



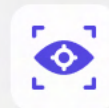
Novus Safe Pro

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

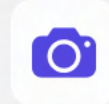
Overview

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



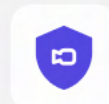
Driver-Facing Camera: Detects drowsiness, distraction, phone use, smoking, yawning, seatbelt use, and obstruction.



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

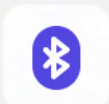
Smart, Connected & Ready



Android OS + Built-in Processor



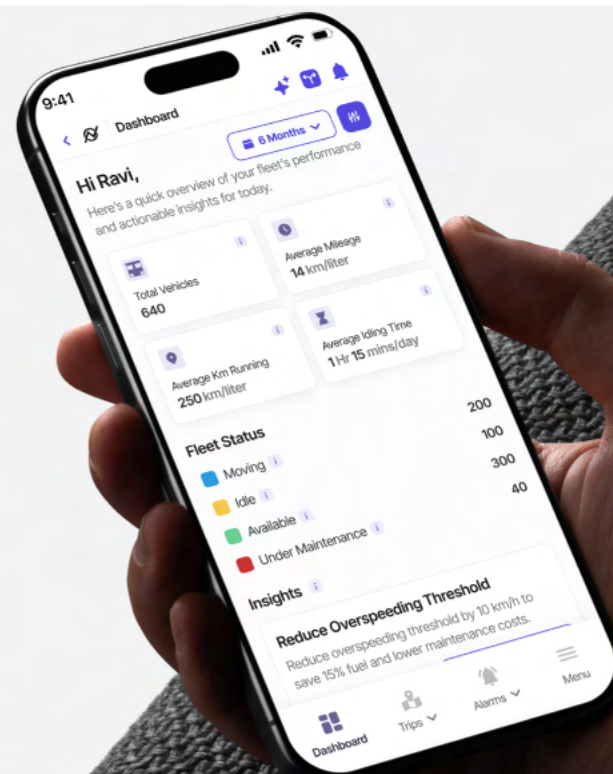
4G LTE + Wi-Fi: Live stream, instant uploads & OTA updates



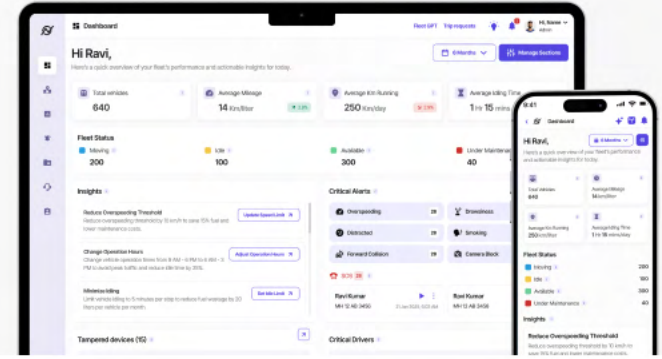
Bluetooth + ECU: Enhanced telematics insights



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



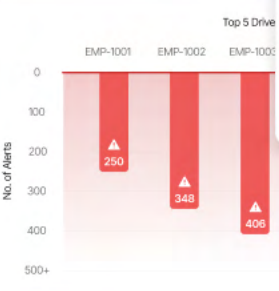
60 %



Handling Speeding and Harsh Braking Alerts

Trips per month
4

Top 5 Performing Drivers



Monthly driven KMs
2200 Kms
2.9%



Driver Performance

Track and enhance driver behavior for better safety and efficiency.

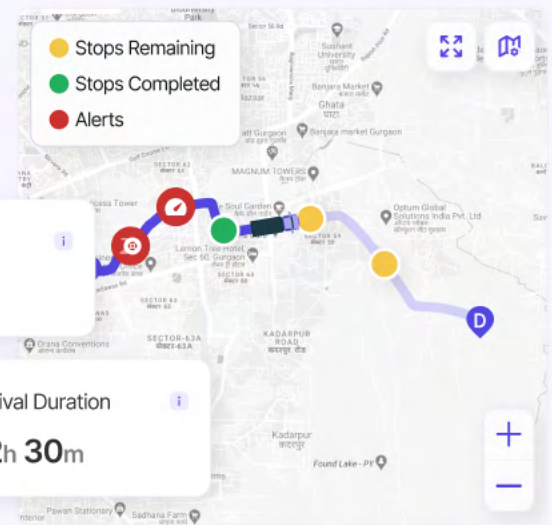
- View driver scores, distance, and fuel usage.
- Leaderboards to highlight top performers.
- Identify key risk areas like speeding and distractions.



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.

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

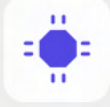
• Smarter In Cabin Awareness

-  **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
-  **Darning 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 core processor clocked at 2.2 GHz**, enabling smooth multi-channel operation



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

Reliability & Environmental Resilience

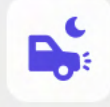


Designed to meet proven **thermal and vibrational standards**, ensuring **long-term reliability** even in harsh operating environments and rugged terrains



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

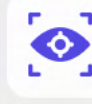
Camera & Vision System



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



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



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

Power Management



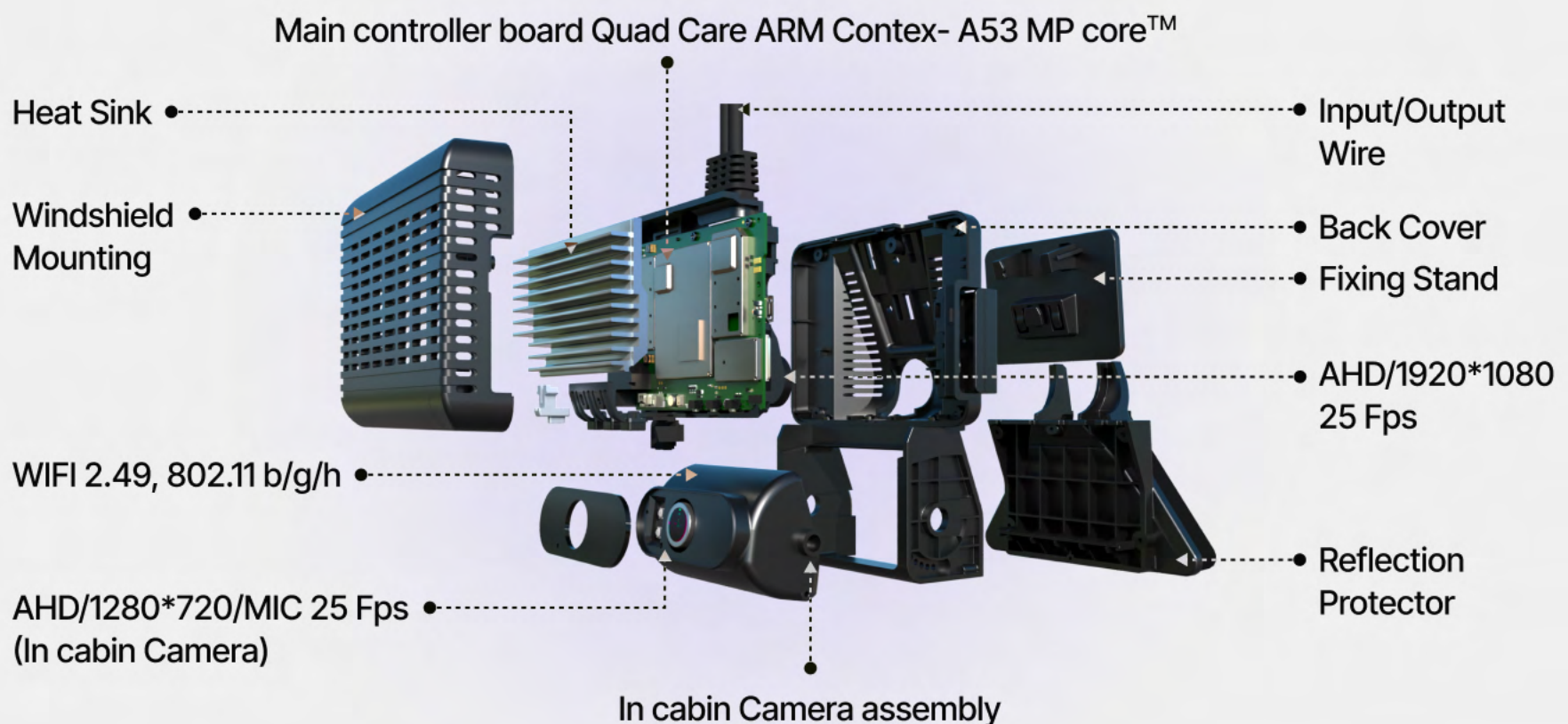
Supports **sleep mode access even after ignition is turned off**, enabling continued monitoring and connectivity for parked vehicle scenarios

Standards & Compliance



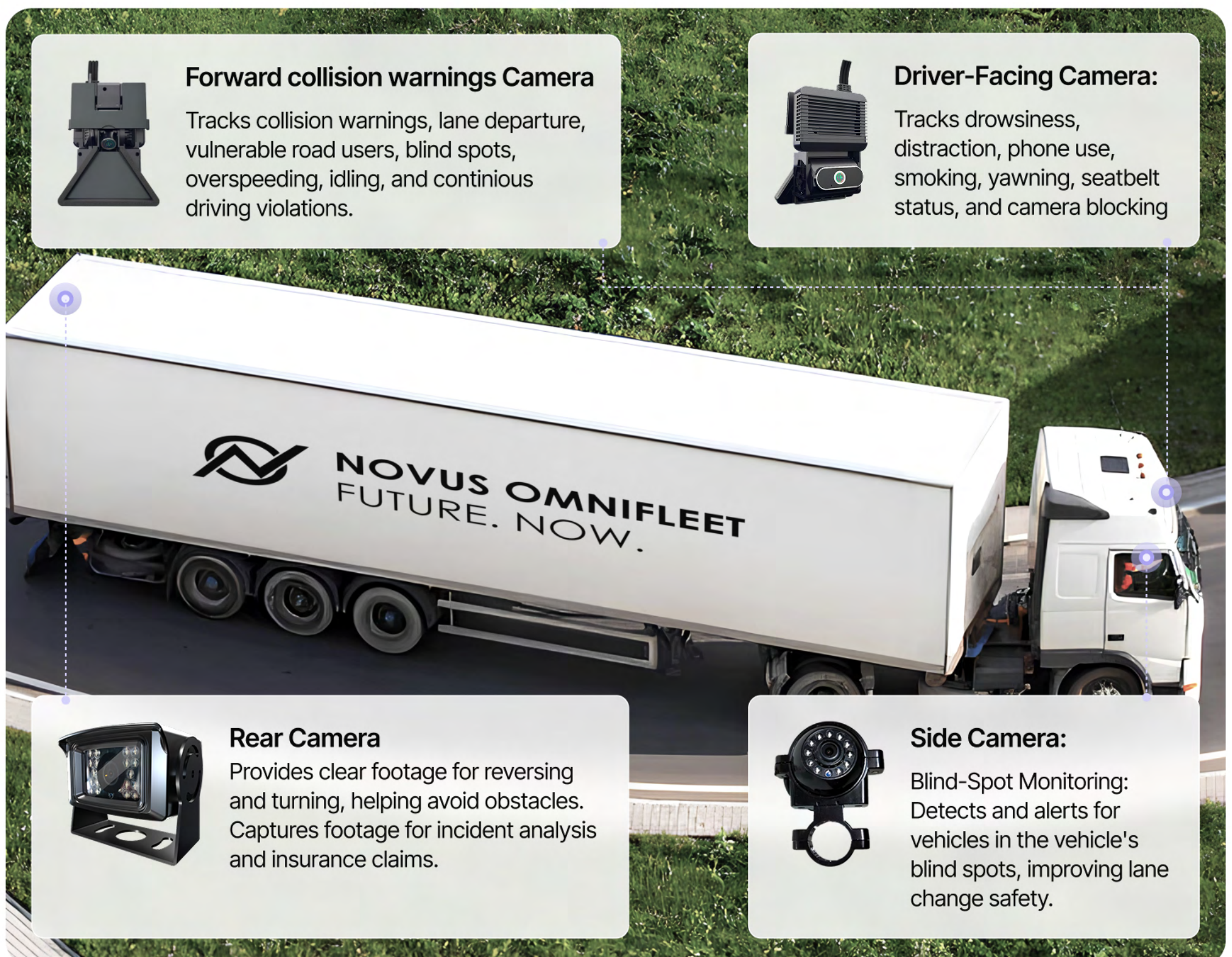
Fully **compliant with globally approved standards** for video telematics, including **AIS-184, VDAW, CE, CB, and FCC** certifications

Detailed Hardware and Firmware View



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 turning alert
 Drowsiness warning	 Yawning warning	 Vehicle idling alert
 Camera obstruction warning	 Seatbelt warning	 FOV error detection
 Sudden stoppage	 Low visibility alert	 Over speeding alert
 Continues driving alert	 Night driving alert	





Forward collision warnings Camera

Tracks collision warnings, lane departure, vulnerable road users, blind spots, overspeeding, 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.



High impact on the road

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



8-6%

Reduction in Harsh Acceleration & Overspeeding



1000+

Man-years of R&D effort



120K+

ADAS systems currently in use



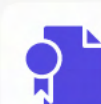
7B+

Kms of driving data analysed



600 TB

Of volume data processed



60+

Patents granted and 40+ filed

Technology & Innovation Scale

Hardware Specifications

Novus Safe Pro 360

Network	4G LTE	GNSS Antenna	Built-in
	WCDMA	Bluetooth	BT4.0
	GSM	WIFI	2.4G, 802.11b/g/n
CPU	Quad-core ARM® Cortex-A53MPCore™ Quad core ARM Corex – A73	Speaker	Available
		MIC	Available
		Language	English
GPU	Available	Audio	AAC
RAM	2GB	Video	Format: MP4
ADAS Camera	1920×1080 / 25FPS	Power Consumption	Standby average power: 5ma Normal working: 200~800mah
DMS In Cabin Camera	1280×720 / 25FPS		Operating temperature –20°C to 70°C
SD Card Memory	1*TF card (Max. 512G)	Temperature	Storage temperature –30°C to 85°C
SIM card	1*Micro SIM	Humidity	Storage humidity 95% Operating humidity
G-Sensor	Available	Power	Operating voltage 24 Volts
Communication Network	2G, 3G, 4G		Reversed connection protection

Firmware Specifications

Network

Version 1	4G LTE	BAND 1/3/5/7/8/20 BAND 38/39/40/41(100Mhz)
	WCDMA	BAND 1/8
	GSM	GSM900/1800MHz
Version 2	4G LTE	BAND2/4/5/7/28 BAND 38/39/40/41(100Mhz)
	WCDMA	BAND 2/5
	GSM	GSM 850/1900MHz

Appearance

Shell Material	Plastic	PC+ABS+Metal
		Power Positive: red Power Negative: black
		ACC: orange
Cable harness	Power cable	RS232 TX: (pending) RS232 RX: (pending) GND: (pending)
	DMS	SOS button
	IMS	DMS camera
	Rear Camera	Cabin View Camera
	IMS	Rear View Camera
Interface	SIM card slot	Micro SIM
	SD card slot	SOS button
	USB interface	DMS camera
Button	Power	Power on/off
	Volume +	
	Volume -	
One LED (4 colors)	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
	Red flashing	SIM card detected but failed to connect to network

Software

Operating System	4G LTE	
Language	English	
Audio	AAC	
Video	AAC	Codec: H.264
Power Consumption	Normal working: 200~800mah	ACC ON
	Standby average power: 5ma	ACC OFF



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