

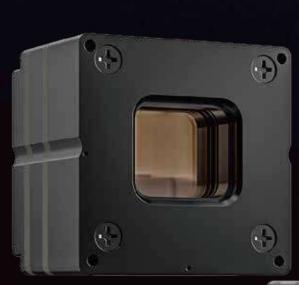




Fireye

Infrared Camera Core

The core adopts a highly reliable infrared detector, possessing excellent resistance to shock and impact; independently developed core components including lenses, detectors, and structures ensure technical security and autonomous reliability; it integrates hardware and software seamlessly, effectively compensating for energy drift characteristics to ensure maximum image clarity and smoothness; customizable support for multiple interfaces and a variety of specifications for infrared lens selection cater to diverse application scenarios. With outstanding performance, stable structure, and flexible configurability, the core is suitable for the development and integration of infrared thermal imaging devices/systems in various fields, integration of imaging systems, and electro-optical systems, and can be applied in areas such as automotive night vision, security monitoring, outdoor sports, firefighting and rescue, law enforcement, and search and rescue.





















Adapts to Multiple Customized





High Frame Rate







FE-SL/FE-S

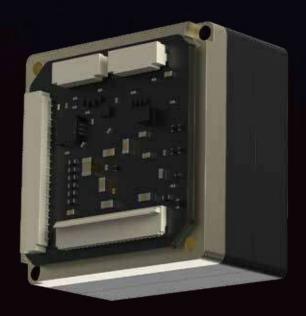
Detector Performance						
Туре	Uncooled VOx Microbolometer					
Resolution	384×288 640×512					
PixelsSize	12μ	ım				
NETD	≤ 50mk, @I	F1.0, 300K				
Frame Frequency	≤ 50)Hz				
Spectral Band	8 ~ 1.	4μm				
Image Function						
Image Correction	Shutter/Shutterle	ess (Selectable)				
Brightness Contrast Adjustment	Auto/M	1anual				
Digital Zoom	1-{	Зх				
Reticle	Show/Hic	de/Move				
Pseudo-color	Whitehot / Blackho	ot / Iron / Rainbow				
Image Processing	Non-uniformity Correction, Digital Filtering for	Noise Reduction, Digital Detail Enhancement				
Power Supply						
Power Supply Protection	Supports Over-voltage, Under-voltag	e and Reverse Connection Protection				
Power Input	DC 3.8	~ 5.5V				
Power Consumption	≤ 1W					
Environmental Parameters						
Vibratory	6.06g,Random Vibration, All Axial Directions					
Reliability	200g, 4ms, Back Peak Sawtooth, 3 Axes, 6 Directions					
Humidness	5 ~ 95%, Non-condensing					
Operation Temperature	-20°C~+55°C					
Storage Temperature	-55°C~	+70°C				
Lens Options (Selectable)						
Objective Lens	9.1/13/19/25/3	5/50mm, F1.0				
Focusing Method	Man	ual				
Field of View	28.9° × 21.62° (9.1mm) 20.1° × 15.14° (13mm) 13.83° × 10.39° (19mm) 10.53° × 7.91° (25mm) 7.53° × 5.65° (35mm) 5.28° × 3.96° (50mm)	49.1° × 38.74° (9.1mm) 32.91° × 26.59° (13mm) 22.85° × 18.37° (19mm) 17.46° × 14.01° (25mm) 12.52° × 10.03° (35mm) 8.78° × 7.03° (50mm)				
Interface						
Analog Video	CVBS					
Digital Video	BT.656/LVDS/MIPI/Cameralink/SDI/ETH (Selectable)					
Communication Interface	UART	7/12C				
Physical Parameter						
Weight	Shutter ≤ 22.3g / Shutterless ≤ 20g (Lens Free)					
Dimensions	25 × 25 × 19mm (Lens Free)					

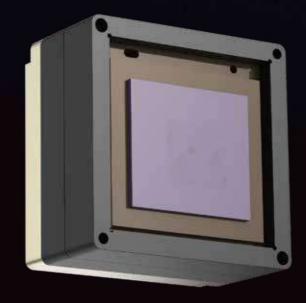
Fireye A

Infrared Camera Core

The uncooled infrared core component is a small, lightweight, and low-power module. It operates without shutter and TEC, ensuring smooth continuous imaging. The core uses a highly reliable infrared detector, offering excellent shock and impact resistance. It is independently developed, ensuring technical safety and reliability. with integrated software and hardware design that effectively compensates for energy drift, maximizing image clarity and

The core supports both analog and digital video output, along with convenient control interfaces. It is compatible with various specifications of infrared lenses, making it suitable for applications in vehicle night vision, security monitoring, outdoor sports, firefighting and rescue, and law enforcement search and rescue.



























Customized Services





High Frame Rate Adaptation To

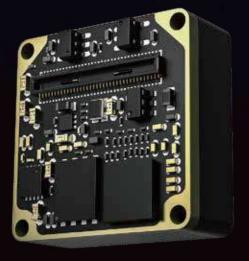
FE-SL-E-A/FE-SL-Q-A

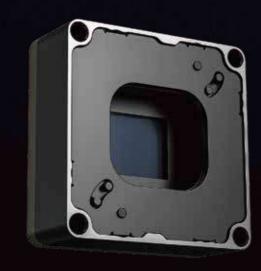
Detector Performance					
Туре	Uncooled VOx Microbolometer				
Resolution	384×288 640×512				
PixelsSize	12	2μm			
NETD	≤ 50ml	k@300K			
Frame Frequency	≤ 5	50Hz			
Spectral Band	8 ~	14μm			
Interface					
Analog Video	PAL/	/NTSC			
Digital Video Interface	ВТ	⁻ 656			
I/O	UART (1	TTL 3.3V)			
DC	4.5V	~ 18V			
Typical DC	1	2V			
Typical Power @25°C	≤ 0.9W (PAL on)	≤ 0.72W (PAL off)			
Shutter	Shutterless				
Functional Parameters					
Brightness Contrast Adjustment	Auto/	'Manual			
Gain Control	Manual/Semi-	-automatic/Auto			
Pseudo-color	Blackhot, Whitehot, Redhot, Rai	inbow, Sky, Edge, Polarity reversal			
Image enhancement	On	n/Off			
Image Processing	Digital Filtering fo	or Noise Reduction			
Reticle	Show/H	lide/Move			
Environmental Parameters					
Reliability	600g, 4ms, Back Peak Sa	awtooth, 3 Axes, 6 Directions			
Operation Temperature	-40°C ~+60°C				
Storage Temperature	-50°C ~+70°C				
Humidness	5 ~ 95%, Non-condensing				
Physical Parameter					
Weight	≤ 21g (Lens Free)				
Dimensions	26.5 × 26.5 × 17.56mm (Lens Free)				

Spiritpupil

Infrared Camera Core

The core module incorporates a high-reliability infrared detector with outstanding shock and vibration resistance. All critical components, including the lens, detector, and structural elements, are developed in-house to ensure technical safety and reliability. The integrated software and hardware design effectively compensates for energy drift, providing exceptional image clarity and smoothness. Notably, the module is compact and features a small form factor. It supports customizable interfaces and offers a variety of interchangeable infrared lenses to meet diverse application needs. With its superior performance, durable construction, and versatile configurability, this module is well-suited for integration into infrared thermal imaging systems, optical-electronic devices, and applications such as automotive night vision, security surveillance, outdoor activities, fire rescue, and law enforcement.













Compact

























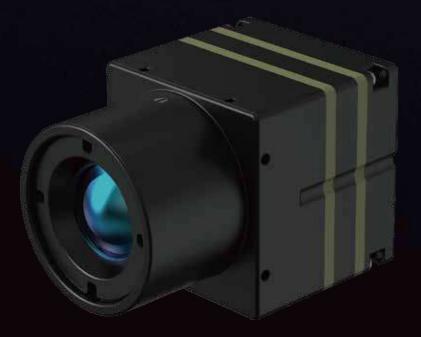


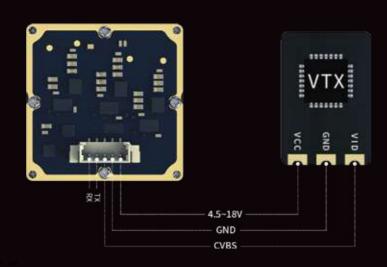
SP-SL/SP-S

Detector Performance					
Туре	Uncooled VOx Microbolometer				
Resolution	384×288 640×512				
PixelsSize	12μ	ım			
NETD	≤ 50mk, @f	F1.0, 300K			
Frame Frequency	≤ 50	Hz			
Spectral Band	8 ~ 1	4μm			
Image Function					
Image Correction	Shutter/Shutterle	ess (Selectable)			
Brightness Contrast Adjustment	Auto/M	lanual			
Digital Zoom	1-8	Зх			
Reticle	Show/Hic	de/Move			
Pseudo-color	Whitehot / Blackho	ot / Iron / Rainbow			
Image Processing	Non-uniformity Correction, Digital Filtering for	Noise Reduction, Digital Detail Enhancement			
Power Supply					
Power Supply Protection	Supports Over-voltage, Under-voltage	e and Reverse Connection Protection			
Power Input	DC 3.8	~ 5.5V			
Power Consumption	≤ 600mW				
Environmental Parameters					
Vibratory	6.06g,Random Vibration, All Axial Directions				
Reliability	200g,4ms,Back Peak Sawtooth, 3 Axes, 6 Directions				
Humidness	5 ~ 95%, Non-condensing				
Operation Temperature	-20°C~+55°C				
Storage Temperature	-55°C~	+70°C			
Lens Options (Selectable)					
Objective Lens	9.1/13/19/25/3	5/50mm, F1.0			
Focusing Method	Man	ual			
Field of View	28.9° × 21.62° (9.1mm) 20.1° × 15.14° (13mm) 13.83° × 10.39° (19mm) 10.53° × 7.91° (25mm) 7.53° × 5.65° (35mm) 5.28° × 3.96° (50mm)	49.1° × 38.74° (9.1mm) 32.91° × 26.59° (13mm) 22.85° × 18.37° (19mm) 17.46° × 14.01° (25mm) 12.52° × 10.03° (35mm) 8.78° × 7.03° (50mm)			
Interface					
Analog Video	CVBS				
Digital Video	BT.656/LVDS/MIPI				
Communication Interface	UART				
Physical Parameter					
Weight	≤ 10g (Lens Free)				
Dimensions	21mm × 21mm × 9mm (Lens Free)				

Fireye V2 Infrared Camera Core

The core adopts a highly reliable infrared detector, possessing excellent resistance to shock and impact; independently developed core components including lenses, detectors, and structures ensure technical security and autonomous reliability; it integrates hardware and software seamlessly, effectively compensating for energy drift characteristics to ensure maximum image clarity and smoothness, while being simple and easy to use. Thanks to its outstanding performance, stable structure, and flexible configurability, the core is specifically tailored for the field of unmanned aerial vehicles and suitable for the development and integration of infrared thermal imaging devices/ systems in various fields, integration of imaging systems, and electro-optical systems, and can be applied in areas such as automotive night vision, security monitoring, outdoor sports, firefighting and rescue, law enforcement, and search and rescue.

























High Frame Rate Adaptation To

FE-SL-E09V2/FE-SL-Q09V2/FE-S-E09V2/FE-S-Q09V2

Detector Performance					
Туре	Uncooled VOx Microbolometer				
Resolution	384×288 640×512				
PixelsSize	12μ	m			
NETD	≤ 50mk, @F	1.0, 300K			
Frame Frequency	≤ 50	Hz			
Spectral Band	8 ~ 14	·μm			
Image Function					
Image Correction	Shutter/Shutterle	ess (Selectable)			
Brightness Contrast Adjustment	Auto/M	anual			
Digital Zoom	1-8	Xx			
Reticle	Show/Hid	e/Move			
Pseudo-color	Whitehot / Blackho	ot / Iron / Rainbow			
Image Processing	Non-uniformity Correction, Digital Filtering for	Noise Reduction, Digital Detail Enhancement			
Power Supply					
Power Supply Protection	Supports Over-voltage, Under-voltage and Reverse Connection Protection				
Power Input	DC 4.5	~ 18V			
Power Consumption	≤ 1W				
Environmental Parameters					
Vibratory	6.06g,Random Vibration	on, All Axial Directions			
Reliability	200g, 4ms, Back Peak Saw	rtooth, 3 Axes, 6 Directions			
Humidness	5 ~ 95%, Non-condensing				
Operation Temperature	-20°C~-	+55°C			
Storage Temperature	-55°C~-	+70°C			
Lens Options (Selectable)					
Objective Lens	9.1mm,	F1.0			
Focusing Method	Man	ual			
Field of View	28.9° × 21.62° (9.1mm)	49.1° × 38.74° (9.1mm)			
Interface					
Analog Video	CVBS				
Communication Interface	UART				
Physical Parameter					
Weight	≤ 40g±2g (With Lens)				
Dimensions	25mm × 25mm × 42mm (With Lens)				

HI

Cooled Core Module

The module features a lightweight and compact cooled core that can start at high temperatures of 150K, supporting nonuniformity correction, digital noise reduction, digital dynamic compression, black-and-white hot switching, and digital detail enhancement. It is equipped with a variety of image output interfaces and can be widely used in fields such as handheld equipment for individual soldiers, optoelectronic pods, coastal defense surveillance, guidance and search, and gas detection.

























High Frame Adaptation To Rate Harsh Environments

HIE30/HIQ15

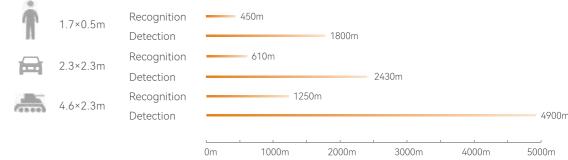
Detector Performance					
Detector Material	InAsSb				
Resolution	320×256 640×512				
Pixels Size	30μm	15µm			
Spectral Band	3.7um-4.8um	/3.7um-5.1um			
Aperture	F2/F4	ı/F5.5			
NETD@F4	<20)mk			
Frame Frequency	25Hz/50Hz/1	00Hz/200Hz			
Image Function					
Brightness Adjustment	Auto/N	Manual			
Contrast Adjustment	Auto/N	Manual (
Pseudo-color	Blackhot/ Whi	tehot (Default)			
Digital Zoom	1/2/	/4/8			
Image Processing	Digital Filtering for Noise Reduction/ Contr	Non-uniformity Correction/ Bad Pixel Detection and Correction/ Digital Filtering for Noise Reduction/ Contrast Stretching/ Digital Detail Enhancement/ Brightness Adjustment/ Image Compression			
Image Mirroring	Horizontal/ Vertical/ Diagonal				
Physical Data					
Dimension	69 × 67 × 44mm				
Weight	<340g				
Interface and Electrical Para	ameters				
Power Input	DC12	V+1V			
Power Consumption	Initial Power: ≤ 18W@23°C	Stable Power: ≤ 6W@23°C			
Analog Interface	P/	AL			
Digital Interface	Cameralink/SDI/CML/B	T1120/HDMI/RJ45/USB			
Communication Interface	RS422;The baud rate is conf	figurable;Default:115200bps			
Operation Temperature	-40°C ~+60°C				
Storage Temperature	-45°C ~+65°C				
Environmental Parameters					
Random Vibration	5.9	8g			
Shock Resistance	50g/11ms,Half Sine Wave, In the X/Y/Z Direction				
Reliability	MTTE@63 2% ≥ 20000h				

Petite PT-Q19



Specifications

Product Categories	PT-Q19	
Resolution	640×512	
PixelsSize	12μm	
Field of View	22.733° ×18.26°	
Frame Rate,Hz	25Hz	
NETD	≤ 50mk@25°C ,F1.0	
MRTD	≤ 400mk@25°C ,F1.0	
Operation Temperature	-20°C ~ +50°C	
Power Consumption	< 1W	
Weight	≤ 58g	
Dimension	27.5*27.5*46mm	
Support System	Android 6.0 and Above	
Image Enhancement	Digital Detail Enhancement	
Image Correction	Manual	
Pseudo-color	Whitehot / Blackhot / Rainbow/ Iron	
Secondary Development	Provide Sdk Development Kit	
Reticle	Division and Hot Spot Tracking	
Video Saving	Support Photo Taking and Video Recording Functions	
Software Updates	Support Online Software Update Function	



Night Demon

Monocular Head-Mounted Thermal Imager

ND-IR is a multifunctional monocular head-mounted thermal imaging camera, suitable for night, dim, no light, bad weather and other complex scenes under the conditions of observation and target search, small size, light weight, clear and continuous image, long endurance, can be used as a head-mounted, hand-held, clip-on, infrared thermal aiming, a multifunctional combination. Suitable for security law enforcement, field adventure, search and rescue and other fields. Effective Range 00

Model	ND-IR-E16	ND-IR-E09	ND-IR-Q16	ND-IR-Q26		
Thermal Imaging Parameters			•			
Detector	Uncooled VOx Microbolometer					
Resolution, pixels	384×288/12μm 640×512/12μm					
Frame Rate,Hz	50Hz					
Shutterless	No Shutter Calibration					
Display		0.39" OLEI	O 1024x768			
Optical Specifications						
Objective Lens (F1.0)	16mm	9.6mm	16mm	26.7mm		
Field of View	16.4° ×12.3°	27° ×20.4°	27° ×21.7°	16.4° ×13.1°		
Visual Magnification		1-	-4×			
Eyepiece Diopter	-6~+3	-5~+5	-5~+5	-6~+3		
Eye Relief		25	mm			
Laser Indicator						
Output Wavelength/Power		650nm	/2-5mW			
Spot Range		> 1	00m			
Spot Size		< 2	0mm			
Functional Parameters						
Digital Zoom		1-	-4x			
Electronic Compass		Azimuth /	Pitch / Roll			
Wi-Fi						
Video/Image Capture						
Device Information						
Spectral Band		8~1	4μm			
NETD		≤ 35ml	(@300K			
Polarity Model	Whit		Iron Red / Desert Yo Hot / Sky / Edge	ellow		
Use Method		Handheld, Head-	mounted, Clip-On			
Weight		≤ 2	50g			
Dimensions		119x39	9x79mm			
Power Supply		One 18650 l	_i-ion Battery			
Operating Time (Without WiFi)		≥	4h			
Interface	Power S	upply/Serial Port/A	nalog Video Outpu	t/Type-C		
Mechanical Interface		2 x 1/4 Threaded	holes, Piccatini Rail			
Operation Temperature	−20°C ~+50°C					
Protection Rating	IP67					
Reliability	800g Shock Resistance					
Adaptability	All-weather					
Recognition Range (Human)	370m 220m 370m 630m					
Detection Range (Human)	1500m	900m	1500m	2500m		
Accessory Kit	Cables(USB2.0&BNC) Helmet support, well-matched support, Carrying Bag, User Manual, Cleaning Cloth					

Specifications

Model	ND-NV31		
Optical Specifications			
Objective Lens	26.8mm/ F1.28		
Field Of View	40°		
Visual Magnification	1x		
Focal Length Range	250mm~ ∞		
Eyepiece Diopter	-5~+5		
Eye Relief	25mm		
Exit Pupil Diameter	14mm		
Performance Specifications			
LED Indicator (In The Field Of View)	Infrared auxiliary illumination/ flip up or flip side screen off/ High-light protection/ low battery indicator		
Image Intensifier	GEN 2+ (≥ 64lp/mm)		
Image Tube Compatibility	MX10160 Contact、NNVT 3-Wire		
Power Supply	Single AA Battery		
Operating Time	20h		
IR (Infrared) illuminator	850nm		
High-light protection	Supports		
Flip-Up Screen Off	Supports		
Flip-Side Screen Off	Supports		
Indicator Light	Supports		
IPD Adjustment	56-72mm		
System Information			
Weight (No Batt.)	≤ 550g		
Dimensions	100×85×113mm		
Operation Temperature	-40°C ~ +50°C		
Protection Rating	IP67		
Interface	L4G24		
Night Vision Intensifier			
Ultimate Resolution	64		
Signal-to-Noise Ratio	28		
Phosphor	P43 (Green Phosphor) /P45 (White Phosphor)		

ND-NV31 binocular Low-Light night vision device is a portable tool designed for low-light or nighttime use. It features two independent image intensifiers that simulate human vision to provide stereoscopic effects, enhancing depth perception and spatial awareness. The device can be mounted directly onto a helmet using a bracket, allowing hands-free observation. It is widely used in military, law enforcement, and rescue operations.

Night Demon-NV31

Binocular Head-Mounted Low-Light













MK-IR

Handheld Thermal Imaging Monocular

The MK-IR series is a high-performance infrared thermal imaging device that allows you to observe thermal distribution of objects or scenes at a distance under any lighting conditions.























Specifications

Model	MK-IR-E MK-IRS-E	MK-IR-Q MK-IRS-Q			
Detector	Uncooled VOx Microbolometer				
Resolution, pixels	384×288/12µm	640×512/12μm			
Objective Lens (F1.0)	19mm 25mm 35mm	25mm 35mm			
Field of View	13.9° ×10.4° 10.6° ×7.9° 7.5° ×5.	.7° 17.6° ×14.1° 12.6° ×10.1°			
Visual Magnification	2.09~8.37 2.75~11.01 3.85~15.	41 1.61~6.45 2.26~9.03			
Laser Indicator (IRS)	650nm Class II	Range >100m			
Spectral Band	8~14μι	m			
Eyepiece Diopter	-5~+5	5			
Eye Relief	20mm	١			
NETD	≤ 35mk@(300K			
Display	0.39" OLED 1024x768				
Digital Zoom	1x、2x、4x				
Frame Rate.Hz	50Hz				
Protection Rating	IP67				
Power Source	3400mAh Li-ic	on Battery			
Operating Time	≥ 5h				
Interface	External Power/ Type-C				
Weight (Without Battery)	≤ 470g				
Dimensions	196×70×58mm				
Operating Temperature	-20°C ~+50°C				
Detection Range (Human)	19mm/1800m 25mm/2370m 35mm/3310m				
Detection Range (Animal)	19mm/1590m 25mm/2090m 35mm/2920m				

Effective Range

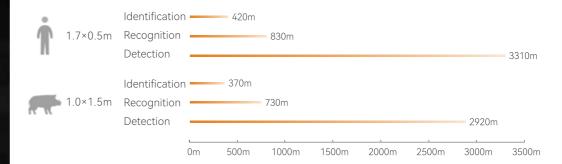


Image Mode











MK-LR

Handheld Thermal Imaging Monocular



Image Mode



Black Hot

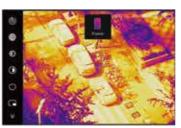


Red Hot



White Hot

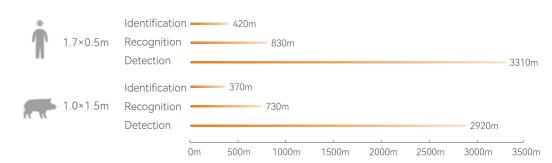




Green Hot Fusion

Specifications

Model	MK-LR-E	MK-LR-Q			
Detector	Uncooled VOx Microbolometer				
Resolution, pixels	384×288/12μm	640×512/12μm			
Objective Lens(F1.0)	19mm 25mm 35mm	25mm 35mm			
Field of View	13.9×10.4° 10.6°×7.9° 7.5°×5.7°	17.6° ×14.1° 12.6° ×10.1°			
Visual Magnification	2.09~8.37 2.75~11.01 3.85~15.41	1.61~6.45 2.26~9.03			
Spectral Band	8~14μm				
Eyepiece Diopter	-5~+5				
Eye Relief	20mm				
NETD	≤ 35mk@300	OK .			
Display	0.39" OLED 102	4x768			
Digital Zoom	1x、2x、4x				
Frame Rate.Hz	50Hz				
Protection Rating	IP67				
Measuring Distance	1200m				
Power Source	3400mAh Li-ion l	Battery			
Operating Time	≥ 5h				
Interface	External Power/ Type-C				
Weight (Without Battery)	≤ 515g				
Dimensions	196×70×90mm				
Operating Temperature	- 20°C ∼+50°	C			
Detection Range(Human)	19mm/1800m 25mm/2370m 35mm/3310m				
Detection Range(Animal)	19mm/1590m 25mm/2090	m 35mm/2920m			



SMART

Handheld Thermal Imaging Monocular

The SMART is a compact and lightweight high-performance infrared thermal imager designed with a minimalist aesthetic that combines ease of use and reliability. With long-lasting battery life, It allows you to observe the thermal distribution of objects or scenes at a distance under various lighting conditions.



























Specifications

Model	S-IR-E09	S-IR-E19	S-IR-E25	S-IR-Q19	S-IR-Q25
Detector	Uncooled VOx Microbolometer				
Resolution, pixels	3	84×288/12μr	640×51	640×512/12μm	
Objective Lens (F1.0)	9.7mm	19mm	25mm	19mm	25mm
Field of View	26.7° ×20.2°	13.8° ×10.4°	10.5° ×7.9°	22.9° ×18.4°	17.5° ×14.0°
Visual Magnification	1~4	1.8~7.2	2.4~9.6	1.1~4.4	1.5~5.8
Laser Indicator (IRS)		650nm	Class II R	ange >100m	
Spectral Band			8~14μm		
Eyepiece Diopter			-5~+5		
Eye Relief			23mm		
NETD			≤ 35mk@30	0K	
Display		0.3	9"OLED 102	4x768	
Digital Zoom			1x、2x、4	X	
Frame Rate.Hz	25Hz 50Hz 50Hz 50Hz 50H				
Protection Rating			IP67		
Power Source		0	ne 18650 ba	ttery	
Operating Time	≥ 7h	≥ 6h	≥ 6h	≥ 6h	≥ 6h
Interface			Type-C		
Weight (Including batteries)	≤ 251g ≤ 260g				
Dimensions	≤ 170×60×59mm				
Operating Temperature	-20°C ~+55°C				
Detection Range (Human)	9.7mm/450m 19mm/900m 19mm/900m 25mm/1200m				
Detection Range (Animal)		/400m 19mm 25mm/1000m	19mm/800m	25mm/1000m	

Effective Range

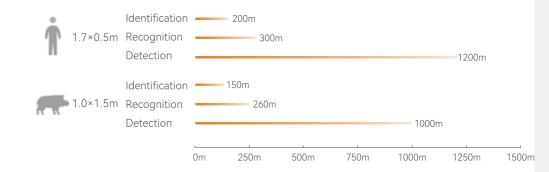
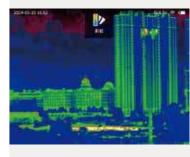


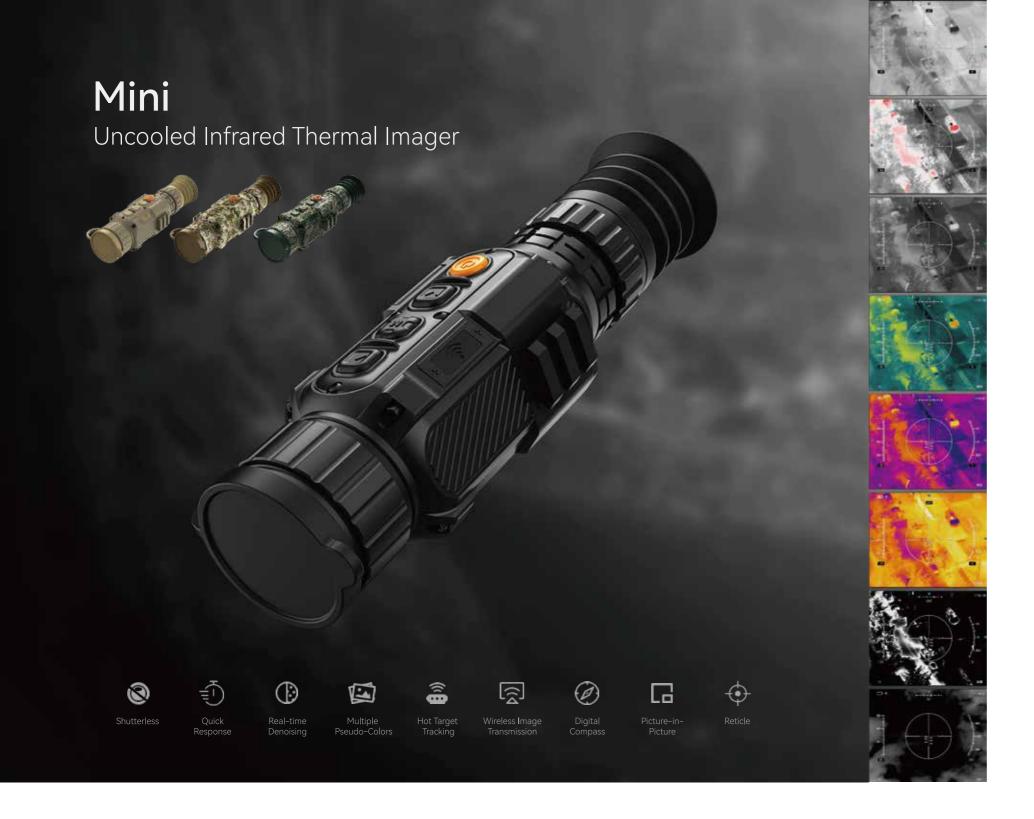
Image Mode









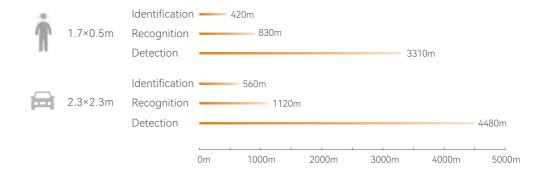


Specifications

Model	M-IR					
Detector	Uncooled VOx Microbolometer					
Resolution, pixels	384×288/12μm			640×51	640×512/12μm	
Objective Lens (F1.0)	19mm	25mm	35mm	25mm	35mm	
Field of View	13.9° ×10.4°	10.6° ×7.9°	° 7.5° ×5.7°	17.6° ×14.1°	12.6° ×10.1°	
Visual Magnification	1.83~7.32	2.41~9.63	3.37~13.48	1.41~5.64	1.98~7.9	
Spectral Band			8~14μm			
Frame Rate,Hz			50Hz			
NETD			≤ 35mk@300	K		
Display		0.3	39" OLED 1024	×768		
Digital Zoom			1x、2x、4x			
Eyepiece Diopter			-5 ~ +5			
Eye Relief			45mm			
Power Supply		Two	16340 Li-ion B	atteries		
Operating Time		≥ 2.5h		≥	2h	
Weight (Without Battery)			≤ 480g			
Dimensions	208x57x58mm (Including Eyepiece/Objective Covers)					
Interface		Ext	ernal Power/Ty	/ре-С		
Operation Temperature			-30°C ~+55°C			
Protection Rating			IP67			
Reliability	800g Shock Resistance					
Altitude	≥ 5000m					
Adaptability	All-weather					
Detection Range (Human)	19mm/1800m 25mm/2370m 35mm/3310m					
Detection Range (Object)	19m	m/2430m	25mm/3200r	n 35mm/44	80m	

Mini

The Mini series features a more compact and portable design, with button-based human-machine interaction, achieving equally clear observation.



LK-IR























Image Mode



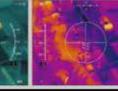


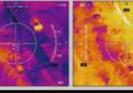
for long-range observation across diverse scenarios.



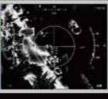


The LK-IR series thermal imager is an advanced infrared observation device featuring innovative no-shutter technology. It ensures seamless image output and offers flexibility with various lens options, making it ideal





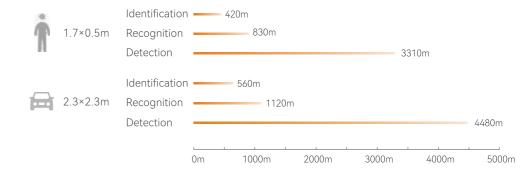






Specifications

Model	LK-IR		
Detector	Uncooled VOx Microbolometer		
Resolution, pixels	384×288/12μm 640×512/12μm		
Objective Lens (F1.0)	19mm 25mm 35mm 25mm 35mm		
Field of View	13.9° ×10.4° 10.6° ×7.9° 7.5° ×5.7° 17.6° ×14.1° 12.6° ×10.1°		
Visual Magnification	1.83~7.32 2.41~9.63 3.37~13.48 1.41~5.64 1.98~7.9		
Spectral Band	8~14µm		
Frame Rate,Hz	50Hz		
NETD	≤ 35mk@300K		
Display	0.39" OLED 1024x768		
Digital Zoom	1x、2x、4x		
Eyepiece Diopter	-5 ~ +5		
Eye Relief	45mm		
Power Supply	Two 18650 Li-ion Batteries		
Operating Time	≥ 8h		
Weight (Without Battery)	≤ 570g		
Dimensions	221x83x66mm (Including Eyepiece/Objective Covers)		
Interface	External Power/Type-C		
Operation Temperature	-30°C ~+55°C		
Protection Rating	IP67		
Reliability	1200g Shock Resistance		
Altitude	≥ 5000m		
Adaptability	All-weather		
Detection Range (Human)	19mm/1800m 25mm/2370m 35mm/3310m		
Detection Range (Object)	19mm/2430m 25mm/3200m 35mm/4480m		

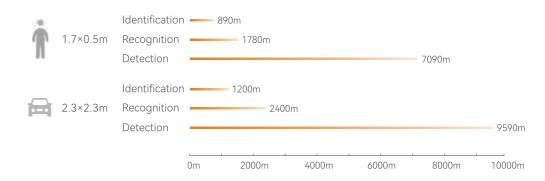


Model	LK-IR HD		
Detector	Uncooled VOx Microbolometer		
Resolution, pixels	384×288/12μm 640×512/12μm		2/12μm
Objective Lens (F1.2)	50mm	55mm	75mm
Field of View	5.3° ×4.0°	8.0° ×6.4°	5.9° ×4.7°
Visual Magnification	4.82~19.26	3.1~12.42	4.23~16.93
Spectral Band	8~14μm		
Frame Rate,Hz	50Hz		
NETD	≤ 35mk@300K		
Display	0.39" OLED 1024x768		
Digital Zoom	1x、2x、4x		
Eyepiece Diopter	-5 ~ +5		
Eye Relief	45mm		

Weight (Without Battery)	≤ 620g	≤ 635g	≤ 720g	
Dimensions	241x83x69mm	249x83x66mm	278x88x80mm	
Diffierisions	(Including Eyepiece/Objective Covers)			
Power Supply	Two 18650 Li-ion Batteries			
Operating Time	≥ 8h			
Interface	External Power/Type-C			
Operation Temperature	-30°C ~+55°C			
Protection Rating	IP67			
Reliability	2000g Shock Resistance			
Altitude	≥ 5000m			
Adaptability	All-weather			
Detection Range(Human)	50mm/4730m	55mm/5200m	75mm/7090m	
Detection Range(Object)	50mm/6390m	55mm/7030m	75mm/9590m	

LK-IR HD

The LK-IR Heavy Duty series, building upon the foundation of the LK-IR product line, employs lenses with extended focal lengths to achieve longer observation distances of up to nearly 10 kilometers. This advancement significantly expands its observational capabilities.



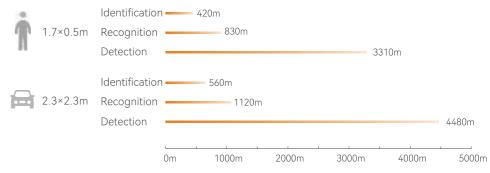
LK-LR

Image Mode

Uncooled Infrared Thermal Imager

The LK-LR series adds precise rangefinding capabilities to the LK-IR series products, enabling accurate positioning and target searching.





Model	LK-LR		
Detector	Uncooled VOx Microbolometer		
Resolution, pixels	384×288/12μm	640×512/12μm	
Objective Lens (F1.0)	19mm 25mm 35mm	25mm 35mm	
Field of View	13.9° ×10.4° 10.6° ×7.9° 7.5° ×5.7°	17.6° ×14.1° 12.6° ×10.1°	
Visual Magnification	1.83~7.32 2.41~9.63 3.37~13.48	1.41~5.64 1.98~7.9	
Spectral Band	8~14μm		
Frame Rate,Hz	50Hz		
NETD	≤ 35mk@30	0K	
Display	0.39" OLED 1024x768		
Digital Zoom	1x、2x、4x		
Eyepiece Diopter	-5 ~ +5		
Eye Relief	45mm		
Laser Ranging	1200m		
Power Supply	Two 18650 Li-ion Batteries		
Operating Time	≥ 8h		
Weight (Without Battery)	≤ 670g		
Dimensions	221x83x100mm (Including Eyepiece/Objective Covers)		
Interface	External Power/Type-C		
Operation Temperature	−30°C ~+55°C		
Protection Rating	IP67		
Reliability	1200g Shock Resistance		
Altitude	≥ 5000m		
Adaptability	All-weather		
Detection Range (Human)	19mm/1800m 25mm/2370	m 35mm/3310m	
Detection Range (Object)	19mm/2430m 25mm/3200	m 35mm/4480m	

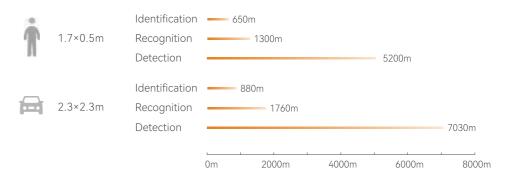
LK-LR HD

Uncooled Infrared Thermal Imager

The LK-LR Heavy Duty series, in addition to incorporating precise rangfinding capabilities on top of the LK-IR product base, is also equipped with lenses of greater focal lengths, facilitating even longer observation distances.

Specifications

Model	LK-LR HD		
Detector	Uncooled VOx Microbolometer		
Resolution, pixels	384×288/12μm 640×512/12μm		12/12μm
Objective Lens (F1.2)	50mm	55mm	75mm
Field of View	5.3° ×4.0°	8.0° ×6.4°	5.9° ×4.7°
Visual Magnification	4.82~19.26	3.1~12.42	4.23~16.93
Spectral Band	8~14um		
Frame Rate,Hz	50Hz		
NETD	≤ 35mk@300K		
Display	0.39" OLED 1024x768		
Digital Zoom	1x、2x、4x		
Eyepiece Diopter	-5 ~ +5		
Eye Relief	45mm		
Measuring Distance	1200m		
Weight (Without Battery)	≤ 720g	≤ 735g	≤ 820g
	241x83x100mm 249×83x100mm 278×88x100mm		
Dimensions	(Including Eyepiece/Objective Covers)		re Covers)
Power Supply	Two 18650 Li-ion Batteries		
Operating Time	≥ 8h		
Interface	External Power/Type-C		
Operation Temperature	-30°C ~+55°C		
Protection Rating	IP67		
Reliability	2000g Shock Resistance		
Altitude	≥ 5000m		
Adaptability	All-weather		
Detection Range(Human)	50mm/4730r	n 55mm/5200m	75mm/7090m
Detection Range(Object)	50mm/6390r	n 55mm/7030m	75mm/9590m





Tube

Uncooled Infrared Thermal Imager

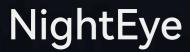
The Tube series of long-barrel thermal imaging cameras is a product designed for outdoor observation, which can observe targets behind obstacles, regardless of day and night, adverse weather conditions (such as rain, snow, fog, haze, etc.), without the influence of strong light and without the need for external light sources. This series of uncooled thermal imaging cameras has clear and continuous images, long battery life, and uses a standard 30mm pipe diameter to adapt to the universal fixture, which can be widely used for observation and positioning in low visibility conditions.



T-IR

Model	T-IR-Q35	T-IR-Q50	
Detector Parameters	-		
Туре	Uncooled VOx Microbolometer		
Resolution, pixels	640×512/12μm		
Spectral Band	8~14μm		
NETD	≤ 35mk@300K		
Frame Rate,Hz	50Hz		
Optical Parameters			
Objective Lens	35mm(F1.0)	50mm(F1.0)	
Field of View	12.5° ×10°	8.7° ×7°	
Visual Magnification	2~8x	3~12x	
Digital Zoom	1~4	/ ₄ ×	
Eye Relief	50mm		
Eyepiece Diopter	-5~+5		
Detection Range (Human)	3310m	4730m	
Detection Range (Object)	4480m	6390m	
Display Screen Parameters			
Туре	0.39" OLED		
Resolution, pixels	1024×768		
Battery Powered			
Battery Type	Two 18650 Li-ion Ba +One 18650 Li-ion E		
Operating Time (22°C)	15h		
External Power Supply	5V(Type-C)		
Physical Parameters			
Scope Tube Diameter	30mm		
Reliability	1200g Shock Resistance		
Protection Rating	IP67		
Memory Capacity	32GB		
Operation Temperature	-20°C ~+50°C		
Weight (Without Battery)	≤ 950g		
Dimensions	430×105×77mm	440×105×77mm	
Accessory Package	Mounting Bracket, Eyecup, Lens Cap, Security Case, Wiring Harness		

The NightEye series combines advanced thermal imaging and digital multi-spectrum capabilities with a precise laser rangefinder. Designed for superior observation in darkness or no-light conditions, it enables clear viewing across multiple wavelengths, ensuring detailed and accurate target acquisition.































Effective Range









NE-Q55

Specifications

Specification	Infrared	Visible Light	
Resolution, pixels	640×512 /12μm	2592×1944/2.0μm	
Optical Specifications			
Objective Lens	55mm F1.0	25mm F1.8	
Field of View	7.94° ×6.37°	11.8° ×8.9°	
Frame Rate, Hz	50Hz	30Hz	
Identification Range (Human)	650m	900m	
Recognition Range (Human)	1300m	1800m	
Detection Range(Human)	5200m	7100m	
Eyepiece Diopter	-!	5~+5	
Laser Rangefinder			
Wavelength	15	35nm	
Max Measuring Range	Human/2300m Car/5000m		
Measuring Accuacy	±0.5m~±2m		
Positioning Specifications			
Positioning	GPS & BeiDou Dual Positioning		
Horizontal Positioning Accuracy	2.5m		
Electronic Compass			
Device Information			
Display	0.39" OLED 1024x768		
NETD	≤ 50mk@300K		
Observation Mode	Binocular		
Eye Relief	30mm		
Operating Time	≥ 6h		
Waterproof	IP67		
Memory	64G		
Wi-Fi Transmission	Wi-Fi		
Power Source	Four 18650 Li-ion Batteries		
Interface	Type -C/HDMI		
Weight (Without Battery)	≤ 1025g		
Dimensions	229×190×82mm		
Operating Temperature	-25° ~+55°		
Storage Temperature	-55° ∼+70°		