

N-DRIVER P302B CAR THERMAL NIGHT VISION CAMERA

Enhancing Vehicle Safety Across Industries

In various industries, ensuring the safety of personnel and equipment is paramount. Whether it's in mining, construction, transportation, or autonomous driving, challenging conditions like dust, low visibility, and nighttime operations pose significant risks. These hazards can lead to accidents and delays, impacting productivity and safety.



At GoThermal, we understand these challenges. The N-Drive N302B Car Thermal Night Vision Camera is specifically designed to tackle these challenges. The camera's high-quality thermal imaging enhances visibility by cutting through dust, fog, rain, and snow, ensuring that drivers can see clearly in all conditions. This advanced technology not only removes the glare from oncoming vehicles but also highlights pedestrians, vehicles, and obstacles on the road, significantly enhancing the driver's environmental awareness and ensuring driving safety in the most demanding environments.

Key Features



Working Band
8-14um



Lens Focal Length
9.1mm/13.5mm



Field of View
45° x 37° / 32° x 24°



Frame Rate
50FPS



Output Resolution
640 x 512@12um



Market Positioning
Aftermarket auxiliary
driving
cameras/autonomous
driving sensors



BENEFITS

Enhanced Visibility in Dust and Low Light

- The thermal cameras penetrate dust and fog, ensuring drivers can see clearly in all conditions, reducing the risk of accidents.

Safety for Nighttime Operations

- Thermal imaging detects heat signatures of wildlife and obstacles, preventing collisions and safeguarding teams during night operations.

Protection Against Wildlife and Other Hazards

- Early detection of stray animals or unexpected obstacles allows drivers to react in time, enhancing safety.

Improved Productivity and Reduced Downtime

- Minimizing accidents and enhancing operational efficiency contribute to smoother workflows and less downtime.

APPLICATIONS

- **Automotive Pre-Installation and Modifications:** Ideal for upgrading vehicle safety systems.
- **Low-Speed Unmanned Vehicles:** Enhances safety and efficiency in autonomous operations.
- **Public Safety and Emergency Response:** Improves visibility and safety in challenging environments.
- **Mining and Heavy Industry:** Ensures safe operation of haul trucks and buses in dusty and low-visibility conditions.
- **Forestry and Agriculture:** Protects vehicles and personnel in areas with poor visibility and varying terrain.

GOTHERMAL (PTY) LTD

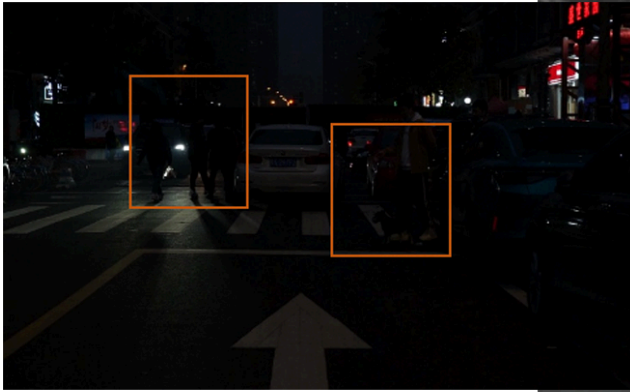
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INFRARED THERMAL IMAGING DISPLAY

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TECHNICAL SPECIFICATION

N-Driver P302B Car Thermal Night Vision Camera



Infrared detectors			
Detector type	Vanadium oxide uncooled infrared focal plane		
Response band	detector 8~14μm		
NETD	≤40mk@25°C, F#1.0		
Detector area array	640×512		
Image display performance			
Focal length	9.1mm		13.5mm
Field of view (FOV)	45°× 37°		32°× 24°
Spatial resolution	1.32mrad		0.89mrad
Action distance	Pedestrian	150m/Vehicle	Pedestrian 200m/Vehicle 300m
Output frame frequency	200m 25HZ		
Video output interface	RCA Lotus head		
Video output format	Analog video CVBS		
Video output resolution	720 × 576 (PAL system)		
	720 × 480 (NTSC system)		
System characteristics			
Rated voltage	DC9~32V (typical 12V)		
Overall power consumption	≤5W @(12V power supply, window heating not activated)		
	≤8W @(12V power supply, window heating activated)		
Imaging start time	≤8.5s (normal temperature)		
Automatic heating function	When the window temperature is lower than 2°C±2°C, the intelligent heating function will start automatically		
	When the window temperature is higher than 7°C±2°C, the heating function will be turned off automatically		
Shutter	Automatic shutter compensation		
Image algorithm	3D noise reduction RAW		
	Image enhancement		
Camera size/weight	36×36×46.5mm / ≤120g		
Control box size/weight	100×80×24mm / ≤500g		
Physical properties			
Camera protection class	IP67		
Control box protection class	IP5k0		
Environmental parameters			
Operating temperature	-40 °C ~+85 °C		
Storage temperature	-40°C~+90°C		