dahua TECHNOLOGY

DH-TPC-BF5300

Thermal Network Bullet Camera

- 336x256 VOx uncooled thermal sensor technology
- Athermalized Lens (thermal), Focus-free
- Support Fire detection & alarm
- Various lens optional (7.5/13/19/25/35mm)
- 2/1 alarm in/out
- Micro SD memory, IP67, PoE

| Pro Series | 40mK | Fire Detection | Analysis | PoE | IP67 |

System Overview

Featuring a fixed lens bullet camera, this series provides an all-in-one solution that is especially beneficial for long distance video surveillance in outdoor applications. Together with Thermal technology, the camera's long range capabilities are able to be utilized even at night.

Functions

Uncooled Vox Technology

Dahua thermal cameras use uncooled Vox sensor technology. Their small size and better performance make them a cost-effective solution for thermal security.

High Sensitivity

High thermal sensitivity (<40mK) allows cameras to capture more image details and temperature difference information.

Fire Detection & Alarm

With built-in fire detection functionality, the camera has the ability to detect fires from long range. Because thermal cameras are sensitive to temperature, they provide higher fire detection accuracy than standard cameras, making them particularly fit for applications such as forest fire prevention.

Intelligent Video System (IVS)

IVS is a built-in video analytics algorithm that delivers intelligent functions to monitor a scene for tripwire violations, intrusion detection, and abandoned or missing objects. A camera with IVS quickly and accurately responds to monitoring events in a specific area.

Environmental

With a temperature range of -40 °C to +60 °C (-40 °F to +140 °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

The camera allows for ±15% input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning.

Onvif PSIA

Technical Specification

Thermal Camera

Image Sensor	Uncooled VOx Microbolometer
Effective Pixels	336(H)x256(V)
Pixel Size	17um
Thermal Sensitivity(NETD)	<40mK@f/1.0
Spectral Range	7~14um
Image Setting	Brightness/Sharpness/ROI/AGC/FFC/3D DNR
Color Palettes	14(Whitehot/Blackhot/Ironrow/Icefire/ Fusion/Rainbow/Globow/Iconbow1/ Iconbow2 .etc)

Thermal Lens

Lens Type	Fixed				
Focus Control	Athermalized, Focus-free				
Focal Length	7.5mm	13mm	19mm	25mm	35mm
Angle of View	H: 45° V: 35°	H: 25° V: 19°	H: 17° V: 13°	H: 13° V: 10°	H: 9.3° V: 7.1°
Effective Distance① Man(1.8m*0.5m)	D②: 240m R③: 60m I④: 30m	D: 450m R: 110m I: 60m	D: 640m R: 160m I: 80m	D: 1000m R: 250m I: 125m	D: 1300m R: 320m I: 160m
Effective Distance Vehicle(2.3m*2.3m)	D: 720m R: 180m I: 90m	D: 1300m R: 350m I: 180m	D: 2000m R: 500m I: 250m	D: 3000m R: 720m I: 360m	D: 4000m R: 1000m I: 500m

Video

Compression	H.264/MJPEG
Frame Rate	Main Stream: 1280*1024 (default)/720P @1 ~ 25/30fps
	Sub Stream: 640*512 (default)/320*256 @1 ~ 25/30fps
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 640 ~ 8192Kbps
Motion Detetion	Off/On (4 zone, Rectangle)
Region of Interest	Off/On (4 zone)
Electronic Image Stabilization (EIS)	NA
Digital Zoom	16x
Flip	180°
Mirror	Off/On
Privacy Masking	Off/On (4 area, Rectangle)

Audio

Compression	G.711a/G.711Mu/AAC

Intelligence

IVS	Tripwire, Intrusion, Object Abandon/Missing
Advanced Intelligent Functions	Fire detection & alarm

Network

Ethernet	RJ-45 (10/100Base-T)
Protocol	IPv4/IPv6, HTTP, HTTPS, SSL, TCP/IP, UDP, UPnP, ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, DNS, PPPOE, DDNS, FTP, IP Filter, QoS, Bonjour, 802.1x
Interoperability	ONVIF Profile S & G, PSIA, CGI
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
Management Software	SmartPSS, DSS
Smart Phone	Android, Ios

Certifications

Certification	CE (EN 60950: 2000) FCC (FCC Part 15 SubpartB)

Interface

Video Interface	1.0Vp-p/75Ω, PAL/NTSC (HDCVI Optional)
Audio Interface	1 Input
RS485	NA
Alarm	2/1 In/Out

Electrical

Power Supply	AC 24V/DC 12V/PoE
Power Consumption	Max. 7W

Environmental

Operating Condition	-40°C ~ +60°C (-40°F ~ +140°F)/Less than 95% RH * Start up should be done at above-40°C (-40°F)
Strorage Conditions	-40°C ~ +70°C (-40°F ~ +158°F)/Less than 95% RH
Ingress Protection	IP67

Construction

Casing	Metal
Dimensions	291mm× 103mm× 97mm (11.46" x 4.06" x 3.82")
Net Weight	1.37Kg (3.02 lb)
Gross Weight	1.7Kg (3.75 lb)

Note:
①Effective distance values shown are nominal values and should be used as estimates only. Exact value calculations depend on a wide variety of conditions.
②D: Detection Distance
③R: Recognition Distance
④I: Identification Distance

Ordering Information

Type	Part Number	Description
DH-TPC-BF5300	DH-TPC-BF5300P-A7 DH-TPC-BF5300N-A7	Thermal: 336x256 7.5mm lens
	DH-TPC-BF5300P-A13 DH-TPC-BF5300N-A13	Thermal: 336x256 13mm lens
	DH-TPC-BF5300P-A19 DH-TPC-BF5300N-A19	Thermal: 336x256 19mm lens
	DH-TPC-BF5300P-A25 DH-TPC-BF5300N-A25	Thermal: 336x256 25mm lens
	DH-TPC-BF5300P-A35 DH-TPC-BF5300N-A35	Thermal: 336x256 35mm lens

Accessories

Optional :

PFA121
Junction box

PFA152-E
Pole Mount

Mounting Type

Junction Mount	Pole Mount
PFA121	PFA121+PFA152-E

Dimensions(mm)

291.0[11.46"]
192.5[7.58"]
103.8[4.09"]
97.2[3.83"]