

DHI-TPC-BF5641

Thermal Network Hybrid Bullet Camera





- · Vanadium oxide uncooled focal plane detector.
- · 1/1.8" 4Megapixel progressive scan CMOS.
- · Heat detection and alarm, tripwire, intrusion, and target filtering.
- · Junction box optional.
- · Illumination distance is up to 80 m.
- · IP67 rated.
- · Wide input voltage 12 VDC ± 20%, and PoE power supply.
- · Smart linkage of white light and audio.

System Overview

The Thermal Network Hybrid Bullet Camera provides an all-in-one solution for video monitoring whether day or night. It has 18 different kinds of thermal pseudo-color modes. It also offers tripwire, intrusion, and multiple types of intelligence analysis functions such as calling, smoking and fire.

Functions

Uncooled VOx Technology

Dahua thermal cameras use uncooled VOx sensor technology. The detector is small-sized, and highly sensitive allowing the camera to reveal images in greater detail, giving you more visual information on a monitored site. It also improves the accuracy of temperature measurements, ensuring that even minute temperature changes are detected.

Al Functions

Supports multiple intelligent functions such as heat detection, tripwire, intrusion, and person and vehicle classification detection. It supports alarm linkages, such as sending emails and triggering external alarms.

Heat Detection & Alarm

With its extended detection range, the camera can detect heat sources that are in locations distant to it. It is also highly sensitive to temperature changes, allowing the accuracy of its heat source detection to be higher than cameras that work in the visible light range.

Environment (-30 °C to +70 °C)

Developed to operate in extreme conditions, the camera can function in temperatures ranging from $-30~^{\circ}\text{C}$ to $+70~^{\circ}\text{C}$ ($-22~^{\circ}\text{F}$ to $+158~^{\circ}\text{F}$). It was subjected to rigorous dust and water immersion tests, gaining its IP66 certification, making it suitable for demanding outdoor applications. For environments with rain, sleet, snow and fog, an integrated wiper (optional) provides users with clear visibility at all times.

Scene

Ideal for locations that require fire protection such as factories, transit stations, equipment rooms, substations, computer rooms, and more. It is also great for enhancing the perimeter protection of industrial sites, historical and cultural sites, coal yards, and compounds with buildings.

Thermal ACC	Technical Specification	on	Digital Zoom	24 levels
Effective Puebls	Thermal		Thermal AGC	Auto/Manual
Post-Pitch 12 jm	Detector Type	Vanadium oxide uncooled focal plane detector	Thermal Noise Reduction	2D NR/3D NR
Secretal Range	Effective Pixels	640 (H) × 512 (V)	Image Flip	180°; Mirror
Seminary NETD			Color Palettes	autumn/midday/iron red/amber/jade/sunset/icefire/
Field of View 15 mm st 30 mt, 9		≤35 mK (@f/1.0)		autumn/winter)
Field of View 13 mmet 32.0 m/s 22.9 m/s 12.9 m/s 12.0	, (,		Visible	
Thermal Focus Control	Field of View	13 mm: H: 32.0°; V: 25.7° 19 mm: H: 22.9°; V: 18.4°		
Seed-focal See			Pixel	
Close Focus Distance	Thermal Focus Control	Fixed-focal		
Smm. 13 m (42.65 ft) Muman. 28 m (82.24 ft)	Close Focus Distance	9 mm: 2.2 m (13.120ft) 13 mm: 2.9 m (9.51 ft) 19 mm: 5.5 m (18.04 ft)		Color: 0.01 lux Black & white: 0.001 lux
Human: 28m (1882.24 ft) Visible Rober Reduction 20 (Nr) 30 Nr Wehicle: 1,000 m (3,80.00 ft) Human: 37 m (1,30.00 ft) Human: 37 m (1,30.00 ft) Human: 38 m (1,35.26 ft) Human: 38 m (1,35.26 ft) Human: 38 m (1,35.26 ft) Human: 38 m (1,35.36 ft) Human: 38 m (2,41.13 ft) Smr. Wehicle: 1,500 m (3,28.20 ft) Human: 37 m (2,41.13 ft) Smr. Wehicle: 1,500 m (3,28.00 ft) Human: 37 m (2,41.13 ft) Smr. Wehicle: 1,500 m (3,20.00 ft) Human: 37 m (2,41.13 ft) Smr. Wehicle: 2,500 m (8,20.00 ft) Human: 37 m (2,41.13 ft) Smr. Wehicle: 2,500 m (8,20.00 ft) Human: 37 m (2,41.13 ft) Smr. Wehicle: 35 m (3,65.00 ft) Human: 38 m (6,60.00 ft) Human: 39 m (6,60.80 ft) Human: 30 m (6,60.80 ft)			Visible AGC	Auto/Manual
Human: 37 mt 1,230.00 ft 1 mt 1,240.00 ft 1 mt 1,240.00 ft 1 mt 1,240.00 ft 1,240.		. , , , , , , , , , , , , , , , , , , ,	Visible Noise Reduction	2D NR/3D NR
Detection Distance Di		· · · · · · · · · · · · · · · · · · ·	S/N Ratio	>55 dB
25 mm, vehicle: 1,960 m(6,428.80 ft); Human: 735 m (7,241.81 ft) 35 mm, vehicle: 2,745 m (9,003.60 ft); Human: 3,50 m (7,384 ft) Human: 3,50 m (7,	Detection Distance ^①	13 mm: Vehicle: 1,019 m (3,342.32); etection Distance [®] Human: 382 m (1,253.26ft)	White Balance	
S5 mm: Vehicle: 2,745 m (9,003.60 ft); Human: 1,029 m (3,375.94 ft) 5 mm: Vehicle: 139 m (455.92 ft); Human: 250 m (820.00 ft); Human: 96 m (314.88 ft) 1 mm: Vehicle: 255 m (820.00 ft); Human: 96 m (314.88 ft) 1 mm: Vehicle: 255 m (820.00 ft); Human: 98 m (321.51 ft) 1 mm: Vehicle: 490 m (1,607.59 ft); Human: 143 m (469.15 ft) 2 mm: Vehicle: 686 m (2,250.62 ft); Human: 189 m (620.07 ft) 3 mm: Vehicle: 686 m (2,250.62 ft); Human: 26 m (86.13 ft) 5 mm: Vehicle: 68 m (2,250.62 ft); Human: 26 m (86.23 ft) 9 mm: Vehicle: 127 m (410.00 ft) 13 mm: Vehicle: 127 m (410.00 ft) 13 mm: Vehicle: 127 m (410.00 ft) 13 mm: Vehicle: 127 m (410.00 ft) 14 mm: 49 m (180.74 ft) 15 mm: Vehicle: 127 m (410.00 ft) 15 mm: Vehicle: 127 m (410.00 ft) 15 mm: Vehicle: 127 m (410.00 ft) 15 mm: Vehicle: 138 m (103.22 ft) 15 mm: Vehicle: 343 m (1125.31 ft) 15 mm: Vehicle: 343 m (1125.31 ft) 15 mm: Vehicle: 343 m (1125.31 ft) 16 mm: 13 m (833.06 ft) 17 mm: 12 m (833.06 ft) 18 mm: Vehicle: 343 m (1125.31 ft) 19 mm: Vehicle: 343 m (1125.31 ft) 10 mm: 10 m (433.06		25 mm: Vehicle: 1,960 m(6,428.80 ft);	Defog	Electronic defog
S mm: Vehicle: 139 m (455.92 ft); Human: 53 m (173.84 ft) Pam: Vehicle: 250 m (830.00 ft); Human: 96 m [314.88 ft) 13 mm: Vehicle: 255 m (836.00 ft); Human: 98 m (321.51 ft) 19 mm: Vehicle: 490 m (1,607.59 ft); Human: 183 m (69.00 ft) 35 mm: Vehicle: 686 m (2,250.62 ft); Human: 26 m (86.13 ft) 5 mm: Vehicle: 69 m (225.32 ft); Human: 26 m (85.28 ft) Human: 26 m (85.28 ft) Human: 27 m (85.28 ft) Human: 28 m (157.44 ft) 13 mm: Vehicle: 125 m (410.00 ft); Human: 49 m (160.76ft) 19 mm: Vehicle: 127 m (416.66 ft); Human: 49 m (160.76ft) 19 mm: Vehicle: 128 ft (610.22 ft); Human: 128 m (33.39 ft) 25 mm: Vehicle: 245 m (803.39 ft); Human: 39 m (160.76ft) 10 mm: Vehicle: 345 m (1125.31 ft); Human: 39 m (308.39 ft) 25 mm: Vehicle: 345 m (1125.31 ft); Human: 39 m (308.39 ft) 26 mm: Vehicle: 345 m (1125.31 ft); Human: 39 m (308.39 ft) 26 mm: Vehicle: 345 m (1125.31 ft); Human: 39 m (308.39 ft) 27 mm: Vehicle: 345 m (103.06 ft) 10 mm: Vehicle: 345 m (1125.31 ft); Human: 39 m (308.39 ft) 26 mm: Vehicle: 345 m (1125.31 ft); Human: 49 m (160.76ft) 10 mm: Phicle in 86 m (610.22 ft); Human: 120 m (33.06 ft) 26 mm: Vehicle: 345 m (1125.31 ft); Human: 121 m (43.06 ft) 27 mm: Vehicle: 345 m (103.30 ft) 28 mm: Vehicle: 345 m (103.30 ft) 29 mm: Vehicle: 345 m (103.30 ft) 20 mm: Vehicle: 345 m (103.30 ft) 21 mm: Thicle in 155 m (30.00 ft) 22 mm: Vehicle: 345 m (103.30 ft) 35 mm: Vehicle: 345 m (103.30 ft) 4 mm: 12 m (43.30 ft) 4 mm: 12 m (43.30 ft) 10 mm: Phicle in 155 m (60.00 ft) 10 mm: Phicle in 15		35 mm: Vehicle: 2,745 m (9,003.60 ft);	Electronic Shutter Speed	1 s-1/30,000 s (auto/manual)
Human: 53 m (173.84 ft) 9 mm; Vehicle: 250 m (82.00 ft); Human: 9 m (314.88 ft) 13 mm; Vehicle: 255 m (836.60 ft); Human: 9 m (314.88 ft) 13 mm; Vehicle: 372 m (1,220.45 ft); Human: 18 m (62.15 ft) 19 mm; Vehicle: 490 m (1,607.59 ft); Human: 18 m (62.00 ft); Human: 12 m (86.51 3ft) 10 mm; Vehicle: 490 m (1,607.59 ft); Human: 12 m (86.51 3ft) 10 mm; Vehicle: 686 m (2,250.62 ft); Human: 25 m (86.51 3ft) 10 mm; Vehicle: 125 m (410.00 ft); Human: 26 m (85.28 ft) 9 mm; Vehicle: 125 m (410.00 ft); Human: 48 m (157.44 ft) 13 mm; Vehicle: 127 m (416.66 ft); Human: 49 m (160.76 ft) 19 mm; Vehicle: 127 m (410.02 ft); Human: 12 m (308.39 ft) 10 mm; Vehicle: 245 m (103.22 ft); Human: 12 m (308.39 ft) 10 mm; Vehicle: 343 m (1125.31 ft); Human: 12 m (33.06 ft) 10 mm; Vehicle: 343 m (1125.31 ft); Human: 12 m (33.06 ft) 10 mm; Vehicle: 343 m (1125.31 ft); Human: 12 m (33.06 ft) 10 mm; Vehicle: 343 m (1125.31 ft); Human: 12 m (433.06 ft) 10 mm; Vehicle: 345 m (1125.31 ft); Human: 12 m (433.06 ft) 10 mm; Vehicle: 345 m (1125.31 ft); Human: 12 m (433.06 ft) 10 mm; Vehicle: 345 m (1125.31 ft); Human: 12 m (433.06 ft) 10 mm; Vehicle: 345 m (1125.31 ft); 10 mm; Vehicle: 3			BLC	Yes
Recognition Distance (Part Human 98 m (23.15.1f) 19 mm: Vehicle: 372 m (1,220.45 ft); Human: 143 m (469.15 ft) 19 mm: Vehicle: 372 m (1,220.45 ft); Human: 189 m (20.00 ft) 19 mm: Vehicle: 490 m (1,607.59 ft); Human: 189 m (62.00 ft) 19 mm: Vehicle: 686 m (2,250.62 ft); Human: 264 m (866.13 ft) 19 mm: Vehicle: 695 m (2,250.62 ft); Human: 26 m (152.45 ft) 19 mm: Vehicle: 125 m (410.00 ft); Human: 49 m (160.76 ft) 13 mm: Vehicle: 127 m (416.66 ft); Human: 41 m (160.76 ft) 13 mm: Vehicle: 385 m (610.22 ft); Human: 71 m (232.93 ft) 19 mm: Vehicle: 385 m (610.22 ft); Human: 71 m (232.93 ft) 19 mm: Vehicle: 343 m (125.31 ft); Human: 132 m (433.06 ft) 10 mm: 125.51 (125.31 ft); Human: 132 m (433.06 ft) 10 mm: 125.53 mm: Vehicle: 343 m (125.31 ft); Human: 132 m (433.06 ft) 10 mm: 125.53 mm: Vehicle: 343 m (125.31 ft); Human: 132 m (433.06 ft) 10 mm: 125.53 mm: Vehicle: 343 m (125.31 ft); Human: 132 m (433.06 ft) 10 mm: 125.53 mm: Vehicle: 343 m (125.31 ft); Human: 132 m (433.06 ft) 10 mm: 125.53 mm: Vehicle: 343 m (125.31 ft); Human: 132 m (433.06 ft) 10 mm: 125.53 mm: Vehicle: 343 m (125.31 ft); Human: 132 m (433.06 ft) 10 mm: 125.53 mm: Vehicle: 343 m (125.31 ft); Human: 132 m (433.06 ft) 10 mm: 125.53 mm: Vehicle: 343 m (125.31 ft); Human: 132 m (433.06 ft) 10 mm: 125.53 mm: Vehicle: 343 m (125.31 ft); Human: 132 m (433.06 ft) 10 mm: 125.53 mm: Vehicle: 343 m (125.31 ft); Human: 132 m (433.06 ft) 10 mm: 125.53 mm: Vehicle: 345 m (125.31 ft); Human: 132 m (433.06 ft) 10 mm: 125.53 mm: Vehicle: 345 m (125.31 ft); Human: 132 m (433.06 ft) 10 mm: 125.53 mm: Vehicle: 345 m (125.31 ft); Human: 132 m (433.06 ft) 10 mm: 125.53 mm: Vehicle: 345 m (125.31 ft); Human: 132 m (433.06 ft) 10 mm: 125.53 mm: Vehicle: 345 m (125.31 ft); Human: 132 m (433.06 ft) 10 mm: 125.53 mm: Vehicle: 345 m (125.31 ft); Human: 132 m (433.06 ft) 10 mm: 125.53 mm: Vehicle: 345 m (125.31 ft); Human: 132 m (433.06 ft) 10 mm: Vehicle: 345 m (125.31 ft); Human: 132 m (433.06 ft) 10 mm: Vehicle: 135 m (125.31 ft); Human: 132 m (433.06 ft) 10 mm: Vehicle:		Human: 53 m (173.84 ft)	WDR	Yes
Heman: 143 m (469.15 ft) 25 mm: Vehicle: 490 m (1,607.59 ft); Human: 189 m (620.07 ft) 35 mm: Vehicle: 680 m (2,250.62 ft); Human: 26 m (866.13 ft) 5 mm: Vehicle: 680 m (2,250.62 ft); Human: 26 m (866.13 ft) 5 mm: Vehicle: 125 m (410.00 ft); Human: 48 m (157.44 ft) 13 mm: Vehicle: 125 m (410.00 ft); Human: 48 m (157.44 ft) 13 mm: Vehicle: 180 m (610.22 ft); Human: 49 m (160.76 ft) 19 mm: Vehicle: 180 m (610.22 ft); Human: 71 m (232.93 ft) 25 mm: Vehicle: 180 m (610.22 ft); Human: 121 m (433.06 ft) Note: ① Detection Distance: Detects objects, but cannot recognize their characteristics. Detected objects only cover a small amount of pixels (objects must cover more than 3.6 pixels of the image). ② Recognition Distance: Classifies objects into general categories, such as human, vehicle, and building (the object must cover more than 1.8 pixels of the image). Digital Detail Enhancement Ves Inscontrol Fixed Fixed 180'; Mirror Exposure Compensation Yes Visible Focus Control Fixed Fixed Fixed Fixed 180'; Mirror Fixed Fixed Fixed-focal Fixed-fo		13 mm: Vehicle: 255 m (836.60 ft);	Yes	
Second Price Seco	Recognition Distance ^②	, ,	Day/Night	Auto (ICR); Color; B/W
St mm: Vehicle: 686 m (2,250,62 ft); Human: 264 m (866.13 ft)		25 mm: Vehicle: 490 m (1,607.59 ft);	59 ft); Fixed	Fixed
S mm: Vehicle: 69 m (226.32 ft); Human: 26 m (85.28 ft) 9 mm: Vehicle: 125 m (410.00 ft); Human: 48 m (157.44 ft) 13 mm: Vehicle: 127 m (416.66 ft); Human: 49 m (160.76 ft) 19 mm: Vehicle: 127 m (416.66 ft); Human: 71 m (232.93 ft) 25 mm: Vehicle: 245 m (803.79 ft); Human: 94 m (108.39 ft) 35 mm: Vehicle: 343 m (1125.31 ft); Human: 132 m (433.06 ft) Note: ① Detection Distance: Detects objects, but cannot recognize their characteristics. Detected objects only cover a small amount of pixels (objects must cover more than 3.6 pixels of the image). ② Recognition Distance: Classifies objects into general categories based on their characteristics, such as soldier, pickup truck, and gas station (the object must cover more than 28 pixels of the image). Digital Detail Enhancement S mm: Vehicle: 343 ft) 10-30 mm: H: 15.5°; V: 11.6° Field of View Field of View Field of View 10 them: H: 87.0°; V: 47.3° 6 mm: H: 85.3°; V: 30.0° 12 mm: H: 35.3°; V: 21.4° 10-30 mm: H: 15.5°; V: 11.6° 12 mm: 2.5 m (8.20 ft) 12 mm: 2.5 m (8.20 ft) 12 mm: 7.4 m (24.27 ft) 10-30 mm: 9 m (29.53 ft) Aperture Aperture Aperture Illuminator On/Off Control Auto; manual Illumination Distance But Addit H: 264H:		35 mm: Vehicle: 686 m (2,250.62 ft); Image Flip 180°; Mirror	180°; Mirror	
Identification Distance Identification Distan			Exposure Compensation	Yes
Identification Distance Identification Distan			Visible Focus Control	Fixed-focal
25 mm: Vehicle: 245 m (803.79 ft); Human: 94 m (308.39 ft) 35 mm: Vehicle: 343 m (1125.31 ft); Human: 132 m (433.06 ft) Note: (1) Detection Distance: Detects objects, but cannot recognize their characteristics. Detected objects only cover a small amount of pixels (objects must cover more than 3.6 pixels of the image). (2) Recognition Distance: Classifies objects into general categories, such as human, vehicle, and building (the object must cover more than 14 pixels of the image). (3) Identification Distance: Classifies objects into specific categories based on their characteristics, such as soldier, pickup truck, and gas station (the object must cover more than 28 pixels of the image). Digital Detail Enhancement Ves Close Focus Distance 4 mm: 1.2 m (3.93 ft) 6 mm: 2.5 m (8.20 ft) 12 mm: 7.4 m (24.27 ft) 10–30 mm: 9 m (29.53 ft) 4 mm: F1.6 6 mm: F1.6 6 mm: F1.6 12 mm: F1.7 10–30 mm: F1.7 Illuminator On/Off Control Auto; manual Illumination Distance 80 m (262.47 ft) Audio and Video Video Compression H 265: H 264M: H 264B: H 264B	Identification Distance ^③	13 mm: Vehicle: 127 m (416.66 ft); Human: 49 m (160.76ft) 19 mm: Vehicle: 186 m (610.22 ft);	Field of View	6 mm: H: 55.3°; V: 30.0° 12 mm: H:37.3°; V: 21.4°
(1) Detection Distance: Detects objects, but cannot recognize their characteristics. Detected objects only cover a small amount of pixels (objects must cover more than 3.6 pixels of the image). (2) Recognition Distance: Classifies objects into general categories, such as human, vehicle, and building (the object must cover more than 14 pixels of the image). (3) Identification Distance: Classifies objects into specific categories based on their characteristics, such as soldier, pickup truck, and gas station (the object must cover more than 28 pixels of the image). Digital Detail Enhancement Ves Aperture Aperture Aperture Aperture Aperture Aperture Aperture Aperture Aperture Bulluminator On/Off Control Auto; manual Illumination Distance Bullumination Distance Audio and Video		25 mm: Vehicle: 245 m (803.79 ft); Human: 94 m (308.39 ft) 35 mm: Vehicle: 343 m (1125.31 ft);	Close Focus Distance	6 mm: 2.5 m (8.20 ft) 12 mm: 7.4 m (24.27 ft)
human, vehicle, and building (the object must cover more than 14 pixels of the image). (3) Identification Distance: Classifies objects into specific categories based on their characteristics, such as soldier, pickup truck, and gas station (the object must cover more than 28 pixels of the image). Digital Detail Enhancement Ves Illuminator On/Off Control Auto; manual Illumination Distance 80 m (262.47 ft) Audio and Video	① Detection Distance: Detected characteristics. Detected must cover more than 3.6	objects only cover a small amount of pixels (objects 6 pixels of the image).	Aperture	6 mm: F1.6 12 mm: F1.7
(3) Identification Distance: Classifies objects into specific categories based on their characteristics, such as soldier, pickup truck, and gas station (the object must cover more than 28 pixels of the image). Digital Detail Enhancement Ves 1 1 1 264 264 1 264	human, vehicle, and build	, , , , , , , , , , , , , , , , , , , ,	Illuminator On/Off Control	Auto; manual
must cover more than 28 pixels of the image). Audio and Video Digital Detail Enhancement Video Compression Video Compression Video Compression	③ Identification Distance: C		Illumination Distance	80 m (262.47 ft)
Ves Video Compression U 265: U 264M: U 264U: U 264B			Audio and Video	
	_	Yes	Video Compression	H.265; H.264M; H.264H; H.264B

	Thermal:	A	slarm Input	2
	Main stream: 1280 × 1024; 1280 × 720; 640 × 512; 1280 × 1024 (default) Sub stream: 640 × 512; 320 × 256; 640 × 512 (default)	A	larm Output	2
Resolution	Visible: Main stream: 2688 × 1520; 2560 × 1440; 1920 × 1080;	A	audio Input	1
	1280 × 720); 704 × 576; 2560 × 1440 (default) Sub stream: 704 × 576; 352 × 288; 704 × 576 (default)	A	audio Output	1
	Thermal (50 Hz):	F	RS-485	1
	Main stream: 1 fps–25 fps, 25 fps by default Sub stream: 1 fps–25 fps, 15 fps by default	F	Power	
	Visible (50 Hz): Main stream: 1 fps–25 fps, 25 fps by default Colorbate and 1 fps–25 fps, 15 fps by default	P	ower Supply	12 VDC ± 20%, PoE
Video Frame Rate	Sub stream: 1 fps–25 fps, 15 fps by default Thermal (60 Hz): Main stream: 1 fps–30 fps, 30 fps by default Sub stream: 1 fps–30 fps, 15 fps by default	F	ower Consumption	Basic: 5 W (illumina Max: 15 W (illumina
	Visible (60 Hz): Main stream: 1 fps–30 fps, 30 fps by default	e	PoE	Yes
	Sub stream: 1 fps–30 fps, 15 fps by default	E	Environment	
Audio Compression	G.711a; G.711 mu	C	Operating Temperature	−30 °C to +70 °C (−2
Image Encoding Format	JPEG	C	Operating Humidity	≤95%
Function		S	torage Temperature	-40 °C to +70 °C (-4
Two-way Audio	Yes	F	Physical Characteristic	S
Sound and Light Alarm	Local audio and white light alarm prompts	P	rotection	IP67
Network Protocol	IPv4/IPv6; HTTP; HTTPS; 802.1x; QoS; FTP; SMTP; UPnP; SNMP; DNS; DDNS; NTP; RTSP; RTP; TCP; UDP; IGMP; ICMP; DHCP; PPPoE	F	deliability	Surge protection: 6 Air discharge: 15 kV Contact discharge: 8
Region of Interest (RoI)	Yes (customizable)		Structure	o .
Storage	FTP; Micro SD card (512 GB, hot swapping)			300.9 mm × 181.8 n
Interoperability	ONVIF; CGI; DaHua SDK	۲	roduct Dimensions	7.16") (L × W × H)
Browser	IE; Firefox; Chrome; Safari	P	ackaging Dimensions	423 mm × 180 mm : (L × W × H)
User/Host	Up to 20 (total bandwidth: 64 MB)	١	let Weight	≤2.35 kg (5.18 lb)
Security	Authorized username and password; attached MAC address; encrypted HTTPS; IEEE 802.1x; controlled network access		Gross Weight	≤2.7 kg (5.95 lb)
Heen Management	Up to 20 users; supports multi-level user permissions (2			Iliciuded
User Management	levels): management group and user group		Certification	CE/ECC
Malfunction Detection	Network disconnection detection; IP conflict detection; memory card state detection; memory space detection		Certifications	CE/FCC
Fusion Mode	Yes. Off by default	ŀ	Heat Detection Distan	
PIP	Yes	F	ocal Length	Heat Detection Dis (Recommended)
Intelligence		5	mm	39.5 m (129.56 ft)
Heat Detection	Yes	9	mm	90 m (295.60 ft)
Cold/Hot Spot Trace	Yes	1	.3 mm	57 m (186.96 ft)
Perimeter Protection	Yes. Supports tripwire and intrusion.	1	.9 mm	83.3 m (273.22 ft)
Target Distinction	Human/Vehicle Classification	2	25 mm	109.6 m (359.49 ft)
Target Tracking	Yes	3	5 mm	153.5 m (503.48 ft)
Smoke Detection	Yes		lote:	
Port		n	The table displays the measun \times 0.2 m for testing in an en	vironment where th
Analog Output	$1\times$ CVBS output; BNC port (not supported by the device with a junction box)	Т	elative humidity is below 60 he table is for reference onl onditions including atmosph	y. The distances wit
Network Port	1 × RJ-45 (10/100 Base-T)	n	nore.	

Alarm Input	2
Alarm Output	2
Audio Input	1
Audio Output	1
RS-485	1

Power Supply	12 VDC ± 20%, PoE (802.3af), ePoE
Power Consumption	Basic: 5 W (illuminator off, heater off, speaker off) Max: 15 W (illuminator on, heater on, speaker on)
ePoE	Yes

Operating Temperature	−30 °C to +70 °C (−22 °F to +158 °F)
Operating Humidity	≤95%
Storage Temperature	-40 °C to +70 °C (-40 °F to +158 °F)

Protection	IP67
Reliability	Surge protection: 6 kV Air discharge: 15 kV Contact discharge: 8 kV

Product Dimensions	300.9 mm \times 181.8 mm \times 181.8 mm (11.85" \times 7.16" \times 7.16") (L \times W \times H)
Packaging Dimensions	423 mm \times 180 mm \times 178 mm (16.65" \times 7.09" \times 7.01") (L \times W \times H)
Net Weight	≤2.35 kg (5.18 lb)
Gross Weight	≤2.7 kg (5.95 lb)
Lens	Included

Certifications	CE/FCC

Focal Length	Heat Detection Distance (Recommended)	Heat Detection Distance (Max.)
5 mm	39.5 m (129.56 ft)	43.9 m (143.99 ft)
9 mm	90 m (295.60 ft)	78.9 m (258.79 ft)
13 mm	57 m (186.96 ft)	114 m (373.92 ft)
19 mm	83.3 m (273.22 ft)	166.7m (546.77 ft)
25 mm	109.6 m (359.49 ft)	219.3 m (719.30 ft)
35 mm	153.5 m (503.48 ft)	307 m (1,006.96 ft)

ained from using the target size 0.2 the temperature is 23 °C and the

vithin it are subject to actual arget size, the installation site, and

Perimeter Protection Distance

Focal Length	Perimeter Protection Distance (Human)	Perimeter Protection Distance (Vehicle)
5 mm	50 m (164.00 ft)	150 m (492.00 ft)
9 mm	90 m (295.60 ft)	270 m (885.60 ft)
13 mm	130 m (426.40 ft)	390 m (1,279.20 ft)
19 mm	190 m (623.20 ft)	570 m (1,869.60 ft)
25 mm	250 m (820.00 ft)	750 m (2,460.00 ft)
35 mm	350 m (1,148.00 ft)	1,050 m (3,444.00 ft)

Note:

The table displays the measured distances obtained from using the target sizes $1.8\,\text{m}\times0.5\,\text{m}$ (human) and $1.4\,\text{m}\times4\,\text{m}$ (vehicle) for testing in an environment where the temperature is 23 °C and the relative humidity is below 60%. The table is for reference only. The distances within it are subject to actual conditions including atmospheric conditions, target size, the installation site, and more.

Ordering Information Type Model Description DHI-TPC-BF5641-B5F4 Thermal: 5 mm; DHI-TPC-BF5641-B5F4-J Visible: 4 mm DHI-TPC-BF5641-B9F4 Thermal: 9 mm; DHI-TPC-BF5641-B9F4-J Visible: 4 mm DHI-TPC-BF5641-B13F6 Thermal: 13 mm; DHI-TPC-BF5641-B13F6-J Visible: 6 mm Security DHI-TPC-BF5641-B19F12 Thermal: 19 mm; DHI-TPC-BF5641-B19F12-J Visible: 12 mm DHI-TPC-BF5641-B25F12 Thermal: 25 mm; DHI-TPC-BF5641-B25F12-J Visible: 12 mm DHI-TPC-BF5641-B35Z3 Thermal: 35 mm; DHI-TPC-BF5641-B35Z3-J Visible: 10mm-30 mm PFA151 + PFA121 Corner Mount Bracket Accessories PFA121 Junction Mount (Optional) PFA150+PFA121 Vertical Pole Mount Bracket Accessories Junction Mount (Optional for -J model) PFA154 Vertical Pole Mount Bracket

Accessories

Optional:











PFA151 + PFA121 Corner Mount Bracket

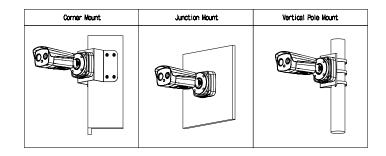
PFA121 Junction Mount

PFA150 + PFA121 Vertical Pole Mount Bracket

For Junction box model (-J):



PFA154 Vertical Pole Mount Bracket



Junction Mount	Vertical Pole Mount
0	

Dimensions (mm[inch])

