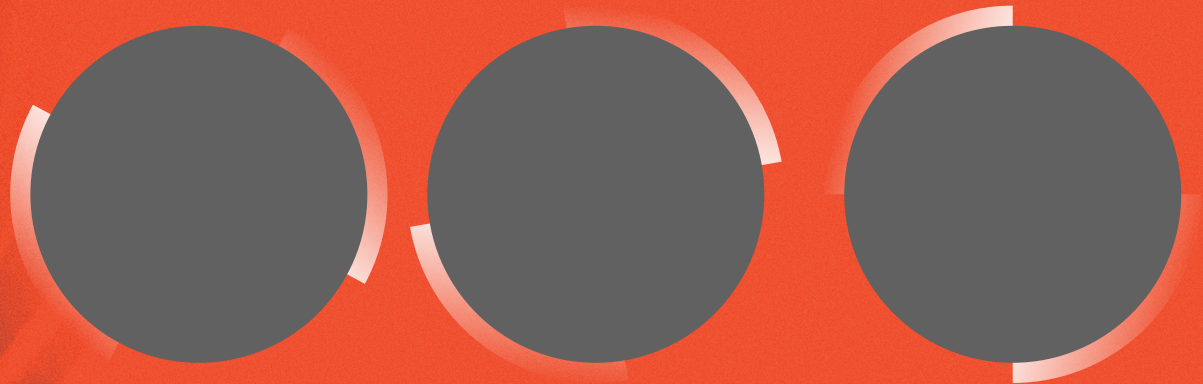


The ThermTec logo is positioned in the top right corner. It features the word "ThermTec" in a white, sans-serif font. The letter "T" is stylized with a horizontal bar at the top.

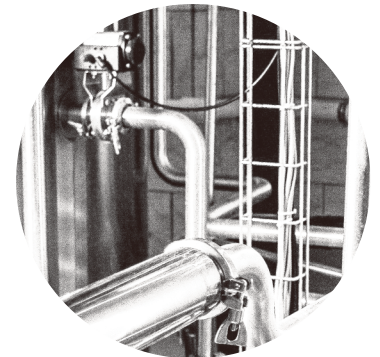
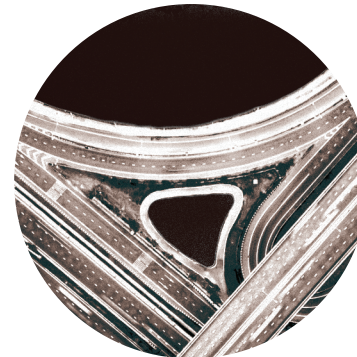
ThermTec



Thermography Products
and Solutions

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Products and Solutions	05
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Fire Prevention



Smart Grid

Applications



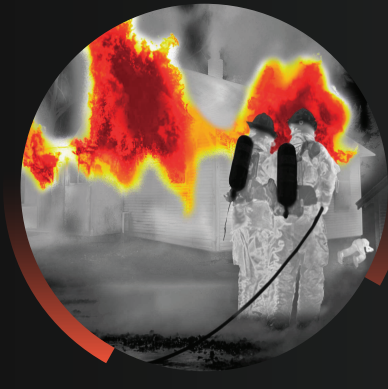
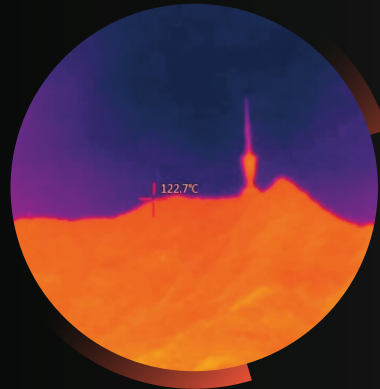
Intelligent Transportation



Industrial Inspection

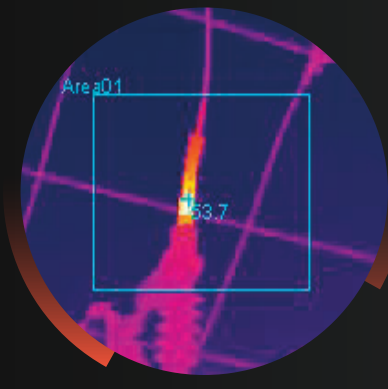
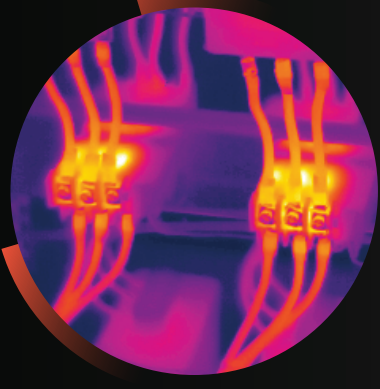
Fire Prevention

ThermTec provides intelligent fire prevention solution with smart thermal and visible imaging system that operates 24/7, all weather for detecting any potential fire hazard. ThermTec's accurate alarm can help prevent the fire occurrence and allow timely response before fire spread.



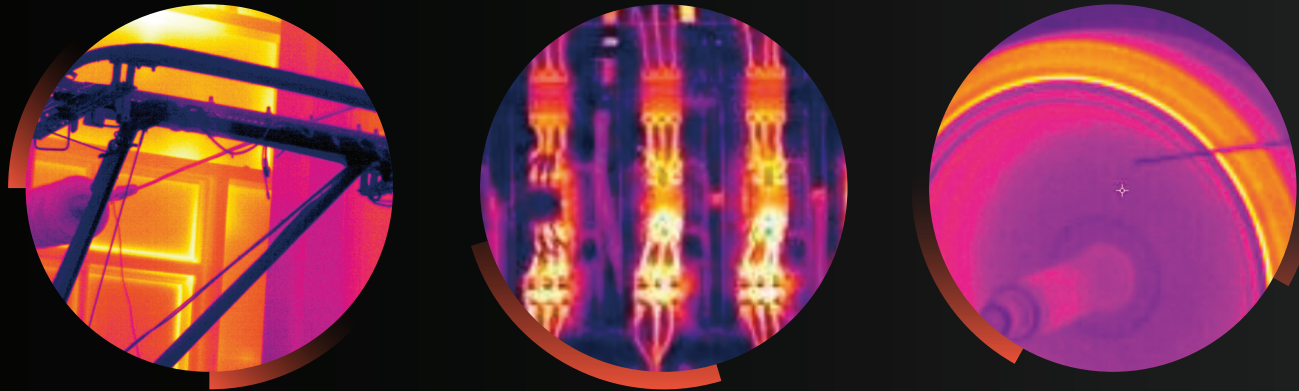
Smart Grid

ThermTec adopts thermography technology in Smart Grid to monitor the operating status of the devices both indoors or outdoors, and determine trends where early detection of failure is possible, so as to enhance the reliability of electricity and power networks.



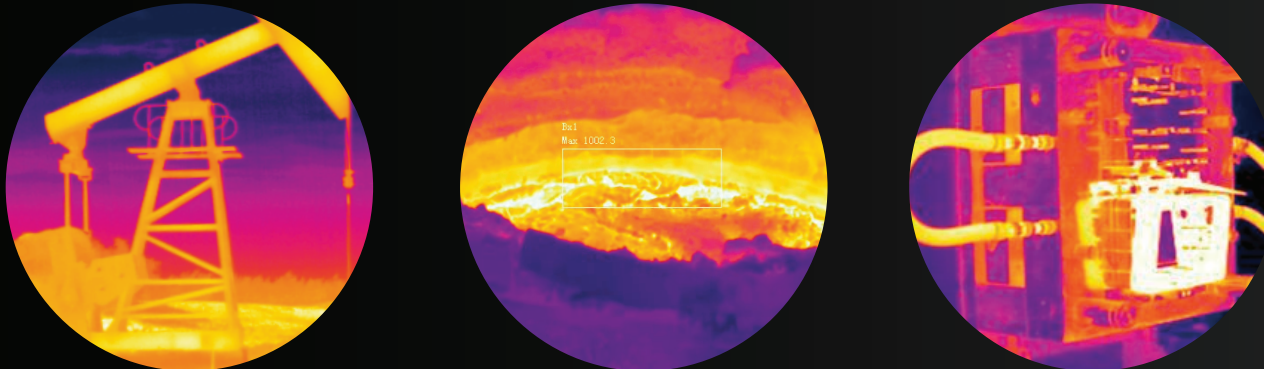
Intelligent Transportation

ThermTec delivers intelligent public transportation solutions that monitor traffic flow and detect initial signs of failure for railway, subway and expressway system in time for protecting public safety.



Industrial Inspection

Thermography technology is essential to the safety, quality, and cost-effectiveness of multiple applications within the industrial sector, which helps to map out the heat in facilities and materials, and monitor and control temperature precisely to detect the abnormal conditions in early stage.



QG-T Series

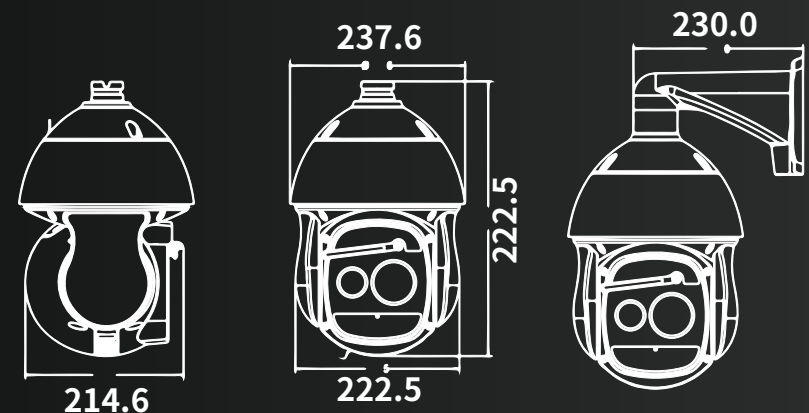
Dual Spectrum High Speed PTZ Camera



Product Features

- High image quality: 12μm thermal sensor, 2MP 1/2.8" CMOS visible sensor;
- Excellent image enhancement: AGC, IDE;
- Protection grade: IP66;
- Superior environmental adaptability: Applicable for extreme weather, including darkness, rain, fog, smog and etc.;
- Continuous 360° rotation, wiper and IR range up to 50m;
- High accuracy temperature measurement range: $\pm 2^{\circ}\text{C}$.

Dimension



Specifications

Model		QG3-T			QG6-T				Model		QG3-T			QG6-T		
Thermal									Video and Audio							
Detector		VOx Uncooled FPA							Video Compression		H.264 / H.265					
Resolution/Pixel pitch		384x288/17μm			640x480/17μm				Main-Stream (Visible)		1920*1080,1280*960,1280*720					
NETD		<50mK@ 25°C							Sub-stream (Visible)		1280*720,640*480,352*288					
Spectral range		8-14μm							Main-Stream (Thermal)		720*576			640*480		
Focus Method		Manual/Motorized(auto focus)							Sub-stream (Thermal)		352*288			352*288		
Focal Length		6.6mm (QG3)	10mm	15mm	19mm	25mm	40mm	50mm	Audio compression		G.711					
FOV		QG3-T	52.6*40.7	37.5*28.6	24.5*18.5	19.4*14.6	14.8*11.1	9.3*7	7.4*5.6	Network						
		QG6-T	/	59*46	39.8*30.4	31.9*24.2	24.5*18.5	15.8*11.6	12.4*9.3	Protocols		TCP/IP,ICMP,HTTP,DHCP,DNS,RTP,RTSP,RTCP,IGMP,802.1X , ONVIF(Profiles)				
Image adjustment		Auto/Manual adjustment for contrast ratio & brightness & acutance							API		SDK, third-party management platform, ONVIF					
Uniformity correction		Auto/Manual shutter correction							Common function		Hearbet, password protection, multi-user access control					
Optical Module									Security		Support password protection, bonding MAC ID, IP filtration					
Image Sensor		1/1.8” Progressive Scan CMOS							Simultaneous Live View		10 channels					
Resolution		2560(H)×1440(V)							User/Host level		Up to 10 users, 3 levels: Administrator, Operator, General					
Focal Length&Zoom		6.5-240mm, 37X							General							
FOV		70.0-2.51(wide to narrow)							Alarm		1x ch input, 1x ch output					
IR Range		50m							Audio		1x ch input, 1x ch output					
Temperature measurement									Serial port		1x ch RS485					
Thermal image process		AGC, IDE,3DNR,HDR							Communication Interface		RJ45 10M/100M/1000M self-adaptive Ethernet					
Color Palette		Optional 9 color palettes(rust, rainbow, white/black, etc.)							Storage		Micro-SD(FT), up to 64GB					
Temperature Range		-20°C~+ 400°C							Power Supply		AC 24V,3A					
Temperature Accuracy		± 5°C							Power Consumption		<36W					
Temperature Measurement		Multiple temperature measurement rule types (points, areas, lines etc).							Work Temperature/ Humidity		-20°C~+60°C (customized -40°C), <90%RH					
PTZ									Storage temperature		-45°C ~ +75°C					
Movement range		Pan:360° continuous; Tilt:-15°~+90°							Protection		IP66					
Presets		200							Reliability		TVS 6000V lightning protection, surge protection, voltage transient protection					
Auto Horizontal Scan		Preset patrol / Auto line scanning & etc							Material		Aluminium alloy					
									Dimension		Ø237.6mm*373mm					
									Weight		<5Kg					

CC-T Series

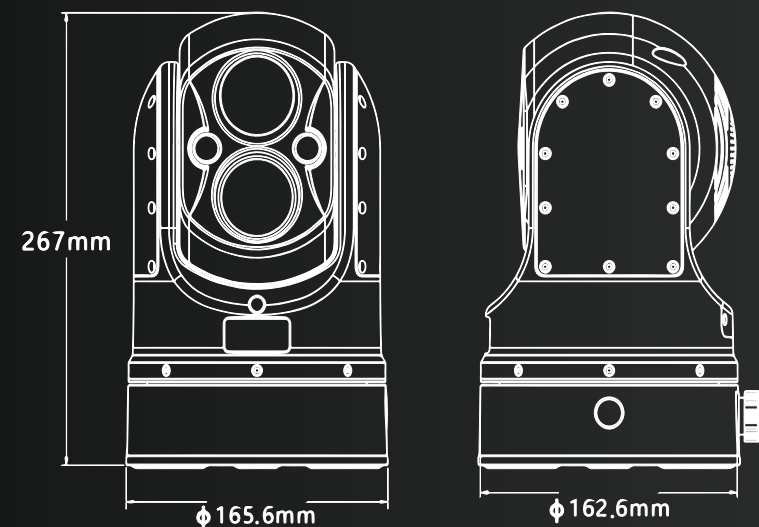
Dual Spectrum Thermometry Maritime PTZ Camera



Product Features

- Built-in high sensitivity infrared thermal camera which can realize clear infrared images without any light. It is perfect for dark night voyage.
- High accuracy temperature measurement range: $\pm 2^{\circ}\text{C}$;
- Design of the magnetic composite sucker, built-in large capacity battery, simple operation with the one-key deployment;
- Real-time WiFi data transmission;
- Compact design, lightweight PTZ.

Dimension



Specifications

Model		CC3-T			CC6-T		Model		CC3-T			CC6-T	
Thermal						Video and Audio							
Detector		VOx Uncooled FPA						Main-Stream (Thermal)		720*576		640*480	
Resolution/Pixel pitch		384x288/17μm			640x480/17μm			Sub-stream (Thermal)		352*288		352*288	
NETD		<50mK@ 25℃						Audio compression		G.711			
Spectral range		8-14μm						Network					
Focus Method		Manual/Motorized(auto focus)						Protocols		TCP/IP,ICMP,HTTP,DHCP,DNS,RTP,RTSP,RTCP,IGMP,802.1X , ONVIF(ProfileS)			
Focal Length		6.6mm (CC3-T)		10mm		15mm		19mm		25mm		API	
FOV	CC3-T	52.6*40.7		37.5*28.6		24.5*18.5		19.4*14.6		14.8*11.1		API	
	CC6-T	/		59*46		39.8*30.4		31.9*24.2		24.5*18.5		Common function	
Image adjustment		Auto/Manual adjustment for contrast ratio & brightness & acutance						Security		Security			
Uniformity correction		Auto/Manual shutter correction						Simultaneous Live View		Simultaneous Live View			
Optical Module						User/Host level							
Image Sensor		1/2.8” CMOS						General					
Resolution		0.001Lux/F1.5 (color), 0.0005Lux/F1.5 (b/w)						Alarm		1x ch input, 1x ch output			
Focal Length&Zoom		1920x1080						Audio		1x ch input, 1x ch output			
FOV		5.1-127.5mm 25x optics						Serial port		1x ch RS485			
IR Range		30m						Communication Interface		RJ45 10M/100M/1000M self-adaptive Ethernet			
		PIP (within the visible video)						Storage		Micro-SD(FT), up to 64GB			
Thermal image process		AGC, IDE,3DNR,HDR						Power Supply		DC12V,3A			
Color Palette		Optional 9 color palettes(rust, rainbow, white/black, etc.)						Power Consumption		<30W			
Temperature measurement						Work Temperature/ Humidity							
Temperature Range		-20℃~+ 400℃						Storage temperature		-45℃ ~ +75℃			
Temperature Accuracy		± 2℃						Protection		IP66			
Temperature Measurement		Multiple temperature measurement rule types (points, areas, lines etc).						Reliability		TVS 6000V lightning protection, surge protection, voltage transient protection			
PTZ						Material							
Movement range		Pan:360° continuous; Tilt:-30°~~+90°						Dimension		Aluminium alloy			
Presets		200						Weight		φ165.6mmx267mm			
Auto Horizontal Scan		Preset patrol / Auto line scanning & etc.								<5Kg			
Video and Audio						Optional							
Video Compression		H.264 / H.265						Battery		Built-in battery 120Wh(with 18650 model)			
Main-Stream (Visible)		1920*1080,1280*960,1280*720						Wireless		WiFi module			
Sub-stream (Visible)		1280*720,640*480,352*288											

YS-T Series

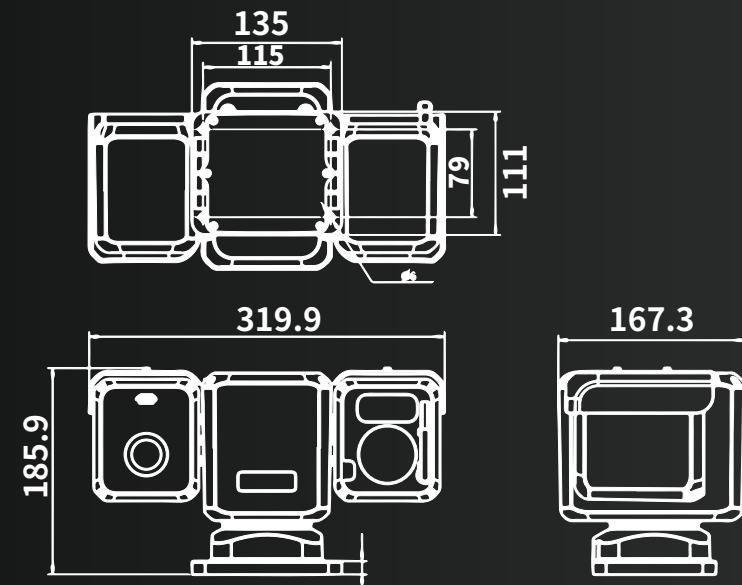
Mobile Dual Spectrum Thermometry
Mini PTZ Camera



Product Features

- More suitable for integration with robot, compact design;
- Superior environmental adaptability: Applicable for extreme weather, including darkness, rain, fog, smog and etc.;
- Multiple temperature measurements: Point, line and area range etc.;
- High accuracy temperature measurement range: $\pm 2^{\circ}\text{C}$;
- Real-time video storage, Micro-SD up to 64GB;
- Low power consumption less than 20W;
- Support temperature measurement raw output.

Dimension



Specifications

Model		YS3-T		YS6-T			Model		YS3-T		YS6-T	
Thermal						Video and Audio						
Detector		VOx Uncooled FPA					Video Compression		H.264 / H.265			
Resolution/Pixel pitch		384x288/17μm		640x480/17μm			Main-Stream (Visible)		1920*1080,1280*960,1280*720			
NETD		<50mK@ 25°C					Sub-stream (Visible)		1280*720,640*480,352*288			
Spectral range		8-14μm					Main-Stream (Thermal)		720*576		640*480	
Focus Method		Manual/Motorized(auto focus)					Sub-stream (Thermal)		352*288		352*288	
Focal Length		6.6mm (QG3)	10mm	15mm	19mm	25mm	Audio compression		G.711			
FOV		QG3-T	52.6*40.7	37.5*28.6	24.5*18.5	19.4*14.6	Network		TCP/IP,ICMP,HTTP,DHCP,DNS,RTP,RTSP,RTCP,IGMP,802.1X , ONVIF(ProfileS)			
		QG6-T	/	59*46	39.8*30.4	31.9*24.2						
Image adjustment		Auto/Manual adjustment for contrast ratio & brightness & acutance					Protocols					
Uniformity correction		Auto/Manual shutter correction					API		SDK, third-party management platform, ONVIF			
Optical Module		Auto/Manual adjustment for contrast ratio & brightness & acutance					Common function		Hearbet, password protection, multi-user access control			
							Security		Support password protection, bonding MAC ID, IP filtration			
							Simultaneous Live View		10 channels			
							User/Host level		Up to 10 users, 3 levels: Administrator, Operator, General			
Image Sensor		1/1.8” Progressive Scan CMOS					General					
Resolution		1920(H)×1080(V)					Alarm		1x ch input, 1x ch output			
Focal Length&Zoom		5.1-127.5mm, 25X					Audio		1x ch input, 1x ch output			
FOV		51.69-3.66(wide to narrow)					Serial port		1x ch RS485			
IR Range		Without					Communication Interface		RJ45 10M/100M/1000M self-adaptive Ethernet			
Image Effect		AGC, IDE,3DNR,HDR					Storage		Micro-SD(FT), up to 64GB			
							Power Supply		DC9--36V,5A			
Temperature Accuracy		Optional 9 color palettes(rust, rainbow, white/black, etc.)					Power Consumption		<20W			
Temperature measurement		-20°C~+ 400°C					Work Temperature/ Humidity		-20°C~+60°C, <90%RH			
							Storage temperature		-45°C ~ +75°C			
							Protection		IP66			
							Reliability		TVS 6000V lightning protection, surge protection, voltage transient protection			
Temperature Range		± 2°C					Material		Aluminium alloy			
Temperature Accuracy		Multiple temperature measurement rule types (points, areas, lines etc).					Dimension		168mm*320mm*186mm			
Temperature Measurement							Weight		<5.5Kg			
PTZ		Preset patrol / Auto line scanning & etc					Optional					
							Wireless		WiFi module			
Movement range		Pan:360° continuous; Tilt:-90°~+90°										
Presets		200										
Auto Horizontal Scan												

Y-T Series

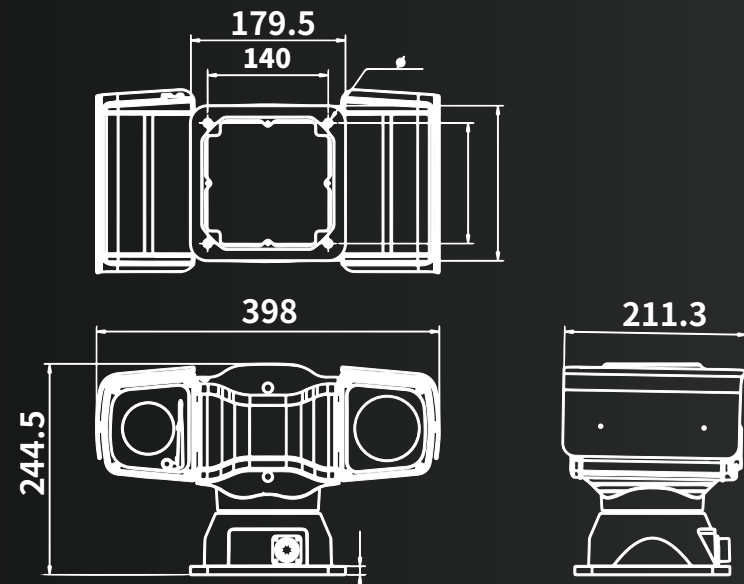
Mobile Dual Spectrum Thermometry
PTZ Camera



Product Features

- Excellent image enhancement: AGC, HDR, 3DNR, IDE;
- Multiple temperature measurements: Point, line and area range etc.;
- High accuracy temperature measurement range: ± 2 °C;
- Real-time video storage, Micro-SD up to 64GB;
- Support temperature measurement raw output;
- Integrated with shock absorber for vehicle-mounted.

Dimension

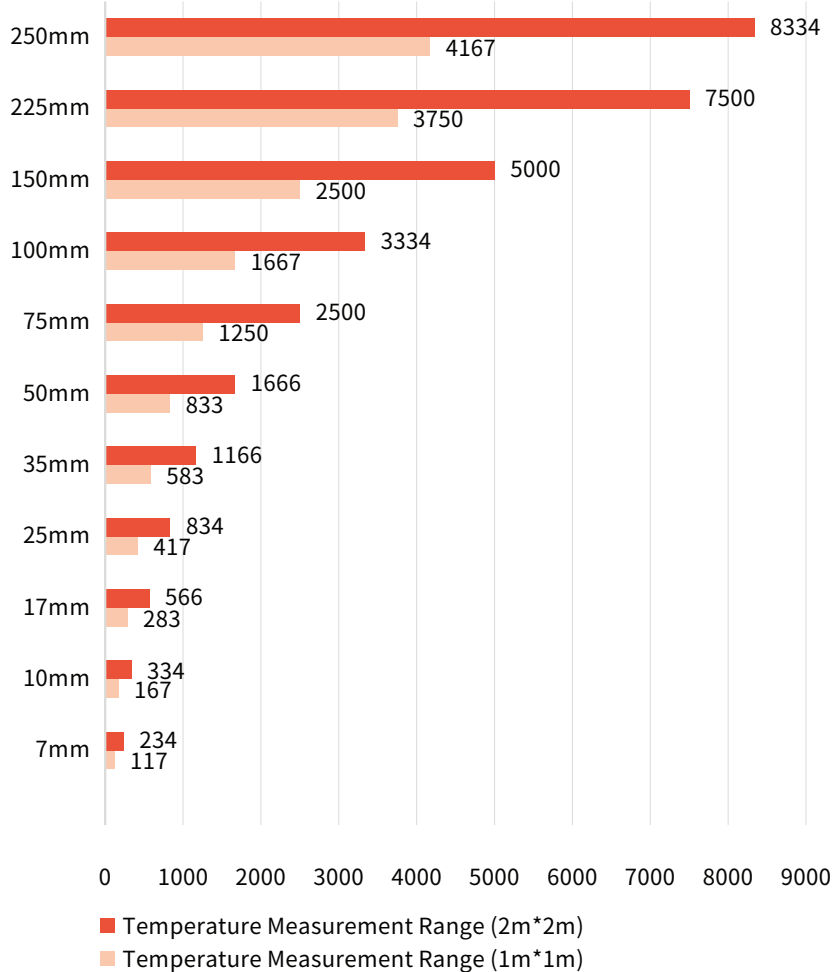


Specifications

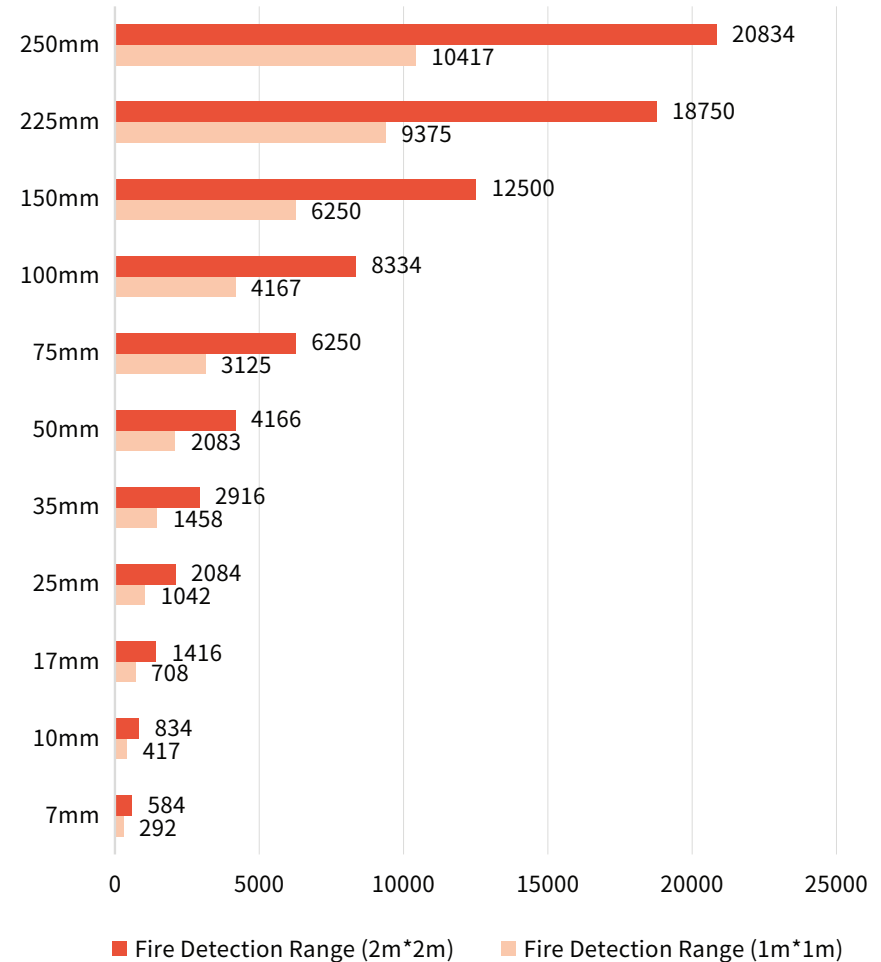
Model		Y3-T		Y6-T	Model		Y3-T	Y6-T
Thermal					Video and Audio			
Detector		VOx Uncooled FPA			Video Compression		H.264 / H.265	
Resolution/Pixel pitch		384x288/17μm	640x480/17μm		Main-Stream (Visible)		1920*1080,1280*960,1280*720	
NETD		<50mK@ 25℃			Sub-stream (Visible)		1280*720,640*480,352*288	
Spectral range		8-14μm			Main-Stream (Thermal)		720*576	640*480
Focus Method		Manual/Motorized(auto focus)			Sub-stream (Thermal)		352*288	352*288
Focal Length		25mm	40mm	50mm	Audio compression		G.711	
FOV	QG3-T	14.8*11.1	9.3*7	7.4*5.6	Network			
	QG6-T	24.5*18.5	15.8*11.6	12.4*9.3	Protocols		TCP/IP,ICMP,HTTP,DHCP,DNS,RTP,RTSP,RTCP,IGMP,802.1X , ONVIF(Profiles)	
Image adjustment		Auto/Manual adjustment for contrast ratio & brightness & acutance			API		SDK, third-party management platform, ONVIF	
Uniformity correction		Auto/Manual shutter correction			Common function		Hearbet, password protection, multi-user access control	
Optical Module					Security		Support password protection, bonding MAC ID, IP filtration	
Image Sensor		1/1.8” Progressive Scan CMOS			Simultaneous Live View		10 channels	
Resolution		1920(H)×1080(V)			User/Host level		Up to 10 users, 3 levels: Administrator, Operator, General	
Focal Length&Zoom		5.1-127.5mm, 25X			General			
FOV		51.69-3.66(wide to narrow)			Alarm		1x ch input, 1x ch output	
IR Range		Without			Audio		1x ch input, 1x ch output	
Image Effect					Serial port		1x ch RS485	
Thermal image process		AGC, IDE,3DNR,HDR			Communication Interface		RJ45 10M/100M/1000M self-adaptive Ethernet	
Temperature Accuracy		Optional 9 color palettes(rust, rainbow, white/black, etc.)			Storage		Micro-SD(FT), up to 64GB	
Temperature measurement					Power Supply		DC12V,3A	
Temperature Range		-20℃~+ 400℃			Power Consumption		<30W	
Temperature Accuracy		± 2℃			Work Temperature/ Humidity		-20℃~+60℃, <90%RH	
Temperature Measurement		Multiple temperature measurement rule types (points, areas, lines etc).			Storage temperature		-45℃ ~ +75℃	
PTZ					Protection		IP66	
Movement range		Pan:360° continuous; Tilt:-90°~+90°			Reliability		TVS 6000V lightning protection, surge protection, voltage transient protection	
Presets		200			Material		Aluminium alloy	
Auto Horizontal Scan		Preset patrol / Auto line scanning & etc			Dimension		212mm*398mm*245mm	
					Weight		<7Kg	

Smart Functions Range

Temperature Measurement Range (unit: m)



Fire Detection Range (unit: m)



Notes: The table is for reference only, and the performance may vary according to different environment.

Lens Indexes for 17 μ m Detector

Athermalized Lens

Focal Length (mm)	Effective Measuring Distance (m)
-------------------	----------------------------------

6.6mm	1m - 5.0m
-------	-----------

10mm	2.0m - 9.0m
------	-------------

15mm	2.0m - 13.0m
------	--------------

19mm	2.0m - 16.0m
------	--------------

25mm	2.0m - 24.0m
------	--------------

Motorized Lens

Focal Length (mm)	Effective Measuring Distance (m)
-------------------	----------------------------------

15mm	2.0m - 15.0m
------	--------------

25mm	2.0m - 25.0m
------	--------------

35mm	2.0m - 35.0m
------	--------------

50mm	2.0m - 40.0m
------	--------------

Notes: The table is for reference only, and the performance may vary according to different environment.



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