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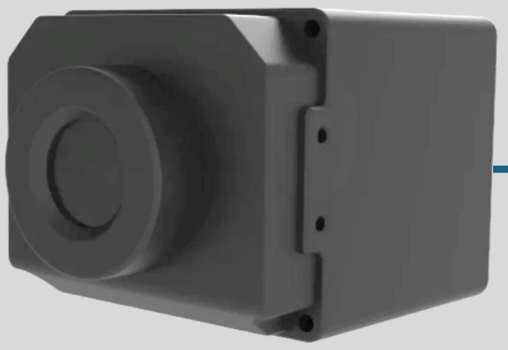
Smart Vehicle Thermal AHD Camera

- Resolutions: 640×512 / 384×288 / 256×192
- Horizontal FOV: 18°–110° optional
- Others: AHD / RS485 / Alarm Speaker / 9–24V / IP67
- Built-in AI: Person/Vehicle Detection & Distance Output



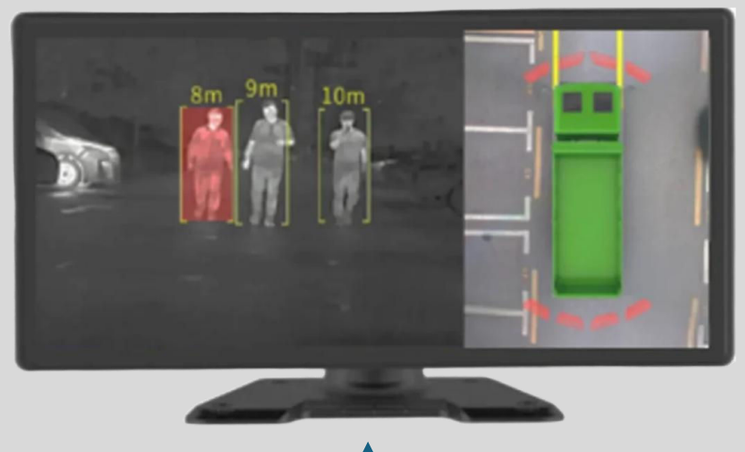
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Application Scenarios



Vehicle Thermal
AHD Camera

AHD Video
RS485 Data
Alarm
Speaker



Thermal-Linked Display



Commercial/Mining Truck
Warning Platform



Thermal-Linked
Warning Terminal

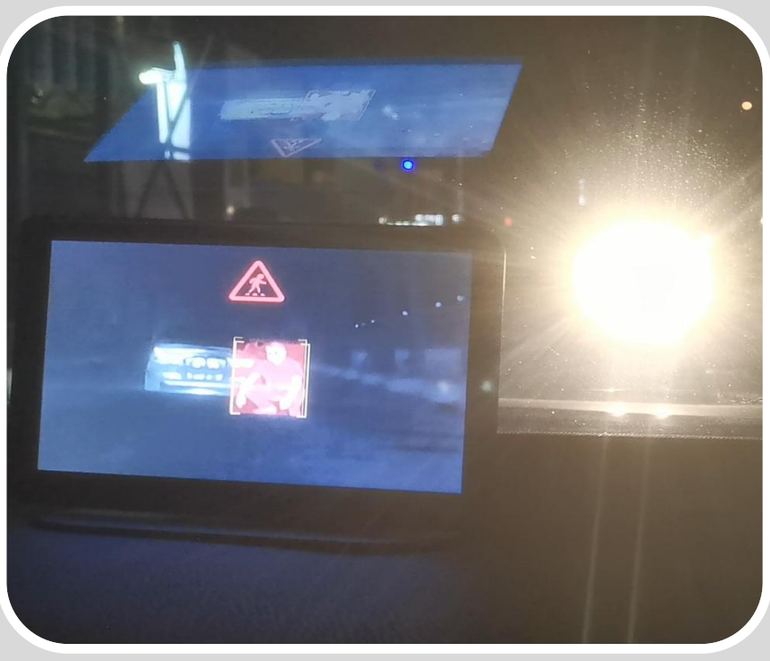
Active-Safety Video

360° Surround Camera

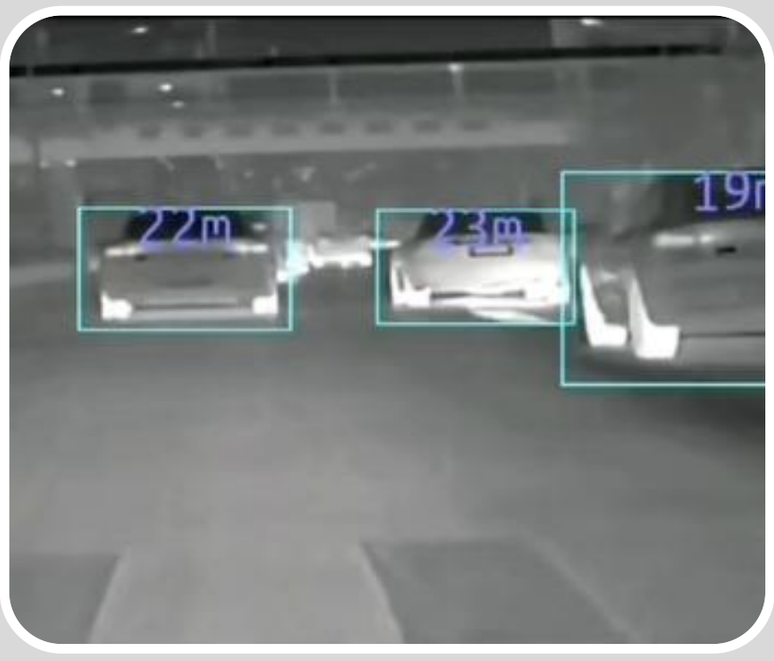
Radar

DSM Camera

Smart Vehicle Thermal AHD Camera Integration



Crouching Detection



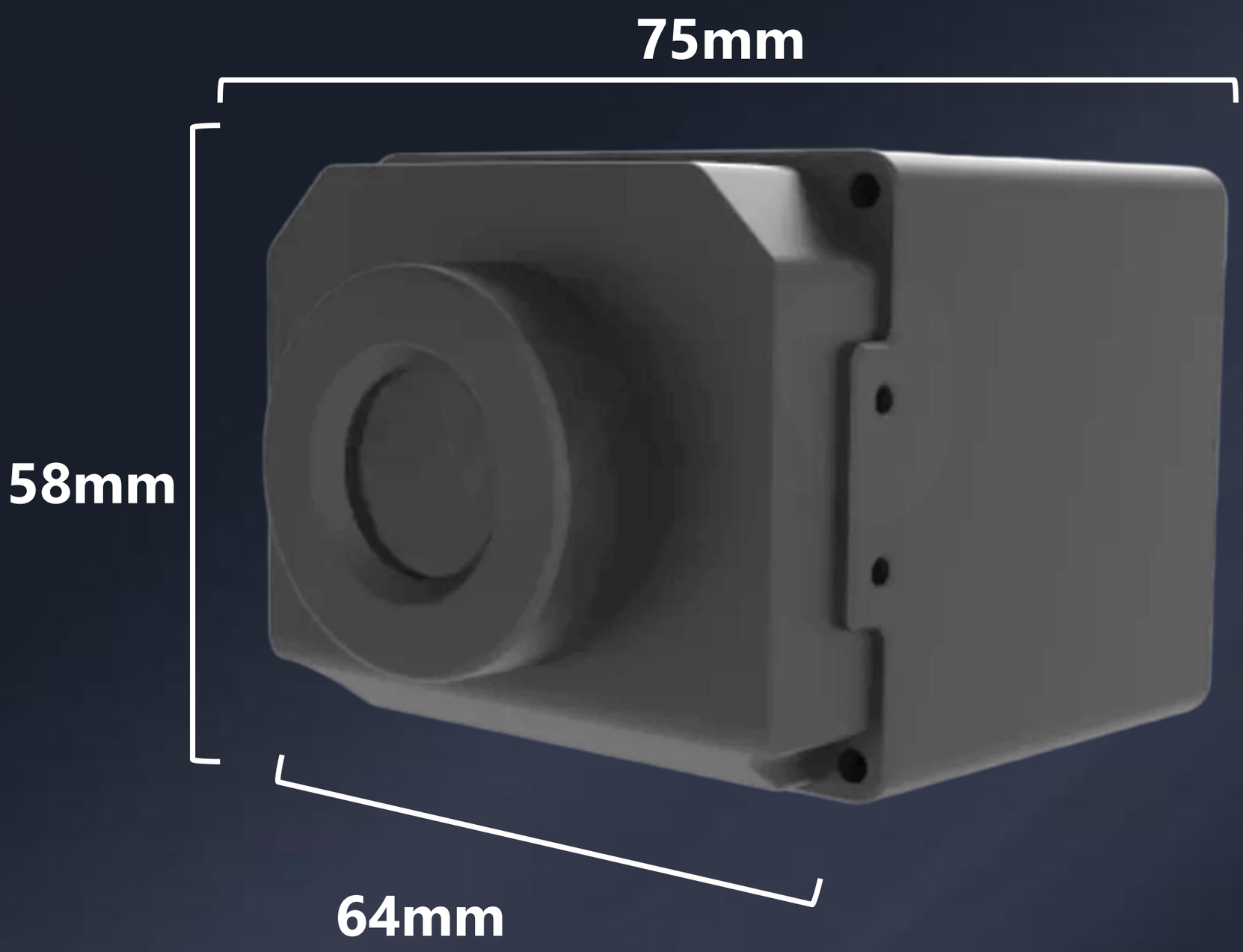
Vehicle Distance Label

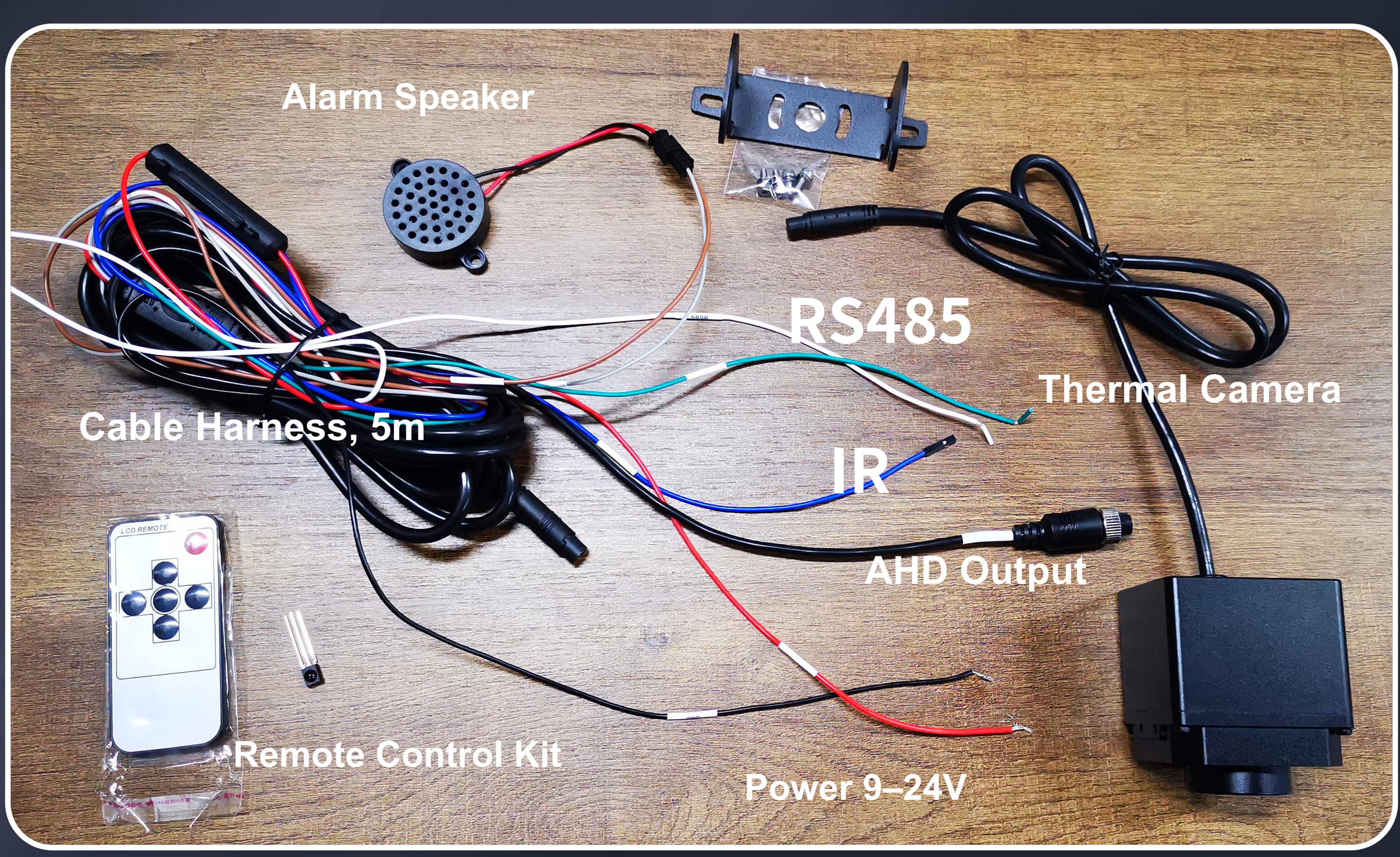


Pedestrian Distance Label

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Product Details

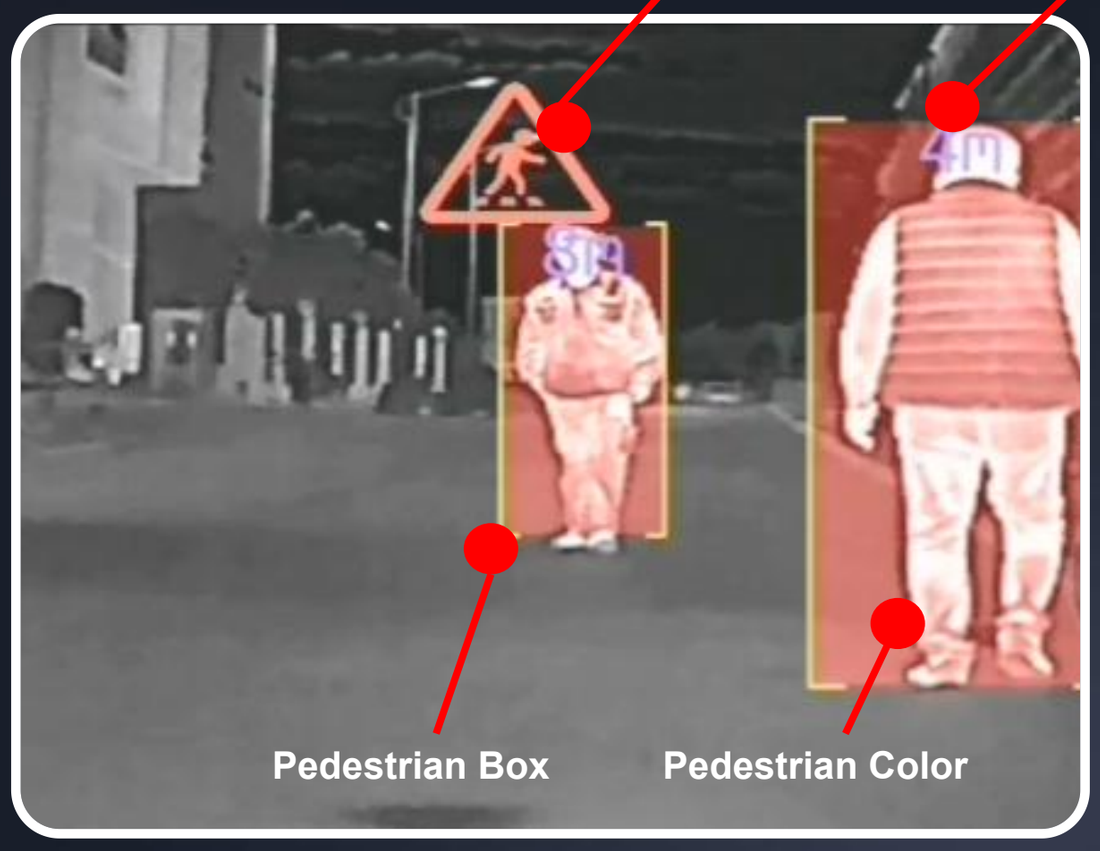


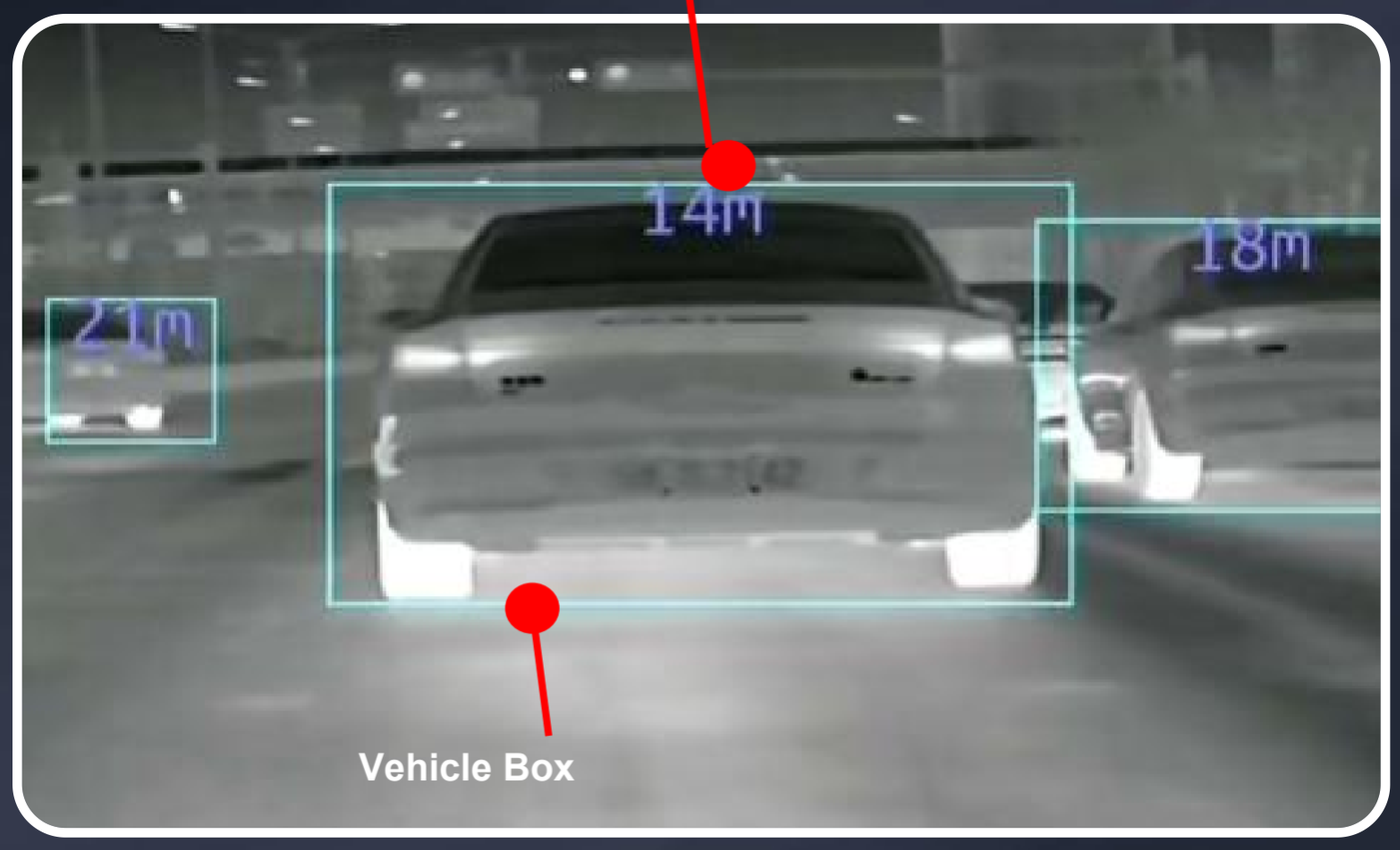


AHD Thermal Camera Accessories

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Interface Guide





- All labels above can be modified or turned off via the remote



See the manual for operation

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Remote Receiver Installation

Model: IRM3638T

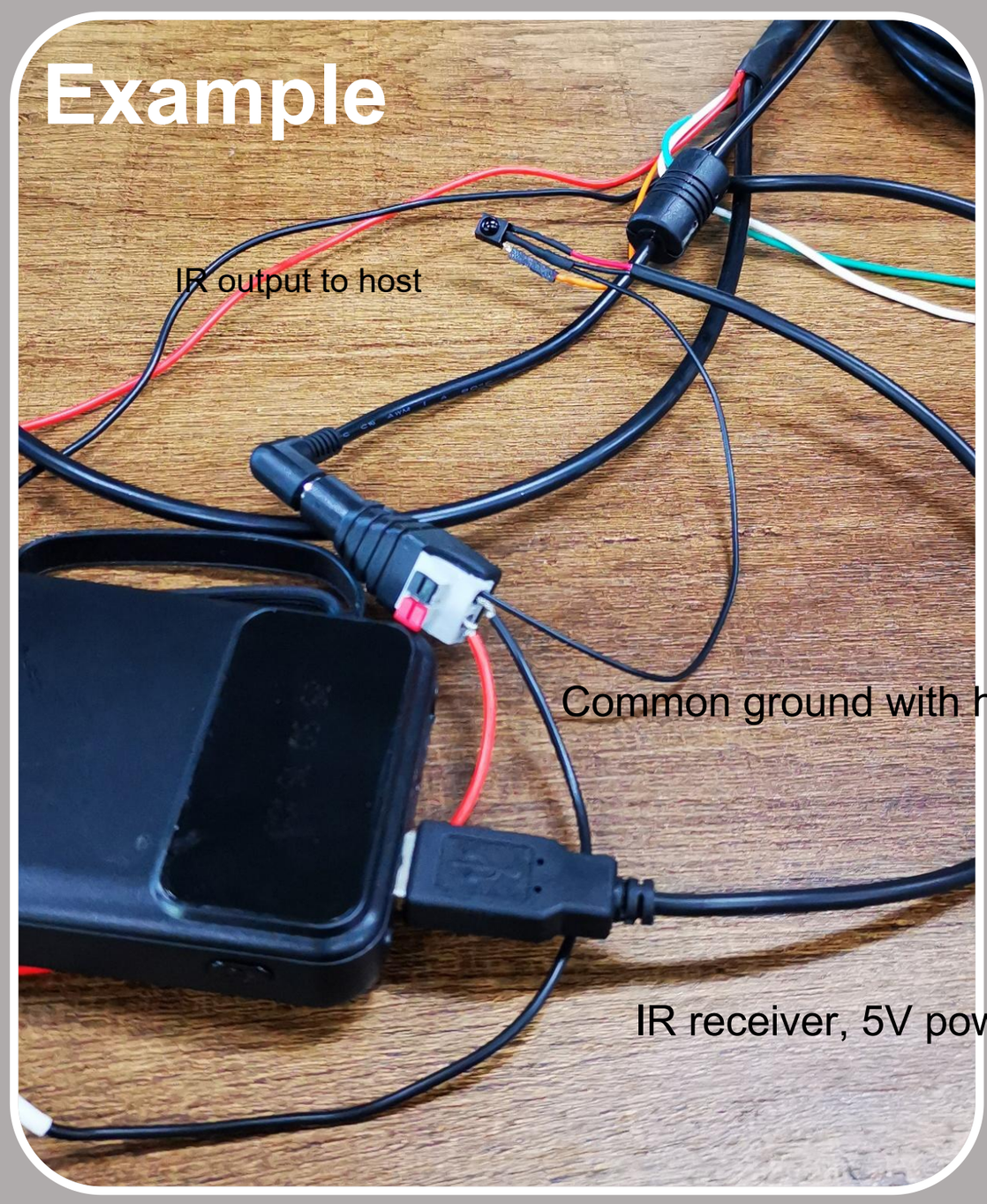


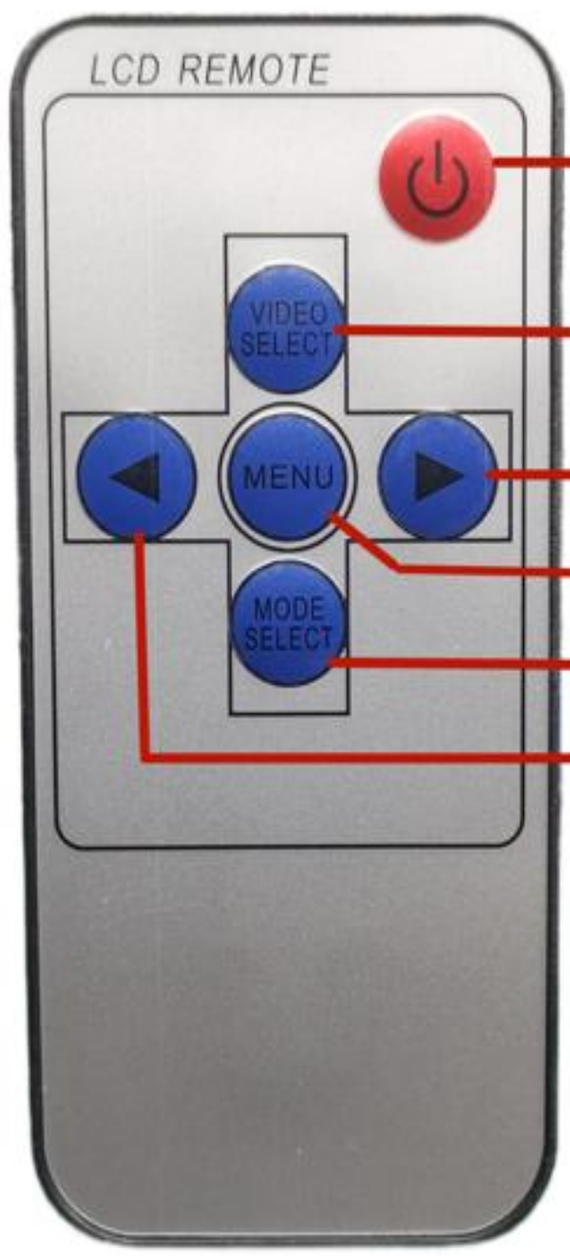
Connect to 5V VCC

Connect to 5V GND

Connect to host IR input

Tie to host GND (common ground)





Install the IR receiver correctly. After the host powers on and displays an image, press the red button at the top-right of the remote to enter the settings menu (the system takes a while to enter, save, and exit; please wait for the screen to appear).

RS485:
115200,8,1,N
This device transmits only and does not receive; it sends data (e.g., distance) only when a pedestrian or vehicle is detected. If distance accuracy is insufficient, recalibrate; contact us for the protocol.

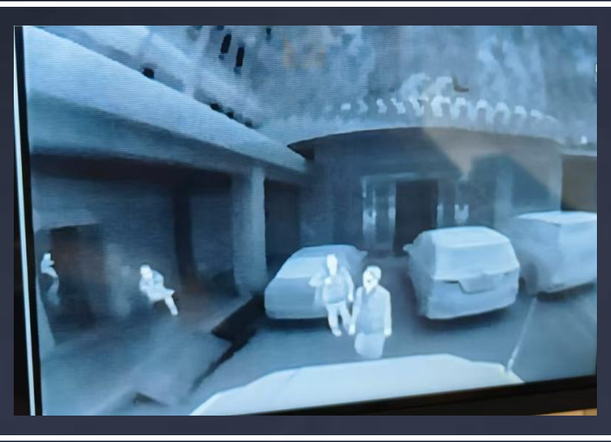
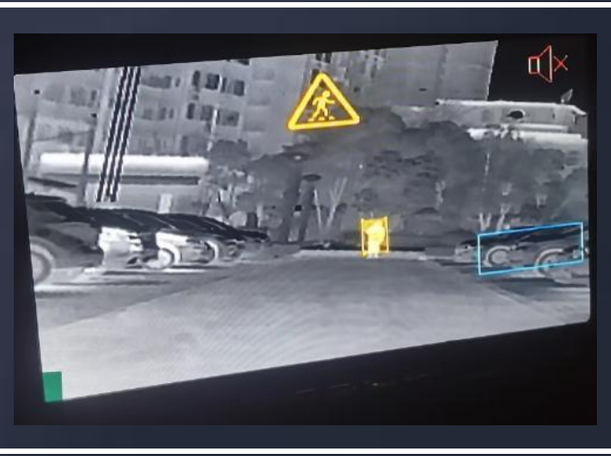
Specifications

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Product Name	Smart Vehicle Thermal AHD Camera								
Thermal Configuration									
Resolution	256*192			384*288		640*512			
Model	TA2-2	TA2-4	TA2-9.1	TA3-4	TA3-9.1	TA6-4	TA6-4.6	TA6-9.1	TA6-13
Focal Length	2mm	4mm	9.1mm	4mm	9.1mm	4mm	4.6mm	9.1mm	13mm
FOV	100°70°	45°33°	18°13°	66°55°	29°22°	110*88°	95°76°	45°37°	34°27°
Night Range (P)	40m	94m	236m	150m	214m	85m	108m	214m	306m
Night Range (V)	70m	138m	347m	240m	315m	140m	159m	315m	451m
AI Range (P)	12m	30m	80m	25m	40m	15m	20m	30m	50m
AI Range (V)	25m	50m	150m	80m	100m	30m	50m	70m	100m
Window / Defrost	—	Yes	Yes	Yes	Yes	—	—	Yes	Yes
Detector Type	VOx Uncooled IR FPA Detector								
Spectral Band	8~14μm								
NETD	≤40mK @25℃，F#1.0								
Pixel Pitch	12μm								
Image Mode	White-hot, Detail Enhancement, Auto Shutter Correction								
General									
Boot Mode	Auto-start on Power-on								
System	LINUX								
NPU	3 TOP								
AI Algorithm	Pedestrian (incl. bicycle, e-bike, motorcycle) & Vehicle Detection								
Detection Rate	≥95 %								
Frame Rate	25Hz								
Video Output	AHD (default 720P/25Hz; optional 1080P/25Hz, 1080P/30Hz)								
Other Interfaces	RS485 / Alarm Speaker / IR Remote Setting								
Protection	Sealed Aluminum Housing, IP67								
Operating Temp.	-30°C - 70°C								
Voltage	DC9-24V								
Power	＜7W								
Dimensions	L64×W75×H58mm (excl. bracket)								
Weight	Approx. 300g								

Performance by Model

VERYTEK

Model	Image		
TA2-2			
TA2-4			
TA2-9.1			
TA3-9.1			
TA6-4.6			
TA6-9.1			
TA6-13			