

A Visual Revolution in Cars With Super Night Vision

Thermal Imaging Night Vision System



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One-Stop Automotive Thermal Imaging Product Supplier

Thermal Imaging Engine, Complete System, Algorithm Board, Algorithm Host, Integrated Solution Customization

Host + external display

Host + with built-in display

Host + Connect to the original car screen

Since 2016, our team has been engaged in the research and development of automotive thermal imaging AI algorithms, making us one of the earliest teams in China to develop such products. After nine years of technical breakthroughs, we now focus on passenger vehicles,

Commercial Vehicles, Engineering Machinery and Other Scenarios to Form the Most Complete Automotive Thermal Imaging and Night Vision System Product Solutions in China.

Six Reasons to Choose Us

Integrated r&d, production and sales one-stop service

9 + **100** + **90** %
Years **Paragraph** **More than**

Nine years of focus on automotive thermal vision

More than 100 automotive thermal imaging related products

Covering More than 90% of Automotive Night Vision Scenarios

4^x

Driving at night gives you four times the view

SF **Express De-
livery**

All products are guaranteed for 2 years

SF express free shipping, quality assurance

How Does Thermal Imaging Improve Nighttime Driving Safety?

70% of Major Traffic Accidents Occur at Night Due to Poor Visibility, Strong Light, Fog and Haze

Thermal Imaging Can Solve These Problems

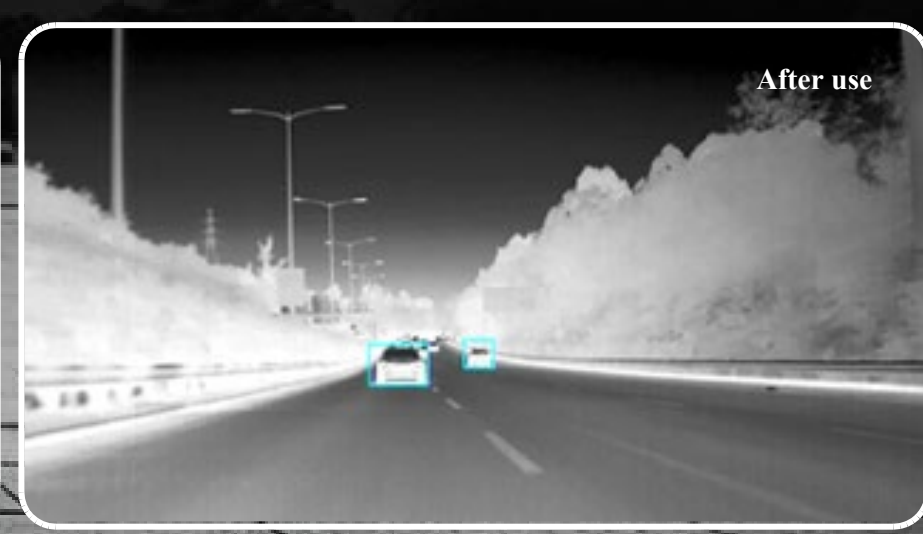
Piercing the Night



Glare Shielding



Breaking the Fog



Thermal imaging (far infrared) because it is imaged through the temperature difference of the object surface, does not rely on light, so it can be used in harsh conditions such as no light, strong light, haze, fog and so on for the heating body (human, animals, cars, etc.)

In the automotive field, it has special advantages compared with visible light camera.

Thermal Imaging Night Vision: The "thorough Eye" for Nighttime Driving

All objects emit infrared thermal radiation, and thermal imaging technology is the capture of this invisible "heat signal" and converts it into a clear visual image. This high-tech technology, which originated in the military field, is bringing revolutionary changes to the safety of cars at night.

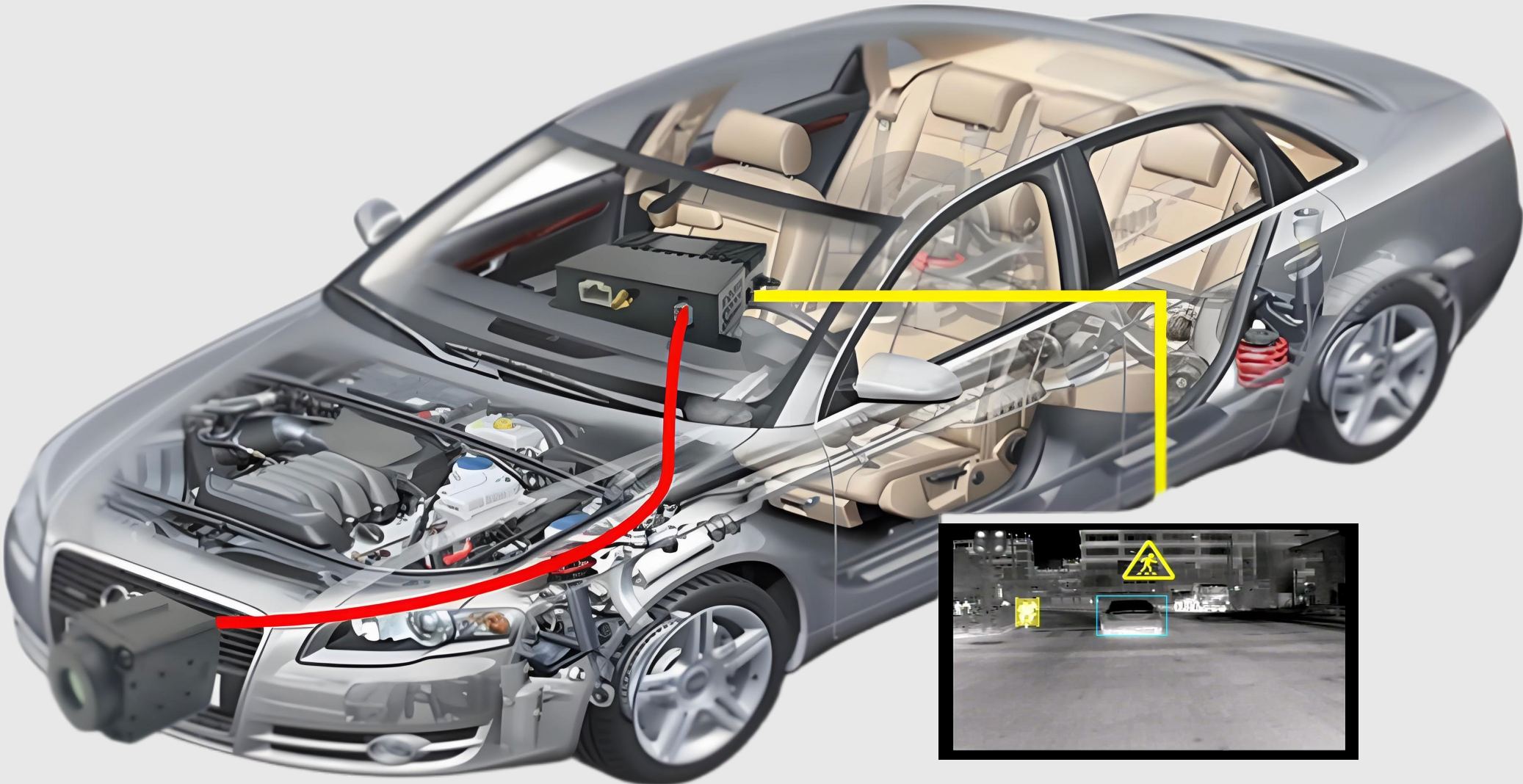
Display terminal inside the car and thermal imaging camera outside the car



The Original Factory Has a Thermal Imaging Part for Some Models



Installation Location Diagram



Because thermal imaging can not penetrate glass, the camera needs to be installed outside the car.

Night Vision Product Selection Diagram

The host is configured by default 256*192/10mm camera can also be selected for other resolutions

Thermal imaging night vision

main engine

CVBS/USB output host

AHD output host

External display

7 inch screen thermal imaging host

7 inch thermal imaging multi-purpose host

10.36 Cassette video recorder

Built-in display

Android car dedicated host

A wired CarPlay companion host

Special vehicle dedicated decoder host

Connect to the original car screen



camera

256*192 resolution
1.5mm/3.6mm/10mm

Default resolution

384*288 resolution
9.1mm/13mm

640*512 resolution
9.1mm/13mm



CVBS/USB Output Universal Host

Can Be Connected to Monitor Computer Android Large Screen Mobile Phone Apple Tablet and so On



256×192 resolution
384×288 resolution
640×512 resolution



All models are available



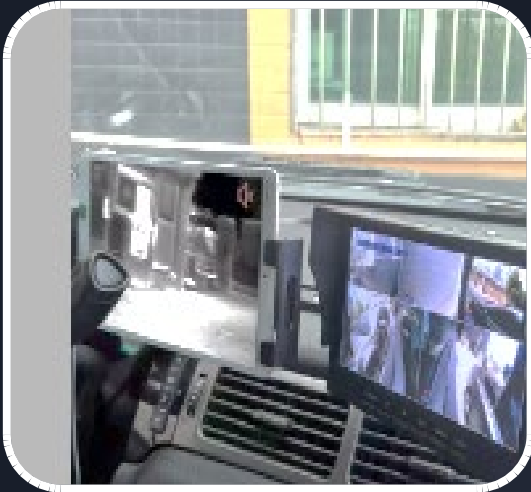
300-500m ultra long night vision



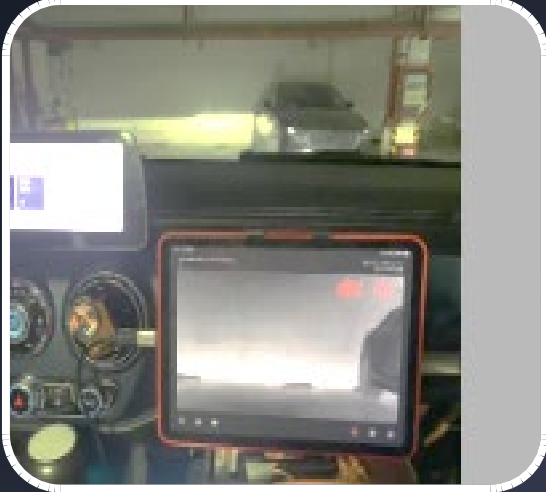
Diversified Presentation Methods



Indicator



Android Tablets/phones



Apple Tablet



Original Front Screen

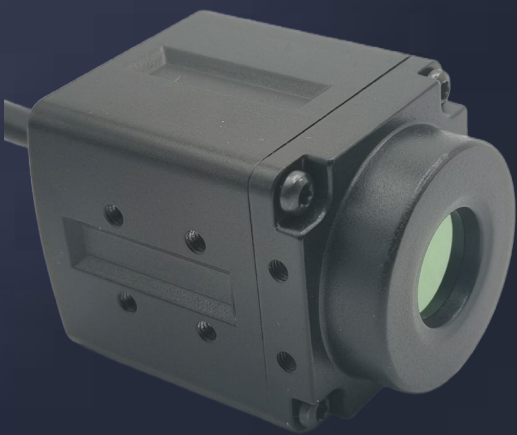


BYD Original Car Screen

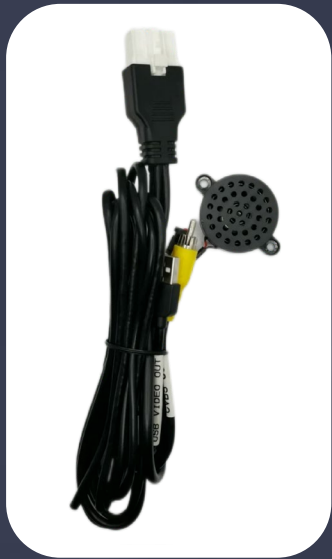
Product List



main engine



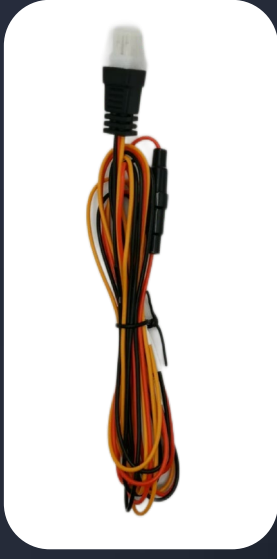
Thermal imaging camera



Main cable and speaker



Camera extension cord



power line



GPS antenna



Infrared remote control and receiver head



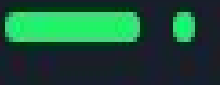
Universal camera bracket accessories



Camera U-shaped bracket

Product Parameter

product model	LC-256			
product name	Universal vehicle thermal imaging system			
Thermal imaging camera parameters			Controller parameters	
prober			system performance	
Type of detector	Vanadium oxide non-refrigerating infrared pyroelectric detector		system	Linux
Response band	8~14 μ m		supply electricity	9-36V wide voltage
NETD	50mK @25℃ , F#1.0		NPU	3TOPS
resolution ratio	256*192		power dissipation	<5W
Pixel pitch	12 μ m		Identification type	Human vehicle target recognition, distance estimation
optics			discrimination	≥95 %
camera lens	10mm		real-time	≥21 FPS
Calibration method	Non-heat focal length lens, manual focus		AI identification distance	Man (60-100m); Car (200-300m)
angle of field (FOV)			joggle	
Detection distance (person / car)	<944m / <1389m		Camera interface	6P BMW head interface
Distance discrimination (person / car)	<236m / < 347m		video monitor 525 vidicon video out	PAL/USB synchronous output
frame rate	25Hz		parameter setting	Infrared remote control mode
Image algorithm	Enhanced details, auto shutter correction		communication interface	TTL serial port (output type, coordinate, distance)
Video format	UVC / White Heat Mode		early warning	Alarm the horn according to the speed and linkage distance
other			APP broadcast	
Lens protection	High intensity protective window		System version	Android 5-14
Window defrosting	Support (start below 2 °C and stop above 7 °C)		language	Simplified/Traditional Chinese, English, Russian
power	<<1W (heating off)/ 3W (heating start)		operate	Supports self-starting and voice wake-up
working temperature	-30~70° C		other	
protect	Aluminum alloy housing sealed IP67		working temperature	-30~70° C
size	L49*W35*H35mm		size	L110*W100*H25mm
weight	About 100g		weight	About 360g

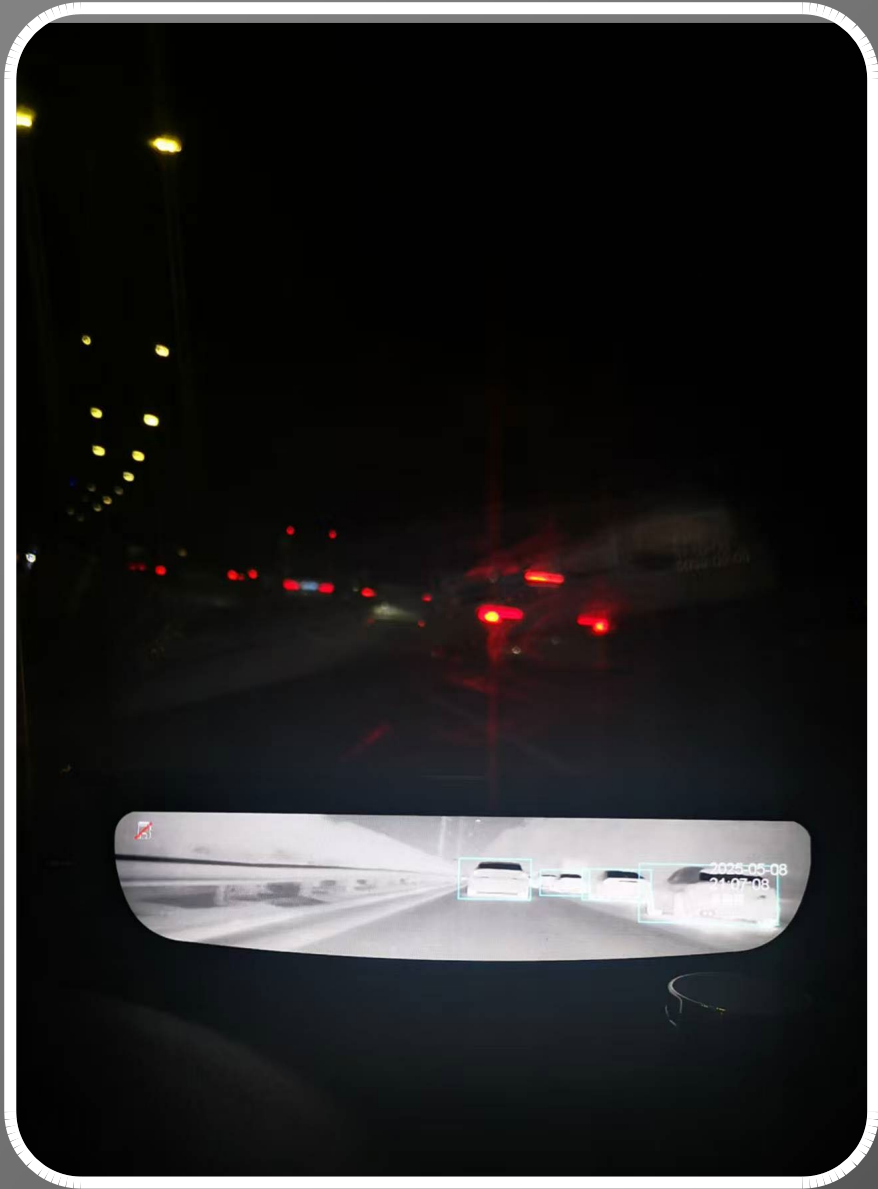


AHD Output Automotive Thermal Imaging Host

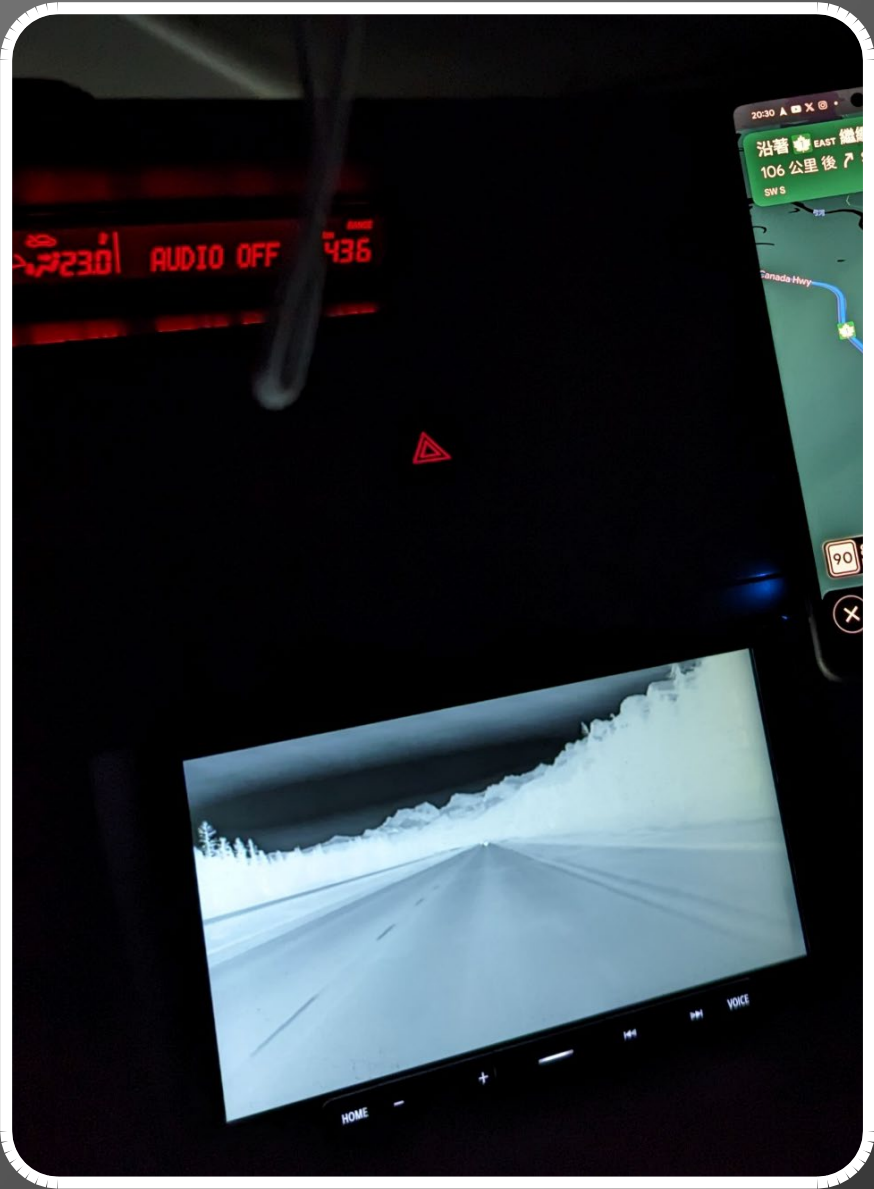
M2A



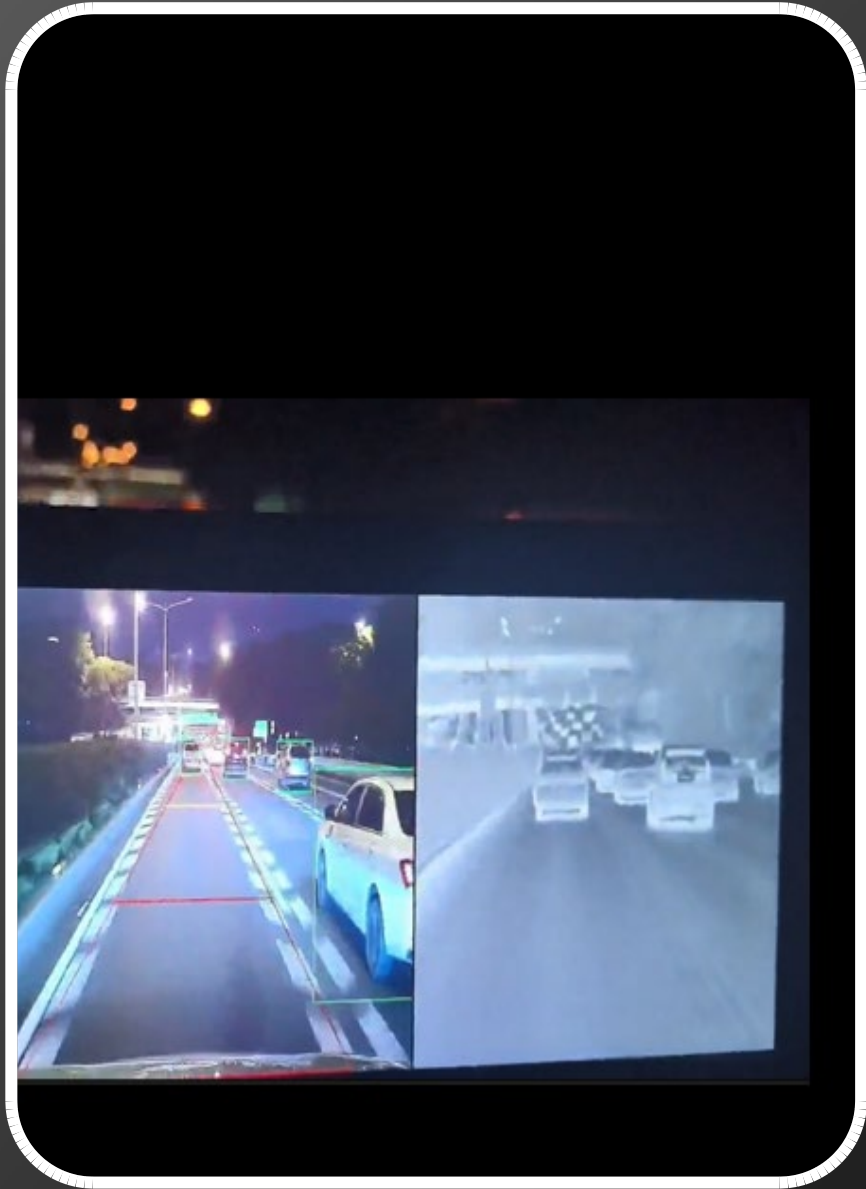
- Supports AHD (720P/1080P/25hz/30hz) output



Streamed Rearview Mirrors



AHD Indicator



Third Party Integration

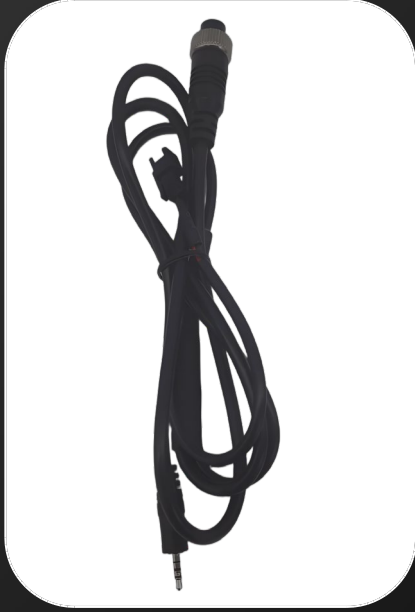
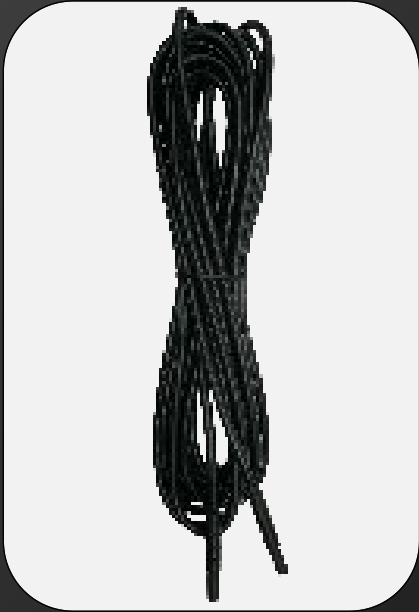
Product List



Main Engine



Thermal Imaging Camera



Lighter, camera extension cord, video cable, GPS/horn/remote control, camera mounting accessories (5m)

Product Parameter

product model	M2A			
product name	AHD outputs automotive thermal imaging night vision systems			
Thermal imaging camera parameters			Controller parameters	
prober			system performance	
Type of detector	Vanadium oxide non-refrigerating infrared pyroelectric detector		system	Linux
Response band	8~14 μ m		supply electricity	9-24V wide voltage
NETD	50mK @25℃，F#1.0		NPU	3TOPS
resolution ratio	256*192		power dissipation	<5W
Pixel pitch	12 μ m		Identification type	Human and vehicle target recognition, distance estimation
optics			discrimination	≥95 %
camera lens	10mm		real-time	≥21 FPS
Calibration method	Non-thermal fixed focus lens, manual focus		AI identification distance	Man (60-100m); Car (200-300m)
angle of field (FOV)			joggle	
Detection distance (person / car)	<944m / <1389m		Camera interface	4P BMW head interface
Distance discrimination (person / car)	<236m / < 347m		video monitor 525 vidicon video out	AHD (720P/1080P/25hz/30hz)
frame rate	25Hz		parameter setting	Infrared remote control mode
Image algorithm	Enhanced details, auto shutter correction		communication interface	TTL serial port (optional)
Video format	UVC / White Heat Mode		early warning	Alarm the horn according to the speed and linkage distance
other			Video interface	Fourcore head and RCA head are optional
Lens protection	High intensity protective window		GPS	support
Window defrosting	Support (start below 2 °C and stop above 7 °C)		operate	Start background warning, customize warning speed, etc
power	<<1W (heating off)/ 3W (heating start)		other	
working temperature	-30~70° C		Access to electricity	cigar lighter
protect	Aluminum alloy housing sealed IP67		working temperature	-30~70° C
size	L49*W35*H35mm		size	L110*W100*H25mm
weight	About 100g		weight	About 360g

7 Inch Car Thermal Imaging Night Vision System

LC 7

The 7-Inch Screen Is Integrated With AI Algorithm



...

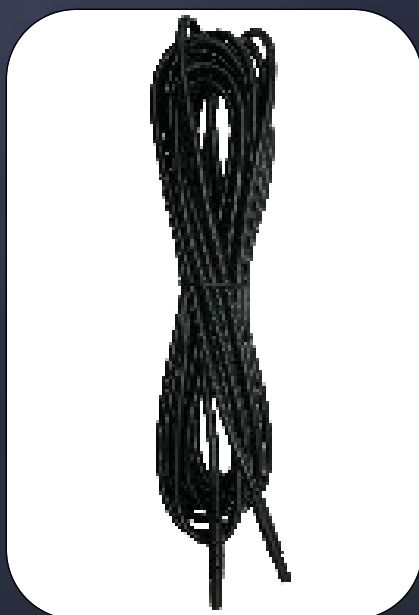
**Universal Across All Vehicle Series |
Easy Installation With 24/7 Safety
Visualization**



Product List



Cigar Lighter

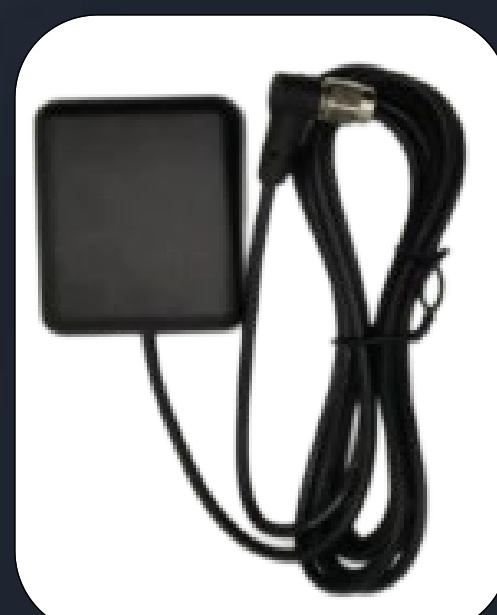


Camera Extension Cord

(5m)



Mainframe Support



GPS



Camera mounting accessories

Product Parameter

product model	LC7		
product name	7 inch car thermal imaging night vision system		
Thermal imaging camera parameter		Host parameter display	
detector			
Type of detector	Vanadium oxide non-refrigerating infrared pyroelectric detector		
Response band	8~14 μ m		
NETD	50mK @25℃， F#1.0		
resolution ratio	256 * 192 (optional 384* 288/640* 512)		
Pixel pitch	12 μ m		
optics			
camera lens	10mm		
angle of field (FOV)	18° *13°		
Detection distance (person / car)	<944m / <1389m		
Distance discrimination (person / car)	<236m / < 347m		
frame rate	25Hz		
Image algorithm	Enhanced details, auto shutter correction		
Image patterns	White-hot mode		
other			
Lens protection high strength protective window			
Window defrosting	Support (start below 2 °C, stop above 7 °C)		
power	<<1W (heating off)/ 3W (heating start)		
protect	Aluminum alloy housing sealed IP67		
size	L40*W30*H26mm		
weight	About 60g		
		system	
		Linux	
		NPU	
		3TOP	
		Identification type	
		People (including pedestrians/cyclists/electric vehicles/motorcycles, etc.)	
		Vehicles (common motor vehicles, engineering vehicles, etc.)	
		Early warning functions	
		The alarm can be linked to the pedestrian speed	
		discrimination	
		≥95 %	
		real-time	
		≥21 FPS	
		AI identification distance	
		Man (80-100m); Car (200-300m)	
		GPS	
		support	
		Method of reporting	
		Built-in horn alarm	
		other	
		working voltage	
		9-24V	
		power	
		5W	
		working temperature	
		-30℃~65℃	
		size	
		L180*W30*H117mm	
		weight	
		300g	

7-Inch Car Thermal Imaging and Mobile Phone Connectivity

Multi-Function Integrated Host

LC 7-N



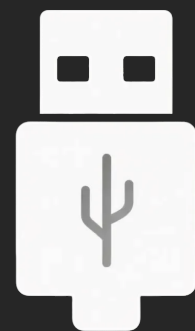
苹果Carplay



安卓Auto



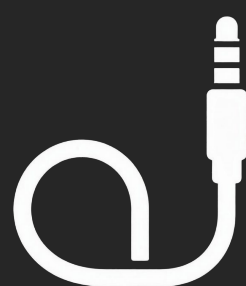
Small Body, Big Energy



Night vision, CarPlay, Android wireless, Bluetooth, USB player, Rearview camera, GPS
(apolegamy)



FM audio output



AUX audio output

Product List



Lighter extension cable and wiring harness main bracket
(5m)

GPS camera mounting accessories

Partial UI Display



Product Parameter

product model	LC 7-N		
product name	7 inch car thermal imaging multimedia system		
Thermal imaging camera parameters		Host parameters	
prober		display screen	
Type of detector	Vanadium oxide non-refrigerating infrared pyroelectric detector	size	7 inches
Response band	8~14 μ m	Resolution ratio	1024*600 resolution IPS HD screen
NETD	50mK @25℃， F#1.0	Mobile Connectivity	
resolution ratio	256*192	iphone	support
Pixel pitch	12 μ m	Android phones	support
optics		multi-media	
camera lens	10mm	joggle	Standard USB interface
Calibration method	Non-heat focal length lens, manual focus	Support type	Video, music, Bluetooth music
angle of field （FOV）	18° *13°	Audio output	FM transmission, RCA output (3.5 headphone jack)
Detection distance (person/vehicle)	<944m / <1389m	video in	
Distance between vehicles (person/vehicle)	<236m / < 347m	Reverse camera	Supports CVBS rearview camera
frame rate	25Hz	Thermal imaging night vision	
Image algorithm	Enhanced details, auto shutter correction	Launch mode	Start up automatically
Video format	UVC / White Heat Mode	Identification type	Human and vehicle target recognition, distance estimation
other		discrimination	≥95 %
Lens protection	High intensity protective window	real-time	≥21 FPS
Window defrosting	Support (start when below 2 °C, stop when above 7 °C)	AI identification distance	Man (80-100m); Car (200-300m)
power	<1W (heat off) / <3 W (heat start)	GPS	support
joggle	4P BMW head	Method of reporting	Built-in horn alarm
working temperature	-30~65° C	other	
protect	Aluminum alloy housing sealed IP67	working voltage	9-24V
size	L40*W30*H26mm	power	10W
weight	60g	size	L180*W30*H117mm

10.36 Cassette Commercial Vehicle Video Host

Built-in Thermal Imaging Algorithm Board



Product Property

- 9-36V wide voltage input
- Support rear parking thermal camera
- The single card supports 256G
- Built-in thermal imaging AI module
- Video support H.265 press
- Support UPS technology, power outage
Scaling mode Videos can be stored normally

Product List



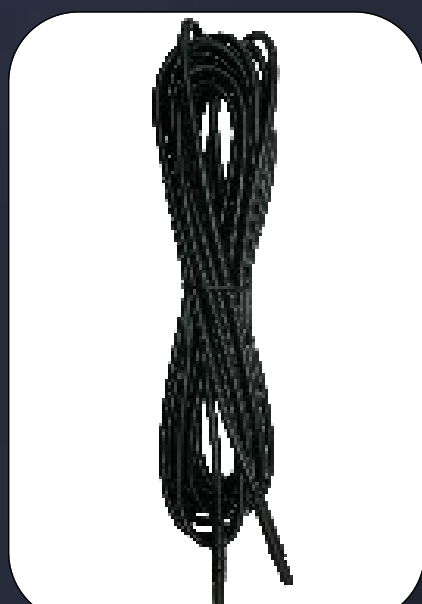
main engine



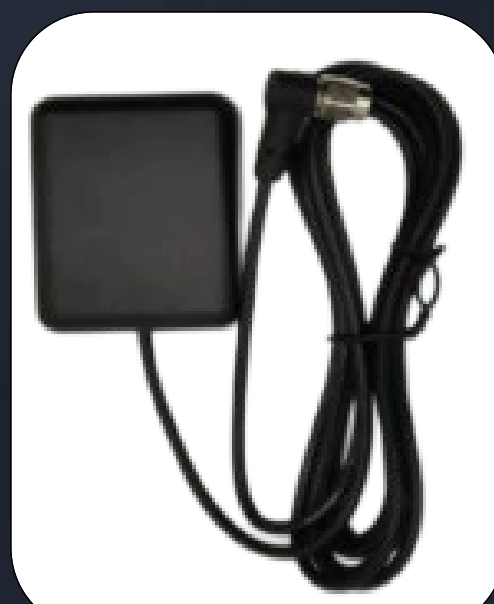
256*192 camera



Mainframe support



Camera extension cables



GPS antenna



Camera brackets

Product Parameter

product model	LC 10			
product name	10.36 Inch car thermal imaging night vision system			
Thermal imaging camera parameters			Controller parameters	
prober			system function	
Type of detector	Vanadium oxide non-refrigerating infrared pyroelectric detector		Display size	10.36 Inch IPS BOE HD screen
Response band	8~14 μ m		resolution ratio	1600*720
NETD	50mK @25℃， F#1.0		Touch screen functionality	2. 5D Touch edition
resolution ratio	256*192		power-off protection	Supports UPS technology, can work for 8 seconds without power to save video
Pixel pitch	12 μ m		Compression mode	H. 265
optics			TF card storage	Supports up to 256G
camera lens	10mm		Smart Power Management	Low voltage automatic shutdown
Calibration method	Non-heat focal length lens, manual focus		Thermal imaging camera	support
angle of field （FOV）	18° *13°		Thermal imaging AI module	
Detection distance (person / car)	<944m / <1389m		Launch mode	Start up automatically
Distance discrimination (person / car)	<236m / < 347m		Identification type	Human and vehicle target recognition, distance estimation
frame rate	25Hz		discrimination	≥95 %
Image algorithm	Enhanced details, auto shutter correction		real-time	≥21 FPS
Video format	UVC / White Heat Mode		AI identification distance	Man (80-100m); Car (200-300m)
other			GPS	support
Lens protection	High intensity protective window		Method of reporting	Built-in horn alarm
Window defrosting	Support (start below 2 °C and stop above 7 °C)		Number of thermal images	Default 1 road, optional installation of reverse wide-angle thermal imaging
power	<<1W (heating off)/ 3W (heating start)		other	
working temperature	-30~70° C		working voltage	9-36V input professional car power supply design
protect	Aluminum alloy housing sealed IP67		working temperature	-30~70° C
size	L49*W35*H35mm		size	L250*W25*H125mm
weight	About 100g		weight	About 360g

Android Car Access to the Original Car Screen Host

After Installing the Android Screen, BYD New Energy Special Purpose Vehicle Thermal Imaging M2



- Easy to install
- special use APP
- Original horn warning
- Super small thermal imaging camera

Only One Step to Connect to the Original Car Screen



The Host USB Output Is Connected to the Car USB Port and the Special APP Can Be Installed

Product List



Main Engine



Thermal Imaging Camera
(256*192 resolution)



lighter camera extension cable USB cable
(5m)

USB to C Connector

Camera mounting accessories

Product Parameter

Model	M2		
产品名称	安卓专用汽车热成像夜视系统		
热成像摄像头参数		控制器参数	
探测器		系统性能	
探测器类型	氧化钒非制冷红外焦平面探测器	系统	Linux
响应波段	8~14 μ m	供电	9-24V宽电压
NETD	50mK @25℃，F#1.0	NPU	3 TOPS
分辨率	256*192（可选384*288/640*512）	功耗	<5W
像元间距	12 μ m	识别类型	人车目标识别、距离估算
光学		识别率	≥95 %
镜头	10mm	实时性	≥21 FPS
调焦方式	无热化定焦镜头，手动对焦	AI识别距离	人（5-100m）；车（3-300米）
视场角（FOV）	18° *13°	接口	
探测距离(人/车)	<944m / <1389m	输入接口	4P宝马头接口
辨认距离(人/车)	<236m / < 347m	视频输出	USB（type-c接口，不带电压输出）
帧率	25Hz	参数设置	APP方式
图像算法	细节增强、自动快门校正	预警	根据车速联动原车喇叭报警
视频格式	UVC/ 白热模式	APP功能	
其他		系统版本	安卓 6-14
镜头保护	高强度保护窗	语言	简/繁体中文、英文、俄文
窗口除霜	支持（低于2° C时启动，高于7° C时停止）	操作	自启动后台预警、自定义预警车速等
功率	<1W(加热关闭) / <3 W（加热启动）	其他	
工作温度	-30~70° C	工作温度	-30~70° C
防护	铝合金外壳密封 IP67	取电方式	点烟器
尺寸	L40*W30*H26mm	尺寸	L98*W81*H22mm
重量	约60g	重量	约140g

The Wired CarPlay Channel Connects to the Original Car Screen

Special Thermal Imaging Night Vision System

M2C



- Easy to install
- Built-in decoder
- Built-in horn warning
- Ultra-small thermal imaging camera

Only One Step to Connect to the Original Car Screen



The USB Output of the Host Is Connected to the USB Port of the Car, and the Thermal Imaging Interface Will Be Automatically Opened

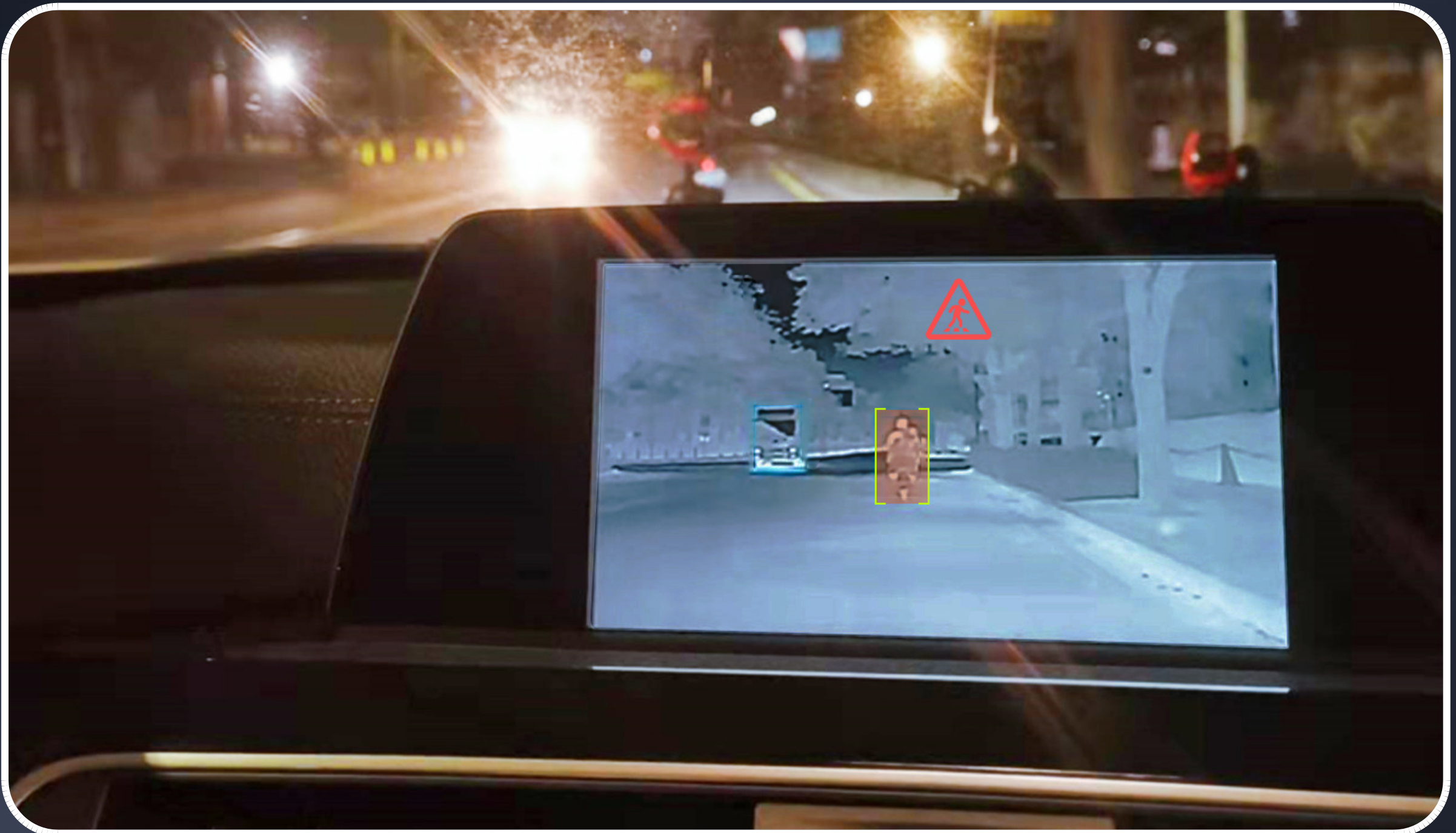
**Note: Suitable for Models With Wired CarPlay After 2016
(About 1500 models, conventional models can be installed)**

Product Parameter

product model	M2C			
product name	There is a dedicated thermal imaging night vision system for the carPlay channel			
Thermal imaging camera parameters			Controller parameters	
prober			system performance	
Type of detector	Vanadium oxide non-refrigerating infrared pyroelectric detector		system	LINUX
Response band	8~14μm		supply electricity	9-24V wide voltage
NETD	50mK @25°C, F#1.0		NPU	3TOPS
resolution ratio	256*192		power dissipation	<5W
Pixel pitch	12μm		Identification type	Human, vehicle target recognition
optics			discrimination	≥95 %
camera lens	10mm		real-time	≥21 FPS
Calibration method	Non-thermal fixed focus lens		AI identification distance	Man (60-100m) Car (200-300m)
angle of field	18°*13°		function	
Detection distance (person / car)	<944m / <1389m		Camera interface	4P BMW head interface
Distance discrimination (person / car)	<236m / < 347m		Camera location	Outside the car (thermal imaging can not penetrate glass)
frame rate	25Hz		video monitor 525 vidicon video out	USB (Type-C interface, no voltage output)
Image algorithm	Enhanced details, auto shutter correction		starting mode	Automatic/manual (It varies by model)
Video format	UVC/ White Heat Mode		Early-warning outputs	Built-in warning horn
other			Type of warning	pedestrian
Lens protection	High intensity protective window		Suitable vehicle type	A car with a CarPlay feature
Window defrosting	support		other	
Camera power	<1W		working temperature	-30~70°C
working temperature	-30~70°C		Storage temperature	-35~75°C
protect	Aluminum alloy housing sealed IP67		Access to electricity	cigar lighter
size	L40*W30*H26mm		size	L98*W81*H22mm
weight	About 60g		weight	About 160g

The Special Vehicle Decoder Is Connected to the Original Car Screen

Built-in Thermal Imaging Algorithm Board



- Support common fuel models



Hold the steering wheel and hang the machine button to turn on the night vision (some models may not be the same)

Fully hidden installation interface clean and no leakage

Product Accessories

The supporting special wiring harness is inserted into the original wiring harness for non-destructive installation



Product Parameter

Resolution Ratio

256*192

System

Linux

Focal Distance

10mm

Computing Power

3 TOP

Levels of Protection

IP67

Early Warning

External Speakers

Window Defrosting

Support

Identification Type

Pedestrians/ Motor Vehicles

Camera Size

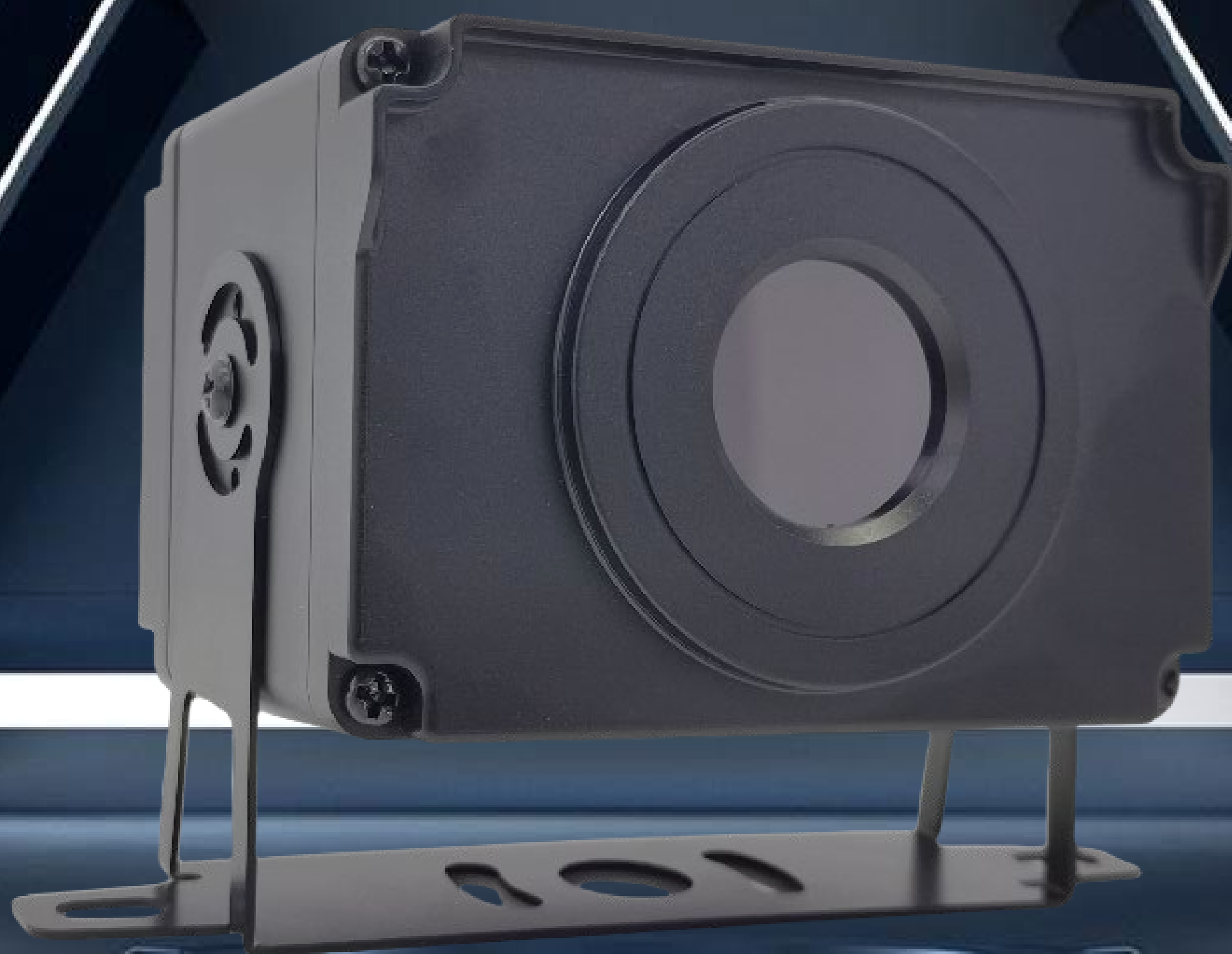
30*26*40mm

Suitable Vehicle Type

Conventional Fuel Vehicles, Such as BMW, Audi, Mercedes, Volvo, Volkswagen, Porsche, Toyota and so On

Car Private Hot Imaging Smart Camera

- 384*288
- AHD video monitor 525 vidicon video out
- FOV:30°*22°
- Warning horn output
- 9-24V power supply
- RS485 output



Product Parameter

product model	A3-9.1
product name	Intelligent vehicle-mounted thermal imaging camera
prober	
Type of detector	Vanadium oxide non-refrigerating infrared pyroelectric detector
Response band	8~14 μm
NETD	40mK @25℃, F#1.0
resolution ratio	384*288 / 640*512 (optional)
Pixel pitch	12 μm
optics	
camera lens	9.1mm
angle of field (FOV)	30° *22° (384*288) / 48° *39° (640*512)
Detection distance (person / car)	<860m / <1264m
Distance discrimination (person / car)	<215m / <316m
Image algorithm	Enhanced details, auto shutter correction
Image patterns	White-hot mode
algorithm module	
Launch mode	Start up automatically
system	LINUX
NPU	3 TOP
Algorithmic functionality	Pedestrians (including pedestrians, bicycles, electric vehicles, motorcycles), vehicle detection and identification
AI identification distance	Man (30-50m); Car (100-150m)
discrimination	≥95 %
frame rate	25Hz
presentation of information	RS485 / alarm horn
video monitor 525 vidicon video out	AHD (720P/1080P/25HZ/30HZ)
other	
Lens protection	High intensity protective window
Window defrosting	Support (start below 2 °C and stop above 7 °C)
protect	Aluminum alloy housing sealed IP67
working temperature	-30° C - 70° C
voltage	DC9-24V
power	<5W
size	L70*W85*H58mm (without bracket and terminal)
weight	About 400g

Night Vision Product Q&A

1、Will the Installation Damage the Original Car Circuit?

Our product has been optimized for the automotive scenario without compromising the original vehicle's wiring.

2、Will It Affect the Original Car Warranty?

will not

3、What is the difference between 256/384/640? The main difference is the resolution. The higher the resolution, the clearer the image will be. However, the ability to detect heat sources is the same. Therefore, the 256*192 resolution is very cost-effective as an entry-level product.



4、Why are automotive thermal imaging and night vision products expensive? Thermal imaging technology is a high-tech product used by both military and civilian. At present, the civil market is still in the promotion period, and there is no scale effect like ordinary cameras. Moreover, the core components need to use rare metal materials such as germanium, resulting in higher prices.

After 9 years of research and development and iteration, our products have achieved 100% domestic replacement. While ensuring military-grade quality, the price of thermal imaging night vision system has been reduced to a reasonable range, so that more car owners can enjoy the security brought by this cutting-edge technology.

5、How Long Is the Warranty?

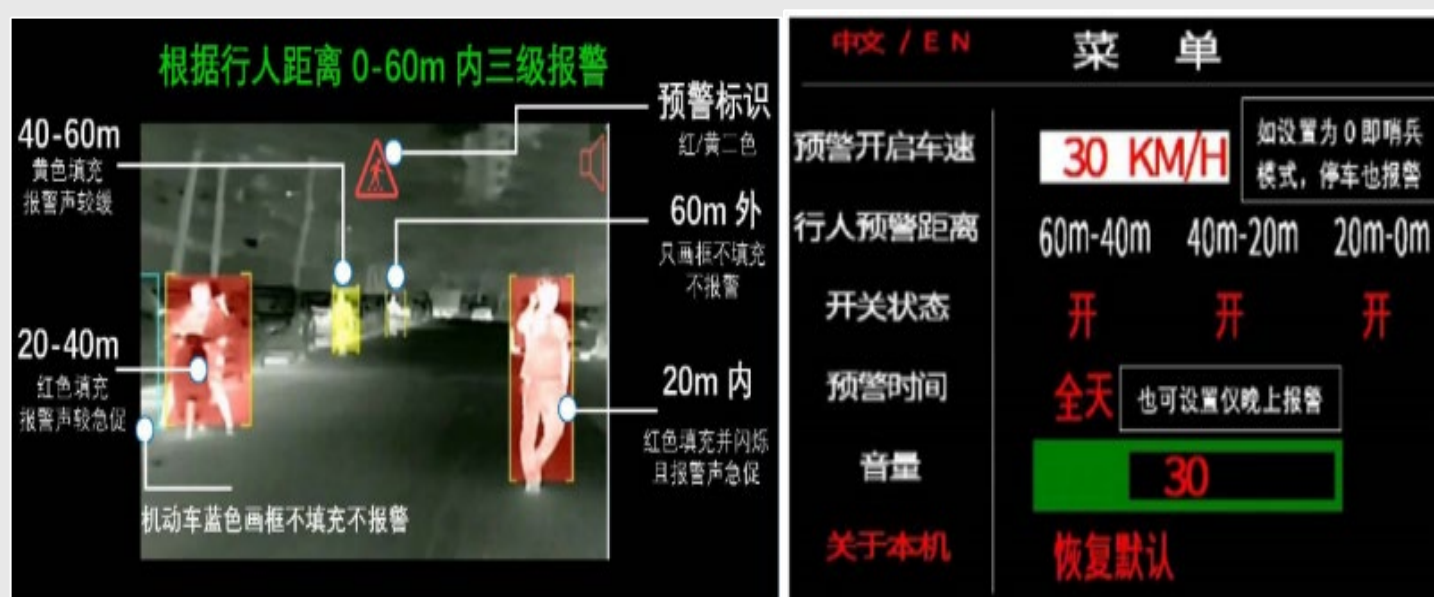
We offer 2 years of free warranty (non-manual damage) and lifetime maintenance.

6、How Long Does the Product Last?

The current thermal imaging technology is very mature, and it has been used for more than ten years without any problems, so it can be used safely.

7、How Does the System Alarm?

At present, we only carry out horn alarm for pedestrians. The system has built-in pedestrian distance calculation function, which can alarm according to the distance and speed.



8、Which models of imported cars have thermal imaging night vision?

Imported cars are mainly concentrated in the million above luxury cars, such as BMW 750/760, Audi A8 top configuration, Bentley and more than 40 models, domestic cars such as Haobo, Maserati 917, Yangwang U8, Equation Leopard 8, Wingzhen L380 and other models.

9、How effective is it in rainy/day/heavy fog?

The effect of thermal imaging is greatly affected by air humidity and surface temperature difference. In rainy/foggy weather, the infrared feature intensity of outdoor objects decreases, and the effect becomes worse. However, if the composition of heavy fog is solid particle size (haze), the imaging effect will be better.

10、How does it work in winter at minus 30 degrees?

It works normally, but because the temperature difference between objects outside is reduced, the imaging effect will be worse. At this time, even objects with temperature difference can be distinguished, but the contours are not so clear.

Night Driving "X-Ray Vision"

➤What Is Thermal Imaging Night Vision?

All objects emit infrared thermal radiation, and thermal imaging technology converts this invisible "thermal signal" into a clear visual image. This high-tech technology, which originated in the military field, is bringing revolutionary changes to the safe driving of **cars at night and in bad weather**.

➤Why Thermal Imaging?

●Super Long Range

Ordinary car lights have a range of only 40-100 meters, while thermal imaging can clearly identify pedestrians and vehicles 300-500 meters away, greatly improving the safety distance of driving at night.

●Not Afraid of Bright Light, Glare

Thermal imaging is not affected by strong light glare and can be clearly imaged because it is formed by the temperature difference of the object surface.

●Penetrating Power of Bad Weather

It can effectively penetrate fog, haze, soot and other low visibility environment, and cope with sudden weather changes with ease.

●Biological Precision Identification

Based on temperature difference, it can quickly detect pedestrians, animals, vehicles and other hot targets, which is more reliable than traditional visual recognition.

●Intelligent Early Warning Protection

Combined with AI algorithm, the potential danger is automatically warned to give drivers more reaction time.

Thermal imaging and night vision can easily cope with the following road conditions.



➤Application Scenarios

Off-road vehicles, cars, housing vehicles, commercial vehicles, vehicle-road coordination, intelligent transportation, automatic patrol vehicles in large places, mines, docks, airports, engineering machinery, agricultural machinery, etc.

On-Board Thermal Imaging Camera Selection Table

camera							
	Model parameters	C2-1.5	C-M2	C2-10	C3-9.1	C3-13	C6-9.1
resolution ratio	256*192	256*192	256*192	384*288	384*288	640*512	640*512
NETD	<50mk	<50mk	<50mk	<40mk	<40mk	<40mk	<40mk
Image sensor size	12 μ m	12 μ m	12 μ m	12 μ m	12 μ m	12 μ m	12 μ m
Lens focal length	1. 5mm	10mm	10/3. 6mm	9. 1mm	13mm	9. 1mm	13mm
horizontal angu- lation	120°	18°	18/49°	29°	20°	48°	34°
frame rate	25fps	25fps	25fps	50fps	50fps	50fps	50fps
night visual range	60m	350m	350/140m	320m	500m	320m	500m
video monitor 525 vidicon video out	PAL/UVC /AHD	UVC	PAL/UVC /AHD	PAL	PAL	PAL	PAL
AI recognition distance (pe- destrian)	<10m	<100m	<100m / <40m	<40m	<80m	<40m	<70m
AI identifica- tion distance (vehicle)	<20m	<200m	<200m / <100m	<100m	<200m	<100m	<200m
automatic defr- osting	nonsupport	support	support	support	support	support	support
size (mm)	35*35*40	30*26*40	35*35*49	42*42*60	42*42*70	42*42*60	42*42*70
weight	100g	60g	100g	185g	190g	185g	190g
supply electricity	5-12V	5V	5-12V	5-24V	5-24V	5-24V	5-24V
power	<1W	<1W	<1W	<1. 5W	<1. 5W	<1. 5W	<1. 5W
other	Image default white heat module/ Detail enhancement/ Automatic shutter correction/ IP67 protection/work temperature (-30~70℃)/ High intensity lens protection window						

