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SMART THERMAL IMAGING

Product and Solution

2017 Ver.1

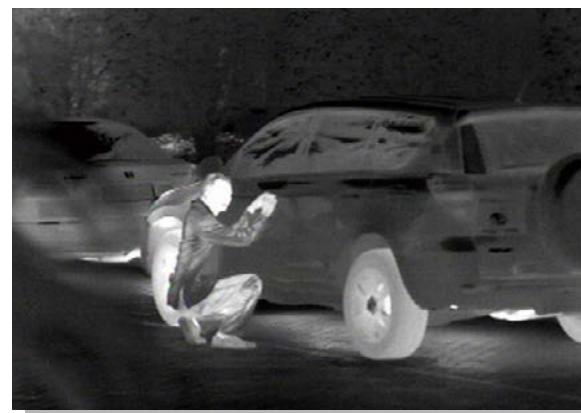
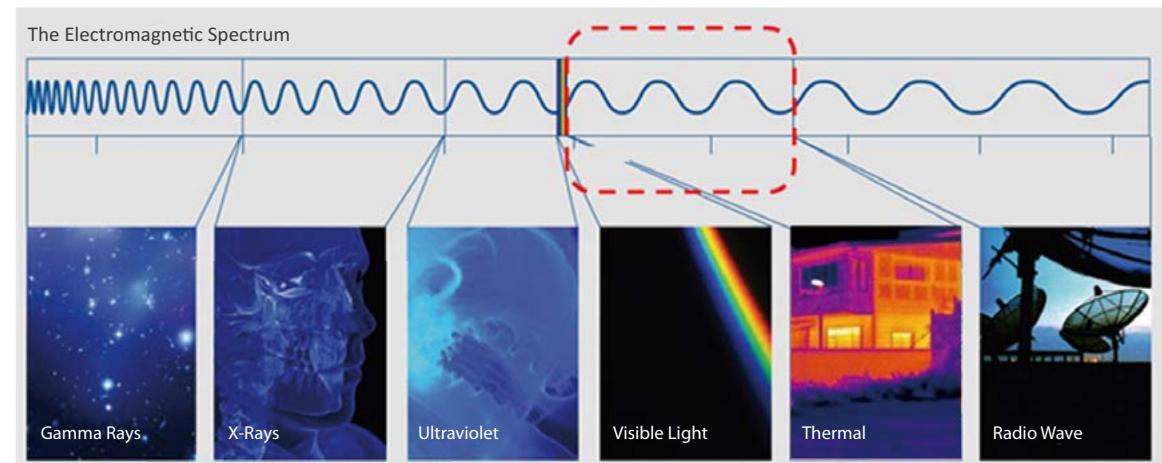
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What Is Thermal Imaging?

Any object with temperature above absolute zero(-273.15 °C) emits infrared radiation. Infrared radiation sits between the visible spectrum(0.4~0.75μm) and microwave spectrum(>15μm). Although we can't see it, we experience it every day. Sun and fire are also sources of infrared energy that we can feel through its heat. Usually a higher temperature object emits more infrared radiation. The image quality depends on the temperature difference, with higher differentials yielding better images. That is how we can distinguish the temperature difference in the thermal image.

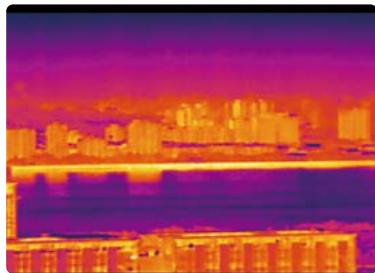
Different objects emit different infrared radiation, this data will be collected by optical lens and sent out to the infrared detector. The infrared detector converts an infrared signal to an electrical signal. The electrical signal will be processed into an image by the DSP that can be viewed by people. Thermal images include temperature information. We can integrate a special algorithm if we want to get exact temperature information from the image.



Why Use Thermal Imaging?

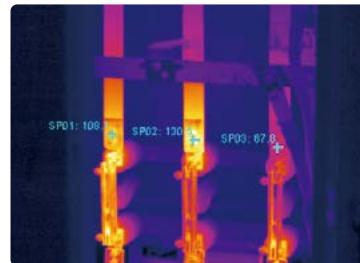
Video surveillance needs effective detection and identification of an object. Right now visible camera is used in most monitoring applications, but visible camera cannot work in all conditions, especially in the total darkness and harsh environments. However thermal camera requires no light source, it is excellent for detecting objects in darkness and harsh environments. In addition, thermal camera has the ability of long-range detection and temperature measurement, so that thermal camera can be used together with visible camera to achieve all-weather and comprehensive monitoring.

Detection in total darkness



Thermal camera has no need for additional lighting.
Even in total darkness ,it has perfect image quality just as daytime.

Temperature measurement and alarm



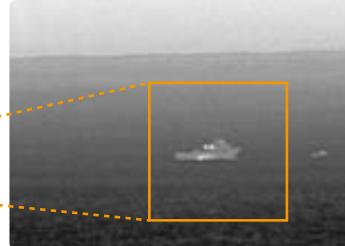
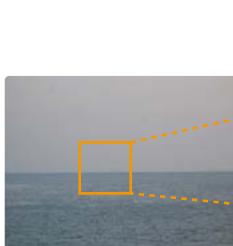
Thermal camera can realize temperature measurement to get exact temperature information. It can trigger an alarm to inform people about the problem when temperature is over threshold.

Work under harsh environments



Thermal camera has a better detection ability and performance in harsh environments such as rain/fog/haze etc.

Long-range detection

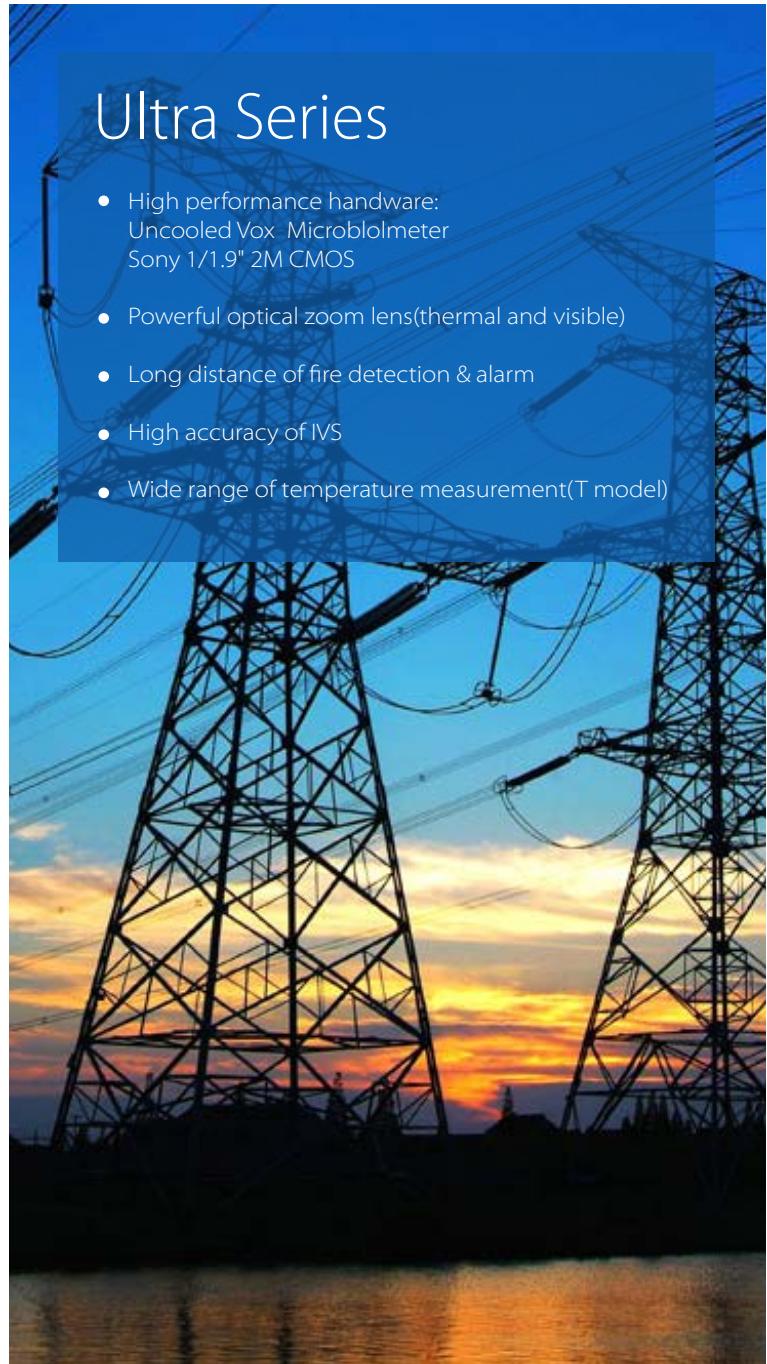


Thermal camera collects infrared radiation of any objects above absolute zero which can travel long distance. Typically , camera with 100mm lens has ability of detecting people over 3km.

THERMAL CAMERA



THERMAL CAMERA



Ultra Series		Tribrid PTZ Thermal
Model		DH-TPC-PT8620C
Thermal	Image Sensor	Uncooled Vox Microbolometer
	Effective Pixels	640(H) x 512(V)
	Sensitivity	<40mK@f/1.0
	Lens	100mm 20mm ~ 100mm (Optional) 30mm ~ 150mm (Optional)
	Angle of View	H: 6.2° H: 30.4° ~ 6.2° (Optional) H: 20.6° ~ 4.2° (Optional)
	Image Sensor	1/1.9" 2M CMOS
	Lens	6mm ~ 180mm 15mm ~ 360mm (Optional) 21mm ~ 500mm (Optional) 12.5mm ~ 775mm (Optional)
	Angle of View	H: 51.2°~1.8° H: 32.3° ~ 1.4° (Optional) H: 23.5° ~ 1.0° (Optional) H: 28.8° ~ 0.5° (Optional)
	Min. Illumination	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W)
	Laser Rander Finder(Optional)	Wavelength Effective Distance Accuracy
Laser Illuminator (Optional)	Wavelength	1.57μm (Eye safe)
	Effective Distance	50m~5000m
	Angle of Laser Beam	±2m
General	Wavelength	808±5nm
	Effective Distance	1000m
	Angle of Laser Beam	1°~ 30°
	Frame Rate	Thermal: 30fps@1280x1024 (default)/720P Visible: 30fps@1080P (default)/720P
	Pan/Tilt Range	300 presets Pan: 0° ~ 360°endless Tilt: -60° ~ 45°, Tilt: -45° ~ 60° (Optional)
	Intelligent Video	IVS, Fire detection & alarm
	Compatibility	ONVIF PSIA CGI
	Ingress Protection	IP66
	Working Environment	-40°C ~ +70°C
	Power	AC100V~AC300V/DC30V, <150W

※ IVS: Tripwire, Intrusion, Object distinguish, Abandon detection, Missing detection

THERMAL CAMERA

Ultra Series

	Tribrid PTZ Thermal	Hybrid PTZ Thermal	
Model	DH-TPC-PT8320C	DH-TPC-PT8620B	DH-TPC-PT8320B
Image Sensor	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer
Effective Pixels	336(H) x 256(V)	640(H) x 512(V)	336(H) x 256(V)
Sensitivity	<40mK@f/1.0	<40mK@f/1.0	<40mK@f/1.0
Lens	100mm 20mm ~ 100mm (Optional) 30mm ~ 150mm (Optional)	100mm 20mm ~ 100mm (Optional) 30mm ~ 150mm (Optional)	100mm 20mm ~ 100mm (Optional) 30mm ~ 150mm (Optional)
Angle of View	H: 3.1° H: 15.2° ~ 3.1° (Optional) H: 10.35° ~ 2.1° (Optional)	H: 6.2° H: 30.4° ~ 6.2° (Optional) H: 20.6° ~ 4.2° (Optional)	H: 3.1° H: 15.2° ~ 3.1° (Optional) H: 10.3° ~ 2.1° (Optional)
Image Sensor	1/1.9" 2M CMOS	1/1.9" 2M CMOS	1/1.9" 2M CMOS
Lens	6mm ~ 180mm 15mm ~ 360mm (Optional) 21mm ~ 500mm (Optional) 12.5mm ~ 775mm (Optional)	6mm ~ 180mm 15mm ~ 360mm (Optional) 21mm ~ 500mm (Optional) 12.5mm ~ 775mm (Optional)	6mm ~ 180mm 15mm ~ 360mm (Optional) 21mm ~ 500mm (Optional) 12.5mm ~ 775mm (Optional)
Angle of View	H: 51.2°~1.8° H: 32.3° ~ 1.4° (Optional) H: 23.5° ~ 1.0° (Optional) H: 28.8° ~ 0.5° (Optional)	H: 51.2° ~ 1.8° H: 32.3° ~ 1.4° (Optional) H: 23.5° ~ 1.0° (Optional) H: 28.8° ~ 0.5° (Optional)	H: 51.2° ~ 1.8° H: 32.3° ~ 1.4° (Optional) H: 23.5° ~ 1.0° (Optional) H: 28.8° ~ 0.5° (Optional)
Min. Illumination	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W)	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W)	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W)
Wavelength	1.57μm (Eye safe)	-	-
Effective Distance	50m~5000m	-	-
Accuracy	±2m	-	-
Wavelength	808±5nm	-	-
Effective Distance	1000m	-	-
Angle of Laser Beam	1°~ 30°	-	-
Frame Rate	Thermal: 30fps@1280x1024 (default)/720P Visible: 30fps@1080P (default)/720P	Thermal: 30fps@1280x1024 (default)/720P Visible: 30fps@1080P (default)/720P	Thermal: 30fps@1280x1024 (default)/720P Visible: 30fps@1080P (default)/720P
Pan/Tilt Range	300 presets Pan: 0° ~ 360°endless Tilt: -60° ~ 45°, Tilt: -45° ~ 60° (Optional)	300 presets Pan: 0° ~ 360°endless Tilt: -60° ~ 45°, Tilt: -45° ~ 60° (Optional)	300 presets Pan: 0° ~ 360°endless Tilt: -60° ~ 45°, Tilt: -45° ~ 60° (Optional)
Intelligent Video	IVS, Fire detection & alarm	IVS, Fire detection & alarm	IVS, Fire detection & alarm
Compatibility	ONVIF PSIA CGI	ONVIF PSIA CGI	ONVIF PSIA CGI
Ingress Protection	IP66	IP66	IP66
Working Environment	-40°C ~ +70°C	-40°C ~ +70°C	-40°C ~ +70°C
Power	AC100V~AC300V/DC30V, <150W	DC24V/AC30V, <100W	DC24V/AC30V, <100W

※ IVS: Tripwire, Intrusion, Object distinguish, Abandon detection, Missing detection

THERMAL CAMERA

Ultra Series

Hybrid Pan & Tilt Thermal					
Model	DH-TPC-P8620A-T	DH-TPC-P8620A	DH-TPC-P8320A-T	DH-TPC-P8320A	
	 		 		
Thermal	Image Sensor	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer
	Effective Pixels	640(H) x 512(V)	640(H) x 512(V)	336(H) x 256(V)	336(H) x 256(V)
	Sensitivity	<40mK@f/1.0	<40mK@f/1.0	<40mK@f/1.0	<40mK@f/1.0
	Lens	25mm/60mm/100mm	35mm/60mm/100mm	25mm/60mm/100mm	35mm/60mm/100mm
	Angle of View	H: 25°/10.4°/6.2°	H: 18°/10.4°/6.2°	H: 13°/5°/3.3°	H: 9.3°/5°/3.3°
	Temperature Range & Accuracy	Low Gain: -40°C ~ +550°C High Gain: -40°C ~ +160°C Max (±2°C, ±2%)	-	Low Gain: -40°C ~ +550°C High Gain: -40°C ~ +160°C Max (±2°C, ±2%)	-
	Measurement Preset	Spot: 12/Line: 12/Area: 12 Support 12 presets simultaneously	-	Spot: 12/Line: 12/Area: 12 Support 12 presets simultaneously	-
	Temperature Alarm	Support	-	Support	-
Visible	Image Sensor	1/1.9" 2M CMOS	1/1.9" 2M CMOS	1/1.9" 2M CMOS	1/1.9" 2M CMOS
	Lens	6mm ~ 180mm	6mm ~ 180mm	6mm ~ 180mm	6mm ~ 180mm
	Angle of View	H: 61.2° ~ 2.32°	H: 61.2° ~ 2.32°	H: 61.2° ~ 2.32°	H: 61.2° ~ 2.32°
	Min. Illumination	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)
	IR Distance	150m	150m	150m	150m
General	Frame Rate	Thermal: 30fps@1280x1024 (default)/720P Visible: 30fps@1080P (default)/720P	Thermal: 30fps@1280x1024 (default)/720P Visible: 30fps@1080P (default)/720P	Thermal: 30fps@1280x1024 (default)/720P Visible: 30fps@1080P (default)/720P	Thermal: 30fps@1280x1024 (default)/720P Visible: 30fps@1080P (default)/720P
	Pan/Tilt Range	300 presets Pan: 0° ~ 360°endless Tilt: -40° ~ 90°	300 presets Pan: 0° ~ 360°endless Tilt: -40° ~ 90°	300 presets Pan: 0° ~ 360°endless Tilt: -40° ~ 90°	300 presets Pan: 0° ~ 360°endless Tilt: -40° ~ 90°
	Intelligent Video	IVS, Fire detection & alarm	IVS, Fire detection & alarm	IVS, Fire detection & alarm	IVS, Fire detection & alarm
	Compatibility	ONVIF PSIA CGI	ONVIF PSIA CGI	ONVIF PSIA CGI	ONVIF PSIA CGI
	Ingress Protection	IP67	IP67	IP67	IP67
	Working Environment	-40°C~+70°C	-40°C~+70°C	-40°C~+70°C	-40°C~+70°C
	Power	AC24V, <70W	AC24V, <70W	AC24V, <70W	AC24V, <70W

※ IVS: Tripwire, Intrusion, Object distinguish, Abandon detection, Missing detection

THERMAL CAMERA

Ultra Series

	Hybrid Mobile Pan & Tilt Thermal			
Model	DH-TPC-PT8620M-T	DH-TPC-PT8620M	DH-TPC-PT8320M-T	DH-TPC-PT8320M
	 		 	
Thermal	Image Sensor	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer
	Effective Pixels	640(H) x 512(V)	640(H) x 512(V)	336(H) x 256(V)
	Sensitivity	<40mK@f/1.0	<40mK@f/1.0	<40mK@f/1.0
	Lens	19mm/25mm/35mm/50mm	19mm/25mm/35mm/50mm	19mm/25mm/35mm/50mm
	Angle of View	H: 32°/25°/18°/12.4°	H: 32°/25°/18°/12.4°	H: 17°/13°/9.3°/6.5°
	Temperature Range & Accuracy	Low Gain: -40°C ~ +550°C High Gain: -40°C ~ +160°C Max (±2°C, ±2%)	-	Low Gain: -40°C ~ +550°C High Gain: -40°C ~ +160°C Max (±2°C, ±2%)
	Measurement Preset	Spot: 12/Line: 12/Area: 12 Support 12 presets simultaneously	-	Spot: 12/Line: 12/Area: 12 Support 12 presets simultaneously
	Temperature Alarm	Support	-	Support
Visible	Image sensor	1/1.9" 2M CMOS	1/1.9" 2M CMOS	1/1.9" 2M CMOS
	Lens	6mm ~ 180mm	6mm ~ 180mm	6mm ~ 180mm
	Angle of View	H: 59° ~ 2.4°	H: 59° ~ 2.4°	H: 59° ~ 2.4°
	Min. Illumination	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)
	IR Distance	150m	150m	150m
General	Frame Rate	Thermal: 30fps@1280x1024 (default)/720P Visible: 30fps@1080P (default)/720P	Thermal: 30fps@1280x1024 (default)/720P Visible: 30fps@1080P (default)/720P	Thermal: 30fps@1280x1024 (default)/720P Visible: 30fps@1080P (default)/720P
	Pan/Tilt Range	300 presets Pan: 0° ~ 360°endless Tilt: -90° ~ 90°	300 presets Pan: 0° ~ 360°endless Tilt: -90° ~ 90°	300 presets Pan: 0° ~ 360°endless Tilt: -90° ~ 90°
	Intelligent Video	IVS, Fire detection & alarm	IVS, Fire detection & alarm	IVS, Fire detection & alarm
	Compatibility	ONVIF PSIA CGI	ONVIF PSIA CGI	ONVIF PSIA CGI
	Ingress Protection	IP66	IP66	IP66
	Working Environment	-40°C ~ +70°C	-40°C ~ +70°C	-40°C ~ +70°C
	Power	DC12V/5A (DC9V~36V wide range input), <48W	DC12V/5A (DC9V~36V wide range input), <48W	DC12V/5A (DC9V~36V wide range input), <48W
		※ IVS: Tripwire, Intrusion, Object distinguish, Abandon detection, Missing detection		

THERMAL CAMERA

Ultra Series

Hybrid Speed Dome Thermal					
Model	DH-TPC-SD8620-T	DH-TPC-SD8620	DH-TPC-SD8320-T	DH-TPC-SD8320	
	 		 		
Thermal	Image Sensor	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer
	Effective Pixels	640(H) x 512(V)	640(H) x 512(V)	336(H) x 256(V)	336(H) x 256(V)
	Sensitivity	<40mK@f/1.0	<40mK@f/1.0	<40mK@f/1.0	<40mK@f/1.0
	Lens	25mm/35mm/50mm	25mm/35mm/50mm	25mm/35mm/50mm	25mm/35mm/50mm
	Angle of View	H: 25°/18°/12.4°	H: 25°/18°/12.4°	H: 13°/9.3°/6.5°	H: 13°/9.3°/6.5°
	Temperature Range & Accuracy	Low Gain: -40°C ~ +550°C High Gain: -40°C ~ +160°C Max (±2°C, ±2%)	-	Low Gain: -40°C ~ +550°C High Gain: -40°C ~ +160°C Max (±2°C, ±2%)	-
	Measurement preset	Spot: 12/Line: 12/Area: 12 Support 12 presets simultaneously	-	Spot: 12/Line: 12/Area: 12 Support 12 presets simultaneously	-
	Temperature Alarm	Support	-	Support	-
Visible	Image sensor	1/1.9" 2M CMOS	1/1.9" 2M CMOS	1/1.9" 2M CMOS	1/1.9" 2M CMOS
	Lens	6mm ~ 180mm	6mm ~ 180mm	6mm ~ 180mm	6mm ~ 180mm
	Angle of View	H: 61.2° ~ 2.32°	H: 61.2° ~ 2.32°	H: 61.2° ~ 2.32°	H: 61.2° ~ 2.32°
	Min. Illumination	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)
	IR Distance	150m	150m	150m	150m
General	Frame Rate	Thermal: 30fps@1280x1024 (default)/720P Visible: 30fps@1080P (default)/720P	Thermal: 30fps@1280x1024 (default)/720P Visible: 30fps@1080P (default)/720P	Thermal: 30fps@1280x1024 (default)/720P Visible: 30fps@1080P (default)/720P	Thermal: 30fps@1280x1024 (default)/720P Visible: 30fps@1080P (default)/720P
	Pan/Tilt Range	300 presets Pan: 0° ~ 360°endless Tilt: -20° ~ 90°	300 presets Pan: 0° ~ 360°endless Tilt: -20° ~ 90°	300 presets Pan: 0° ~ 360°endless Tilt: -20° ~ 90°	300 presets Pan: 0° ~ 360°endless Tilt: -20° ~ 90°
	Intelligent Video	IVS, Fire detection & alarm	IVS, Fire detection & alarm	IVS, Fire detection & alarm	IVS, Fire detection & alarm
	Compatibility	ONVIF PSIA CGI	ONVIF PSIA CGI	ONVIF PSIA CGI	ONVIF PSIA CGI
	Ingress Protection	IP66	IP66	IP66	IP66
	Working Environment	-40°C ~ +70°C	-40°C ~ +70°C	-40°C ~ +70°C	-40°C ~ +70°C
	Power	AC24V, <38W	AC24V, <38W	AC24V, <38W	AC24V, <38W

※ IVS: Tripwire, Intrusion, Object distinguish, Abandon detection, Missing detection

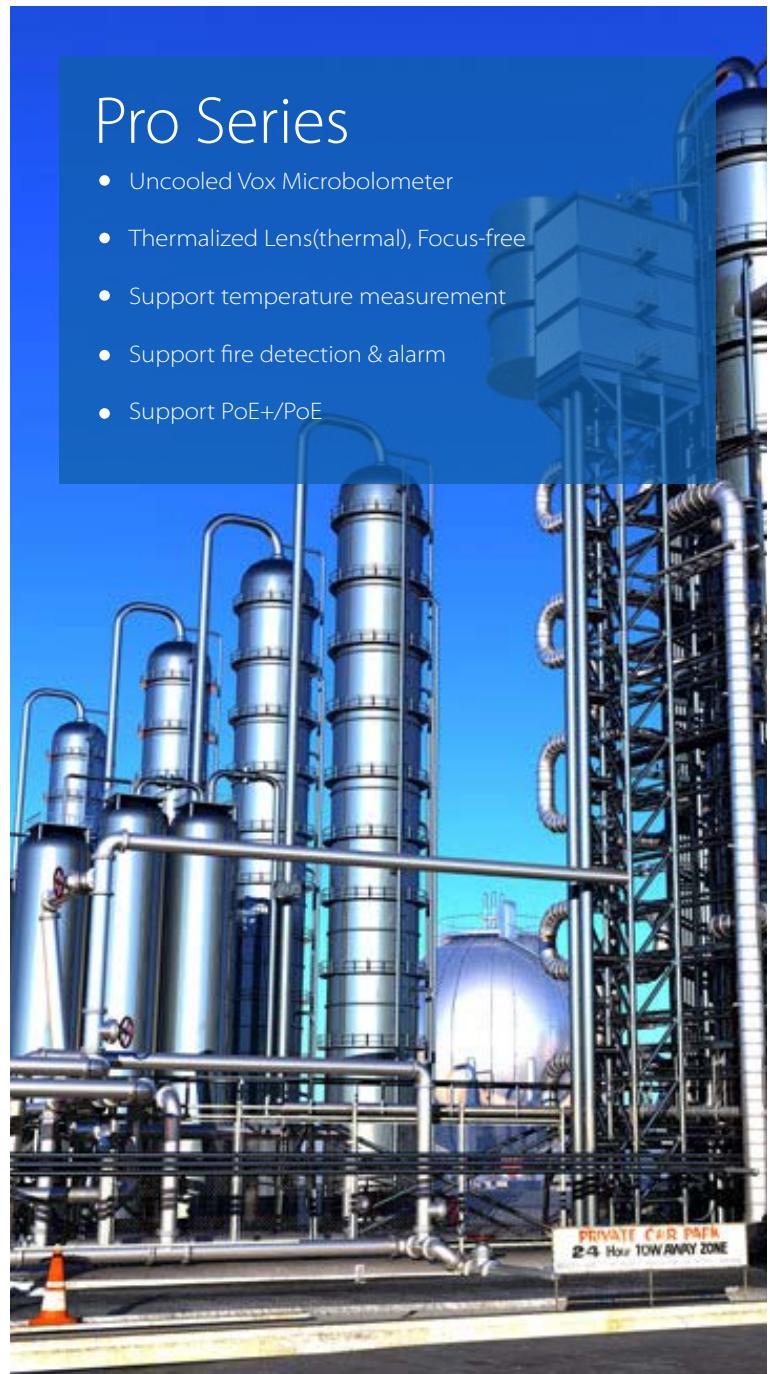
THERMAL CAMERA

Ultra Series

	Hybrid Bullet Thermal			
Model	DH-TPC-BF8620A-T	DH-TPC-BF8620A	DH-TPC-BF8320A-T	DH-TPC-BF8320A
	 		 	
Image Sensor	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer
Effective Pixels	640(H) x 512(V)	640(H) x 512(V)	336(H) x 256(V)	336(H) x 256(V)
Sensitivity	<40mK@f/1.0	<40mK@f/1.0	<40mK@f/1.0	<40mK@f/1.0
Lens	19mm/35mm/50mm/60mm	19mm/35mm/50mm/60mm	19mm/35mm/50mm/60mm	19mm/35mm/50mm/60mm
Angle of View	H: 32°/18°/12.4°/10.4°	H: 32°/18°/12.4°/10.4°	H: 17°/9.3°/6.5°/5°	H: 17°/9.3°/6.5°/5°
Thermal Temperature Range & Accuracy	Low Gain: -40°C ~ +550°C High Gain: -40°C ~ +160°C Max (±2°C, ±2%)	-	Low Gain: -40°C ~ +550°C High Gain: -40°C ~ +160°C Max (±2°C, ±2%)	-
Measurement preset	Spot: 12/Line: 12/Area: 12 Support 12 presets simultaneously	-	Spot: 12/Line: 12/Area: 12 Support 12 presets simultaneously	-
Temperature Alarm	Support	-	Support	-
Visible Image sensor	1/1.9" 2M CMOS	1/1.9" 2M CMOS	1/1.9" 2M CMOS	1/1.9" 2M CMOS
Lens	6mm ~ 180mm	6mm ~ 180mm	6mm ~ 180mm	6mm ~ 180mm
Angle of View	H: 61.2° ~ 2.32°	H: 61.2° ~ 2.32°	H: 61.2° ~ 2.32°	H: 61.2° ~ 2.32°
Min. Illumination	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)	0.001Lux@F1.5 (Color) 0.0001Lux@F1.5 (B/W) 0Lux@F1.5 (IR On)
IR Distance	150m	150m	150m	150m
General Frame Rate	Thermal: 30fps@1280x1024 (default)/720P Visible: 30fps@1080P (default)/720P	Thermal: 30fps@1280x1024 (default)/720P Visible: 30fps@1080P (default)/720	Thermal: 30fps@1280x1024 (default)/720P Visible: 30fps@1080P (default)/720P	Thermal: 30fps@1280x1024 (default)/720P Visible: 30fps@1080P (default)/720P
Tri-mode Video Output	IP/HD-CVI/Analog	IP/HD-CVI/Analog	IP/HD-CVI/Analog	IP/HDCVI/Analog
Intelligent Video	IVS, Fire detection & alarm	IVS, Fire detection & alarm	IVS, Fire detection & alarm	IVS, Fire detection & alarm
Compatibility	ONVIF PSIA CGI	ONVIF PSIA CGI	ONVIF PSIA CGI	ONVIF PSIA CGI
Ingress Protection	IP67	IP67	IP67	IP67
Working Environment	-40°C ~ +70°C	-40°C ~ +70°C	-40°C ~ +70°C	-40°C ~ +70°C
Power	AC24V, <50W	AC24V, <50W	AC24V, <50W	AC24V, <50W

※ IVS: Tripwire, Intrusion, Object distinguish, Abandon detection, Missing detection

THERMAL CAMERA



		Speed Dome Thermal			
		DH-TPC-SD5600-T	DH-TPC-SD5600	DH-TPC-SD5300-T	DH-TPC-SD5300
Model					
	Image Sensor	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer
	Effective Pixels	640(H) x 512(V)	640(H) x 512(V)	336(H) x 256(V)	336(H) x 256(V)
	Thermal Sensitivity	<40mK@f/1.0	<40mK@f/1.0	<40mK@f/1.0	<40mK@f/1.0
	Lens	13mm/19mm	13mm/19mm	13mm/19mm	13mm/19mm
	Angle of View	H: 45°/32°	H: 45°/32°	H: 25°/17°	H: 25°/17°
	Digital Zoom	24X	24X	16X	16X
	Temperature Range & Accuracy	Low Gain: -40°C ~ +550°C High Gain: -40°C ~ +160°C Max (±2°C, ±2%)	-	Low Gain: -40°C ~ +550°C High Gain: -40°C ~ +160°C Max (±2°C, ±2%)	-
	Measurement Preset	Spot: 12/Line: 12/Area: 12 Support 12 presets simultaneously	-	Spot: 12/Line: 12/Area: 12 Support 12 presets simultaneously	-
	Temperature Alarm	Support	-	Support	-
Thermal	Video Compression	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
	Frame Rate	30fps@1280x1024 (default)/720P	30fps@1280x1024 (default)/720P	30fps@1280x1024 (default)/720P	30fps@1280x1024 (default)/720P
	Tri-mode Video Output	IP/HDCVI/Analog	IP/HDCVI/Analog	IP/HDCVI/Analog	IP/HDCVI/Analog
	Pan/Tilt Range	300 presets Pan: 0° ~ 360°endless Tilt: -15° ~ 90°	300 presets Pan: 0° ~ 360°endless Tilt: -15° ~ 90°	300 presets Pan: 0° ~ 360°endless Tilt: -15° ~ 90°	300 presets Pan: 0° ~ 360°endless Tilt: -15° ~ 90°
	Preset Speed	Pan: 0.1° ~ 240° /s Tilt: 0.1° ~ 120° /s	Pan: 0.1° ~ 240° /s Tilt: 0.1° ~ 120° /s	Pan: 0.1° ~ 240° /s Tilt: 0.1° ~ 120° /s	Pan: 0.1° ~ 240° /s Tilt: 0.1° ~ 120° /s
	Intelligent Video	IVS, Fire detection & alarm	IVS, Fire detection & alarm	IVS, Fire detection & alarm	IVS, Fire detection & alarm
	Compatibility	ONVIF PSIA CGI	ONVIF PSIA CGI	ONVIF PSIA CGI	ONVIF PSIA CGI
	Ingress Protection	IP66	IP66	IP66	IP66
	Working Environment	-40°C ~ +60°C	-40°C ~ +60°C	-40°C ~ +60°C	-40°C ~ +60°C
	Power	AC24V/PoE+, <17W	AC24V/PoE+, <17W	AC24V/PoE+, <17W	AC24V/PoE+, <17W

※ IVS: Tripwire, Intrusion, Object distinguish, Abandon detection, Missing detection

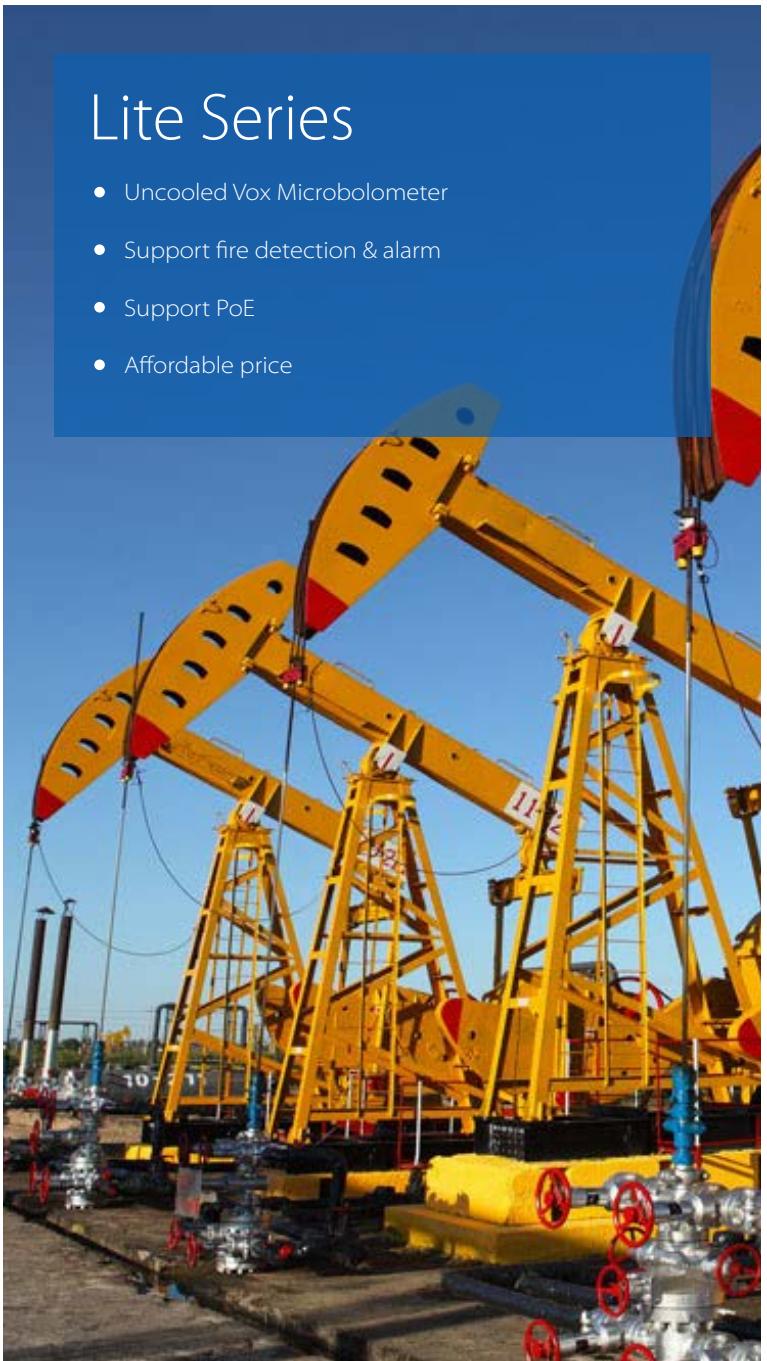
THERMAL CAMERA

Pro Series

		Bullet Thermal			
Model	DH-TPC-BF5600-T	DH-TPC-BF5600	DH-TPC-BF5300-T	DH-TPC-BF5300	
	 				 
Thermal	Image sensor	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer	Uncooled Vox Microbolometer
	Effective Pixels	640(H) x 512(V)	640(H) x 512(V)	336(H) x 256(V)	336(H) x 256(V)
	Thermal Sensitivity	<40mK@f/1.0	<40mK@f/1.0	<40mK@f/1.0	<40mK@f/1.0
	Lens	9mm/13mm/19mm/25mm/35mm	9mm/13mm/19mm/25mm/35mm	7.5mm/13mm/19mm/25mm/35mm	7.5mm/13mm/19mm/25mm/35mm
	Angle of View	H: 69°/45°/32°/25°/18°	H: 69°/45°/32°/25°/18°	H: 45°/25°/17°/13°/9.3°	H: 45°/25°/17°/13°/9.3°
	Digital Zoom	24X	24X	16X	16X
	Temperature Range & Accuracy	Low Gain: -40°C ~ +550°C High Gain: -40°C ~ +160°C Max (±2°C, ±2%)	-	Low Gain: -40°C ~ +550°C High Gain: -40°C ~ +160°C Max (±2°C, ±2%)	-
	Temperature Measurement preset	Spot: 12/Line: 12/Area: 12 Support 12 presets simultaneously	-	Spot: 12/Line: 12/Area: 12 Support 12 presets simultaneously	-
	Temperature Alarm	Support	-	Support	-
	Video Compression	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG	H.264/MJPEG
General	Frame Rate	30fps@1280x1024 (default)/720P	30fps@1280x1024 (default)/720P	30fps@1280x1024 (default)/720P	30fps@1280x1024 (default)/720P
	Tri-mode Video Output	IP/HDCVI/Analog	IP/HDCVI/Analog	IP/HDCVI/Analog	IP/HDCVI/Analog
	Intelligent Video	IVS, Fire detection & alarm	IVS, Fire detection & alarm	IVS, Fire detection & alarm	IVS, Fire detection & alarm
	Compatibility	ONVIF PSIA CGI	ONVIF PSIA CGI	ONVIF PSIA CGI	ONVIF PSIA CGI
	Ingress Protection	IP67	IP67	IP67	IP67
	Working Environment	-40°C ~ +60°C	-40°C ~ +60°C	-40°C ~ +60°C	-40°C ~ +60°C
	Power	AC24V/DC12V/PoE, <7W	AC24V/DC12V/PoE, <7W	AC24V/DC12V/PoE, <7W	AC24V/DC12V/PoE, <7W

※ IVS: Tripwire, Intrusion, Object distinguish, Abandon detection, Missing detection

THERMAL CAMERA



Lite Series

- Uncooled Vox Microbolometer
- Support fire detection & alarm
- Support PoE
- Affordable price

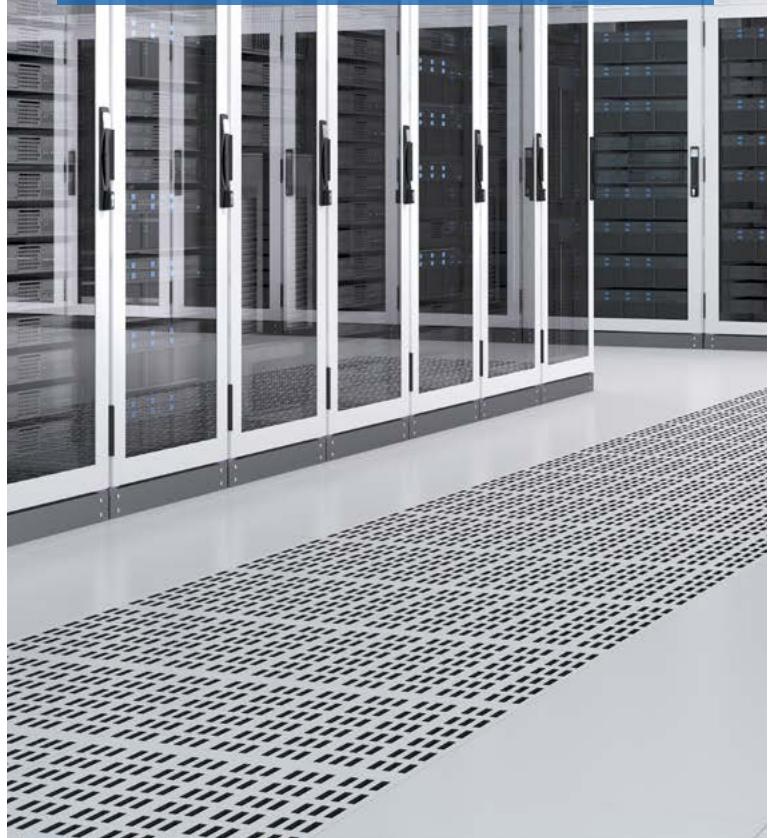
Lite Series		Mini Hybrid Bullet Thermal DH-TPC-BF2120
Model		
Thermal	Image Sensor	Uncooled Vox Microbolometer
	Effective Pixels	160(H) x 120(V)
	Sensitivity	≤50mK@f/1.1
	Lens	1mm
	Angle of View	56°
	Temperature Range & Accuracy	-
	Measurement Preset	-
	Temperature Alarm	-
Visible	Image Sensor	1/3" 2M CMOS
	Lens	4mm
	Angle of View	H: 74.8°
	Min. Illumination	0.005Lux@F1.8 (Color) 0.0005Lux@F1.8 (B/W) 0Lux@F1.8 (IR On)
	IR Distance	30m
General	Frame Rate	Thermal: 1280x960 (default)/ 720P @30fps Visible: 1080P (default)/720P@30fps
	Video Output	HD/SD Switchable
	Intelligent Video	IVS, Fire detection & alarm
	Compatibility	ONVIF PSIA CGI
	Ingress Protection	IP67
	Working Environment	-30°C ~ +55°C
	Power	DC12V/1.5A ± 15%, PoE, <12W

※ IVS: Tripwire, Intrusion, Object distinguish, Abandon detection, Missing detection

NVR

NVR

- Powerful Intel Multi-core CPU features perfect processing capability
- High standard industrial structure design creates high reliable products
- Support temperature measurement & alarm
- Support heat source detection & alarm
- Advanced intelligent functions: IVS/Face Detection



NVR

	NVR616DR-128-4KS2	NVR608R-64-4KS2	NVR608-32-4KS2
Model			
Processor	Intel Quad Core CPU	Intel Quad Core CPU	Intel Dual Core CPU
Video Compression	H.265/H.264/MJPEG	H.265/H.264/MJPEG	H.265/H.264/MJPEG
IP Video Inputs	128 channel	64 channel	32 channel
Max Input/Record	384Mbps/384Mbps	384Mbps/384Mbps	384Mbps/384Mbps
Max Decoding	4ch@4K/16ch@1080P	4ch@4K/16ch@1080P	4ch@4K/16ch@1080P
Display	2HDMI (Optional: 6HDMI), VGA, LCD	2HDMI, VGA	2HDMI, VGA
Max HDD	16x6TB	8x6TB	8x6TB
RAID	0/1/5/6/10	0/1/5/6/10	0/1/5/6/10
eSATA/Mini SAS	1/1	1/-	1/-
Audio In/Out	1/1, 2-way	1/1, 2-way	1/1, 2-way
Alarm In/Out	16/8	16/8	16/8
Ethernet	4 Gigabit Ports, 2 Gigabit Fiber Optical Interface	2 Gigabit Ports	2 Gigabit Ports
PoE	-	-	-
USB	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0	2 USB3.0, 2 USB2.0
Power	AC100V ~ 240V, Redundant <60W (Without HDD)	AC100V ~ 240V, Redundant <20W (Without HDD)	AC100V ~ 240V <20W (Without HDD)
Intelligent Video	Tripwire, Intrusion, Abandoned/Missing, Scene Change, Face Detection, People Counting, Heat Map	Tripwire, Intrusion, Abandoned/Missing, Scene Change, Face Detection, People Counting, Heat Map	Tripwire, Intrusion, Abandoned/Missing, Scene Change, Face Detection, People Counting, Heat Map
Star Features	Support temperature measurement & alarm	Support temperature measurement & alarm	Support temperature measurement & alarm

ACCESSORIES

TPC-BF5300/5600(-T)					TPC-BF2120(-T)					TPC-BF8320A/8620A(-T)						
Model	PFA121	PFA121+PFA152		Model	PFA122	PFA122+PFA152		Model	PFA120	PFA140		PFA150	PFA151			
Mount	Junction box	Pole mount		Mount	Junction box	Pole mount		Mount	Junction box	Power box		Pole mount	Corner mount			

TPC-SD5300/5600(-T)											
Model	PFA110+PFB300S	PFA110+PFB300S+PFA120		PFA110+PFB300C		PFA150	PFA151	PFA140		PFA110+PFB303S	
Mount	Wall mount	Junction box		Ceiling mount		Pole mount	Corner mount	Power box		Parapet mount	

TPC-SD8320/8620(-T)											
Model	PFA110+PFB300S	PFA110+PFB300S+PFA120		PFA110+PFB300C		PFA150	PFA151	PFA140		PFA110+PFB303S	
Mount	Wall mount	Junction box		Ceiling mount		Pole mount	Corner mount	Power box		Parapet mount	

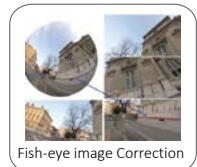
Power Supply					Tool					
Model	DC Power		AC Power		Model	PFM880	PFM881	PFM886-10/20	PFM900	
Apperance					Apperance					
Description	Wall mount	Junction box	Ceiling mount	Pole mount	Corner mount	Description	Wall mount	Junction box	Ceiling mount	Pole mount

VIDEO MANAGEMENT SOFTWARE

Smart PSS

Smart Professional Surveillance System

Dahua Security Management Platform



Fish-eye image Correction



People Counting



Video Intercom



Access Control System



Attendance

DMSS

Digital Mobile Surveillance System

Monitor Anything with Your SmartPhone or Tablet Anytime, Anywhere



iOS
iOS 6.0 and above



Android 4.0
and above

Supported OS	Windows/Mac OSX
Supported Devices	CCTV/VDP/ACS/TPC
Number of Devices	256
Number of Channels	2000
Number of Screens	4
Recording Channels	32
Languages	35
Supported VTO	100
Supported VTH	10000
Supported Access Controllers	100
Supported Doors	1000
Basic Functions	Preview, Record, Playback, Export, Snapshot, Instant playback
Smart Features	Fisheye correction, People counting, Smart search, E-Map, E-PTZ, Smart Track, IVS, Face Detection
Smart Building	Video Intercom, Access Control, Attendance

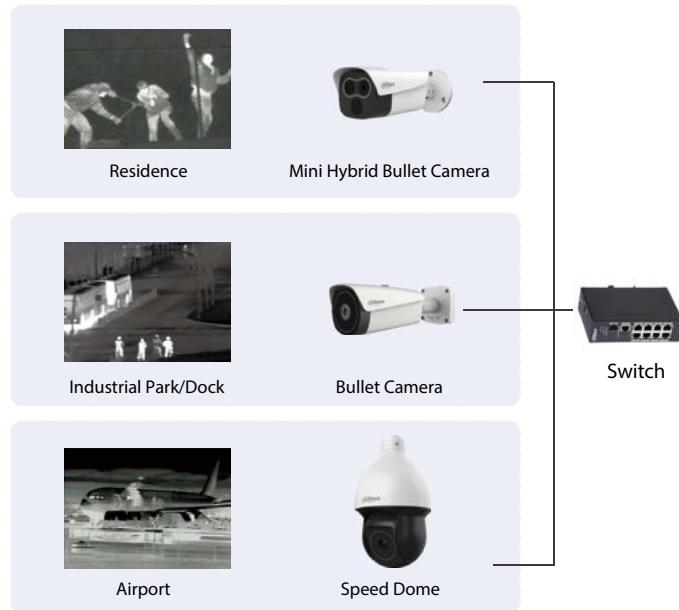
Devices	Supported Devices	DVR, NVR, IPC, VTO, TPC
	Add Device Method	IP/domain, SN, Import from cloud
	Features	Remote config, Alarm config, HDD info, Share device list
Video	Compression Format	H.265/H.264/MPEG-4/JPEG
	Display Resolution	Up to 1920 x 1080
Live Preview	Max. Channels Can Be Opened at The Same Time	256
	Features	Snapshot, Record, Instant playback, PTZ, Stream control, Talk, Audio, Alarm, Color, Favorites, Remember channels
Playback	Time Period of Video Playback	72 hours
	Features	Snapshot, Record, Faster/slower play, Play next frame, Cut
Alarm Push	Alarm Type	Motion detect, Camera masking, Local alarm, Disk alarm(no disk, Low space, disk Error), Face detection, Ivs alarm
	Push Type	Video, Preview, Image

THERMAL SOLUTION



PERIMETER FACILITY

Residence / Industrial Park / Dock / Airport



Key Features

- High accuracy of intelligent analysis
- All-weather monitoring
- End to end solution
- Support alarm linkage

Recommend models

Residence



BF2120

Industry Park/Dock

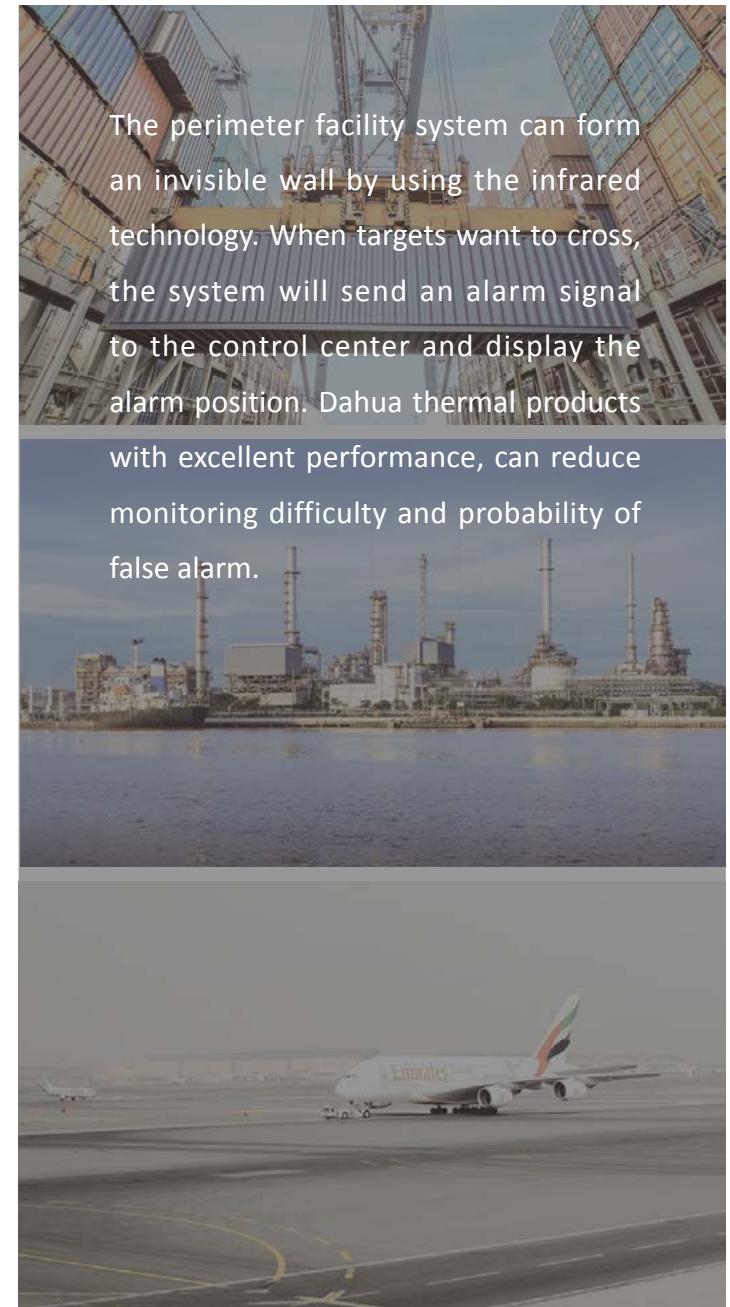


BF5600/BF5300

Airport



SD5600/SD5300

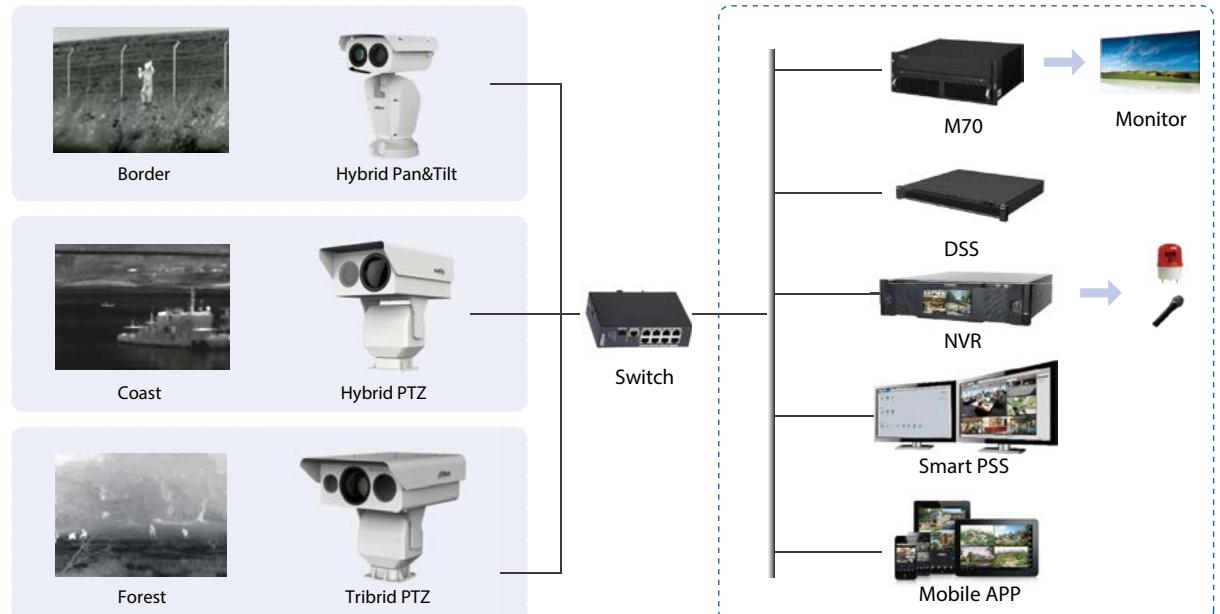
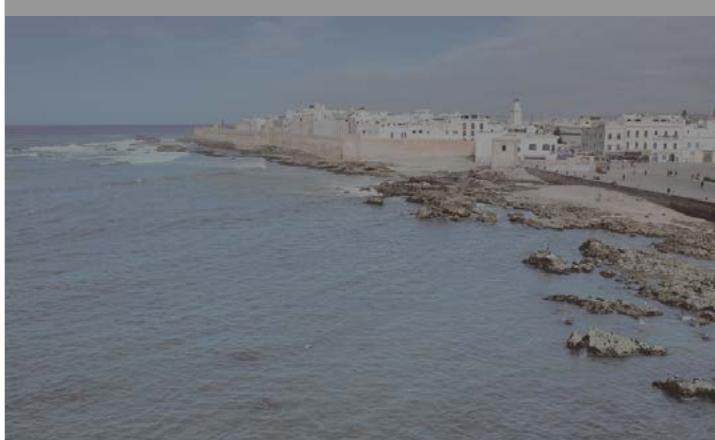


BORDER & COAST

Border/ Coast/ Forest



Border and Coastal defense monitoring is an important part of a country's national defense. Dahua thermal products feature long range monitoring, eliminating blind spot and wide monitoring coverage.



Key Features

- Long distance detection
- Fire detection
- End to end solution
- Reliability under harsh environments

Recommend models

Border



PT8620A/PT8320A

Coast



PT8620B/PT8320B

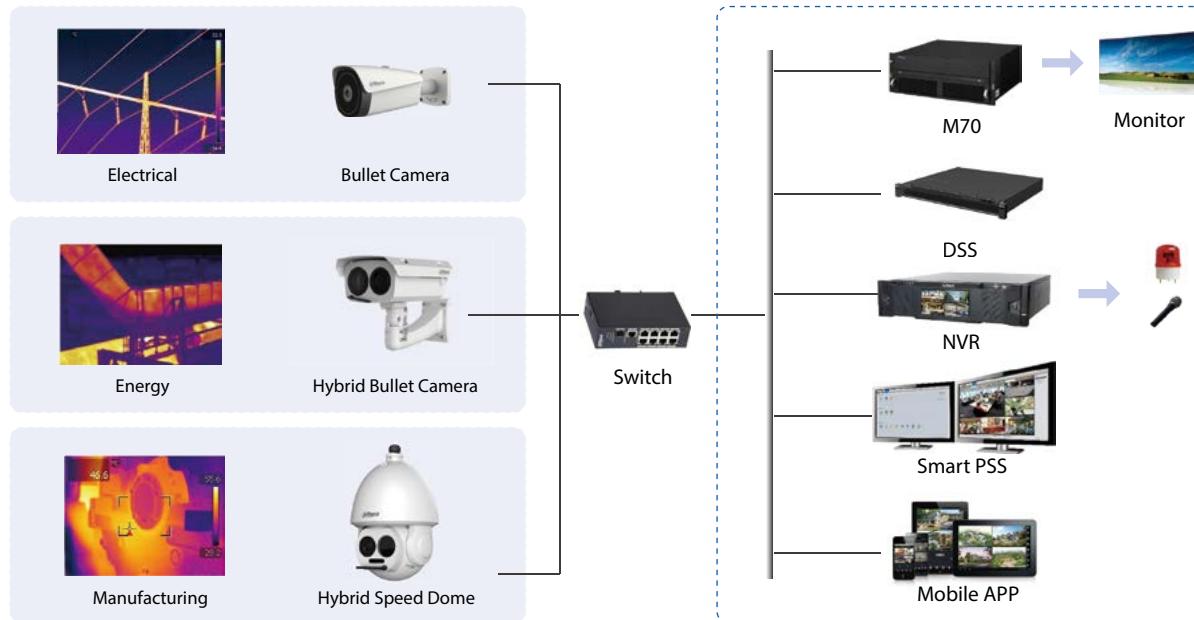
Forest



PT8620C/PT8320C

INDUSTRY

Electrical / Energy / Manufacturing



Key Features

- High accuracy of temperature measurement
- Over temperature alarm linkage
- End to end solution
- Easy operation

Recommend models

Electrical



BF5600-T/BF5300-T

Energy



BF8620A-T/BF8320A-T

Manufacturing



SD8620-T/SD8320-T



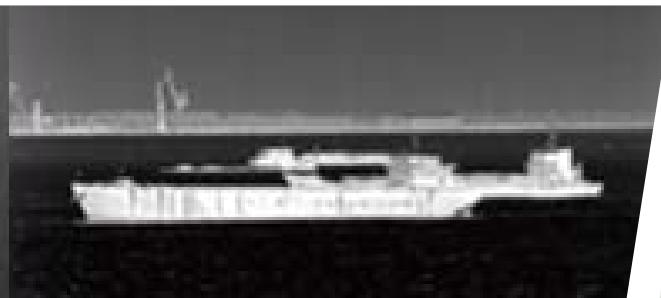
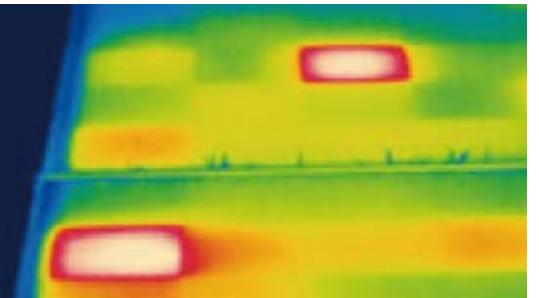
MORE APPLICATIONS

Solar Power System

Solar panels evaluation

The temperature monitoring of solar panels

Evaluate the solar panels to prevent overheating



Transportation Industry

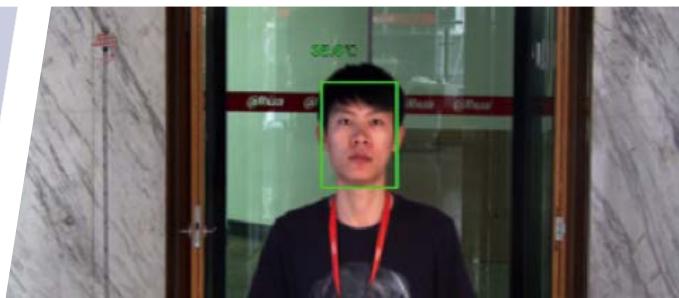
Flow detection

Monitor 24 hours in all conditions

Inspection and Quarantine

Non-contacting temperature rapid screening

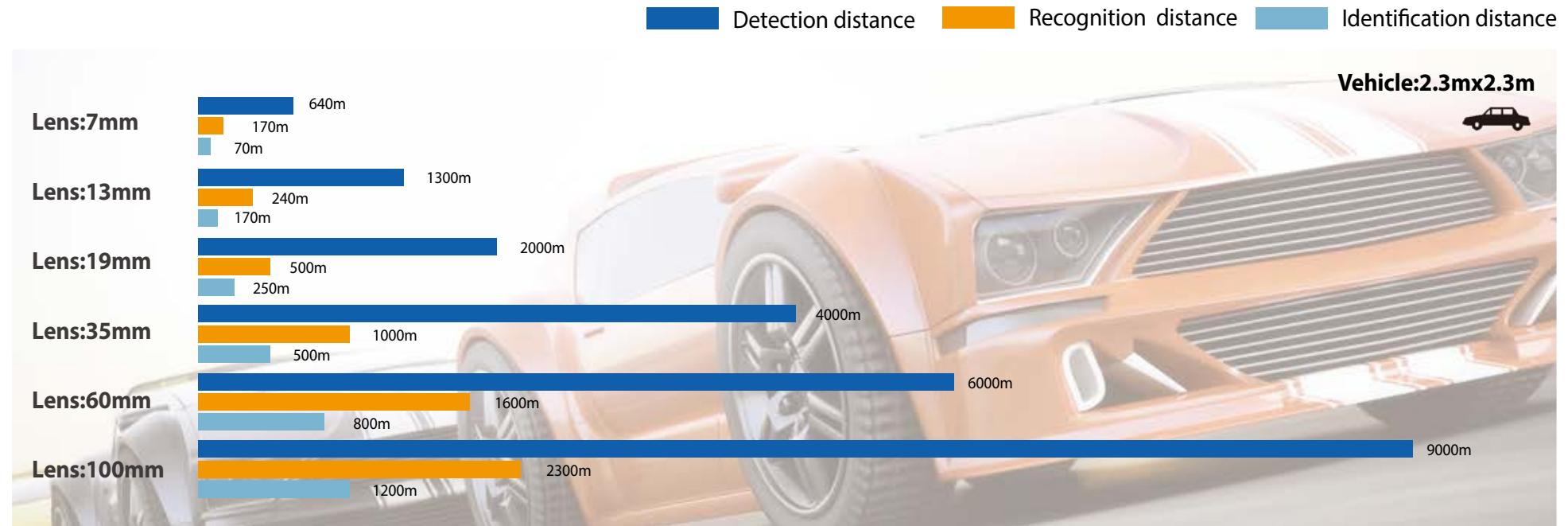
Make the epidemic prevention controlling more efficiently



Fire Rescue

Help firefighters find the injured people behind the heavy smoke and put out the fire.

EFFECTIVE DISTANCE



*Note: Effective distance values shown above are nominal values and should be used as estimates only. Exact value calculations depend on a wide variety of conditions.



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* Design and specifications are subject to change without notice.

Smart Thermal Imaging-01,Apr 2017



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TECHNOLOGY

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