



Thermal Security System Products and Solutions

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Applications

A photograph of a high-security perimeter featuring multiple layers of chain-link fencing topped with razor wire. In the background, there are guardhouses and surveillance equipment under a cloudy sky.

**Perimeter
Defense**

A photograph of a large green and white maritime patrol ship, the 'ALTAIR', sailing on the water. The ship has a radar dome and various antennas on its upper decks.

**Maritime
Security**

A photograph of the front of a modern, white high-speed train with blue accents, stopped at a platform. The train's headlights are on.

**Public
Transportation
Monitoring**

A photograph of a landscape with dry, orange-brown grass in the foreground and a line of evergreen trees in the background under a cloudy sky.

**Fire
Prevention**

A photograph of a high-voltage electrical substation with several tall metal transmission towers and insulators.

**Electrical Safety
Monitoring**

A photograph of a winding dirt road through a dry, hilly landscape towards a range of snow-capped mountains in the distance.

**Border
Security**

Perimeter Defense

Perimeter defense plays a crucial role in protecting high-risk sites, commercial real estate, and factory spaces in both urban and remote locations. ThermTec provides a reliable, high-efficiency and visual system that greatly reduce the potential threats.

Solution Strengths



Dual Spectrum



Image Fusion



Motorized Focus



Multi-Target Recognition



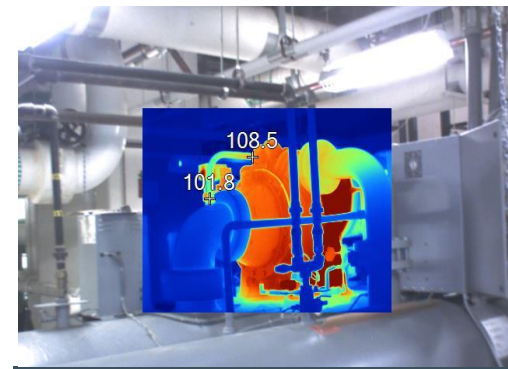
Thermal image



Visible image



Image fusion



Picture-in-picture

Public Transportation Monitoring

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

Solution Strengths



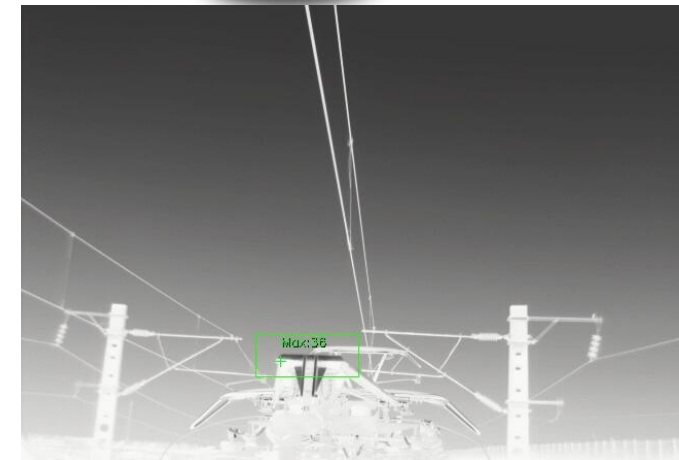
High Frame Rate



High Anti-Electromagnetic
Interference Performance



Great Image Effect



Electrical Safety Monitoring

ThermTec provides the electrical safety monitoring to survey and troubleshoot the electrical systems.

Solution Strengths



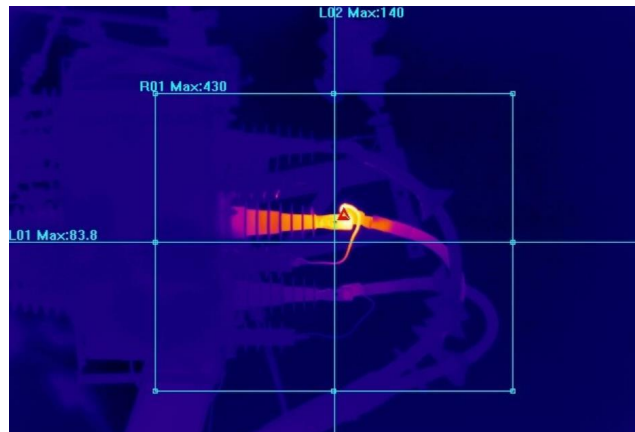
Outstanding Image Quality



High Precision



High Sensitivity



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.

Solution Strengths

Intelligent Fire Prevention

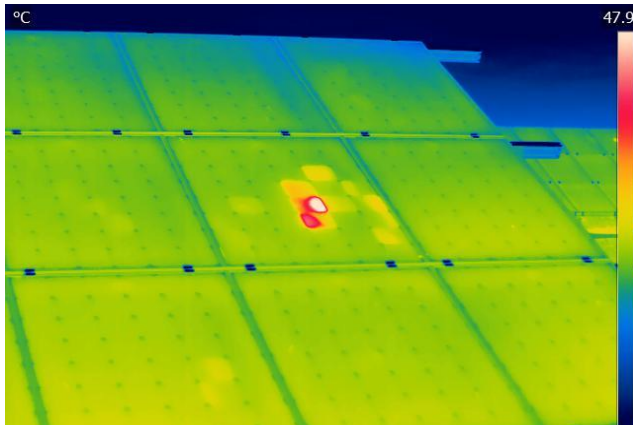


Dual spectrum monitoring allows thermal cameras to detect the early source of the fire and visibly track it in the system.

Accurate and Smart Alarming



Embedded with high temperature alarm module and intelligent algorithm, it supports flexible temperature measurement rule setting and can accurately pre-alarm the fire source in different scenes in real time.



Early fire detection of solar panel



Fire detection before spread at the early stage

Maritime Security

ThermTec Maritime thermal imaging systems work 24/7, in total darkness and brightness, through light fog and smoke. Our thermal technology is used for commercial marine, first responder, law enforcement, collision avoidance, coastal surveillance, and search and rescue missions.

Solution Strengths



Powerful Gyro Stabilization



Effective Video Analysis



Light Designed with Unique Material



Excellent Performance to Anti-Wind and Anti-Corrosion



Border Security

Border security and surveillance is a 24/7 operation that guarding against terrorism, smuggling and illegal immigration. ThermTec provides reliable long-range threat detection and positive identification of potential threats all day, all night, and in all conditions.

Solution Strengths



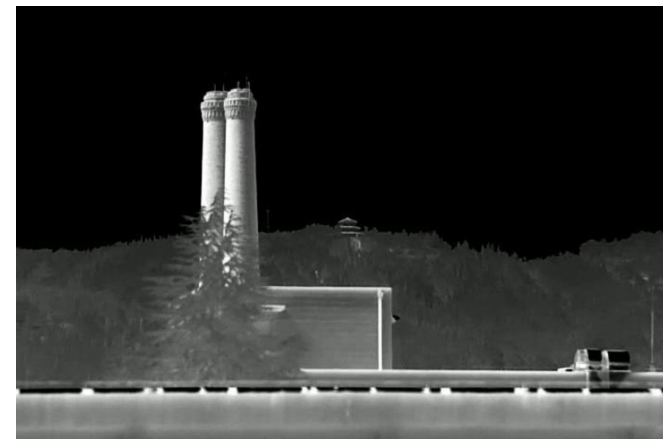
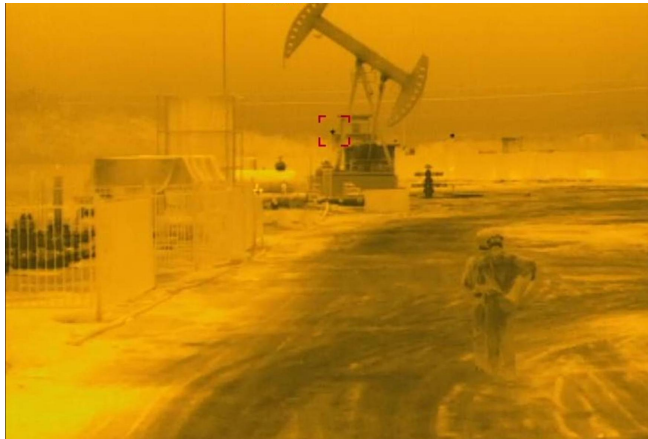
360-degree PTZ control



Long & wide range
detection coverage



Complete Customizability



Products and Solutions



HS Series

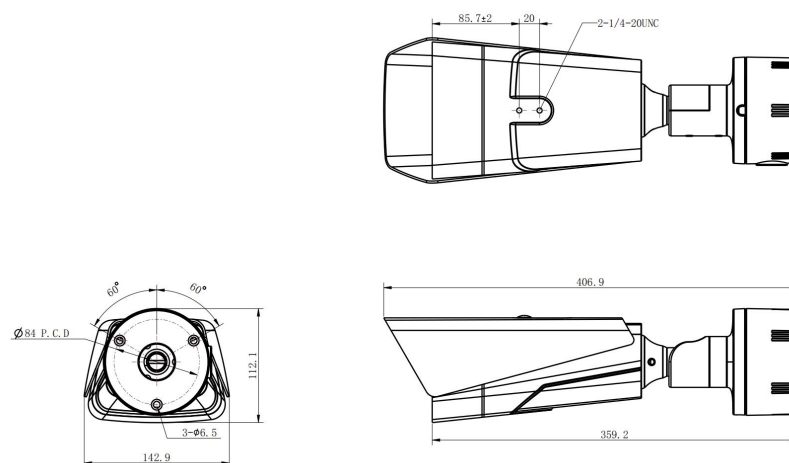
Outdoor IP Thermal Image Bullet Camera



Product Features

- High image quality: 12 μ m thermal sensor;
- Powerful behavior analysis algorithm: Line crossing, intrusion, region entry & exit;
- Thermal image smart function: Multiple targets types detection;
- Advanced fire/smoke detection algorithm;
- Excellent image enhancement: AGC, IDE;
- User-friendly platform: Standard ONVIF protocol, fast compatible with the third-party platform;
- Superior environmental adaptability: Applicable for extreme weather, including darkness, rain, fog, smog and etc.;
- Complete customizability.

Dimensions



Thermal Module		HS3			HS6		
Detector		VOx Uncooled FPA					
Resolution/Pixel pitch		384x288/12μm			640x512/12μm		
NETD		<35mK@ 25°C					
Spectral range		8-14μm					
Focus Method		Motorized					
Focal Length		7mm(HS3 only)	10mm	17mm	25mm	35mm	50mm
FOV	HS3	36.4x27.7	25.9x19.6	15.4x11.6	10.5x7.9	7.5x5.6	5.2x3.9
	HS6	/	42x34	25.4x20.4	17.4x14	12.5x10	8.7x7
Image adjustment		Auto/Manual adjustment for contrast ratio & brightness & acutance					
Uniformity correction		Auto/Manual shutter					
Image Effect							
Thermal image process		AGC, IDE					
Image adjustment		Auto/Manual adjustment for contrast ratio & brightness & acutance					
Color Palette		Optional 9 color palettes (rust, rainbow, white/black, etc.)					
Smart Function							
VCA		4 VCA types excluding HS6 (motion detection, cross line, intrusion, area entry and exit)					
Fire Detection		Support					
Temperature Measurement		3 temperature measurement rule types (points, areas, lines)					
Temperature Range		-20 °C ~+ 135 °C					
Temperature Accuracy		± 8 °C(± 14.4 °F)					
Video and Audio							
Video compression		H.264/H.265					
Main-Stream		768*576, 384*288			640*512, 384*288		
Audio		External sound pick-ip only					

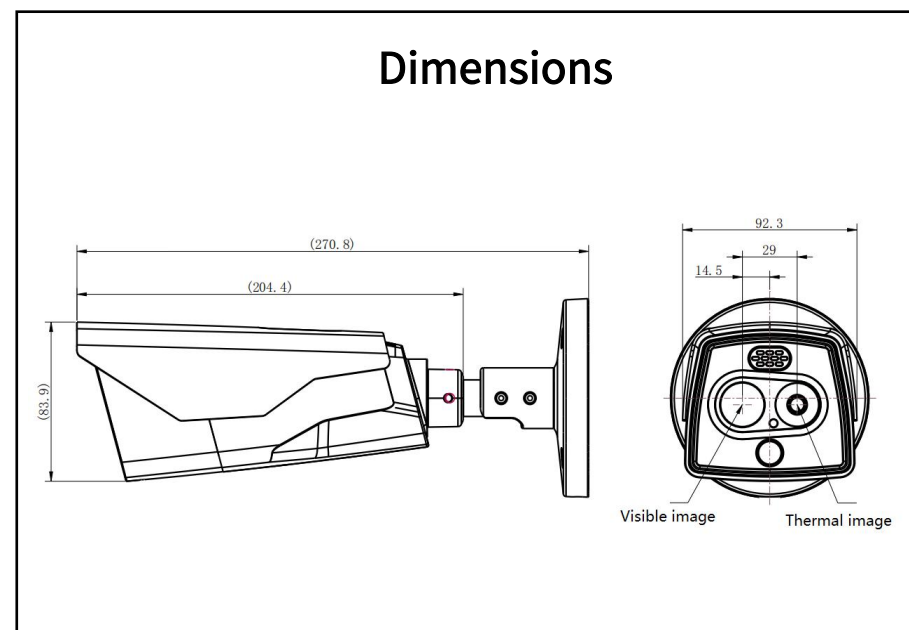
Network		
Protocols	IPv4/IPv6,HTTP,HTTPS,,FTP,DNS,NTP,RTSP,TCP,UDP,DHCP	
API	ISAPI,SDK, third-party management platform, ONVIF	
Common function	Hearbet, password protection, multi-user access control	
Security	Support password protection, bonding MAC ID, IP filtration	
Simultaneous Live View	10 channels	
User/Host level	Up to 9 users, 3 levels: Administrator, Operator, General	
Web Browser	Google Kernel Browser, Edge	
Interface		
Alarm Interface	1x ch input, 1x ch output	
Serial port	1x ch RS485	
Communication Interface	RJ45 10 M/100 M self-adaptive Ethernet	
Storage	Embedded EMMC 16GB	
General		
Web Client Language	English	
Power Supply	DC 12V/POE	
Power Consumption	<2W (w/o IR)	<3W (w/o IR)
Work Temperature/Humidity	-20°C~60°C, <90%RH	
Storage temperature	-45°C ~ +75°C	
Protection	IP67	
Reliability	TVS 6000V lightning protection, surge protection, voltage transient protection	
Dimension	407mmx143mmx113mm	
Weight	<2.3Kg	

HM2-X Series

Outdoor IP Dual Spectrum Bullet Camera

Product Features

- High image quality: 12μm thermal sensor, 4MP 1/2.8" CMOS visible sensor;
- Powerful behavior analysis algorithm: Line crossing, intrusion, region entry & exit;
- Thermal image smart function: Multiple targets types detection;
- Advanced fire/smoke detection algorithm;
- Excellent image enhancement: AGC, IDE
- User-friendly platform: Standard ONVIF protocol, fast compatible with the third-party platform;
- Superior environmental adaptability: Applicable for extreme weather, including darkness, rain, fog, smog and etc.;
- Complete customizability.



Thermal Module	HM2-X				Video and Audio	
Detector	VOx Uncooled FPA				Video Compression	H.264 / H.265
Resolution/Pixel pitch	256x192/12μm				Main-Stream (Visible)	2560*1440,1920*1080,1280*720
NETD	<35mK@ 25°C				Sub-stream (Visible)	1280*720,768*576,640*480,384*288
Spectral range	8-14μm				Main-Stream (Thermal)	384*288, 256*192
Focus Method	Fixed lens				Audio	Sound pick-up
Focal Length	2mm	3.6mm	7mm	10mm	Network	
FOV	90°x65.9°	50°x37°	24.8°x18.6°	17°x13°	Protocols	IPv4/IPv6,HTTP,HTTPS,,FTP,DNS,NTP,RTSP,TCP,UDP,DHCP
Image adjustment	Auto/Manual adjustment for contrast ratio & brightness & acutance				API	ISAPI,SDK, third-party management platform, ONVIF
Uniformity correction	Auto/Manual shutter, background correction				Common function	Hearbet, password protection, multi-user access control
Optical Module					Security	Support password protection, bonding MAC ID, IP filtration
Image Sensor	1/2.8” Progressive Scan CMOS				Simultaneous Live View	10 channels
Resolution	2560(H)×1440(V)				User/Host level	Up to 9 users, 3 levels: Administrator, Operator, General
Focal Length	3mm	4mm	6mm	8mm	Web Browser	Google Kernel Browser, Edge
FOV	106.7°x56.2°	87.5°x44.4°	54°x29°	41.4°x23.9°	Interface	
IR Range	30m				Alarm	1x ch input, 1x ch output
Image Effect					Serial port	1x ch RS485
Thermal image process	AGC, IDE				Communication Interface	RJ45 10 M/100 M self-adaptive Ethernet
Image fusion	Support				Storage	Embedded EMMC 16GB
Color Palette	Optional 9 color palettes(rust, rainbow, white/black, etc.)				General	
Smart Function					Web Client Language	English
VCA	4 VCA types (motion detection, cross line, intrusion, area entry and exit)				Power Supply	DC 12V/POE
Fire Detection	Support				Power Consumption	3W(w/o IR)
Sound and light alarm	Add speakers and embedded flashing lights alarm				Work Temperature/Humidity	-20°C~+60°C (customized -40°C), <90%RH
Temperature Measurement	3 temperature measurement rule types (points, areas, lines).				Storage temperature	−45°C ~ +75°C
Temperature Range	-20°C~+ 135°C				Protection	IP67
Temperature Accuracy	± 8 °C (± 14.4 °F)				Reliability	TVS 6000V lightning protection, surge protection, voltage transient protection
					Dimension	276.9mm*92.21*89.8
					Weight	<1.3kg

HM3&6-X Series

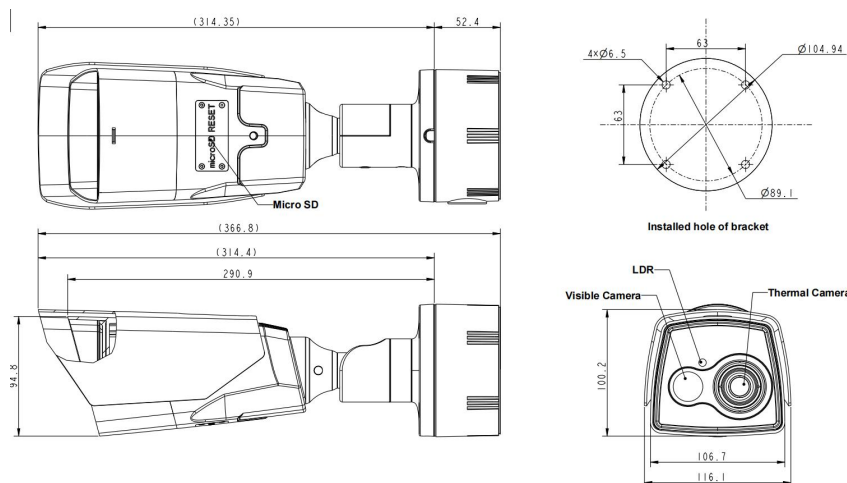
Outdoor IP Dual Spectrum Bullet Camera



Product Features

- High image quality: 12μm thermal sensor, 4MP 1/2.8" CMOS visible sensor;
- Powerful behavior analysis algorithm: Line crossing, intrusion, region entry & exit;
- Support temperature measurement with multiple rules;
- Advanced fire/smoke detection algorithm;
- Excellent image enhancement: AGC, IDE
- Image effect: Image fusion, PIP;
- User-friendly platform: Standard ONVIF protocol, fast compatible with the third-party platform;
- Superior environmental adaptability: Applicable for extreme weather, including darkness, rain, fog, smog and etc.;
- Complete customizability.

Dimensions



Thermal Module		HM3-X		HM6-X		
Detector		VOx Uncooled FPA				
Resolution/Pixel pitch		384x288/12μm		640x512/12μm		
NETD		<25mK@ 25°C		<35mK@ 25°C		
Spectral range		8-14μm				
Focus Method		Motorized				
Focal Length		7mm(HM3 only)	10mm	17mm	25mm	35mm
FOV	HM3	36.4x27.7	25.9x19.6	15.4x11.6	10.5x7.9	7.5x5.6
	HM6	/	42x34	25.4x20.4	17.5x14	12.5x10
Image adjustment		Auto/Manual adjustment for contrast ratio & brightness & acutance				
Uniformity correction		Auto/Manual shutter, background correxion				
Optical Module						
Image Sensor		1/2.8” Progressive Scan CMOS				
Resolution		2592(H)×1536(V)				
Focal Length		4mm (HM3 only)	6mm	8mm(HM6 only)		12mm
FOV		80°56.7	54°29	41.4°23.9		28°23.9
IR Range		50m				
Image Effect						
Thermal image process		AGC, IDE,3D DNR,HDR				
Image fusion		Support				
Color Palette		Optional 9 color palettes(rust, rainbow, white/black, etc.)				
EIS		Mutually exclusive with all smart functions except VCA function on the thermal				
Smart Function						
VCA		4 VCA types for HM3 only (motion detection, cross line, intrusion, area entry and exit)				
Fire Detection		Support				
Temperature Measurement		3 temperature measurement rule types (points, areas, lines).				
Temperature Range		-20°C~+ 135°C				
Temperature Accuracy		± 8 °C (± 14.4 °F)				

Video and Audio		
Video Compression	H.264 / H.265	
Main-Stream (Visible)	2688*1520, 2560*1440, 1920*1080, 1280*720, 720*576, 640*360, 704*288, 352*288	
Sub-stream (Visible)	1920*1080, 1280*720, 720*576, 640*360,704*288,352*288	
Main-Stream (Thermal)	1920*1080, 1280*960, 1280*720, 720*576, 384*288, 352*288	
Sub-stream (Thermal)	1280*960, 1280*720, 720*576, 384*288, 352*288	
Audio Compression	G.711A,G.711U	
Network		
Protocols	IPv4/IPv6,HTTP,HTTPS,,FTP,DNS,NTP,RTSP,TCP,UDP,DHCP	
API	ISAPI,SDK, third-party management platform (Network Optix), ONVIF,Uniview	
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 9 users, 3 levels: Administrator, Operator, General	
Web Browser	Google Kernel Browser, Edge	
Interface		
Alarm	2x ch input, 2x ch output	
Serial port	1x ch RS485	
Audio I/O	1x ch input: impedance 35KΩ, amplitude 2V[p-p]; 1x ch output: impedance 600Ω, amplitude 2V[p-p]	
Communication Interface	RJ45 10 M/100 M self-adaptive Ethernet	
Storage	Micro SD up to 512GB	
General		
Web Client Language	English	
Power Supply	DC 12V/POE	
Power Consumption	<2W(w/o IR & heater)	<3W(w/o IR)
Work Temperature/Humidity	-20°C~+60°C (customized -40°C), <90%RH	
Storage temperature	-45°C ~ +75°C	
Protection	IP67	
Reliability	TVS 6000V lightning protection, surge protection, voltage transient protection	
Dimension	366mmx116mmx100mm	
Weight	<2Kg	

QS Series

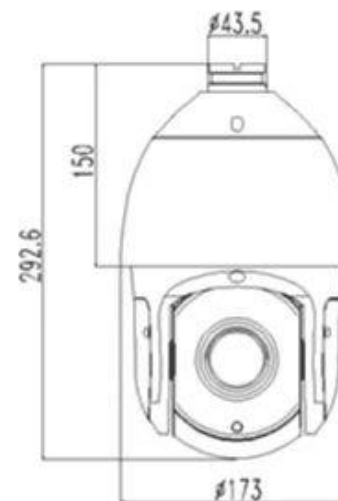
Dual Spectrum High Speed Camera



Product Features

- Thermal & Optical bi-spectrum image with single IP address.
- Multiple types for perimeter protection function: line crossing, intrusion, region entrance and exit.
- Smart fire detection.
- Smart tracking: Cold-hot spot tracking, human/vehicle detection.
- Optional thermal resolution either 384*288 or 640*512, 12um
- IP66

Dimensions



Thermal Module		QS3		QS6	
Detector		VOx Uncooled FPA			
Resolution/Pixel pitch		384x288/12μm		640x512/12μm	
NETD		<35mK@ 25℃			
Spectral range		8-14μm			
Focus Method		Manual/Motorized(auto focus)			
Focal Length		9.1mm	13mm	19mm	25mm
FOV	QG3	28.1*21.1	19.7*14.8	13.5*10.1	10.2*7.7
	QG6	45.7*37.3	32.9*26.5	22.8*18.3	17.4*14
Image adjustment		Auto/Manual adjustment for contrast ratio & brightness & acutance			
Uniformity correction		Auto/Manual shutter, background correction			
Optical Module					
Image Sensor		1/2.8” Progressive Scan CMOS			
Resolution		2592× 1944			
Focal Length&Zoom		5.1-153mm, 30X			
FOV		51.87-2.48 (wide to narrow)			
IR Range		50m			
Min. Illumination		Color: 0.0005 Lux @(F1.5 AGC ON), B/W: 0.00001 Lux @(F1.5 AGC ON)			
Image Effect					
Thermal image process		AGC, IDE			
Color Palette		Optional 10 color palettes(rust, rainbow, white/black, etc.)			
Smart Function					
VCA		motion detection, cross line, intrusion, area entry and exit			
Fire Detection		Support			
PTZ					
Movement range		Pan:360° continuous; Tilt:-25°~+90°			
Presets		200			
Power Off Memory		Support			
Pan speed		0.01°~200°/s			
Tilt speed		0.01°~120°/s			
Auto Horizontal Scan		Preset patrol / Auto line scanning & etc			

Video and Audio		
Video Compression	H.264 / H.265	
Main-Stream (Visible)	2688*1520,2560*1440,1920*1080,1280*960,1280*720	
Sub-stream (Visible)	1280*720,640*480,352*288	
Main-Stream (Thermal)	1920*1080, 1280*1024, 640*512	1920*1080, 1280*1024, 640*512
Sub-stream (Thermal)	640*512	640*512
Audio compression	G.711	
Network		
Protocols	IPv4/IPv6,HTTP,HTTPS,,FTP,DNS,NTP,RTSP,TCP,UDP,DHCP	
API	ISAPI,SDK, third-party management platform, ONVIF	
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 9 users, 3 levels: Administrator, Operator, General	
Web Browser	Google Kernel Browser, Edge	
Interface		
Alarm	1x ch input, 1x ch output	
Audio	1x ch input, 1x ch output	
Serial port	1x ch RS485	
Communication Interface	RJ45 10 M/100 M self-adaptive Ethernet	
Storage	Micro SD	
General		
Web Client Language	English	
Power Supply	DC12V	
Power Consumption	<20W	
Work Temperature/Humidity	-20℃~+60℃ (customized -40℃), <90%RH	
Storage temperature	-45℃ ~ +75℃	
Protection	IP66	
Reliability	TVS 6000V lightning protection, surge protection, voltage transient protection	
Dimension	Ø173mm*293mm	
Weight	<3.5Kg	

CH Series

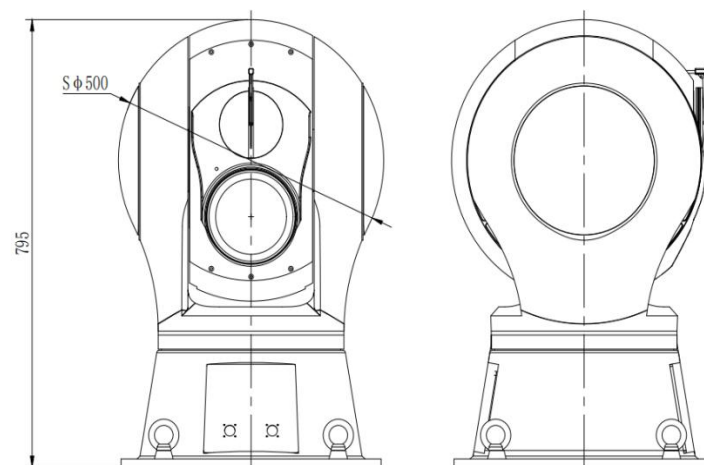
Dual Spectrum PTZ Camera

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.
- Embedded gyroscopic image stabilization system.
- Leading thermal image processing technology: adaptive AGC, IDE;
- Optional laser ranging or laser illumination;



Dimensions



Thermal Module	CH3		CH6	
Detector	VOx Uncooled FPA			
Resolution/Pixel pitch	384x288/12μm		640x512/12μm	
NETD	<35mK@ 25℃			
Spectral range	8-14μm			
Focus Method	Manual/Motorized(auto focus)			
Focal Length	30-150mm	30-180mm	30-150mm	30-180mm
FOV	8.75*6.57~ 1.76*1.32	8.75*6.57~ 1.46*1.10	14.59*11.69~ 2.93*2.35	14.59*11.69~ 2.44*1.96
Image adjustment	Auto/Manual adjustment for contrast ratio & brightness & acutance			
Uniformity correction	Auto/Manual shutter, background correction			
Optical Module				
Image Sensor	1/1.8” Progressive Scan CMOS			
Resolution	2688×1520			
Focal Length&Zoom	10-550mm， 55X			
FOV	58.4-1.1(wide to narrow)			
Image Effect				
Thermal image process	AGC, IDE			
Color Palette	Optional 10 color palettes(rust, rainbow, white/black, etc.)			
Smart Function				
VCA	motion detection, cross line, intrusion, area entry and exit			
Fire Detection	Support			
PTZ				
Movement range	Pan:360° continuous; Tilt: -45°~+45°			
Presets	200			
Power Off Memory	Support			
Pan speed	0.01°~80°/s			
Tilt speed	0.01°~80°/s			
Auto Horizontal Scan	Preset patrol / Auto line scanning & etc			

Video and Audio		
Video Compression	H.264 / H.265	
Main-Stream (Visible)	2688*1520,2560*1440,1920*1080,1280*960,1280*720	
Sub-stream (Visible)	1280*720,640*480,352*288	
Main-Stream (Thermal)	1920*1080, 1280*1024, 640*512	1920*1080, 1280*1024, 640*512
Sub-stream (Thermal)	640*512	640*512
Audio compression	G.711	
Network		
Protocols	IPv4/IPv6,HTTP,HTTPS,,FTP,DNS,NTP,RTSP,TCP,UDP,DHCP	
API	ISAPI,SDK, third-party management platform, ONVIF	
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 9 users, 3 levels: Administrator, Operator, General	
Web Browser	Google Kernel Browser, Edge	
Interface		
Alarm	1x ch input, 1x ch output	
Audio	1x ch input, 1x ch output	
Serial port	1x ch RS485	
Communication Interface	RJ45 10 M/100 M self-adaptive Ethernet	
Storage	Embedded EMMC 16GB	
General		
Web Client Language	English	
Laser ranging or illumination	Optional	
Gyroscopes	Optional	
Power Supply	DC48V,10A	
Power Consumption	<270W(with heater)	
Work Temperature/Humidity	-20°C~+60°C(customized -40°C), <90%RH	
Storage temperature	-45°C ~ +75°C	
Protection	IP66	
Reliability	TVS 6000V lightning protection, surge protection, voltage transient protection	
Dimension	φ500mm×795mm	
Weight	<90Kg(with bracket)	

TG Series

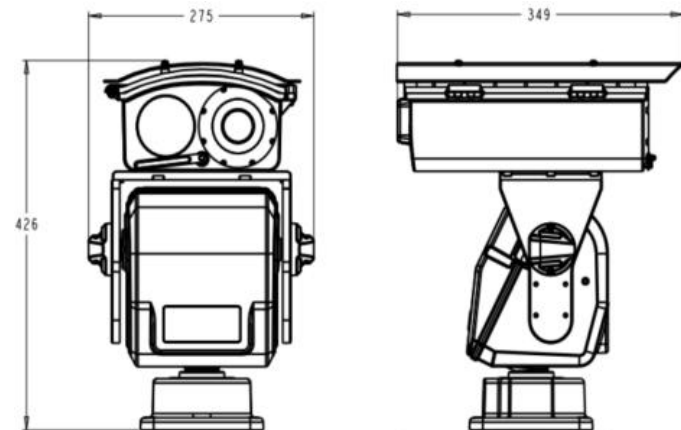
Middle and Long Distance Dual Spectrum PTZ Camera

Product Features

- High image quality: 12μm thermal sensor, 4MP 1/1.8" CMOS visible sensor;
- Powerful behavior analysis algorithm: Line crossing, intrusion, region entry & exit;
- Advanced AI algorithm: Multiple targets types detection and tracking;
- Excellent image enhancement: AGC, IDE;
- Rugged PTZ: Aluminium alloy material, waterproof aviation interface, anti-salt spray;
- Superior environmental adaptability: Applicable for extreme weather including darkness, rain, fog, smog and etc.;
- Easily integrated with the third party.



Dimensions



Thermal Module	TG3		TG6	
Detector	VOx Uncooled FPA			
Resolution/Pixel pitch	384x288/12μm		640x512/12μm	
NETD	<35mK@ 25°C			
Spectral range	8-14μm			
Focus Method	Manual/Motorized(auto focus)			
Focal Length	50mm	75mm	50mm	75mm
FOV	5.2*3.9	3.5*2.6	8.7*7	8.7*7
Image adjustment	Auto/Manual adjustment for contrast ratio & brightness & acutance			
Uniformity correction	Auto/Manual shutter, background correction			
Optical Module				
Image Sensor	1/1.8” Progressive Scan CMOS			
Resolution	2688*1520			
Focal Length&Zoom	6.6-264mm, 40X			
FOV	57.62-2.95(wide to narrow)			
Image Effect				
Thermal image process	AGC, IDE			
Color Palette	Optional 10 color palettes(rust, rainbow, white/black, etc.)			
Smart Function				
VCA	motion detection, cross line, intrusion, area entry and exit			
Fire Detection	Support			
PTZ				
Movement range	Pan:360° continuous; Tilt: -70°~+45°			
Presets	200			
Power Off Memory	Support			
Pan speed	0.4°~40°/s			
Tilt speed	0.2°~10°/s			
Auto Horizontal Scan	Preset patrol / Auto line scanning & etc			

Video and Audio	
Video Compression	H.264 / H.265
Main-Stream (Visible)	2688*1520,2560*1440,1920*1080,1280*960,1280*720
Sub-stream (Visible)	1280*720,640*480,352*288
Main-Stream (Thermal)	1920*1080, 1280*1024, 640*512
Sub-stream (Thermal)	640*512
Audio compression	G.711
Network	
Protocols	IPv4/IPv6,HTTP,HTTPS,,FTP,DNS,NTP,RTSP,TCP,UDP,DHCP
API	ISAPI,SDK, third-party management platform, ONVIF
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 9 users, 3 levels: Administrator, Operator, General
Web Browser	Google Kernel Browser, Edge
Interface	
Alarm	1x ch input, 1x ch output
Audio	1x ch input, 1x ch output
Serial port	1x ch RS485
Communication Interface	RJ45 10 M/100 M self-adaptive Ethernet
Storage	Embedded EMMC 16GB
General	
Web Client Language	English
Wiper	Optional
Power Supply	DC24V,5A
Power Consumption	<30W(with heater)
Work Temperature/Humidity	-20°C~+60°C(customized -40°C), <90%RH
Storage temperature	-45°C ~ +75°C
Protection	IP66
Reliability	TVS 6000V lightning protection, surge protection, voltage transient protection
Dimension	349mmx275mmx426mm
Weight	<20Kg

TH Series

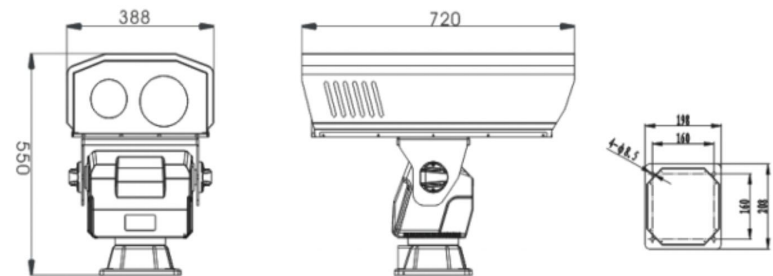
Middle and Long Distance Dual Spectrum PTZ Camera

Product Features

- High image quality: 12μm thermal sensor, 2MP 1/1.8" CMOS visible sensor;
- Powerful behavior analysis algorithm: Line crossing, intrusion, region entry & exit;
- Advanced AI algorithm: Multiple targets types detection and tracking;
- Excellent image enhancement: AGC, IDE;
- Rugged PTZ: Aluminium alloy material, waterproof aviation interface, anti-salt spray;
- Superior environmental adaptability: Applicable for extreme weather including darkness, rain, fog, smog and etc.;
- Easily integrated with the third party.



Dimensions



Thermal Module	TG3		TG6	
Detector	VOx Uncooled FPA			
Resolution/Pixel pitch	384x288/12μm		640x512/12μm	
NETD	<35mK@ 25°C			
Spectral range	8-14μm			
Focus Method	Manual/Motorized(auto focus)			
Focal Length	50mm	75mm	50mm	75mm
FOV	5.2*3.9	3.5*2.6	8.7*7	8.7*7
Image adjustment	Auto/Manual adjustment for contrast ratio & brightness & acutance			
Uniformity correction	Auto/Manual shutter, background correction			
Optical Module				
Image Sensor	1/1.8” Progressive Scan CMOS			
Resolution	2688*1520			
Focal Length&Zoom	6.6-264mm, 40X			
FOV	57.62-2.95(wide to narrow)			
Image Effect				
Thermal image process	AGC, IDE			
Color Palette	Optional 10 color palettes(rust, rainbow, white/black, etc.)			
Smart Function				
VCA	motion detection, cross line, intrusion, area entry and exit			
Fire Detection	Support			
PTZ				
Movement range	Pan:360° continuous; Tilt: -70°~+45°			
Presets	200			
Power Off Memory	Support			
Pan speed	0.4°~40°/s			
Tilt speed	0.2°~10°/s			
Auto Horizontal Scan	Preset patrol / Auto line scanning & etc			

Video and Audio	
Video Compression	H.264 / H.265
Main-Stream (Visible)	2688*1520,2560*1440,1920*1080,1280*960,1280*720
Sub-stream (Visible)	1280*720,640*480,352*288
Main-Stream (Thermal)	1920*1080, 1280*1024, 640*512
Sub-stream (Thermal)	640*512
Audio compression	G.711
Network	
Protocols	IPv4/IPv6,HTTP,HTTPS,,FTP,DNS,NTP,RTSP,TCP,UDP,DHCP
API	ISAPI,SDK, third-party management platform, ONVIF
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 9 users, 3 levels: Administrator, Operator, General
Web Browser	Google Kernel Browser, Edge
Interface	
Alarm	1x ch input, 1x ch output
Audio	1x ch input, 1x ch output
Serial port	1x ch RS485
Communication Interface	RJ45 10 M/100 M self-adaptive Ethernet
Storage	Embedded EMMC 16GB
General	
Web Client Language	English
Wiper	Optional
Power Supply	DC24V,5A
Power Consumption	<30W(with heater)
Work Temperature/Humidity	-20°C~+60°C(customized -40°C), <90%RH
Storage temperature	-45°C ~ +75°C
Protection	IP66
Reliability	TVS 6000V lightning protection, surge protection, voltage transient protection
Dimension	349mmx275mmx426mm
Weight	<20Kg

YS Series

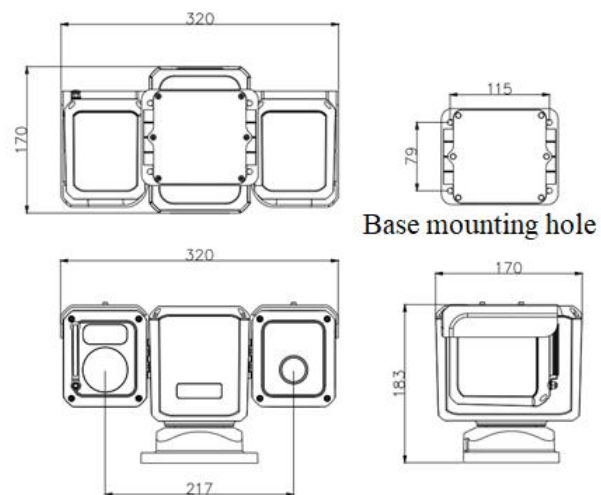
Mobile Dual Spectrum PTZ Camera



Product Features

- Powerful behavior analysis algorithm: Line crossing, intrusion, region entry & exit;
- Advanced AI algorithm: Multiple targets types detection and tracking;
- Excellent image enhancement: AGC, IDE;
- Light weight design;high speed rotation,low power consumption, easier installation;
- Superior environmental adaptability: Applicable for extreme weather, including darkness, rain, fog, smog and etc.;
- Complete customizability: Laser range finder, laser illuminator, radar in option.

Dimensions



Thermal Module		YS3			YS6	
Detector		VOx Uncooled FPA				
Resolution/Pixel pitch		384x288/12μm			640x512/12μm	
NETD		<35mK@ 25°C				
Spectral range		8-14μm				
Focus Method		Manual/Motorized(auto focus)				
Focal Length		7mm	10mm	17mm	25mm	35mm
FOV	YS3	36.4*27.7	25.9*19.6	15.4*11.6	10.5*7.9	7.5*5.6
	YS6	/	42*34	25.4*20.4	17.4*14	12.5*10
Image adjustment		Auto/Manual adjustment for contrast ratio & brightness & acutance				
Uniformity correction		Auto/Manual shutter, background corrextion				
Optical Module						
Image Sensor		1/1.8” Progressive Scan CMOS				
Resolution		2688*1520				
Focal Length&Zoom		7.1-213mm, 30X				
FOV		57.62-3.92 (wide to narrow)				
Image Effect						
Thermal image process		AGC, IDE				
Color Palette		Optional 10 color palettes(rust, rainbow, white/black, etc.)				
Smart Function						
VCA		motion detection, cross line, intrusion, area entry and exit				
Fire Detection		Support				
PTZ						
Movement range		Pan:360° continuous; Tilt: -90°~+90°				
Presets		200				
Power Off Memory		Support				
Pan speed		0.1°~100°/s				
Tilt speed		0.1°~80°/s				
Auto Horizontal Scan		Preset patrol / Auto line scanning & etc				

Video and Audio	
Video Compression	H.264 / H.265
Main-Stream (Visible)	2688*1520,2560*1440,1920*1080,1280*960,1280*720
Sub-stream (Visible)	1280*720,640*480,352*288
Main-Stream (Thermal)	1920*1080, 1280*1024, 640*512 1920*1080, 1280*1024, 640*512
Sub-stream (Thermal)	640*512 640*512
Audio compression	G.711
Network	
Protocols	IPv4/IPv6,HTTP,HTTPS,,FTP,DNS,NTP,RTSP,TCP,UDP,DHCP
API	ISAPI,SDK, third-party management platform, ONVIF
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 9 users, 3 levels: Administrator, Operator, General
Web Browser	Google Kernel Browser, Edge
Interface	
Alarm	1x ch input, 1x ch output
Audio	1x ch input, 1x ch output
Serial port	1x ch RS485
Communication Interface	RJ45 10 M/100 M self-adaptive Ethernet
Storage	Embedded EMMC 16GB
General	
Web Client Language	English
Power Supply	DC9--36V,5A
Power Consumption	<20W
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
Dimension	168mm*320mm*186mm
Weight	<5.5Kg

Y Series

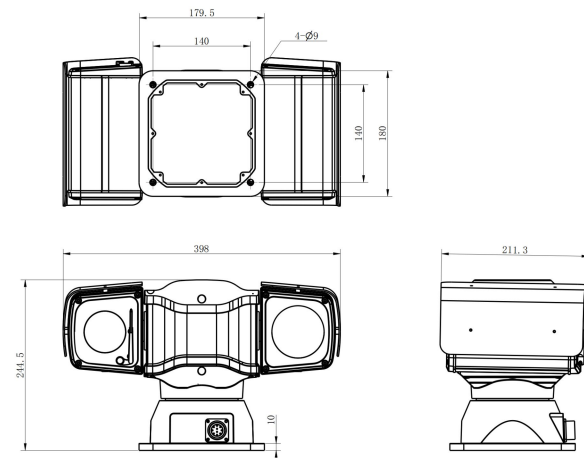
Mobile Dual Spectrum PTZ Camera

Product Features

- High image quality: 12μm thermal sensor, 2MP 1/2.8" CMOS visible sensor;
- Powerful behavior analysis algorithm: Line crossing, intrusion, region entry & exit;
- Advanced AI algorithm for fire detection;
- Excellent image enhancement: AGC, IDE;
- Rugged PTZ: Aluminium alloy material, waterproof aviation interface, anti-salt spray;
- Superior environmental adaptability: Applicable for extreme weather, including darkness, rain, fog, smog and etc.;
- Complete customizability: Laser range finder, laser illuminator, radar in option.



Dimensions



Thermal Module		Y3	Y6	
Detector		VOx Uncooled FPA		
Resolution/Pixel pitch		384x288/12μm		640x512/12μm
NETD		<35mK@ 25°C		
Spectral range		8-14μm		
Focus Method		Manual/Motorized(auto focus)		
Focal Length		25mm	35mm	50mm
FOV	Y3	10.5*7.9	7.5*5.6	5.2*3.9
	Y6	17.4*14	12.5*10	8.7*7
Image adjustment		Auto/Manual adjustment for contrast ratio & brightness & acutance		
Uniformity correction		Auto/Manual shutter, background corrextion		
Optical Module				
Image Sensor		1/1.8” Progressive Scan CMOS		
Resolution		2688*1520		
Focal Length&Zoom		7.1-213mm, 30X		
FOV		57.62-3.92 (wide to narrow)		
Image Effect				
Thermal image process		AGC, IDE		
Color Palette		Optional 10 color palettes(rust, rainbow, white/black, etc.		
Smart Function				
VCA		motion detection, cross line, intrusion, area entry and exit		
Fire Detection		Support		
PTZ				
Movement range		Pan:360° continuous; Tilt: -90°~+90°		
Presets		200		
Power Off Memory		Support		

Pan speed	0.1°~20°/s	
Tilt speed	0.1°~10°/s	
Auto Horizontal Scan	Preset patrol / Auto line scanning & etc	
Video and Audio		
Video Compression	H.264 / H.265	
Main-Stream (Visible)	2688*1520,2560*1440,1920*1080,1280*960,1280*720	
Sub-stream (Visible)	1280*720,640*480,352*288	
Main-Stream (Thermal)	1920*1080, 1280*1024, 640*512	1920*1080, 1280*1024, 640*512
Sub-stream (Thermal)	640*512	640*512
Audio compression	G.711	
Network		
Protocols	IPv4/IPv6,HTTP,HTTPS,,FTP,DNS,NTP,RTSP,TCP,UDP,DHCP	
API	ISAPI,SDK, third-party management platform, ONVIF	
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 9 users, 3 levels: Administrator, Operator, General	
Web Browser	Google Kernel Browser, Edge	
Interface		
Alarm	1x ch input, 1x ch output	
Audio	1x ch input, 1x ch output	
Serial port	1x ch RS485	
Communication Interface	RJ45 10 M/100 M self-adaptive Ethernet	
Storage	Embedded EMMC 16GB	
General		
Web Client Language	English	
Power Supply	DC12V,3A	
Power Consumption	<30W	
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	
Dimension	398mm*212mm*244mm	
Weight	<7Kg	

E Series

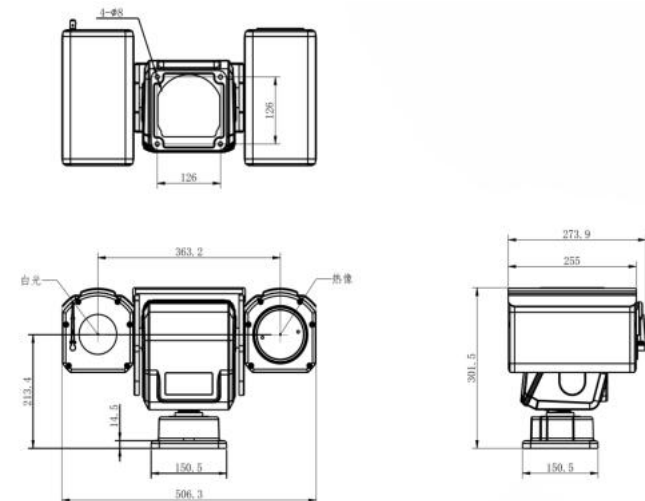
Middle and Long Distance Dual Spectrum PTZ Camera

Product Features

- High image quality: 12μm thermal sensor, 2MP 1/1.8" CMOS visible sensor;
- Powerful behavior analysis algorithm: Line crossing, intrusion, region entry & exit;
- Advanced AI algorithm: Multiple targets types detection and tracking;
- Excellent image enhancement: AGC, IDE;
- Rugged PTZ: Aluminium alloy material, waterproof aviation interface, anti-salt spray;
- Superior environmental adaptability: Applicable for extreme weather, including darkness, rain, fog, smog and etc.;
- Complete Customizability: Laser range finder, laser illuminator, radar in option.



Dimensions



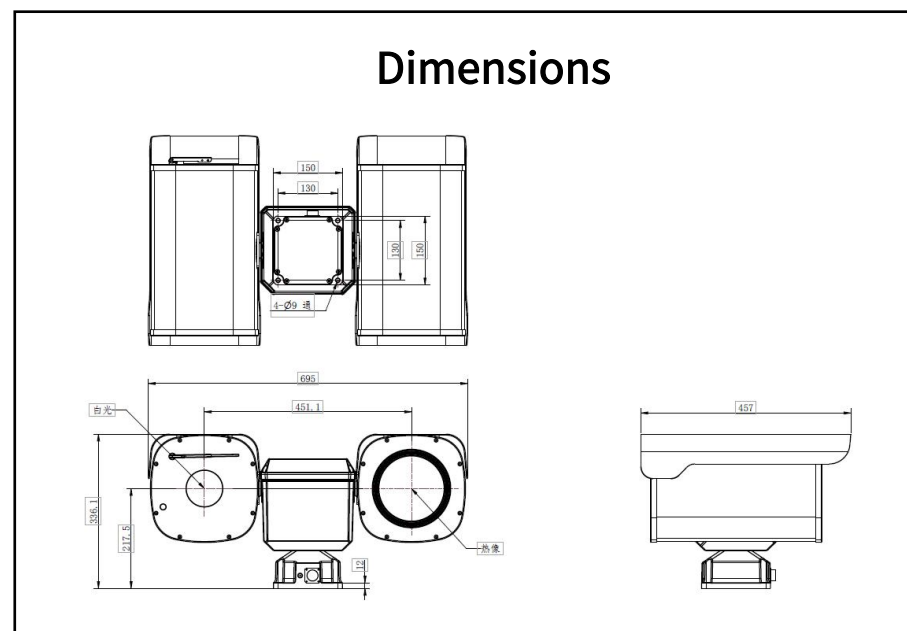
Thermal Module		E3	E6
Detector		VOx Uncooled FPA	
Resolution/Pixel pitch		384x288/12μm	640x512/12μm
NETD		<35mK@ 25°C	
Spectral range		8-14μm	
Focus Method		Manual/Motorized(auto focus)	
Focal Length		75mm	100mm
FOV	E3	3.5*2.6	2.64*1.98
	E6	5.8*4.7	4.4*3.5
Image adjustment		Auto/Manual adjustment for contrast ratio & brightness & acutance	
Uniformity correction		Auto/Manual shutter, background correction	
Optical Module			
Image Sensor		1/1.8” Progressive Scan CMOS	
Resolution		2688*1520	
Focal Length&Zoom		6.6-264mm, 40X	
FOV		57.62-2.95(wide to narrow)	
Image Effect			
Thermal image process		AGC, IDE	
Color Palette		Optional 10 color palettes(rust, rainbow, white/black, etc.	
Smart Function			
VCA		motion detection, cross line, intrusion, area entry and exit	
Fire Detection		Support	
PTZ			
Movement range		Pan:360° continuous; Tilt: -70°~+45°	
Presets		200	
Power Off Memory		Support	
Pan speed		0.4°~40°/s	
Tilt speed		0.2°~10°/s	
Auto Horizontal Scan		Preset patrol / Auto line scanning & etc	

Video and Audio		
Video Compression	H.264 / H.265	
Main-Stream (Visible)	2688*1520,2560*1440,1920*1080,1280*960,1280*720	
Sub-stream (Visible)	1280*720,640*480,352*288	
Main-Stream (Thermal)	1920*1080, 1280*1024, 640*512	1920*1080, 1280*1024, 640*512
Sub-stream (Thermal)	640*512	640*512
Audio compression	G.711	
Network		
Protocols	IPv4/IPv6,HTTP,HTTPS,,FTP,DNS,NTP,RTSP,TCP,UDP,DHCP	
API	ISAPI,SDK, third-party management platform, ONVIF	
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 9 users, 3 levels: Administrator, Operator, General	
Web Browser	Google Kernel Browser, Edge	
Interface		
Alarm	1x ch input, 1x ch output	
Audio	1x ch input, 1x ch output	
Serial port	1x ch RS485	
Communication Interface	RJ45 10 M/100 M self-adaptive Ethernet	
Storage	Embedded EMMC 16GB	
General		
Web Client Language	English	
Manual wiper	Optional	
Power Supply	DC24V,5A	
Power Consumption	<20W	
Work Temperature/Humidity	-20℃~+60℃(customized -40℃), <90%RH	
Storage temperature	-45℃ ~ +75℃	
Protection	IP66	
Reliability	TVS 6000V lightning protection, surge protection, voltage transient protection	
Dimension	506mmx274mmx301mm	
Weight	<20Kg	

Ultra Distance Dual Spectrum PTZ Camera



- High image quality: 12μm thermal sensor, 4MP 1/1.8" CMOS visible sensor;
- Thermal image focal lens up to 225mm;
- Advanced AI algorithm: Multiple targets types detection and tracking;
- Excellent image enhancement: AGC, IDE;
- Rugged PTZ: Aluminium alloy material, waterproof aviation interface, anti-salt spray;
- Superior environmental adaptability: Applicable for extreme weather, including darkness, rain, fog, smog and etc.;



Thermal Module		EL3		EL6	
Detector		VOx Uncooled FPA			
Resolution/Pixel pitch		384x288/12μm		640x512/12μm	
NETD		<35mK@ 25°C			
Spectral range		8-14μm			
Focus Method		Manual/Motorized(auto focus)			
Focal Length		30-150mm	30-180mm	25-225mm	
FOV	EL3	8.75*6.57~1.76*1.32	8.75*6.57~1.46*1.10	10.47*7.87~1.18*0.88	
	EL6	14.59*11.69~2.93*2.35	14.59*11.69~2.44*1.96	17.46*14~1.96*1.5	
Image adjustment		Auto/Manual adjustment for contrast ratio & brightness & acutance			
Uniformity correction		Auto/Manual shutter, background corrextion			
Optical Module					
Image Sensor		1/1.8” Progressive Scan CMOS			
Resolution		1920(H)×1080(V)			
Focal Length&Zoom		15-775mmmm, 52X			
FOV		29.1-0.5(wide to narrow)			
Image Effect					
Thermal image process		AGC, IDE			
Color Palette		Optional 9 color palettes(rust, rainbow, white/black, etc.)			
Smart Function					
VCA		4 VCA types for EL3 only (motion detection, cross line, intrusion, area entry and exit)			
Fire Detection		Support			
PTZ					
Movement range		Pan:360° continuous; Tilt: -90°~+90°			
Presets		200			
Power Off Memory		Support			
Pan speed		0.01°~60°/s			
Tilt speed		0.01°~30°/s			
Auto Horizontal Scan		Preset patrol / Auto line scanning & etc			

Video and Audio		
Video Compression	H.264 / H.265	
Main-Stream (Visible)	1920*1080,1280*720	
Sub-stream (Visible)	1280*720,768*576,640*480,384*288	
Main-Stream (Thermal)	768*576,384*288	640*512
Sub-stream (Thermal)	384*288	384*288
Audio compression	G.711	
Network		
Protocols	IPv4/IPv6,HTTP,HTTPS,,FTP,DNS,NTP,RTSP,TCP,UDP,DHCP	
API	ISAPI,SDK, third-party management platform, ONVIF	
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 9 users, 3 levels: Administrator, Operator, General	
Web Browser	Google Kernel Browser, Edge	
Interface		
Alarm	1x ch input, 1x ch output	
Audio	1x ch input, 1x ch output	
Serial port	1x ch RS485	
Communication Interface	RJ45 10 M/100 M self-adaptive Ethernet	
Storage	Embedded EMMC 16GB	
General		
Web Client Language	English	
Laser ranging or illumination	Optional	
Power Supply	DC48V,6.7A	
Power Consumption	<150W	
Work Temperature/Humidity	-20°C~+60°C(customized -40°C), <90%RH	
Storage temperature	-45°C ~ +75°C	
Protection	IP66	
Reliability	TVS 6000V lightning protection, surge protection, voltage transient protection	
Dimension	457mm*784mm*433mm	
Weight	<50Kg	

CC Series

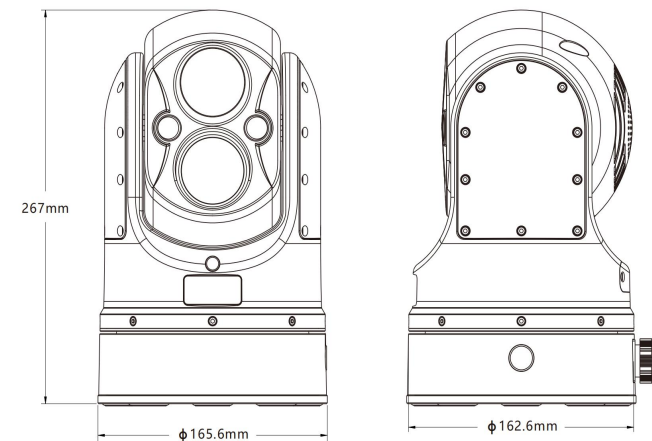
Dual Spectrum PTZ Camera

Product Features

- Built-in high sensitivity infrared thermal camera realizes clear infrared images without any light, perfect for dark night voyage;
- Design of the magnetic composite sucker, built-in large capacity battery, simple operation with the one-key deployment;
- Real time WiFi data transmission.



Dimensions



Thermal Module		CC3		CC6		
Detector		VOx Uncooled FPA				
Resolution/Pixel pitch		384x288/12μm		640x512/12μm		
NETD		<35mK@ 25°C				
Spectral range		8-14μm				
Focus Method		Manual/Motorized(auto focus)				
Focal Length		7mm(CC3 only)	10mm	17mm	25mm	35mm
FOV	CC3	36.4*27.7	25.9*19.6	15.4*11.6	10.5*7.9	7.5*5.6
	CC6	/	42*34	25.4*20.4	17.4*14	12.5*10
Image adjustment		Auto/Manual adjustment for contrast ratio & brightness & acutance				
Uniformity correction		Auto/Manual shutter, background correction				
Optical Module						
Image Sensor		1/1.8” Progressive Scan CMOS				
Resolution		2688*1520				
Focal Length&Zoom		7.1-213mm, 30X				
FOV		57.62-3.92				
IR Range		30m				
Image Effect						
Thermal image process		AGC, IDE				
Color Palette		Optional 10 color palettes(rust, rainbow, white/black, etc.)				
Smart Function						
VCA		motion detection, cross line, intrusion, area entry and exit				
Fire Detection		Support				
PTZ						
Movement range		Pan:360° continuous; Tilt: -30°~+90°				
Presets		200				
Power Off Memory		Support				
Pan speed		0.01°~180°/s				
Tilt speed		0.01°~60°/s				

Auto Horizontal Scan	Preset patrol / Auto line scanning & etc	
Video and Audio		
Video Compression	H.264 / H.265	
Main-Stream (Visible)	2688*1520,2560*1440,1920*1080,1280*960,1280*720	
Sub-stream (Visible)	1280*720,640*480,352*288	
Main-Stream (Thermal)	1920*1080, 1280*1024, 640*512	1920*1080, 1280*1024, 640*512
Sub-stream (Thermal)	640*512	640*512
Audio compression	G.711	
Network		
Protocols	IPv4/IPv6,HTTP,HTTPS,,FTP,DNS,NTP,RTSP,TCP,UDP,DHCP	
API	ISAPI,SDK, third-party management platform, ONVIF	
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 9 users, 3 levels: Administrator, Operator, General	
Web Browser	Google Kernel Browser, Edge	
Interface		
Alarm	1x ch input, 1x ch output	
Audio	1x ch input, 1x ch output	
Serial port	1x ch RS485	
Communication Interface	RJ45 10 M/100 M self-adaptive Ethernet	
Storage	Embedded EMMC 16GB	
General		
Web Client Language	English	
WiFi	Optional	
Embedded battery	Optional (totally 9 pcs 18650,120Wh)	
Power Supply	DC12V,3A	
Power Consumption	<30W	
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	
Dimension	φ165.6mmx267mm	
Weight	<5Kg	

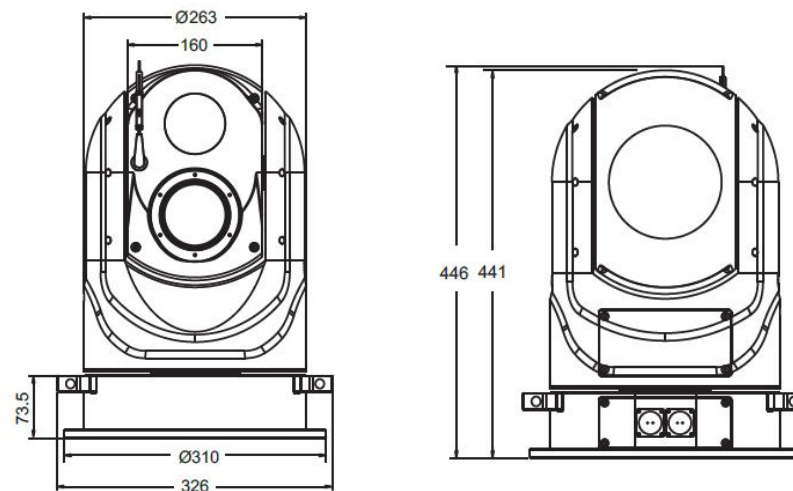
CL Series

Dual Spectrum 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.
- Design of the magnetic composite sucker, simple operation with the one-key deployment;
- Embedded gyroscopic image stabilization system.
- Leading thermal image processing technology: adaptive AGC, IDE; pan: $0.05^{\circ} \sim 250^{\circ}/s$, tilt: $0.05^{\circ} \sim 180^{\circ}/s$ high speed rotation
- Optional laser ranging or illumination;

Dimensions



Thermal Module	CL3		CL6	
Detector	VOx Uncooled FPA			
Resolution/Pixel pitch	384x288/12μm		640x512/12μm	
NETD	<35mK@ 25℃			
Spectral range	8-14μm			
Focus Method	Manual/Motorized(auto focus)			
Focal Length	50mm	75mm	50mm	75mm
FOV	5.2*3.9	3.5*2.6	8.7*7	5.8*4.6
Image adjustment	Auto/Manual adjustment for contrast ratio & brightness & acutance			
Uniformity correction	Auto/Manual shutter, background corrextion			
Optical Module				
Image Sensor	1/1.8” Progressive Scan CMOS			
Resolution	2688 x 1520			
Focal Length&Zoom	6.6-264mm, 40X			
FOV	57.62-2.95(wide to narrow)			
Image Effect				
Thermal image process	AGC, IDE			
Color Palette	Optional 10 color palettes(rust, rainbow, white/black, etc.)			
Smart Function				
VCA	motion detection, cross line, intrusion, area entry and exit			
Fire Detection	Support			
PTZ				
Movement range	Pan:360° continuous; Tilt: -60°~+90°			
Presets	200			
Power Off Memory	Support			
Pan speed	0.05°~250°/s			
Tilt speed	0.05°~180°/s			
Auto Horizontal Scan	Preset patrol / Auto line scanning & etc			

Video and Audio	
Video Compression	H.264 / H.265
Main-Stream (Visible)	2688*1520,2560*1440,1920*1080,1280*960,1280*720
Sub-stream (Visible)	1280*720,640*480,352*288
Main-Stream (Thermal)	1920*1080, 1280*1024, 640*512
Sub-stream (Thermal)	640*512
Audio compression	G.711
Network	
Protocols	IPv4/IPv6,HTTP,HTTPS,,FTP,DNS,NTP,RTSP,TCP,UDP,DHCP
API	ISAPI,SDK, third-party management platform, ONVIF
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 9 users, 3 levels: Administrator, Operator, General
Web Browser	Google Kernel Browser, Edge
Interface	
Alarm	1x ch input, 1x ch output
Audio	1x ch input, 1x ch output
Serial port	1x ch RS485
Communication Interface	RJ45 10 M/100 M self-adaptive Ethernet
Storage	Embedded EMMC 16GB
General	
Web Client Language	English
Laser ranging or illumination	Optional
Wiper	Optional
Power Supply	DC24V,5A
Power Consumption	<60W
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
Dimension	φ310mmx446mm
Weight	<17Kg

Lens Indexes

LWIR 8~12μm			
Item	Focal Length (mm) & F number	Detector 12μm	Spectral Range
Athermalized			
1	2mm, F1.0	256x192,12μm	8~12μm
2	3.6mm, F1.0	256x192,12μm	8~12μm
3	3.8mm, F1.4	384x288,12μm	8~12μm
4	4.3mm, F1.2	384x288,12μm	8~12μm
5	5.1mm, F1.2	640x512,12μm	8~12μm
6	7.0mm, F1.0	384x288,12μm	8~12μm
7	8.0mm, F1.0	640x512,12μm	8~12μm
8	9.6mm, F1.0	640x512,12μm	8~12μm
9	9.8mm, F1.0	384x288,12μm	8~12μm
10	10mm, F1.0	384x288,12μm	8~12μm
11	12mm, F1.0	640x512,12μm	8~12μm
12	15mm, F1.2	384x288,12μm	8~12μm
13	19mm, F1.0	640x512,12μm	8~12μm
14	19mm, F1.0	640x512,12μm	8~12μm
15	21.7mm, F0.9	384x288,12μm	8~12μm
16	25mm, F1.0	640x480,12μm	8~12μm
12	25mm, F1.0	384x288,12μm	8~12μm
18	35mm, F1.0	640x512,12μm	8~12μm
19	40mm, F1.0	640x512,12μm	8~12μm
20	40mm, F1.0	640x512,12μm	8~12μm
21	40mm, F1.0	640x512,12μm	8~12μm
22	50mm, F1.0	640x512,12μm	8~12μm
23	60mm, F1.0	640x512,12μm	8~12μm
24	75mm, F1.1	640x512,12μm	8~12μm
25	100mm, F1.2	640x512,12μm	8~12μm
26	100mm, F1.0	640x512,12μm	8~12μm

LWIR8~12μm			
Item	Focal Length (mm) & F number	Detector 12μm	Spectral Range
Manual Focus			
27	3.5mm, F1.0	640x512,12μm	8~12μm
28	4.6mm, F1.0	640x512,12μm	8~12μm
29	5mm, F1.0	640x512,12μm	8~12μm
30	8.5mm, F1.2	640x512,12μm	8~12μm
31	11mm, F1.0	384x288,12μm	8~12μm
32	13mm, F1.2	640x512,12μm	8~12μm
33	15mm, F1.0	640x512,12μm	8~12μm
34	25mm, F1.2	640x512,12μm	8~12μm
35	25mm, F1.0	640x480,12μm	8~12μm
36	35mm, F1.0	640x480,12μm	8~12μm
37	38mm, F1.0	384x288,12μm	8~12μm
38	40mm, F1.0	640x512,12μm	8~12μm
39	40mm, F1.2	640x512,12μm	8~12μm
40	50mm, F1.0	640x512,12μm	8~12μm
41	50mm, F1.0	640x512,12μm	8~12μm
42	50mm, F1.2	640x512,12μm	8~12μm
43	75mm, F1.2	640x512,12μm	8~12μm
44	100mm, F1.2	640x512,12μm	8~12μm

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

Lens Indexes

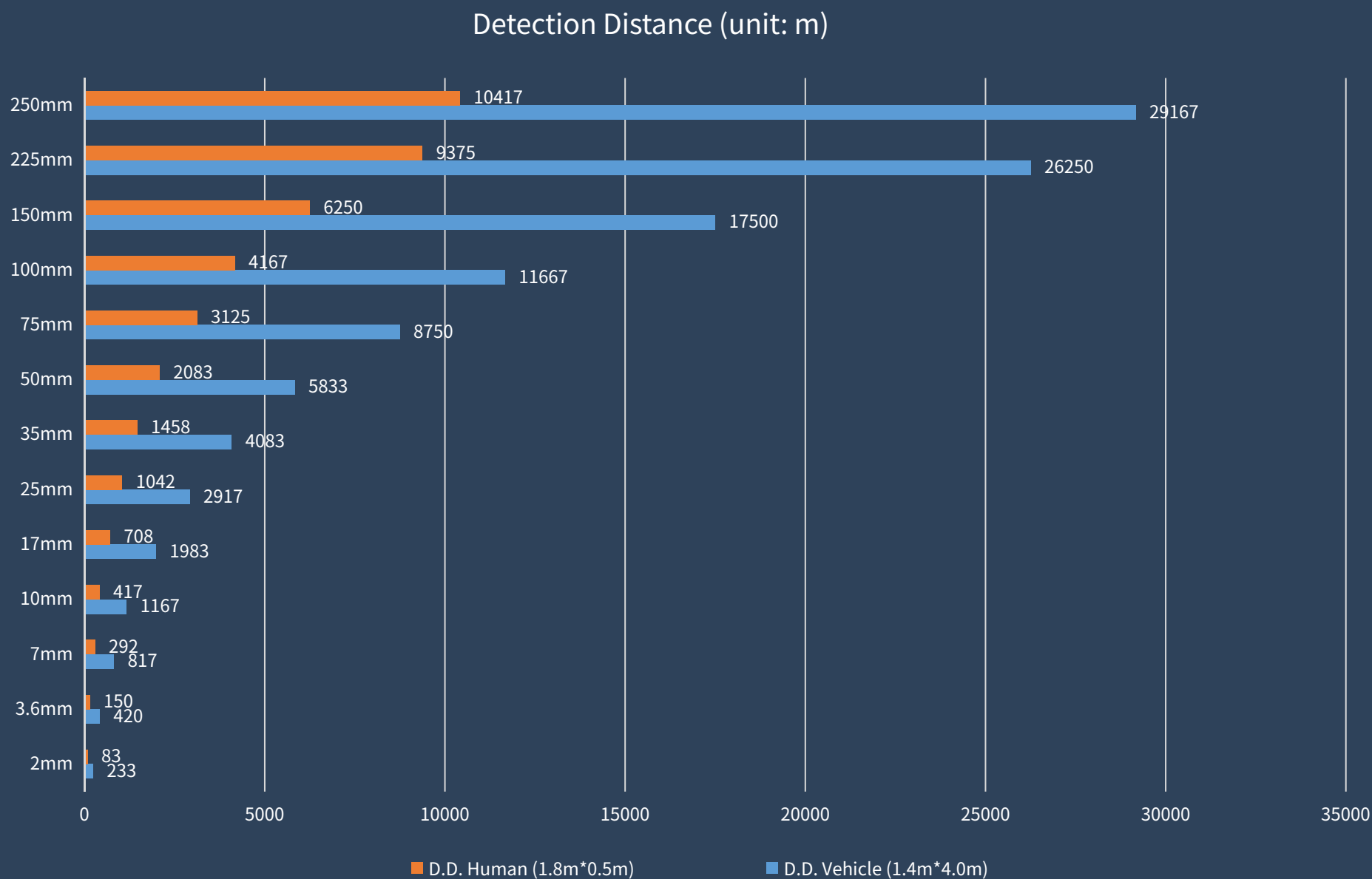
LWIR8~12μm			
Item	Focal Length (mm) & F number	Detector 12μm	Spectral Range
Motorized Focus			
45	25mm, F1.0	640x480,12μm	8~12μm
46	35mm, F1.0	640x480,12μm	8~12μm
47	40mm, F1.0	384x288,12μm	8~12μm
48	50mm, F1.0	384x288,12μm	8~12μm
49	50mm, F1.0	640x512,12μm	8~12μm
50	52mm, F1.0	384x288,12μm	8~12μm
51	70mm, F1.0	640x480,12μm	8~12μm
52	75mm, F1.0	384x288,12μm	8~12μm
53	75mm, F1.0	640x480,12μm	8~12μm
54	75mm, F1.0	640x512,12μm	8~12μm
55	75mm, F1.0	640x512,12μm	8~12μm
56	100mm, F1.0	640x480,12μm	8~12μm
57	100mm, F1.0	1024x768,12μm	8~12μm
58	100mm, F1.2	640x512,12μm	8~12μm
59	150mm, F1.0	640x480,12μm	8~12μm
60	150mm, F1.2	640x512,12μm	8~12μm

LWIR8~12μm			
Item	Focal Length (mm) & F number	Detector 12μm	Spectral Range
Motorized Zoom			
61	15-60mm, F1.0	640x512,12μm	8~12μm
62	25-75mm, F1.0	640x512,12μm	8~12μm
63	25-100mm, F1.0	640x512,12μm	8~12μm
64	25-225mm, F1.2	640x512,12μm	8~12μm
65	25-225mm, F1.0	1280x1024,12μm	8~12μm
66	28-300mm, F1.2	1280x1024,12μm	8~12μm
67	30-135mm, F1.0	640x512,12μm	8~12μm
68	30-150mm, F1.0	640x512,12μm	8~12μm
69	30-150mm, F1.0	800x600,12μm	8~12μm
70	30-150mm, F1.2	640x512,12μm	8~12μm
71	30-160mm, F1.2	640x512,12μm	8~12μm
72	40-200mm, F1.2	1024x768,12μm	8~12μm
Double FOV			
73	20~60mm, F1.0	640×512, 12μm	8~12μm
74	50-150mm, F1.0	640x512,12μm	8~12μm

MWIR3~5μm			
Item	Focal Length (mm) & F number	Detector 12μm	Spectral Range
Motorized Zoom			
75	15-330mm, F4.0	640x512,12μm	3-5μm
76	30-660mm, F4.0	640x512,12μm	3~5μm
77	40-825mm, F4.0	640x512,12μm	3-5μm

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

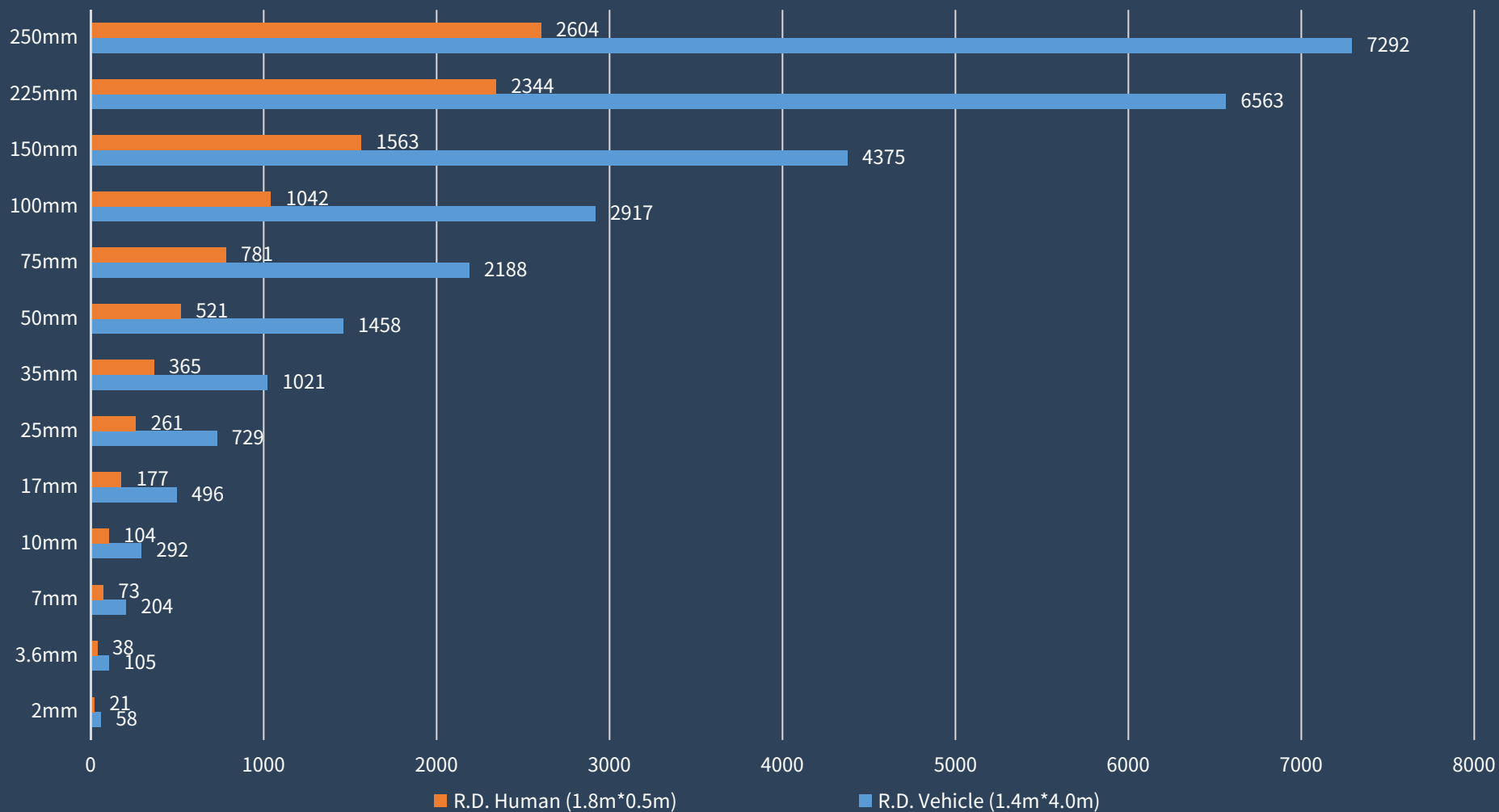
Thermal Camera Range Performance



D.D. Detection Distance; R.D. Recognition Distance; I.D. Identification Distance
Notes: The table is for reference only, and the performance may vary according to different environment.

Thermal Camera Range Performance

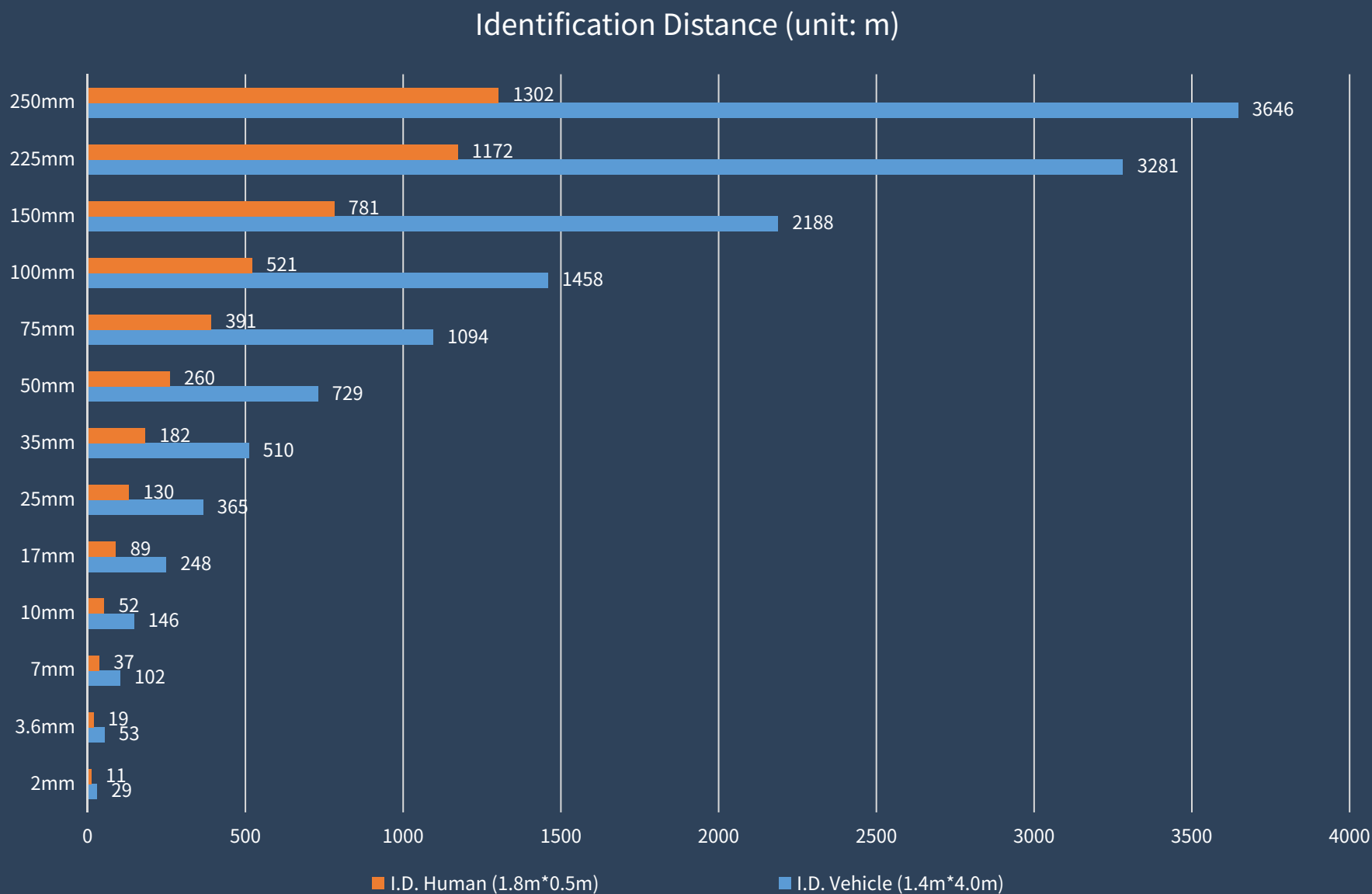
Recognition Distance (unit: m)



D.D. Detection Distance; R.D. Recognition Distance; I.D. Identification Distance

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

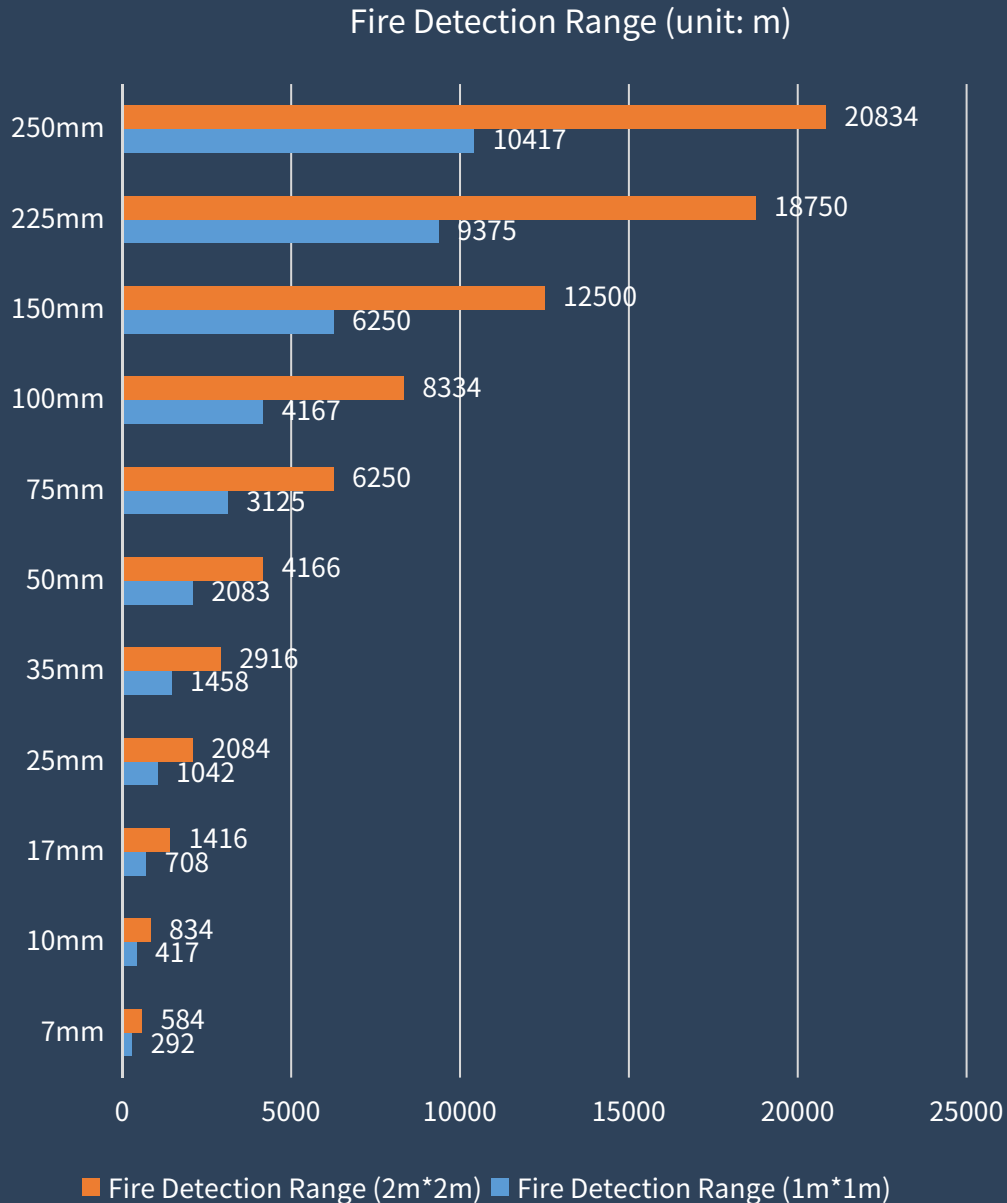
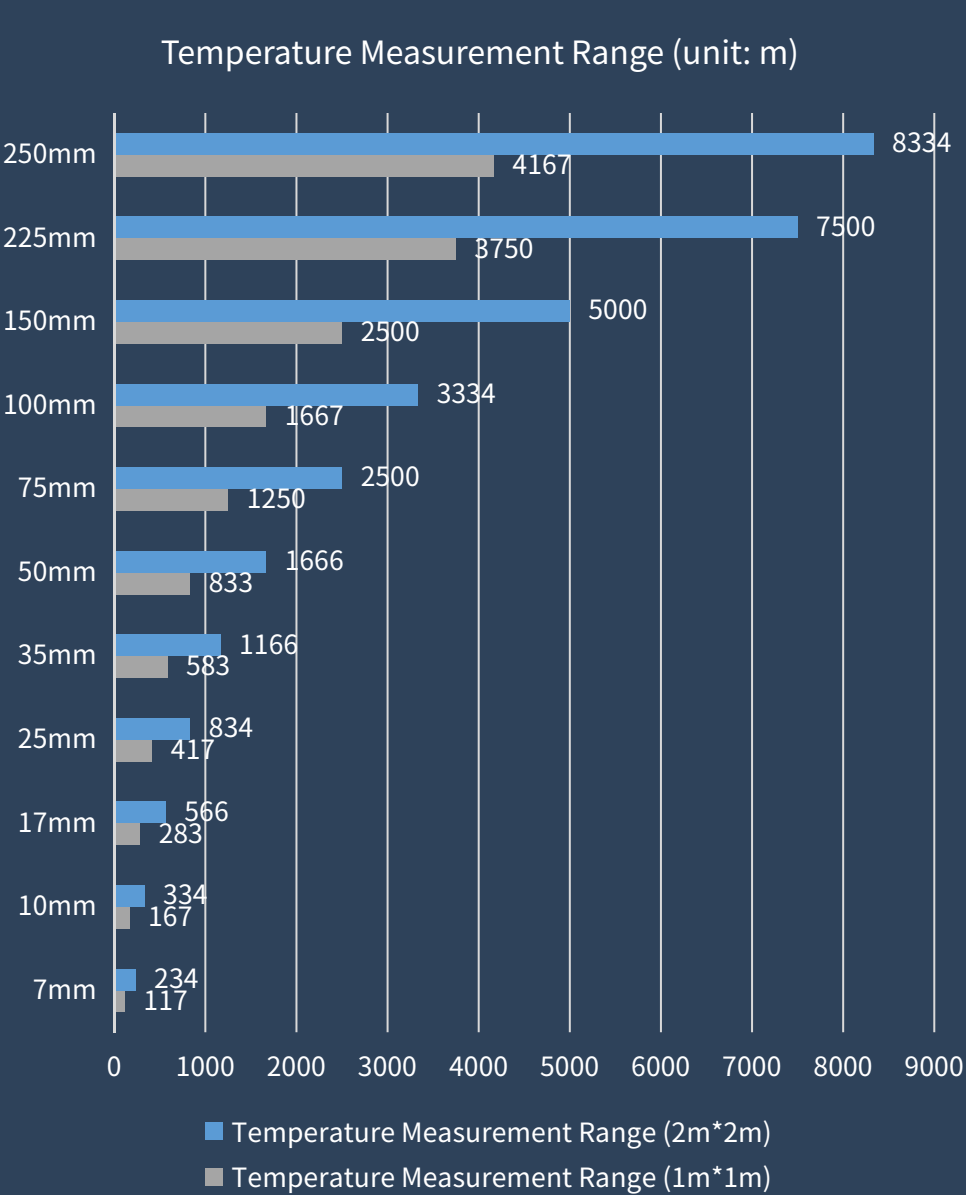
Thermal Camera Range Performance



D.D. Detection Distance; R.D. Recognition Distance; I.D. Identification Distance

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

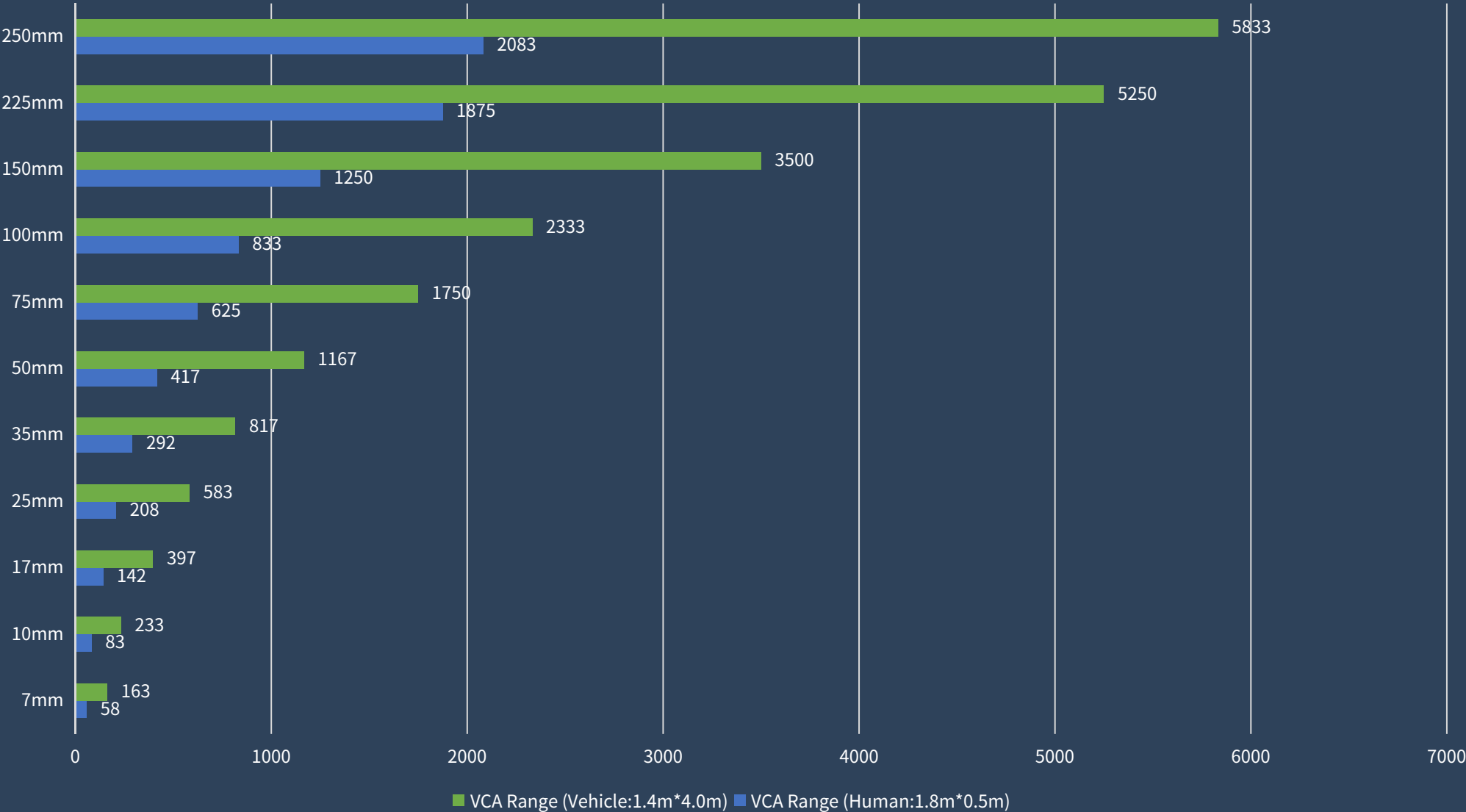
Smart Functions Range



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

Smart Functions Range

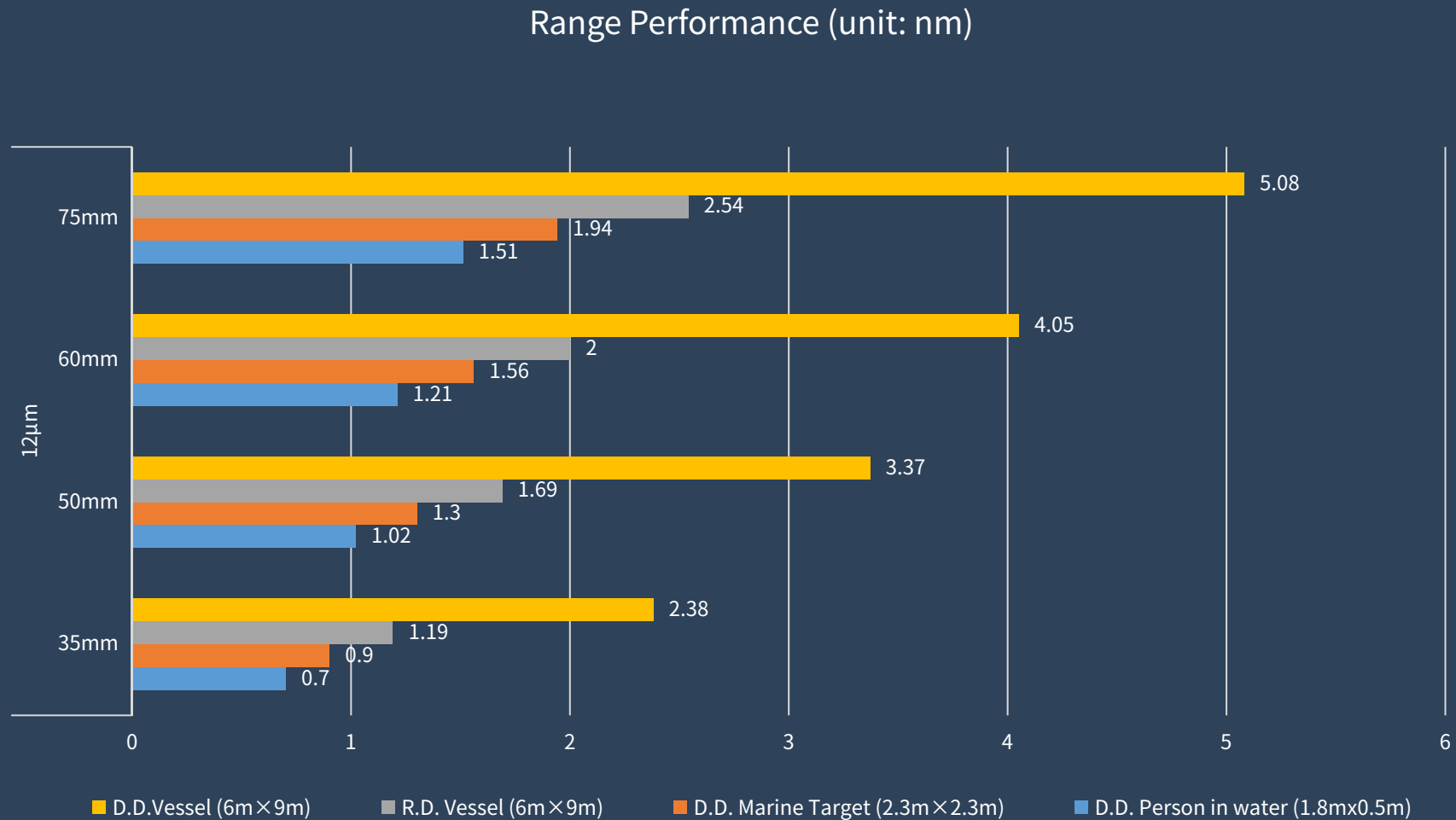
VCA Range (unit: m)



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

Thermal Marine Camera Range Performance

There is range limit for detecting and recognizing human/vessel target/marine target.



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



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