



A true revolution in the field of automotive vision – Excellent night-vision capability

High-performance EOS-BRI 7-inch thermal imaging camera system for cars, lorries and agricultural vehicles.



How does thermal imaging improve night-time driving?

70 per cent of serious road accidents occur at night due to poor visibility, glare from bright lights, mist and thick fog.

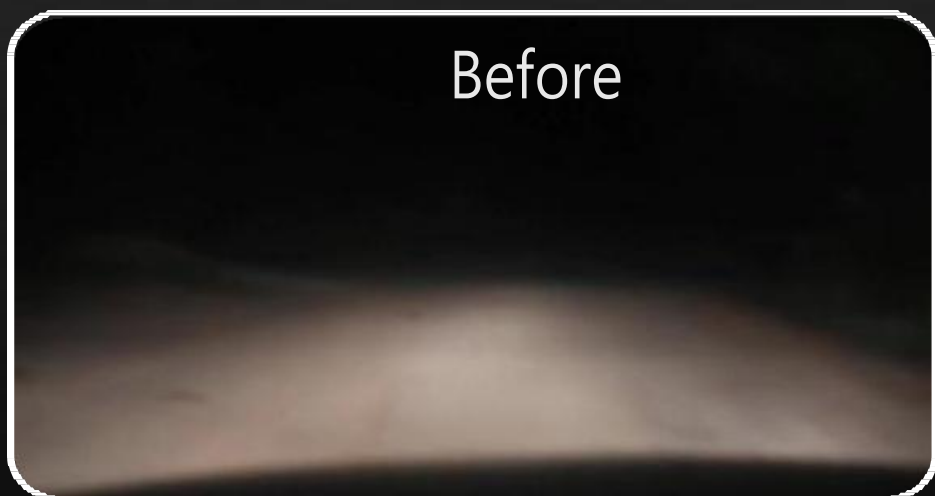
Thermal imaging solves all these problems:

Seeing in the dark

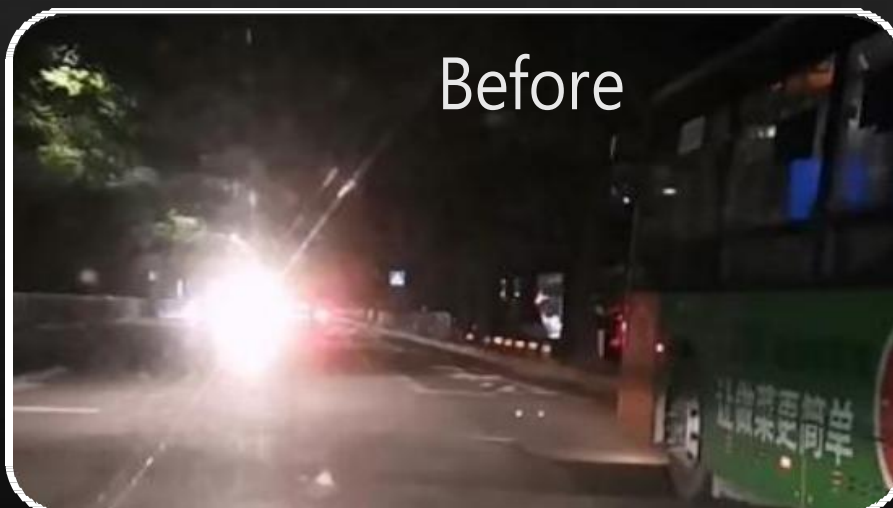
Anti-glare

Seeing through fog and mist

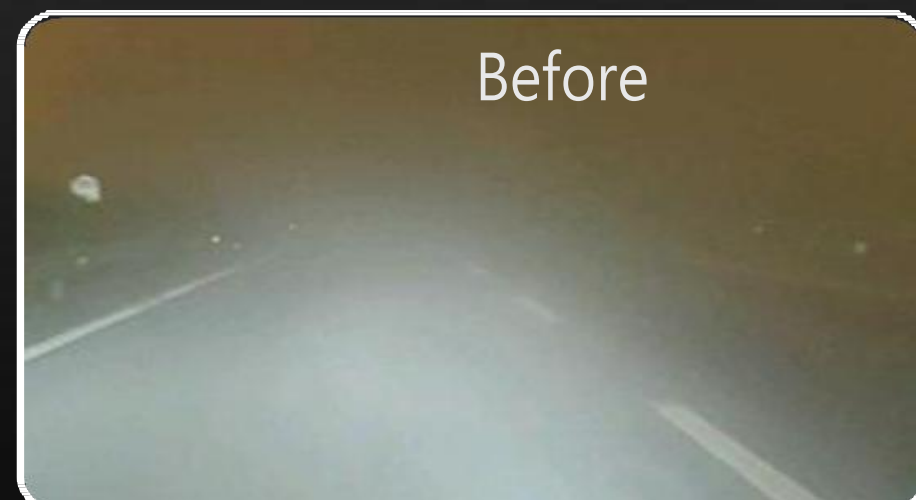
Before



Before



Before



After



After



After



Thermal imaging (far-infrared) generates images based on differences in the surface temperature of objects, regardless of light conditions. It offers unique advantages over visible-light cameras in automotive applications for detecting heat-emitting objects (humans, animals, vehicles) in total darkness, in bright light, and in **dense** mist and **fog**.

The power of AI

Detection of vehicles, pedestrians and animals



Accurate detection of animals



Detection of pedestrians and multi-target vehicles



Long-range detection of small targets

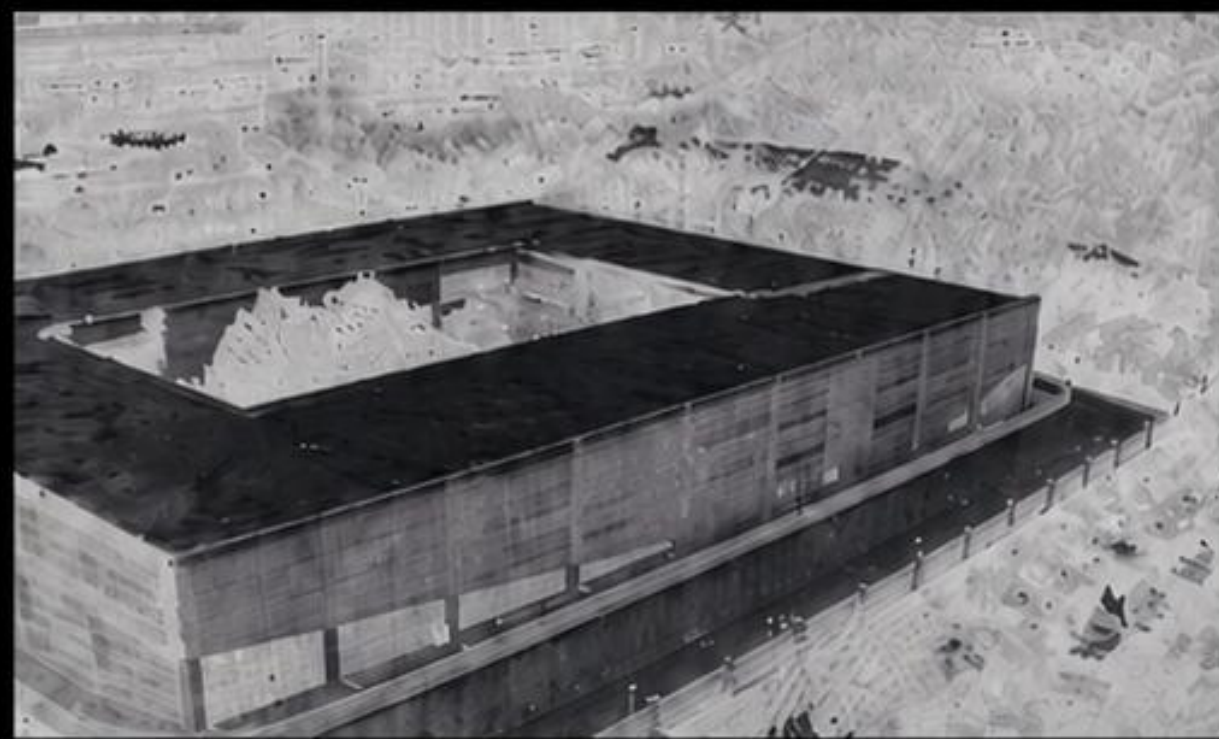
Ultra-low latency 50Hz frame rate



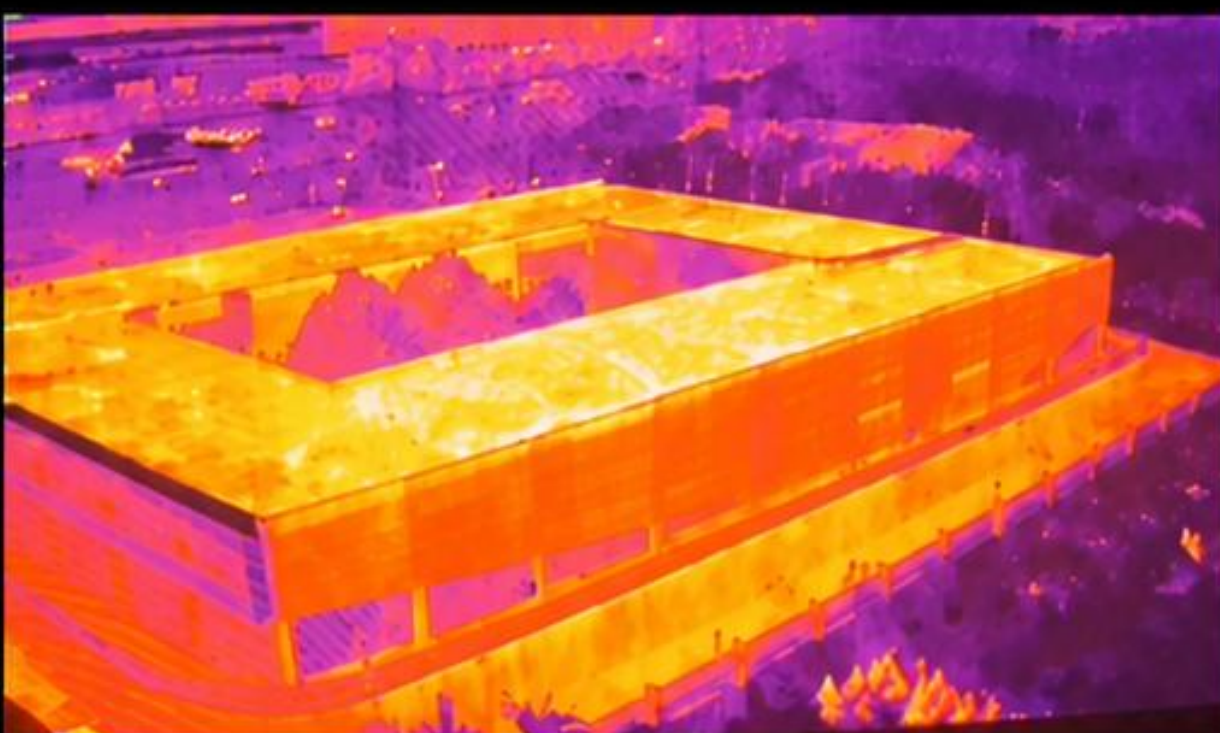
7 pseudo-colour modes (rapid change)



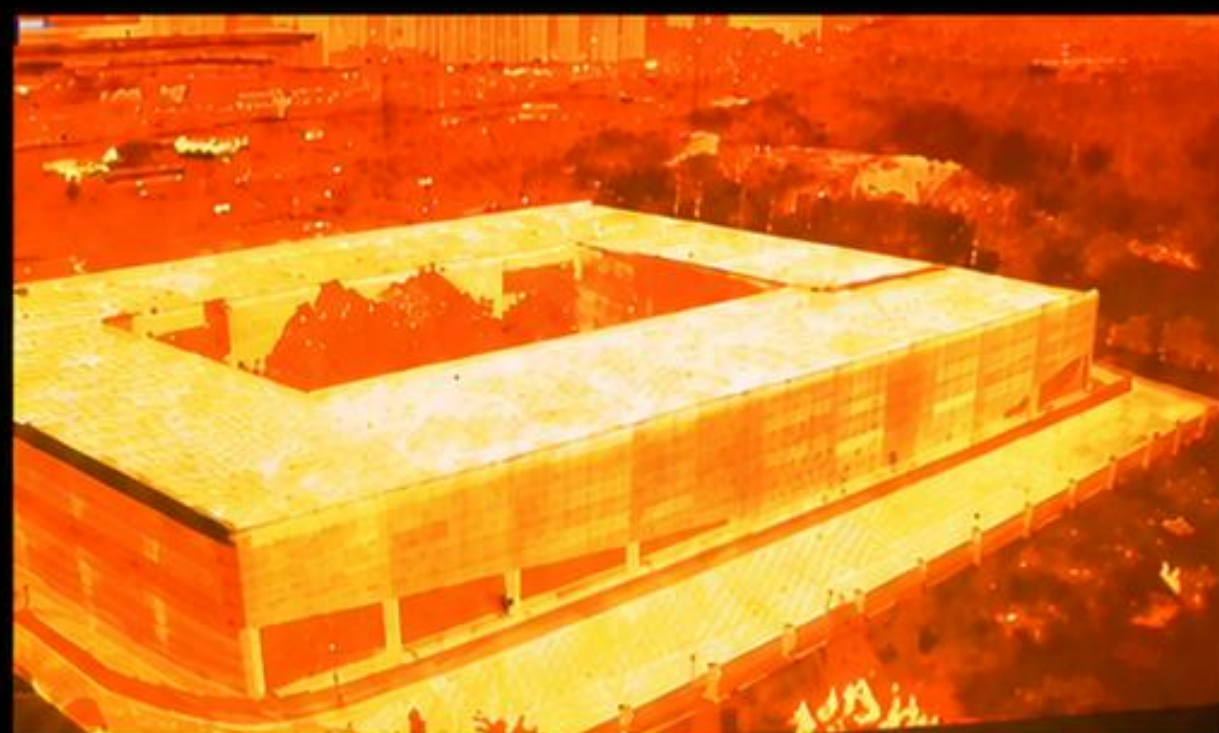
White hot



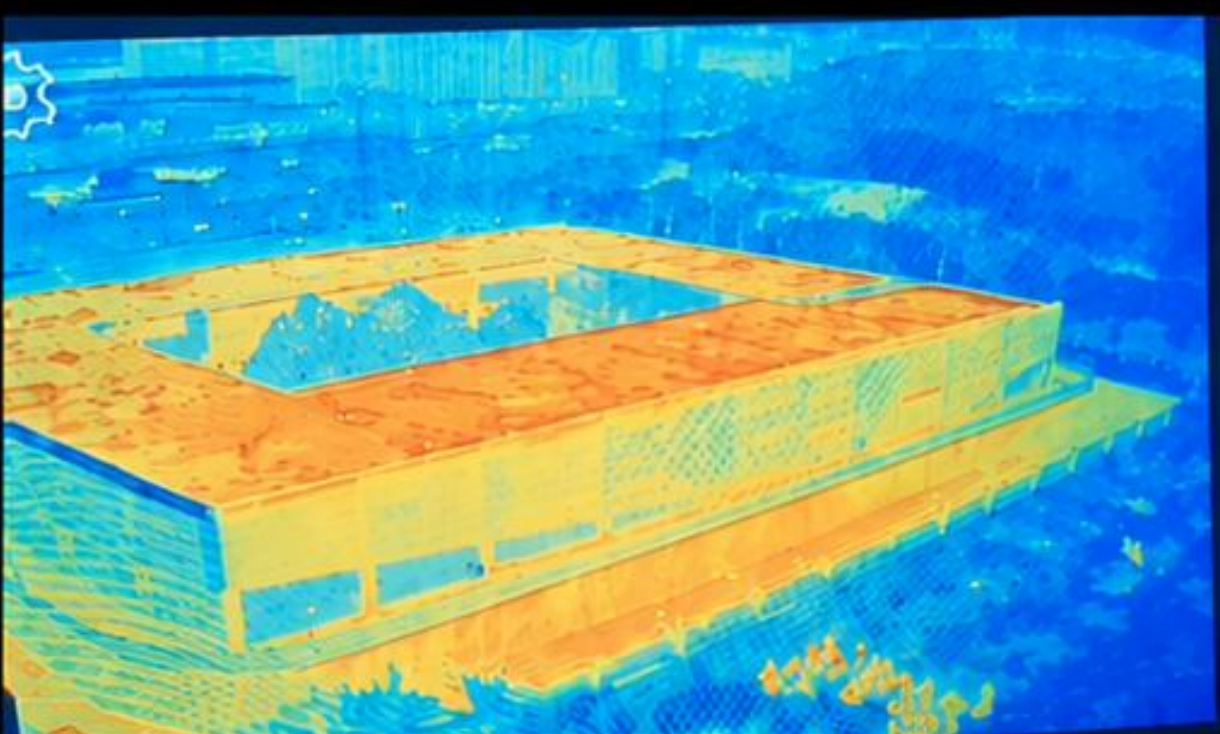
Black hot



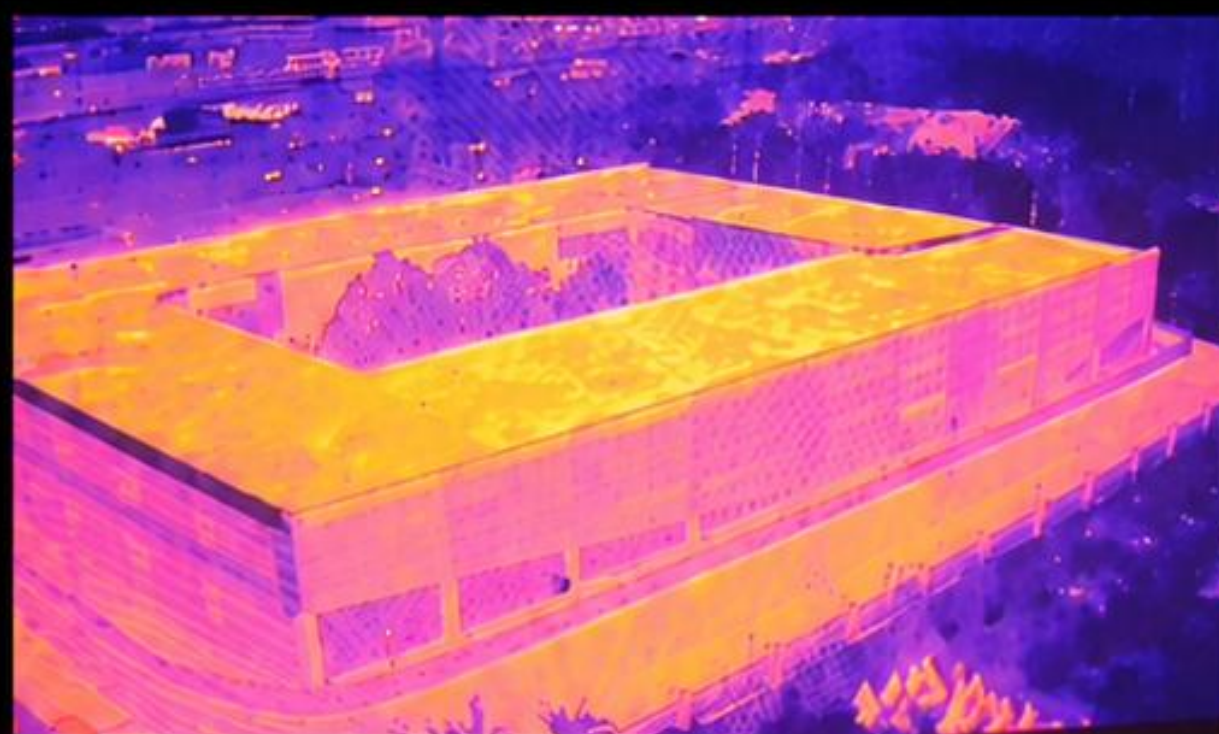
Iron red



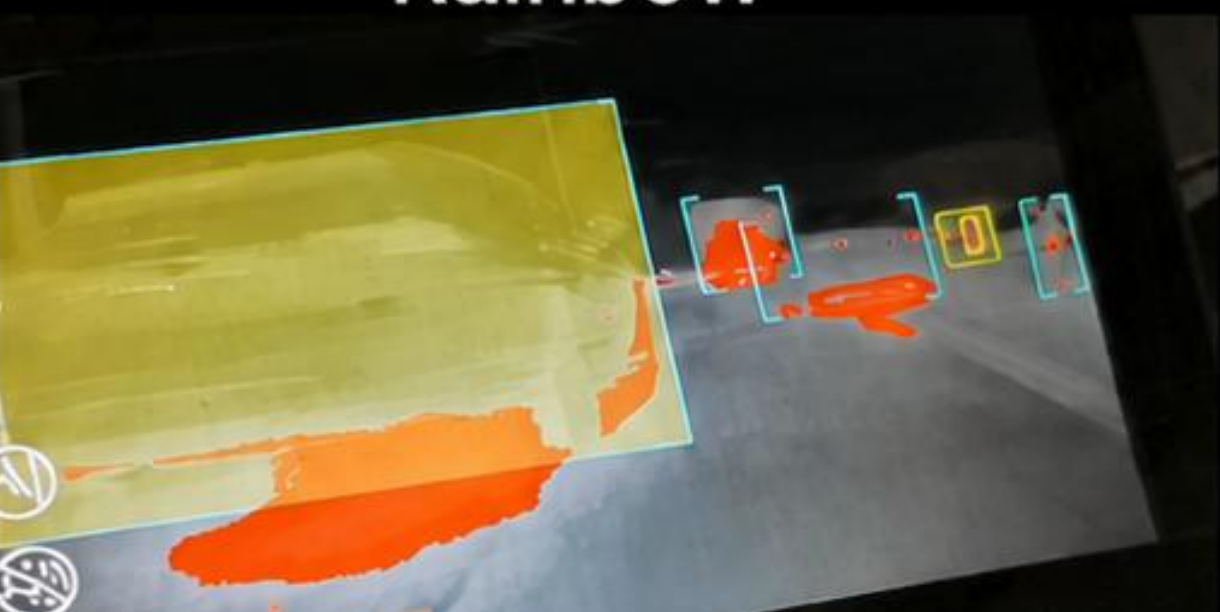
Hot



Rainbow



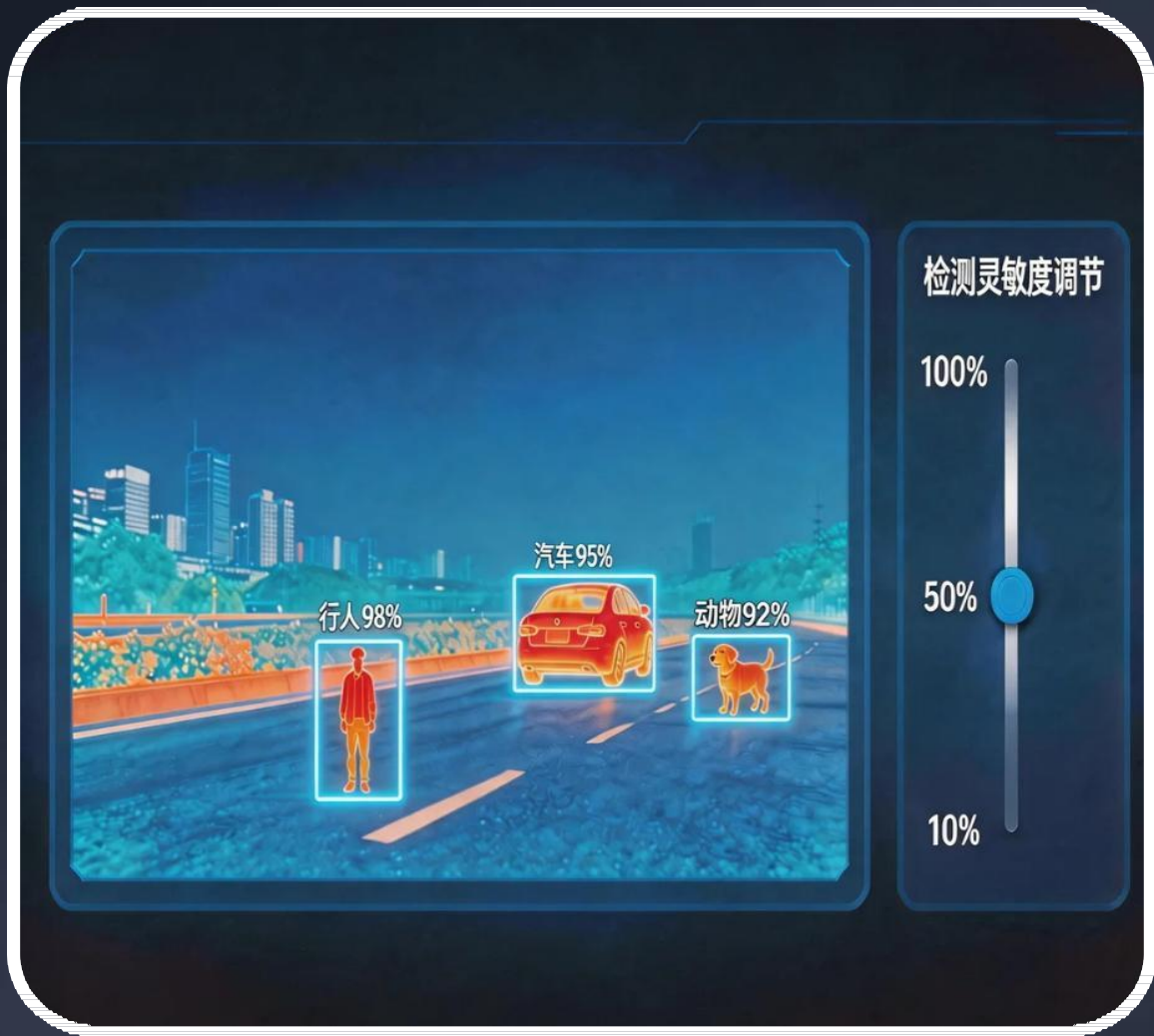
Lava



Hot red
(adjustable threshold)



Level 3 alert, customisable alert zone



Sensitivity to people, vehicles and animals
Adjustable sensitivity



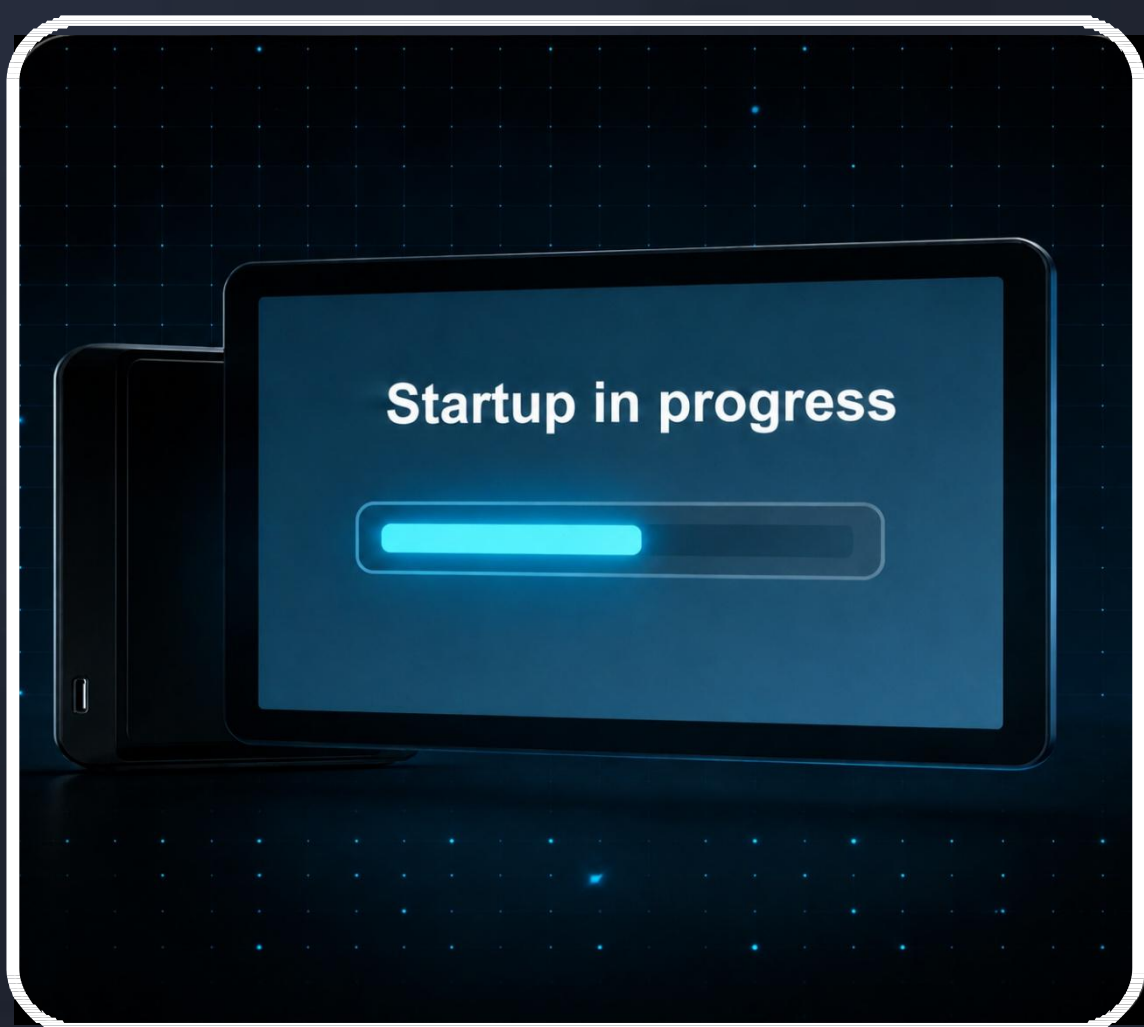
Video recording supported



Support for ten languages



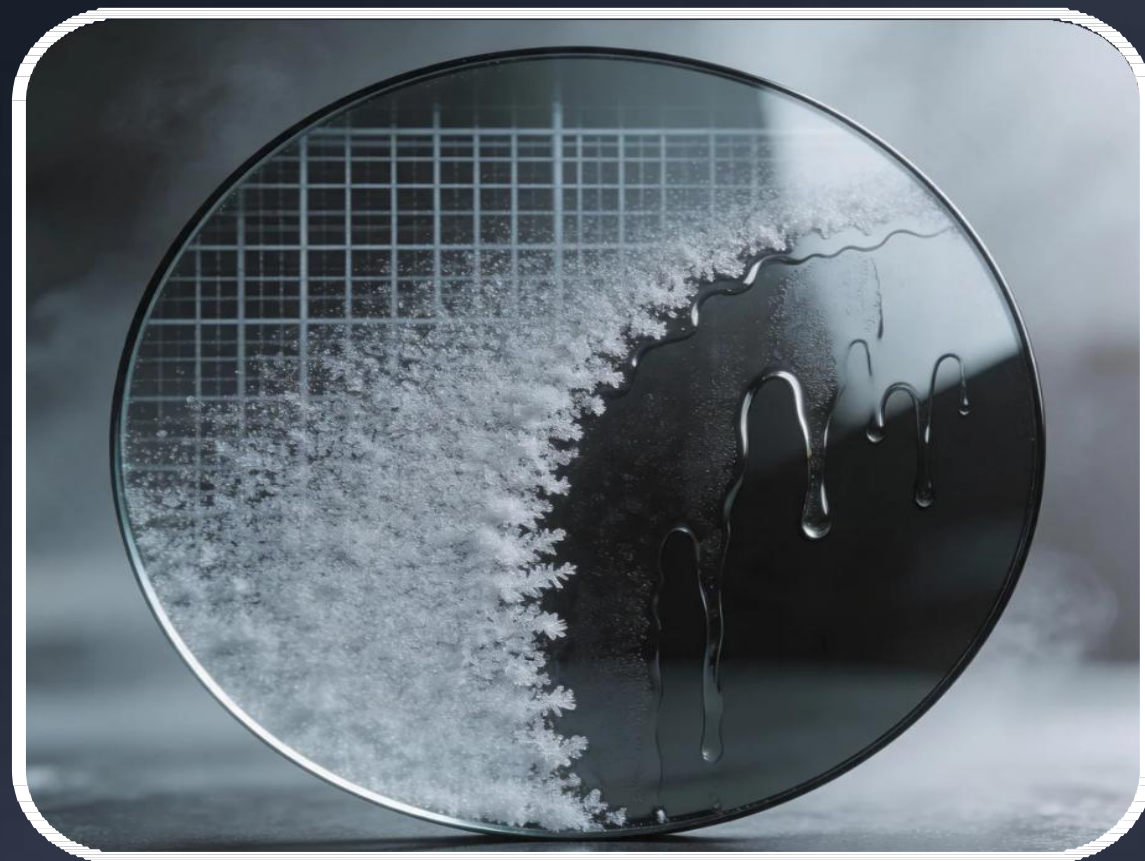
Supports customisable warning messages



Supports custom start-up video and logo



High-strength germanium window to protect the lens



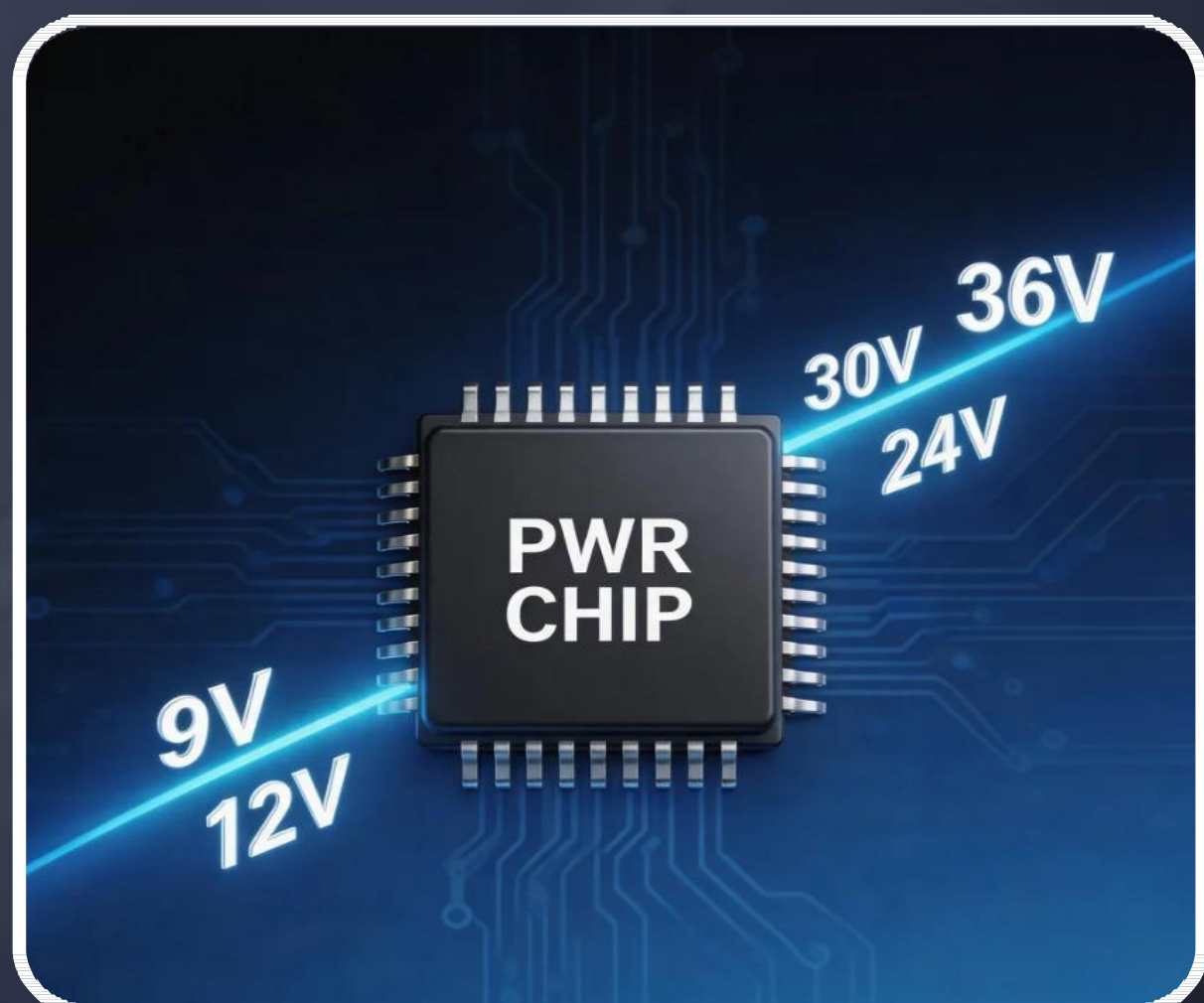
Automatic defrosting of the germanium window
(activates below 2 °C, stops above 7 °C)



Camera: IP67 waterproof



Host: IP66 waterproof



Wide input voltage range: 9–36 V



2.5D touchscreen



Contents of the pack



Main unit



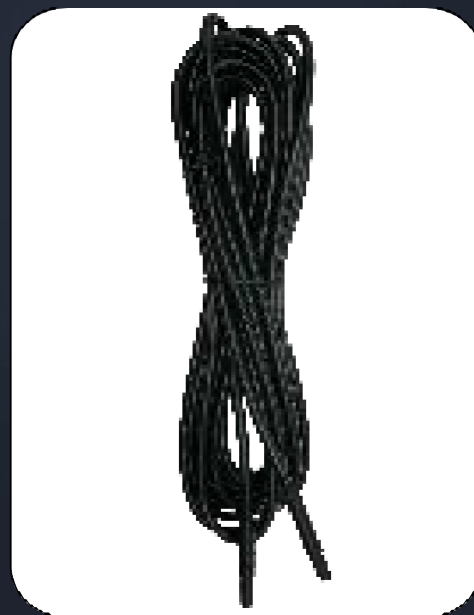
Thermal camera: resolution options: 256 × 192 / 384 × 288 / 640 × 512



**Mounting bracket for
host device (screen)**



**Cigarette lighter
socket**



Camera extension cable (5 m)



**Camera mounting
accessories**

Product name	EOS-BRI 7-inch high-performance thermal imaging camera system for vehicles		
Thermal camera			
Resolution	256×192	384×288	640×512
Lens	9.1 mm		
FOV	18°×13°	29°×22°	48°×39°
Detection range (human/vehicle)	859 m / 1263 m (distance at which a target can be detected visually)		
Recognition range (human/vehicle)	214 m / 316 m (distance at which people and vehicles can be identified)		
Identification range (human/vehicle)	107 m / 139 m (distance at which types can be identified)		
Human AI detection distance	Up to 100 m		
Vehicle AI detection range	Up to 200 m		
AI animal detection range	Up to 60 m (height >2 m)		
Dimensions	L48×W30×H26 mm		
Weight	65 g		
Window demisting	Supported (-2°C enabled, >7°C disabled)		
Protection rating	IP67 aluminium alloy housing		
Sensor	Uncooled VOx infrared focal plane array		
Spectral range	8–14 μm (12 μm)		
NETD	≤40 mK @25°C F#1.0		
Shutter	Automatic shutter correction		
7-inch host (screen)			
Display	7-inch IPS 1024×600		
System	Linux, 3T FLOPS NPU, accuracy >98%, >50 Hz		
Image modes	Warm White, Warm Black, Iron Red, Rainbow, Lava, Warm Red		
AI functions	Pedestrian, vehicle and animal detection		
Alert	Built-in buzzer		
Other features	Video recording, brightness, volume, sensitivity		
Operating temperature	-30°C to 70°C		
Voltage/Power	DC 9–24 V / <7 W		
Dimensions	L142×W38×H97 mm (excluding bracket)		
Weight	280 g		

