

IRVOTEX

OUTDOOR PRODUCTS BROCHURE

PRODUCT BROCHURE



CHENGDU JINGPIN NIGHT VISION
OPTOELECTRONIC TECHNOLOGY CO., LTD

Web : en.irvotex.com

+86 (028)66856688

Email: irvotex@votinfrared.com

9th Floor, Building E, No. 9, Technology Incubation Park, 1480 North Section
of Tianfu Avenue, Gaoxin District, Chengdu City, Sichuan Province, China

LEADING A NEW ERA OF PERCEPTION



COMPANY PROFILE

Chengdu Jingpin Night Vision Optoelectronics Technology Co., Ltd. (JPNVision), a subsidiary of Vital Optics Technology Co., Ltd. (Stock Code: SZ 300489), specializes in pioneering infrared thermal imaging technology. We offer a wide array of products, from infrared cores and thermal imaging modules to night vision and visual perception devices, catering to a global clientele alongside tailored solutions. Leveraging cutting-edge proprietary technology and a commitment to customer satisfaction, JPNVision represents the forefront of industry innovation. We are devoted to enhancing human sensory experiences and shaping a new era in the world of perception.



TABLE OF CONTENTS

Thermal Monocular 01-04

MK Series
SMART Seies

Thermal Binocular 05-06

NE Series

Multi-Purpose Thermal Monocular 07-08

ND-IR Series

Thermal Scope 09-16

LK Series
Mini Series
Tube Series
Demon Series

Night Vision 17-19

ND-NV31
ND-NV14

Laser Rangfinder 20-21

Valiant Series
Heroic Series

THERMAL MONOCULAR

MK SERIES



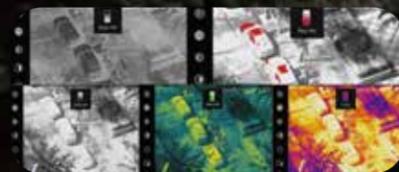
Shutterless



Real-time Denoising



Laser Ranging 1200m



5 Kinds of Palettes



Hot Track



IP67

Series	MK-IR		MK-IRS		MK-LR	
Model	MK-IR-E19 MK-IR-E25 MK-IR-E35 MK-IR-E50	MK-IR-Q25 MK-IR-Q35 MK-IR-Q50	MK-IRS-E19 MK-IRS-E25 MK-IRS-E35 MK-IRS-E50	MK-IRS-Q25 MK-IRS-Q35 MK-IRS-Q50	MK-LR-E19 MK-LR-E25 MK-LR-E35 MK-LR-E50	MK-LR-Q25 MK-LR-Q35 MK-LR-Q50
Detector	Uncooled VOx Microbolometer					
Resolution/Pixel Pitch	384x288/12μm	640x512/12μm	384x288/12μm	640x512/12μm	384x288/12μm	640x512/12μm
Objective Lens (F1.0)	19/25/35/50mm	25/35/50mm	19/25/35/50mm	25/35/50mm	19/25/35/50mm	25/35/50mm
Field of View	13.9° × 10.4° / 10.6° × 7.9° 7.5° × 5.7° / 5.3° × 4.0°	17.6° × 14.1° / 12.6° × 10.1° 8.8° × 7.0°	13.9° × 10.4° / 10.6° × 7.9° 7.5° × 5.7° / 5.3° × 4.0°	17.6° × 14.1° / 12.6° × 10.1° 8.8° × 7.0°	13.9° × 10.4° / 10.6° × 7.9° 7.5° × 5.7° / 5.3° × 4.0°	17.6° × 14.1° / 12.6° × 10.1° 8.8° × 7.0°
Visual Magnification	2.09~8.37 / 2.75~11.01 3.85~15.41 / 4.82~19.26	1.61~6.45 / 2.26~9.03 2.82~11.29	2.09~8.37 / 2.75~11.01 3.85~15.41 / 4.82~19.26	1.61~6.45 / 2.26~9.03 2.82~11.29	2.09~8.37 / 2.75~11.01 3.85~15.41 / 4.82~19.26	1.61~6.45 / 2.26~9.03 2.82~11.29
Laser Indicator (IRS)	/		650nm Class II Range >100m		/	
Spectral Band	8~14μm					
Eyepiece Diopter	-5~+5					
Eye Relief	20mm					
NETD	≤ 25mk@300K					
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					
Operating Time	≥ 5h					
Interface	Type-C (Support External Power Supply)					
Weight (Without Battery)	≤ 470g				≤ 515g	
Dimensions	196×70×58mm				196×70×90mm	
Operating Temperature	-20°C ~+50°C					
Detection Range (Human)	19mm/1800m 25mm/2370m 35mm/3310m 50mm/4730m					
Detection Range (Animal)	19mm/1590m 25mm/2090m 35mm/2920m 50mm/4730m					

THERMAL MONOCULAR

SMART SERIES



Small Size and Weight $\leq 260g$



Working Time up to 6h



WiFi Transmission



NETD $\leq 25mk$



Hot Track



IP67

Series	SMART				
Model	S-IR-E10	S-IR-E19	S-IR-E25	S-IR-Q19	S-IR-Q25
Detector	Uncooled VOx Microbolometer				
Resolution, pixels	384×288/12μm			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 Range >100m				
Spectral Band	8~14μm				
Eyepiece Diopter	-5~+5				
Eye Relief	23mm				
NETD	$\leq 25mk@300K$				
Display	0.39"OLED 1024x768				
Digital Zoom	1x, 2x, 4x				
Frame Rate.Hz	25Hz	50Hz	50Hz	50Hz	50Hz
Protection Rating	IP67				
Power Source	one 18650 battery (built in)				
Operating Time	$\geq 7h$	$\geq 6h$	$\geq 6h$	$\geq 6h$	$\geq 6h$
Interface	Type-C				
Weight (Including batteries)	$\leq 251g$			$\leq 260g$	
Dimensions	$\leq 170 \times 60 \times 59mm$				
Operating Temperature	$-20^{\circ}C \sim +55^{\circ}C$				
Detection Range (Human)	450m	900m	1200m	900m	1200m
Detection Range (Animal)	400m	800m	1000m	800m	1000m

THERMAL BINOCULAR

NE SERIES



Shutterless



Real-time Denoising



Laser Ranging 5000m



640×512 (Infrared) +2592×1944 (Visible Light)



Hot Track



IP67

Model	NE-Q55	
Specification	Infrared	Visible Light
Resolution/Pixel Pitch	640×512 /12μm	2592×1944/2.0μm
Objective Lens	55mm F1.0	25mm F1.8
Field of View	7.94° ×6.37°	11.8° ×8.9°
Frame Rate	50Hz	30Hz
Identification Range (Human)	650m	900m
Recognition Range (Human)	1300m	1800m
Detection Range(Human)	5200m	7100m
Visual Magnification	3.5~14.0	
Eyepiece Diopter	-5~+5	
Wavelength	1535nm	
Max Measuring Range	Human/2300m Car/5000m	
Measuring Accuracy	±0.5m~±2m	
Positioning	GPS & BeiDou Dual Positioning	
Horizontal Positioning Accuracy	2.5m	
Digital Compass	Support	
Display	0.39" OLED 1024x768	
Digital Zoom	1x-4x	
NETD	≤ 25mk@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°C ~+55°C	
Storage Temperature	-55°C ~+70°C	

MULTI-PURPOSE THERMAL MONOCULAR

ND-IR SERIES



Shutterless



Real-time Denoising



Small Size and Wight ≤ 250g



Handheld, Head-mounted
Clip-on or Scope



Hot Track



IP67

Series	ND-IR			
Model	ND-IR-E16	ND-IR-E09	ND-IR-Q16	ND-IR-Q26
Detector	Uncooled VOx Microbolometer			
Resolution/Pixel Pitch	384×288/12μm		640×512/12μm	
Frame Rate,Hz	50Hz			
Shutterless	No Shutter Calibration			
Display	0.39" OLED 1024x768			
Objective Lens (F1.0)	16mm	9.6mm	16mm	26.7mm
Field of View	16.4°x12.3°	27°x20.4°	27°x21.7°	16.4°x13.1°
Visual Magnification	1~4			
Eyepiece Diopter	-6~+3	-5~+5	-5~+5	-6~+3
Eye Relief	25mm			
Output Wavelength/Power	650nm/2~5mW			
Spot Range	> 100m			
Spot Size	< 20mm			
Digital Zoom	1~4x			
Digital Compass	Azimuth / Pitch / Roll			
Wi-Fi	Support			
Video/Image Capture	Support			
Spectral Band	8~14μm			
NETD	≤ 25mk@300K			
Palettes	White Hot / Black Hot/ Iron Red / Deser Yellow Green Hot / Red Hot / Sky / Edge			
Use Method	Handheld, Head-mounted, Clip-On			
Weight	≤ 250g			
Dimensions	119x39x79mm			
Power Supply	One 18650 Li-ion Battery			
Operating Time (Without WiFi)	≥ 4h			
Interface	Type-C (Power Supply/Serial Port/Analog Video Output)			
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	Helmet support, Carrying Bag, User Manual, Cleaning Cloth, Picatinny rail(Optional)			

THERMAL SCOPE

LK SERIES



Shutterless



Real-time Denoising



Laser Ranging 1200m



Max Shock Resistance 2000g



Work Normally at -30°C



IP67

Series	LK-IR		LK-LR	
Model	LK-IR-E19 LK-IR-E25 LK-IR-E35 LK-IR-E50	LK-IR-Q35 LK-IR-Q55 LK-IR-Q75	LK-LR-E19 LK-LR-E25 LK-LR-E35 LK-LR-E50	LK-LR-Q35 LK-LR-Q55 LK-LR-Q75
Detector	Uncooled VOx Microbolometer			
Resolution/Pixel Pitch	384×288/12μm	640×512/12μm	384×288/12μm	640×512/12μm
Objective Lens	19/25/35/50mm	35/55/75mm	19/25/35/50mm	35/55/75mm
Field of View	13.9°×10.4° / 10.6°×7.9° 7.5°×5.7° / 5.3°×4.0°	12.6°×10.1° 8.0°×6.4° / 5.9°×4.7°	13.9°×10.4° / 10.6°×7.9° 7.5°×5.7° / 5.3°×4.0°	12.6°×10.1° 8.0°×6.4° / 5.9°×4.7°
Visual Magnification	1.83~7.32 / 2.41~9.63 3.37~13.48 / 4.82~19.26	1.98~7.9 3.1~12.42 / 4.23~16.93	1.83~7.32 / 2.41~9.63 3.37~13.48 / 4.82~19.26	1.98~7.9 3.1~12.42 / 4.23~16.93
Spectral Band	8~14μm			
Frame Rate	50Hz			
NETD	≤ 25mk@300K			
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)	≤570g (19/25/35mm) ≤620g (50mm)	≤570g (35mm) ≤635g (55mm) ≤720g (75mm)	≤670g (19/25/35mm) ≤720g (50mm)	≤670g (35mm) ≤735g (55mm) ≤820g (75mm)
Dimensions	221x83x66mm		221x83x100mm	
Interface	Type-C (optional external power supply)			
Operating Temperature	-30°C ~+55°C			
Protection Rating	IP67			
Reliability	≥ 1200g Shock Resistance (19/25/35mm)		≥ 2000g Shock Resistance (50/55/75mm)	
Altitude	≥ 5000m			
Detection Range (Human)	19mm/1800m 25mm/2370m 35mm/3310m 50mm/4730m 55mm/5200m 75mm/7090m			
Detection Range (Object)	19mm/2430m 25mm/3200m 35mm/4480m 50mm/6390m 55mm/7030m 75mm/9590m			

THERMAL SCOPE

Mini SERIES



Shutterless



Real-time Denoising



Portable With Ease



Work Normally at -30°C



Hot Track



IP67

Series	Mini	
Model	M-IR-E25 M-IR-E35	M-IR-Q35
Detector	Uncooled VOx Microbolometer	
Resolution/Pixel Pitch	384×288/12μm	640×512/12μm
Objective Lens (F1.0)	25mm / 35mm	35mm
Field of View	10.6°×7.9° / 7.5°×5.7°	12.6°×10.1°
Visual Magnification	2.41~9.63 / 3.37~13.48	1.98~7.9
Spectral Band	8~14μm	
Frame Rate	50Hz	
NETD	≤ 25mk@300K	
Display	0.39" OLED 1024x768	
Digital Zoom	1x, 2x, 4x	
Eyepiece Diopter	-5 ~ +5	
Eye Relief	45mm	
Power Supply	Two 16340 Li-ion Batteries	
Operating Time	≥ 2.5h	≥ 2h
Weight (Without Battery)	≤ 480g	
Dimensions	208x57x58mm (Including Eyepiece/Objective Covers)	
Interface	Type-C	
Operating Temperature	-30°C ~+50°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)	19mm/2430m 25mm/3200m 35mm/4480m	

THERMAL SCOPE

Tube SERIES



Shutterless



Real-time Denoising



Max Shock Resistance 1200g



Long Working Time up to 15h



Hot Track



IP67

Series	Tube	
Model	T-IR-Q35	T-IR-Q50
Detector	Uncooled VOx Microbolometer	
Resolution/Pixel Pitch	640×512/12μm	
Spectral Band	8~14μm	
NETD	≤ 25mk@300K	
Frame Rate	50Hz	
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	1~4x	
Eye Relief	50mm	
Eyepiece Diopter	-5 ~ +5	
Detection Range (Human)	3310m	4730m
Detection Range (Object)	4480m	6390m
Display	0.39" OLED 1024*768	
Battery Type	Two 18650 Li-ion Batteries (Built-In) +One 18650 Li-ion Battery (External)	
Operating Time (22°C)	15h	
External Power Supply	5V(Type-C)	
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	

THERMAL SCOPE

Demon SERIES



Small Size and Low Weight



Working Time up to 4h



Max Shock Resistance 800g



Picture in Picture



Hot Track



IP67

Series	Demon
Model	DEMON
Detector	Uncooled VOx Microbolometer
Resolution/Pixel Pitch	640x512/12μm
Objective Lens (F1.0)	19mm / 25mm / 35mm
Field of View	22.9° x18.4° / 17.5° x14° / 12.5° x10°
Magnification	1.1x~8.8x / 1.4x~11.6x / 2x~16x
Spectral Band	8~14μm
Frame Rate	50Hz
NETD	≤ 25mk @300k
Display	0.39" OLED 1024x768
Digital Zoom	1x, 2x, 4x, 8x
Eyepiece Diopter	-5D ~ +5D
Eye Relief	45mm
Power Supply	Two 16340 Li-ion Rechargeable Batteries
Operating Time	≥ 4h
Weight (No Battery)	≤ 500g
Dimensions(Including Eyepiece/Objective Covers)	155x55x70mm / 160x55x70mm / 168x55x70mm
Interface	Type-C (Support External Power Supply)
Operation Temperature	-20°C ~+55°C
Protection Rating	IP67
Reliability	800g/0.5ms Shock Resistance
Altitude	≥ 5000m
Adaptability	All-weather
Detection Range (Wolf)	19mm/1260m 25mm/1660m 35mm/2330m
Detection Range (Rabbit)	19mm/530m 25mm/690m 35mm/970m

NIGHT VISION

ND-NV SERIES



Small Size and Low Weight



850nm IR Infrared Auxiliary Lighting



Auto Screen-off for Upward and Sideward Tilting



Strong Light Protection



Working Time up to 20h



IP67

Series	ND-NV
Model	ND-NV31
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
LED Indicator	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	Support
Flip-Up Screen Off	Support
Flip-Side Screen Off	Support
Indicator Light	Support
IPD Adjustment	56-72mm
Weight (NO Battery)	550g
Dimensions	100x85x113mm
Operation Temperature	-40°C~+50°C
Protection Rating	IP67
Interface	L4G24
Ultimate Resolution	64
Signal-to-Noise Ratio	28
Phosphor	P43 (Green Phosphor)/P45 (White Phosphor)

NIGHT VISION

ND-NV SERIES



Series	ND-NV
Model	ND-NV14
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
LED Indicator	Infrared auxiliary illumination/ flip up screen off/ High-light protection/ low battery indicator
Image Intensifier	GEN 2+ (≥ 64lp/mm)
Image Tube Compatibility	MX10160 Contact, NNV1 3-Wire
Power Supply	Single AA Battery
Operating Time	15h

Series	ND-NV
IR (Infrared) illuminator	850nm
High-light protection	Support
Flip-Up Screen Of	Support
Indicator Light	Support
Weight (No Batt.)	≤ 340g
Dimensions	172×60×76.5mm
Operation Temperature	-40°C ~ +50°C
Protection Rating	IP67
Interface	2-M3
Ultimate Resolution	64
Signal-to-Noise Ratio	28
Phosphor	P45 (White Phosphor)

LASER RANGFINDER

Valiant SERIES



Series	Valiant
Magnification	6x
Objective Lens	20mm
Max Reflective Range	914 m
Tree Range	731 m
Deer Range	457 m
Minimum Range	4.5m
Accuracy	±1m @100m

Series	Valiant
Maximum Angle Reading	± 60°
Field of View	114m/1000m (6.5°)
Eye Relief	15mm
Battery Type	CR2
Battery Life	~5000 Range Cycles
Dimensions	96x74.6x35mm
Weight w/ Battery	156g

LASER RANGFINDER

Heroic Series



IRVOTEX

Series	Heroic
Measure Range	Effective : 5-2286m
	Non Reflective : 2286m
	Reflective : 1828m
	Deer/Game : 1189m
Magnification	10x
Deer Range	5m - 2286m
Accuracy	±1m (<300m); ±2m (300m - 1500m)
Angle Range	±60°
Display Type	Red OLED

Series	Heroic	
FOV	m@1000m	102
	Angular	5.8°
Exit Pupil	4.2mm	
Eye Relief	14mm	
Min. Focus Distance	6m	
Ocular Adjustment	±5	
Battery	CR2	
Weight	705g	
Dimensions	160.8x136.8x63mm	

LEADING A NEW ERA OF PERCEPTION

*Note: The pictures taken by device are for reference only, the actual effect shall prevail.

*Legislation governing firearms and hunting sets out special conditions for the purchase, ownership, and use of thermal imaging devices.
Please always check national provisions and regulations before purchase or use.