





# 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.





















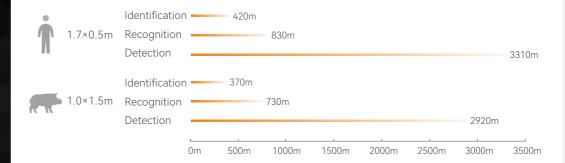


Wireless Image Transmission

#### Specifications

Model	MK-IR 384 MK-IRS 384	MK-IR 640 MK-IRS 640				
Detector	Uncooled VOx Microb	olometer				
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   Ra	nge >100m				
Spectral Band	8~14μm					
Eyepiece Diopter	-5~+5					
Eye Relief	20mm					
NETD	≤ 35mk@300K					
Display	0.39" OLED 1024x768					
Digital Zoom	1x、2x、4x					
Frame Rate.Hz	50Hz					
Protection Rating	IP67					
Power Source	3400mAh Li-ion B	attery				
Standby Time	≥ 5h					
Interface	Type-C					
Weight (Without Battery)	≤ 470g					
Dimensions	196×70×58mm					
Operating Temperature	-20°C ~+50°C					
Detection Range (Human)	19mm/1800m 25mm/2370n	n 35mm/3310m				
Detection Range (Animal)	19mm/1590m 25mm/2090n	n 35mm/2920m				

#### Effective Range



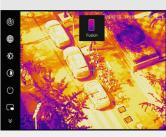
## Image Mode











## MK-LR

## Handheld Thermal Imaging Monocular



#### Specifications

Model	MK-LR 384 MK-LR 640					
Detector	Uncooled VOx Micro	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 1024x768					
Digital Zoom	1x、2x、4x					
Frame Rate.Hz	50Hz					
Protection Rating	IP67					
Measuring Distance	1200m					
Power Source	3400mAh Li-ion Battery					
Standby Time	≥ 5h					
Interface	Type-C					
Weight (Without Battery)	≤ 515g					
Dimensions	196×70×90mm					
Operating Temperature	-20°C ~+50°	С				
Detection Range(Human)	19mm/1800m 25mm/2370	m 35mm/3310m				
Detection Range(Animal)	19mm/1590m 25mm/2090	m 35mm/2920m				

## Image Mode



Black Hot



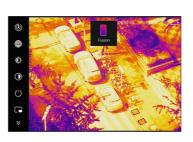
Red Hot



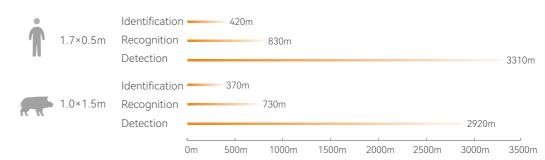
White Hot

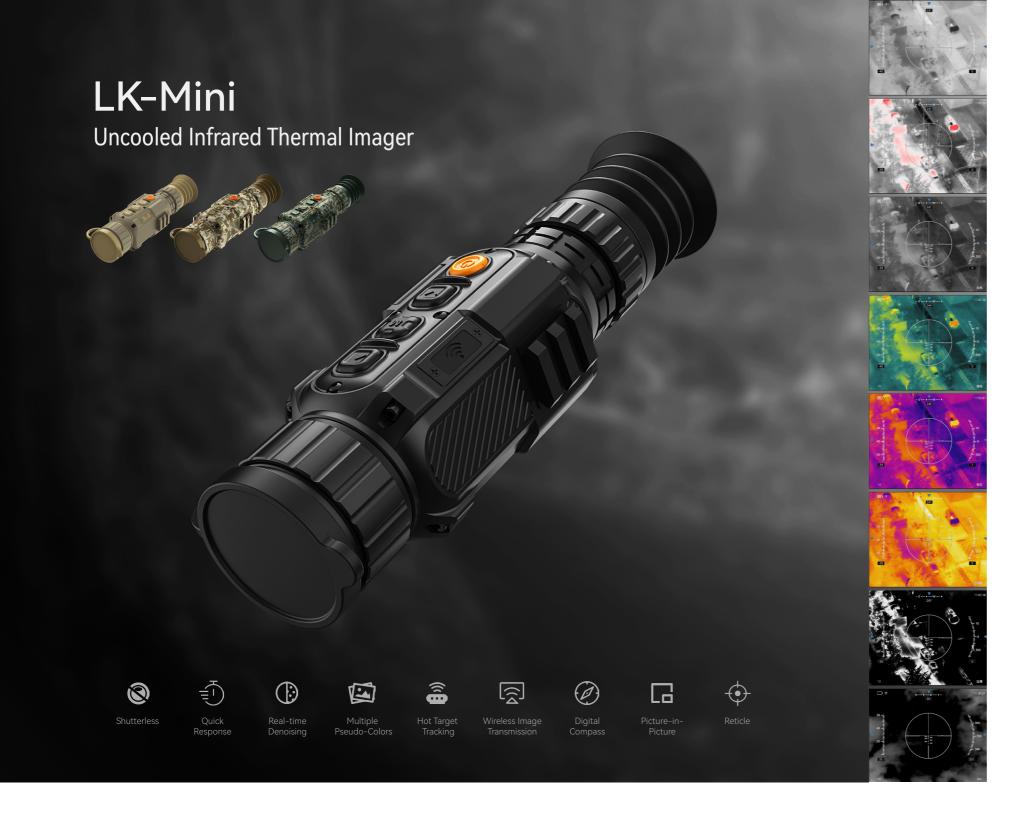


Green Hot



**Fusion** 



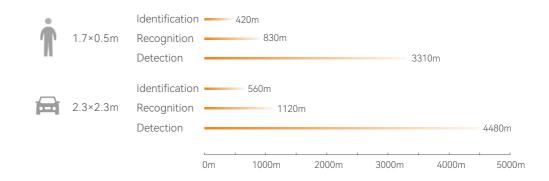


#### Specifications

Model	LK-Mini					
Detector	Uncooled VOx Microbolometer					
Resolution, pixels	3	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			≤ 50mk@300	K		
Display		0.3	9" OLED 1024	x768		
Digital Zoom			1x、2x、4x			
Eyepiece Diopter	-5 ~ +5					
Eye Relief	45mm					
Power Supply	Two 16340 Li-ion Batteries					
Standby Time	≥ 2.5h ≥ 2h				2h	
Weight (Without Battery)			≤ 480g			
Dimensions	208x57x58mm (Including Eyepiece/Objective Covers)					
Interface		Exte	ernal Power/Ty	rpe-C		
Operation Temperature			-30°C ~+55°C	,		
Protection Rating	IP67					
Reliability	800g Shock Resistance					
Altitude	≥ 5000m					
Adaptability			All-weather			
Detection Range (Human)	19m	nm/1800m	25mm/2370r	n 35mm/33	10m	
Detection Range (Object)	19n	nm/2430m	25mm/3200n	n 35mm/448	30m	

# LK-Mini

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



LK-IR















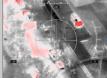




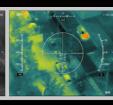
The LK-IR series thermal imager is an advanced infrared observation device featuring innovative no-shutter technology. It ensures seamless image output and offers flexibility with various lens options, making it ideal for long-range observation across diverse scenarios.

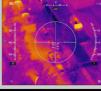
## Image Mode

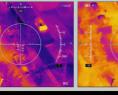




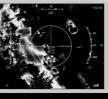








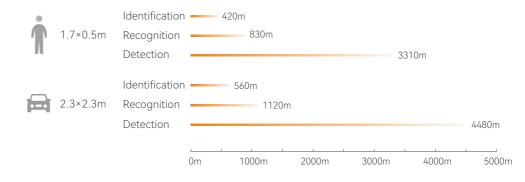






#### Specifications

Model	LK-IR					
Detector		Uncoole	ed VOx Microb	olometer		
Resolution, pixels	3	84×288/12μr	n	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		0.39	9" OLED 1024:	x768		
Digital Zoom			1x、2x、4x			
Eyepiece Diopter	-5 ~ +5					
Eye Relief			45mm			
Power Supply	Two 18650 Li-ion Batteries					
Standby Time	≥ 8h					
Weight (Without Battery)	≤ 570g					
Dimensions	221x83x66mm (Including Eyepiece/Objective Covers)					
Interface		Exte	ernal Power/Ty	pe-C		
Operation Temperature			-30°C ~+55°C	,		
Protection Rating	IP67					
Reliability	≥ 1200g Shock Resistance					
Altitude	≥ 5000m					
Adaptability	All-weather					
Detection Range (Human)	19m	m/1800m	25mm/2370r	n 35mm/33	10m	
Detection Range (Object)	19m	19mm/2430m 25mm/3200m 35mm/4480m				



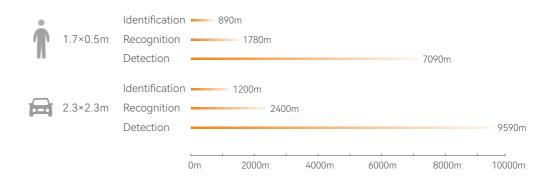
# 

Model	LK-IR HD					
Detector	Uncoole	ed VOx Microbolo	ometer			
Resolution, pixels	384×288/12μm	640×51	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		
Difficusions	(Including	Eyepiece/Objectiv	ve Covers)		
Power Supply	Two	18650 Li-ion Batt	eries		
Standby 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.

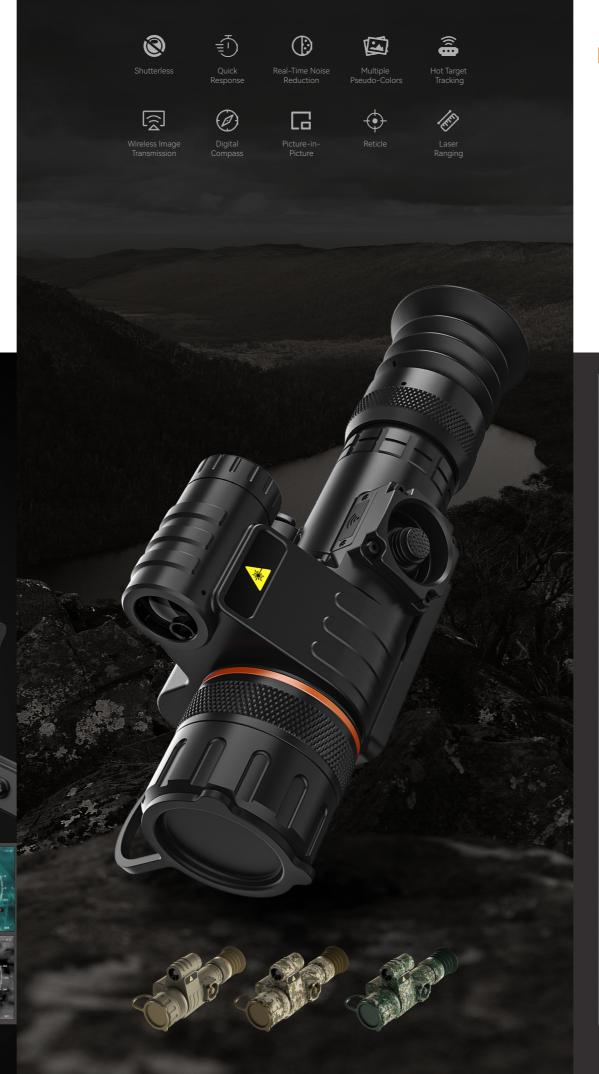


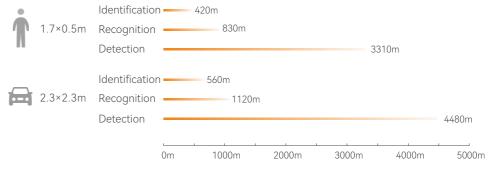
# LK-LR

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	Uncoc	led VOx Micro	bolometer			
Resolution, pixels	384×288/12	um	640×512	2/12μm		
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	OK .			
Display	0	39" OLED 102	4x768			
Digital Zoom		1x、2x、4	<			
Eyepiece Diopter		-5 ~ +5				
Eye Relief		45mm				
Laser Ranging		1200m				
Power Supply	Two 18650 Li-ion Batteries					
Standby Time		≥ 8h				
Weight (Without Battery)		≤ 670g				
Dimensions	(Including	221x83x100r Eyepiece/Obj				
Interface	Ex	ternal Power/1	ype-C			
Operation Temperature		-30°C ~+55°	C			
Protection Rating		IP67				
Reliability	≥ 12	200g Shock Re	sistance			
Altitude		≥ 5000m				
Adaptability		All-weathe	r			
Detection Range (Human)	19mm/1800m	25mm/2370	m 35mm/33	10m		
Detection Range (Object)	19mm/2430m	25mm/3200	m 35mm/44	80m		

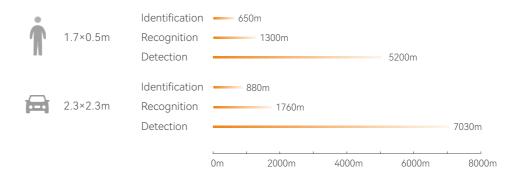
## LK-LR HD

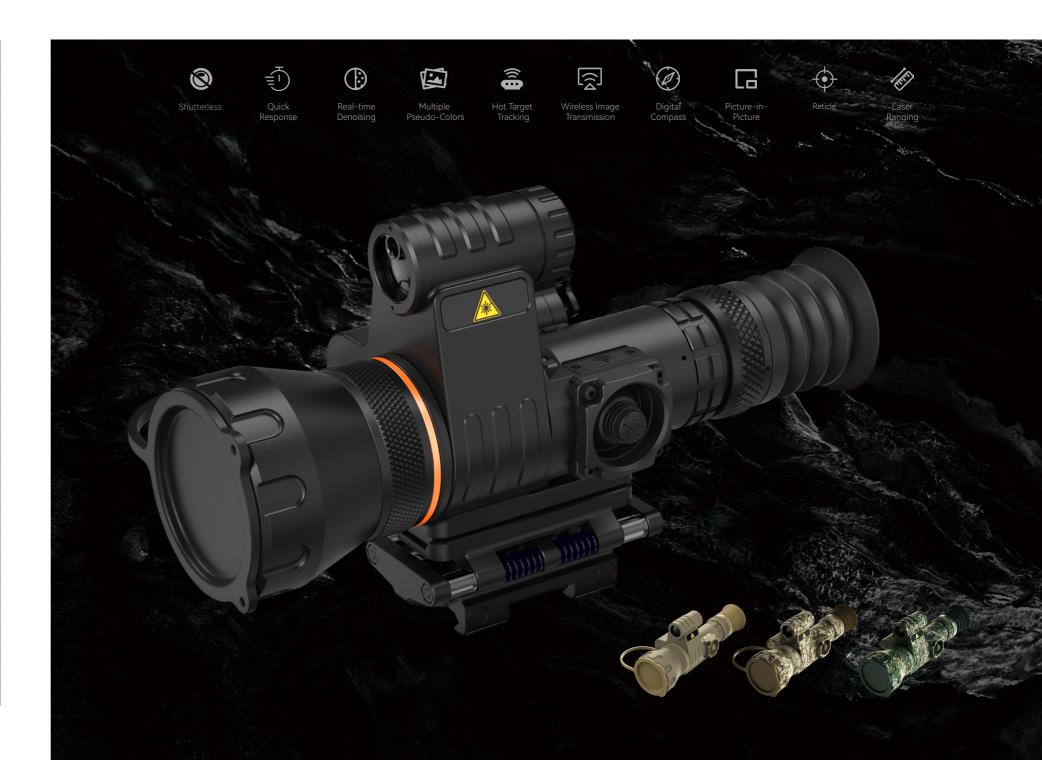
## Uncooled Infrared Thermal Imager

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	Unco	Uncooled VOx Microbolometer			
Resolution, pixels	384×288/12μm 640×512/12μm				
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 1024x76	8		
Digital Zoom		1x、2x、4x			
Eyepiece Diopter	-5 ~ +5				
Eye Relief	45mm				
Measuring Distance		1200m			
Weight (Without Battery)	≤ 720g ≤ 735g		≤ 820g		
Dimensions	241x83x100mm	249×83x100mm	278×88×100mm		
Dimensions	(Includin	g Eyepiece/Objectiv	ve Covers)		
Power Supply	Two	o 18650 Li-ion Batte	eries		
Standby Time		≥ 8h			
Interface	Е	xternal 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		





# LK-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.



## LK-Tube

Model	Tube35	Tube50	
Detector Parameters			
Туре	Uncooled VOx N	1icrobolometer	
Resolution, pixels	640×512/12μm		
Spectral Band	8~14	·μm	
NETD	≤ 35mk(	@300K	
Frame Rate,Hz	501	Hz	
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	50n	nm	
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		
Standby Time (22°C)	15	h	
External Power Supply	5V(Тур	pe-C)	
Physical Parameters			
Scope Tube Diameter	30n	nm	
Reliability	1200g Shock	Resistance	
Protection Rating	IPé	57	
Memory Capacity	320	GB	
Operation Temperature	-20°C ~	+50°C	
Weight (Without Battery)	≤ 95	50g	
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.

# NightEye























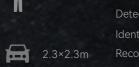




## Effective Range









## Handheld Thermal Imaging Binocular

## 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	25HZ	30HZ		
Identification Range (Human)	650m	900m		
Recognition Range (Human)	1300m	1800m		
Detection Range(Human)	5200m	7100m		
Eyepiece Diopter	-	-5~+5		
Laser Rangefinder				
Wavelength	15	535nm		
Max Measuring Range	Human/2300	m Car/5000m		
Measuring Accuacy	±0.5	- - - - - - - - - - - - - - - - - - -		
Positioning Specifications				
Positioning	GPS & BeiDou Dual Positioning			
Horizontal Positioning Accuracy	2.5m			
Electronic Compass	$\sqrt{}$			
Device Information				
Display	0.39" OL	ED 1024x768		
NETD	≤ 50n	nk@300K		
Observation Mode	Bir	nocular		
Eye Relief	3	30mm		
Standby Time		≥ 6h		
Waterproof		IP67		
Memory		64G		
Wi-Fi Transmission	,	WIFI		
Power Source	Four 18650	Li-ion Batteries		
Interface	Туре	-C/HDMI		
Weight (Without Battery)	≤	1350g		
Dimensions	229×1	90×82mm		
Operating Temperature	-25	5° ~+55°		
Storage Temperature	-55° ~+70°			

# Night Demon

## Monocular Head-Mounted Thermal Imager

Night-Demon 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 2.3×4.6m

## Night Demon-IR

Model	ND-IR316	ND-IR396	ND-IR616	ND-IR626	
Thermal Imaging Parameters					
Detector		Uncooled VOx I	Microbolometer		
Resolution, pixels	384×288/12μm 640×512/12μm				
Frame Rate,Hz	50Hz				
Shutterless	No Shutter Calibration				
Display		0.39" OLED	1024x768		
Optical Specifications					
Objective Lens (F1.0)	16mm	9.6mm	16mm	26.7mm	
Field of View	16.3° ×12.3°	27.3° ×20.5°	27.3° ×20.5°	16.3° ×12.3°	
Visual Magnification		. 1	X	•	
Eyepiece Diopter		-6-	·+3		
Eye Relief		25r	nm		
Laser Indicator					
Output Wavelength/Power		650nm/	2-5mW		
Spot Range		> 1	00m		
Spot Size		< 20	Omm		
Functional Parameters					
Digital Zoom		1-	8x		
Electronic Compass		Azimuth /	Pitch / Roll		
Wi-Fi		1	Γ		
Video/Image Capture		1	Γ		
Device Information					
Spectral Band		8~1	 4µm		
NETD		≤ 35mk	@300K		
Polarity Model	Whi	te Hot / Black Hot/ Green Hot / Red H			
Use Method		Handheld, Head-	mounted, Clip-On		
Weight		≤ 20	 60g		
Dimensions		119x39	x79mm		
Power Supply		One 18650 L	i-ion Battery		
Standby Time (Without WiFi)		≥ (	5h		
Interface	Power S	upply/Serial Port/Ar	nalog Video Output	t/Type-C	
Mechanical Interface		2 x 1/4 Threaded h	noles, Piccatini Rail		
Operation Temperature		-20°C	~50°C		
Protection Rating		IP	67		
Reliability		800g Shock	Resistance		
Adaptability		All-we	eather		
Recognition Range (Human)	370m	220m	370m	630m	
Detection Range (Human)	1500m	900m	1500m	2500m	
Accessory Kit		2.0&BNC) Helmet s arrying Bag, User M			

## Lens specifications (384×288)

OBJECTIVE LENS	Field of View	Visual Magnification (MK Series)	Visual Magnification (LK Series)	Detection Range (Human)	Detection Range (Animal)	Detection Range (Object)
19mm(F1.0)	13.9° ×10.4°	2.09~8.37	1.83~7.32	1800m	1590m	2430m
25mm(F1.0)	10.6° ×7.9°	2.75~11.01	2.41~9.63	2370m	2090m	3200m
35mm(F1.0)	7.5° ×5.7°	3.85~15.41	3.37~13.48	3310m	2920m	4480m
50mm(F1.2)	5.3° ×4.0°	5.5~22.01	4.82~19.26	4730m	4170m	6390m
75mm(F1.2)	3.5° ×2.6°	8.26~33.02	7.22~28.89	7090m	6250m	9590m

MODEL	19mm	25mm	35mm	50mm	55mm	75mm
MK-IR	√	$\sqrt{}$	$\sqrt{}$	$\sqrt{}$	_	√
MK-IRS	√	√	√	$\sqrt{}$	_	_
MK-LR	√	√	√	$\sqrt{}$	_	_
LK-MINI	√	√		_	_	_
LK-IR	√	√		_	_	_
LK-IR HD	_	_	_	√	_	_
LK-LR	√	√		_	_	_
LK-LR HD	_	_	_	√	_	_

## Lens specifications (640×512)

OBJECTIVE LENS	Field of View	Visual Magnification (MK Series)	Visual Magnification (LK Series)	Detection Range (Human)	Detection Range (Animal)	Detection Range (Object)
25mm(F1.0)	17.6° ×14.1°	1.61~6.45	1.41~5.64	2370m	2090m	3200m
35mm(F1.0)	12.6×10.1°	2.26~9.03	1.98~7.9	3310m	2920m	4480m
50mm(F1.2)	8.8° ×7.0°	3.23~12.9	2.82~11.29	4730m	4170m	6390m
55mm(F1.2)	8.0° ×6.4°	3.55~14.19	3.1~12.42	5200m	4590m	7030m
75mm(F1.2)	5.9° ×4.7°	4.84~19.35	4.23~16.93	7090m	6250m	9590m

MODEL	19mm	25mm	35mm	50mm	55mm	75mm
MK-IR	_	√	√	√	_	√
MK-IRS	_	√	√	√	_	_
MK-LR	_	$\sqrt{}$	√	√	_	_
LK-MINI	_	$\sqrt{}$	√	_	_	_
LK-IR	_	$\sqrt{}$	√	_	_	_
LK-IR HD	_	_	_	_	$\sqrt{}$	$\sqrt{}$
LK-LR	_	$\sqrt{}$	$\sqrt{}$	_	_	_
LK-LR HD	_	_	_	_	√	$\sqrt{}$