



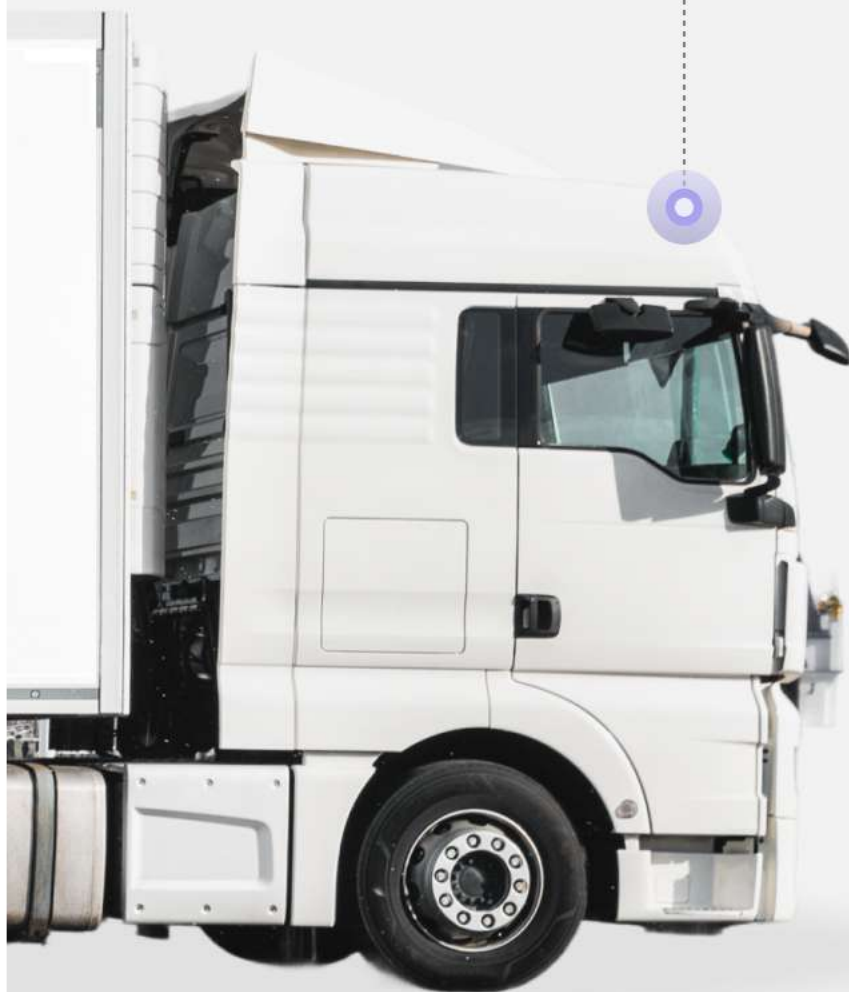
# Novus Safe Pro

Advanced **video safety solutions**, driving towards **zero accidents**

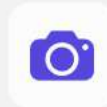
## Overview

The Novus Safe Pro is a 4-camera solution combining internal (DMS + Telematics) and external (ADAS + Surround) views for full fleet visibility. Its Android-based edge processor enables real-time video, event detection, and smart alerts. With cloud connectivity, OTA updates, and API integration, it easily fits into any fleet management system. Ideal for mid to large fleets, it enhances safety, efficiency, and compliance.

### Enhanced Visibility with Dual-View Cabin Optics and External Cameras



**Driver-Facing Camera:** Detects drowsiness, distraction, phone use, smoking, yawning, seatbelt use, and obstruction



**Forward-Facing Camera:** Supports ADAS features like forward collision warning (FCW) and lane departure warning (LDW)



**Side/Rear Cameras:** Provides blind-spot coverage and footage for reversing, turning, and incident review



**Dual Full HD recording** with tamper-resistant design

### Smart, Connected & Ready



Android OS + Built-in Processor



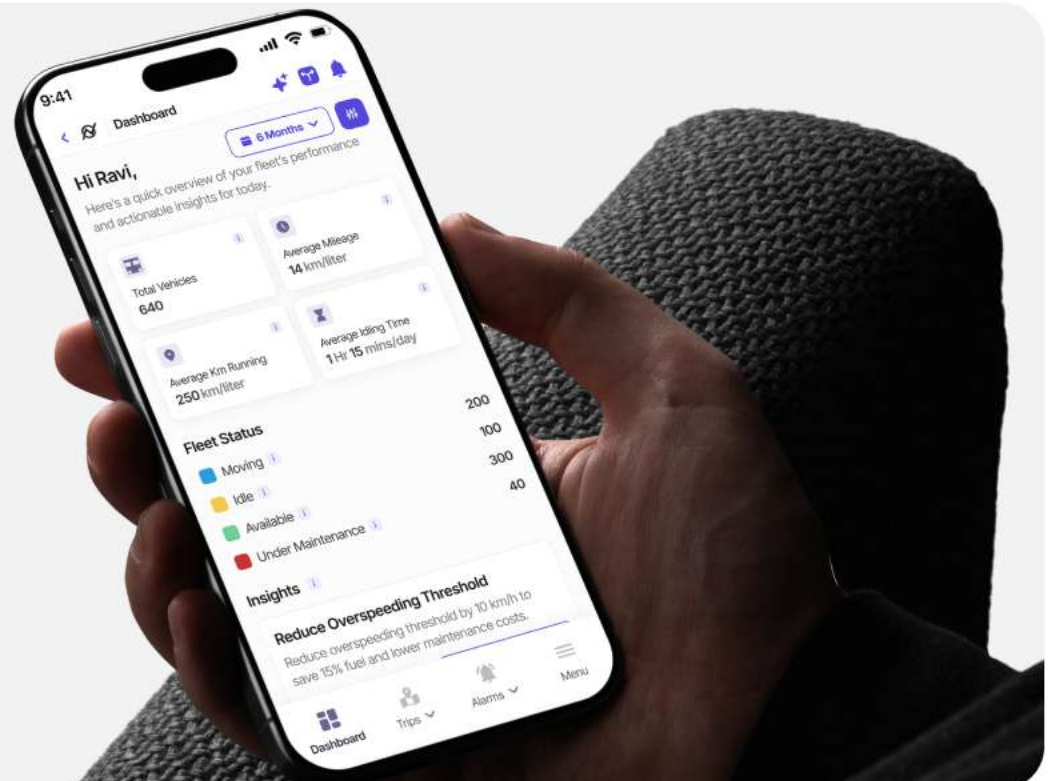
4G LTE + Wi-Fi: Live stream, instant uploads & OTA updates



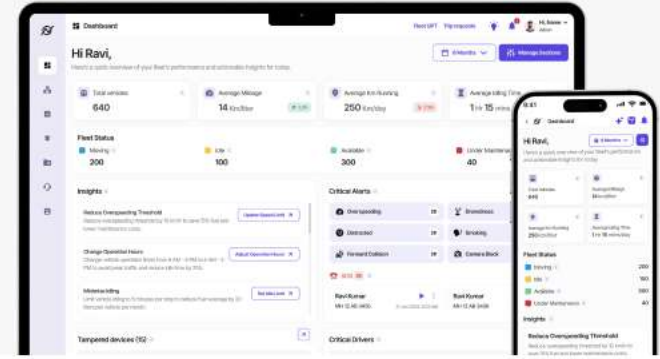
Bluetooth + ECU: Enhanced telematics insights



Remote setup & alert tuning via OmniFleet dashboard



# Transforming Fleet Management with Cutting-Edge Technology



## Driver Coaching

Empower your drivers with personalized AI-driven coaching

- Auto-detects risky behaviors and assigns lessons
- Drivers review incident footage to learn better practices
- Track progress with performance dashboards

Driver Incident Summary



60%



Handling Speeding and Harsh Braking Alerts



## Driver Performance

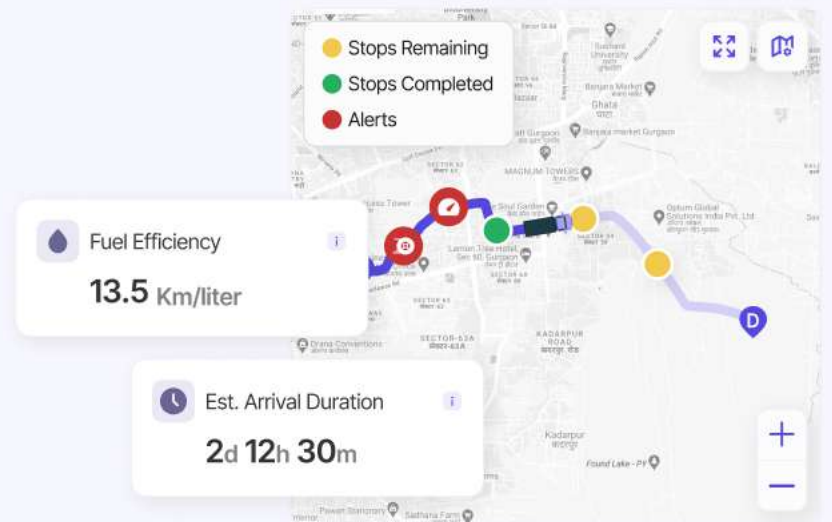
Track and enhance driver behavior for better safety and efficiency

- View driver scores, distance, and fuel usage
- Leaderboards to highlight top performers
- Identify key risk areas like speeding and distractions

## Trip Management

Seamlessly manage and monitor every trip with real-time insights

- View trip status, distance, and alerts
- Real-time vehicle monitoring and driver communication
- Auto-log trips through ignition events or manual scheduling



Date Range:

Device ID:

**Daily Event Report**  
List of all driving events, including brake acceleration, and alerts.

NOVUS OMNIFLEET FUTURE. NOW.

Scheduled Reports

Report Name	Status
Fuel Efficiency Report	Active
Fuel Efficiency Report	Paused
Fuel Efficiency Report	Active
Fuel Efficiency Report	Paused





## Reports

Transform fleet data into clear, actionable insights with tailored reports




- Use predefined report templates for quick analysis
- Customize metrics and automate report schedules
- Receive timely notifications when reports are ready

# Advanced Telematics & Intelligence Suite (USP)




## • Fleet Intelligence

-  **FleetGPT:**  
AI-powered assistant to interpret fleet data and provide real-time recommendations
-  **Driver Performance Analytics:**  
Track driver trends, score behavior, and identify coaching needs
-  **Broadcasting:**  
Deliver live announcements or messages directly to drivers or across the fleet
-  **Driver Coaching:**  
Automated, self-paced training triggered by real-time events

## • Smarter In Cabin Awareness

-  **Cabin Occupancy Detection:**  
Detects unauthorized presence inside the vehicle
-  **Driver Authorization:**  
Allows only registered drivers to operate the vehicle
-  **Privacy Control:**  
Blurs cabin view to ensure privacy without losing behavioral insights

## • Visual Data Access

-  **VOD Streaming:**  
Watch live or playback footage from any trip segment via the cloud
-  **Warning Videos:**  
Risk-based alert videos are automatically uploaded to the cloud for quick access
-  **On-Demand Storage:**  
Full trip recordings are stored locally on SD card and can be pushed to the cloud if needed

**Processing & AI Capability**

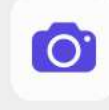


Equipped with **Octa-core processor clocked at 2.2 GHz**, enabling smooth multi-channel operation



Features a dedicated **Neural Processing Unit (NPU) delivering 1 TOPS** (Tera Operations Per Second) of AI performance for real-time event detection and driver behavior analytics

**Camera & Vision System**



The forward-facing camera is designed to prevent reflections on the lens, ensuring uninterrupted image clarity in all lighting conditions



Includes **additional cameras optimized for night driving**, delivering enhanced low-light performance and visibility during late hours

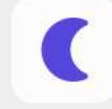


Offers **full coverage camera views**, including additional channels for blind spot, rear, and cabin monitoring



**AI capabilities are extended across all camera channels**, ensuring consistent intelligence throughout the system

**Power Management**



Supports **sleep mode access even after ignition is turned off**, enabling continued monitoring and connectivity for parked vehicle scenarios

**Standards & Compliance**



Fully compliant with **globally approved standards** for video telematics, including **AIS-184, DDAW, CE, CB, and FCC** certifications

**Reliability & Environmental Resilience**























Designed to meet proven **thermal and vibrational standards**, ensuring **long-term reliability** even in harsh operating environments and rugged terrains

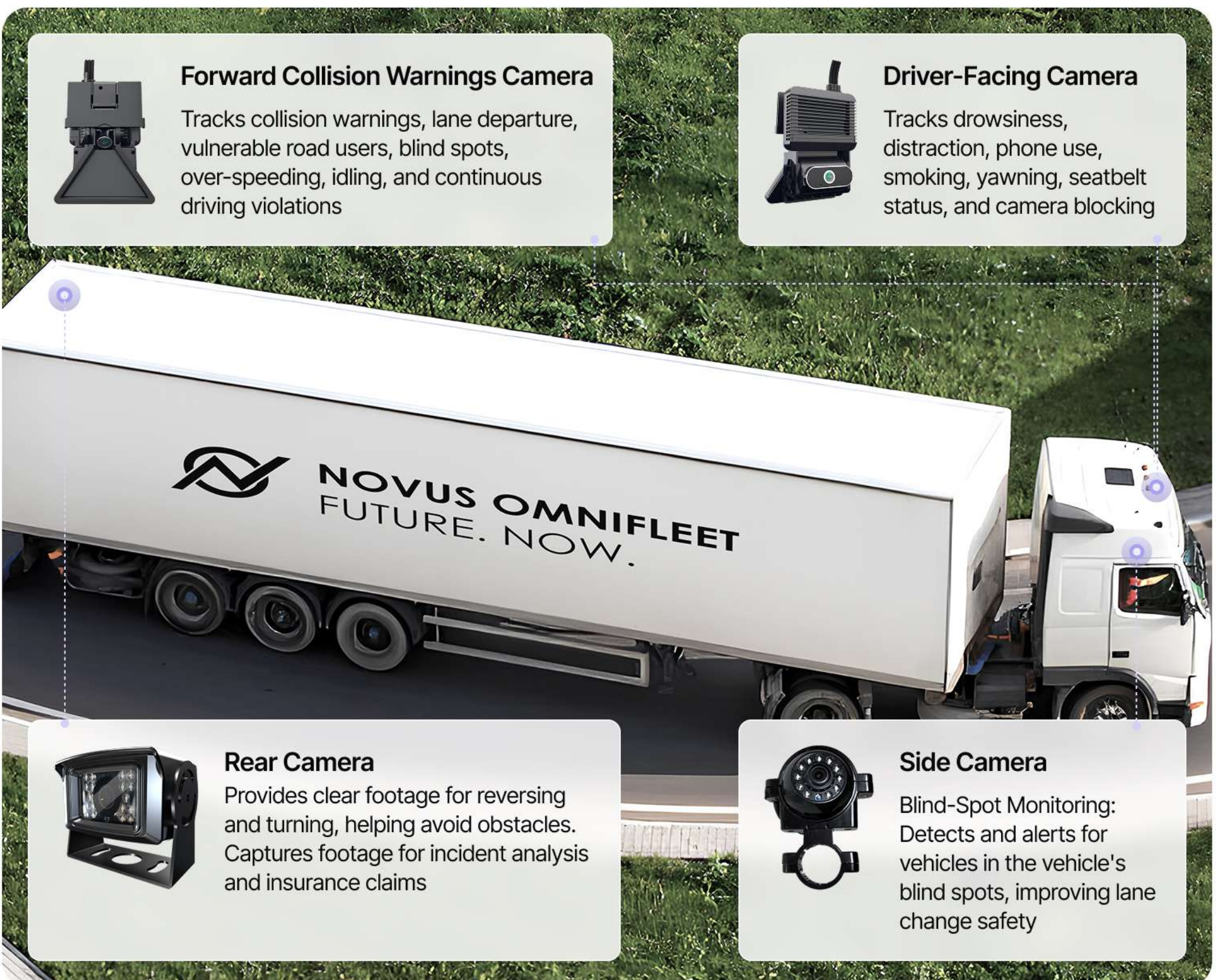
Detailed Hardware and Firmware View

Main Controller Board Quad Core ARM Cortex- A53 MP core™



## Cloud Features List

- |  |  |  |
|--|--|--|
|  Forward collision warning  |  Distraction warning    |  Harsh acceleration alert |
|  Pedestrian collision alert |  Phone use warning      |  Harsh turning alert      |
|  Lane departure warning     |  Smoking warning        |  Harsh braking alert      |
|  Drowsiness warning         |  Yawning warning        |  Vehicle idling alert     |
|  Camera obstruction warning |  Seatbelt warning       |  FOV error detection      |
|  Sudden stoppage          |  Low visibility alert |  Over speeding alert    |
|  Continuous driving alert |  Night driving alert  |  |



### Forward Collision Warnings Camera

Tracks collision warnings, lane departure, vulnerable road users, blind spots, over-speeding, idling, and continuous driving violations



### Driver-Facing Camera

Tracks drowsiness, distraction, phone use, smoking, yawning, seatbelt status, and camera blocking



### Rear Camera

Provides clear footage for reversing and turning, helping avoid obstacles. Captures footage for incident analysis and insurance claims



### Side Camera

Blind-Spot Monitoring: Detects and alerts for vehicles in the vehicle's blind spots, improving lane change safety



## Impact on Road Safety & Driver Behavior



**80%**

Reduction in Harsh Acceleration & Overspeeding



**2,00,000+**

Accidents prevented till date



**30%**

Reduction in hard braking



**2+**

Major accidents averted/month/truck



**50%**

Average near misses



**80%**

Reduction in frontal collisions

## Operational Efficiency & Performance



**8+**

Countries in service



**3-6%**

Increase in fuel efficiency



**1000+**

Man-years of R&D effort



**120K+**

ADAS systems currently in use



**7B+**

Kms of driving data analysed



**600 TB**

Of volume data processed



**100**

Patents granted and 50+ filed

## Technology & Innovation Scale

## Hardware Specifications

### Novus Safe Pro

<b>CPU</b>	<b>Processor:</b> Quad-core ARM® Cortex-A3MPCore™, operating at 2.2Ghz + Quad-core ARM® Cortex-A53MPCore™, operating at 2.2Ghz	<b>Bluetooth</b>	BT4.0
		<b>WIFI</b>	2.4G, 802.11b/g/n
<b>GPU</b>	Mali-G72*3GPU	<b>Speaker</b>	Available
<b>RAM</b>	2GB	<b>MIC</b>	Available
<b>ADAS Camera</b>	MIPI/ 1920*1080/25FPS	<b>Language</b>	English, Hindi, Punjabi, Telugu, Kannada, French, Spanish, Arabic
<b>In Cabin Camera</b>	AHD/1280*720/25FPS/5V	<b>Audio</b>	AAC
<b>SD Card Memory</b>	1*TF card (Max. 512G)	<b>Video</b>	Format: MP4
<b>SIM card</b>	1*Micro SIM	<b>Power Consumption</b>	Standby average power: 5ma Normal working: 200~800mah
<b>G-Sensor</b>	Available	<b>Temperature</b>	<b>Operating temperature:</b> 20°C to 70°C <b>Storage temperature:</b> 30°C to 85°C
<b>Communication Network</b>	2G, 3G, 4G	<b>Humidity</b>	<b>Operating humidity:</b> 95% <b>Storage humidity:</b> 95%
<b>GNSS Antenna</b>	Built-in	<b>Operating Voltage</b>	9-36 V
		<b>ESD protection</b>	<b>Contact:</b> ±7KV   <b>Air:</b> ±14KV
		<b>Reversed connection protection</b>	Protects against positive-negative reversed connection
<b>Network</b>	4G LTE	BAND 1/3/7/8/20/28 BAND 38/39/40	
	WCDMA	BAND 1/8	
	GSM	GSM900/1800MHz	

Appearance

<b>Shell Material</b>	Plastic	PC+ABS+Metal
<b>PCBA Cable harness</b>	Power cable	Power Positive: red
		Power Negative: black
		ACC: orange
		SOS button
	IMS	4pin bmw female port, 5V
	Additional Camera 1	4pin bmw male port, 12V, CH3
	Additional Camera 2	4pin bmw male port, 12V, CH4
	RS232	RX/TX/GND
<b>Interface</b>	SIM card slot	Micro SIM
	SD card slot	
	USB interface	Micro USB 2.0
<b>Button</b>	Power	Power on/off
	Volume +	
	Volume -	
<b>One LED (4 colors)</b>	Green solid on	Working Normally
	Red flashing	1. The system is starting or 2. Failed to power on
	Red solid on	Device error in below circumstance: 1. Wrong IMEI no. 2. Wrong camera number or no AHD connected 3. SD card error 4. SIM card error
	Blue flashing	Under calibration mode, WIFI hotspot is on and waiting for connection
	Blue solid on	Under calibration mode, WIFI is connected
	Yellow flashing	SIM card detected but failed to connect to network

# 100+

## Customers







 **NOVUS OMNIFLEET**  
FUTURE. NOW.

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