this series provides an all-in-one solution for capturing video surveillance for indoor and outdoor applications. Together with Thermal and Visible Technology, the camera is the perfect solution for dark, small area monitoring applications. The series combines one thermal camera for monitoring in total darkness and one visible camera with Smart IR for confirming details.

Functions

Uncooled Vox Technology

Dahua thermal cameras use uncooled Vox sensor technology . Because of small size and better performance, it's cost-effective solution for thermal security.

High Sensitivity

High thermal sensitivity(<50mK) makes cameras capture more image details and temperature difference information.

Fire Detection & Alarm

With built-in Fire detect function, the camera has the ability to detect fire in a long distance. because thermal camera is sensitive to temperature, so the accuracy of fire detection will be higher than visible camera.

Intelligent Video System (IVS)

With built-in intelligent video analytics, the camera has the ability to detect and analyze moving objects for improved video surveillance. The camera provides optional standard intelligence at the edge allowing detection of multiple object behaviors such as abandoned or missing objects. IVS also supports Tripwire analytics, allowing the camera to detect when a pre-determined line has been crossed.

Environmental

With a temperature range of-30 °C to +55 °C (-22 °F to +131 °F), the camera is designed for extreme temperature environments. Subjected and certified to rigorous dust and water immersion tests, the IP67 rating makes it suitable for demanding outdoor applications.

Protection

Supporting $\pm 15\%$ input voltage tolerance, this camera suits even the most unstable conditions for outdoor applications. Its 6KV lightning rating provides protectection against the camera and its structure from the effects of lightning.





Technical Specification		Video	
Thermal Camera		Compression	H.264/MJPEG
Image Sensor Effective Pixels	Uncooled VOx Microbolometer 160(H)x120(V)	Frame Rate Sub S Theri	Main Stream: Thermal: 1280*960 (default)/720P@1~25/30fps Visible: 1080P (default)/720P@1~25/30fps
Pixel Size Thermal Sensitivity (NETD)	12um <50mK@f/1.1		Sub Stream: Thermal: 640*480 (default)/ 320*240@1~25/30fp
Spectral Range	 7∼14um	Bit Rate Control	Visible: CIF(default)/D1@1~25/30fps CBR/VBR
Image Setting	Brightness/Sharpness/ROI/AGC/FFC/3D DNR	Bit Rate	H.264: 640 ~ 8192Kbps
illage Setting	14(Whitehot/Blackhot/Ironrow/Icefire/		
Color Palettes	Fusion/Rainbow/Globow/Iconbow1/ Iconbow2 .etc)	Day/Night	Auto(ICR)/Color/B/W
Thermal Lens		BLC Mode	BLC/HLC/WDR
	5. 1	White Balance	Auto, Manual
Lens Type	Fixed	Noise Reduction	Ultral DNR
Focus Control	Athermalized, Focus-free	Motion Detetion	Off/On (4 zone, Rectangle)
Focal Length	1mm	Region of Interest	Off/On (4 zone)
Effective Distance ① Man(1.8m*0.5m)	D(2): 60m R(3): 20m I(4): 10m	Electronic Image Stabilization (EIS)	NA
Effective Distance	D: 200m	Defog	Off/On
Vehicle(2.3m*2.3m)	R: 60m I: 30m	Flip	180°
Angle of View	H: 56° V: 44°	Mirror	Off/On
		Privacy Masking	Off/On (4 area, Rectangle)
Visible Camera		Audio	
Image Sensor	1/2.8" 2M CMOS	Compression	G.711a/G.711Mu/AAC
Effective Pixels	1944(H)x1092(V)	Intelligence	
Electronic Shutter Speed	1/1~1/30,000s		
Min. Illumination	Color: 0.005Lux@F1.8; B/W: 0.0005Lux@F1.8; 0Lux (IR on)	IVS	Tripwire, Intrusion, Object Abandon/Missing
IR Distance	35m	Advanced Intelligent Functions	Fire detection & alarm, Image Fusion
IR On/Off Control	Auto/Manual	Network	
IR LEDs	1	Ethernet	RJ-45 (10/100Base-T)
Visible Lens		Ethernet	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP,
Focal Length	4mm	Protocol	ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x
Max Aperture	F2.1	Interoperability	ONVIF Profile S & G, PSIA, CGI
Angle of View	H: 86.2° V: 45.9°	Streaming Method	Unicast/Multicast
		Max. User Access	10 Users/20 Users
		Edge Storage	micro SD (128GB) Memory status display (Normal/Error/Active/Formatting/Lock), NAS (Network Attached Storage), Local PC for instant recording
		Web Viewer	<ie11, <chrome45,="" <firefox52<="" td=""></ie11,>
		Management Software	Smart PSS, DSS

Smart Phone

Android, IOS



Certifications

Certification	CE (EN 60950:2000) FCC (FCC Part 15 SubpartB)
Interface	
Video Interface	1.0Vp-p/75 Ω , PAL/NTSC (HDCVI Optional)
Audio Interface	In/Out 1/1
RS485	Support
Alarm	2/1 In/Out

Electrical

Power Supply	DC 12V/PoE
Power Consumption	12W (IR on), 9W(IR off)

Environmental

Operating Condition	-30°C \sim +55°C (-22°F \sim +131°F)/Less than 95% RH * Start up should be done at above-30°C (-22°F)
Strorage Conditions	-40°C ~ +70°C (-40°F ~ +158°F)/Less than 95% RH
Ingress Protection	IP67

Construction

Casing	Metal
Dimensions	238.6mm × 90.4mm× 90.4mm (9.39" x 3.56" x 3.56") (With bracket)
Weight	< 1Kg

1 Effective distance values shown are nominal values and should be used as estimates (2) D: Detection Distance

(3) R: Recognition Distance

(4) I: Identification Distance

Ordering Information			
Туре	Part Number	Description	
DH-TPC-BF2120	DH-TPC-BF2120P-1F4 DH-TPC-BF2120N-1F4	Thermal: 160x120 1mm lens Visible: 2MP 4mm lens	

Accessories

Optional:





Mounting Type

Junction Mount	Pole Mount
PFA122	PFA122+PFA152-E

Dimensions (mm)



