

Rhonda Software

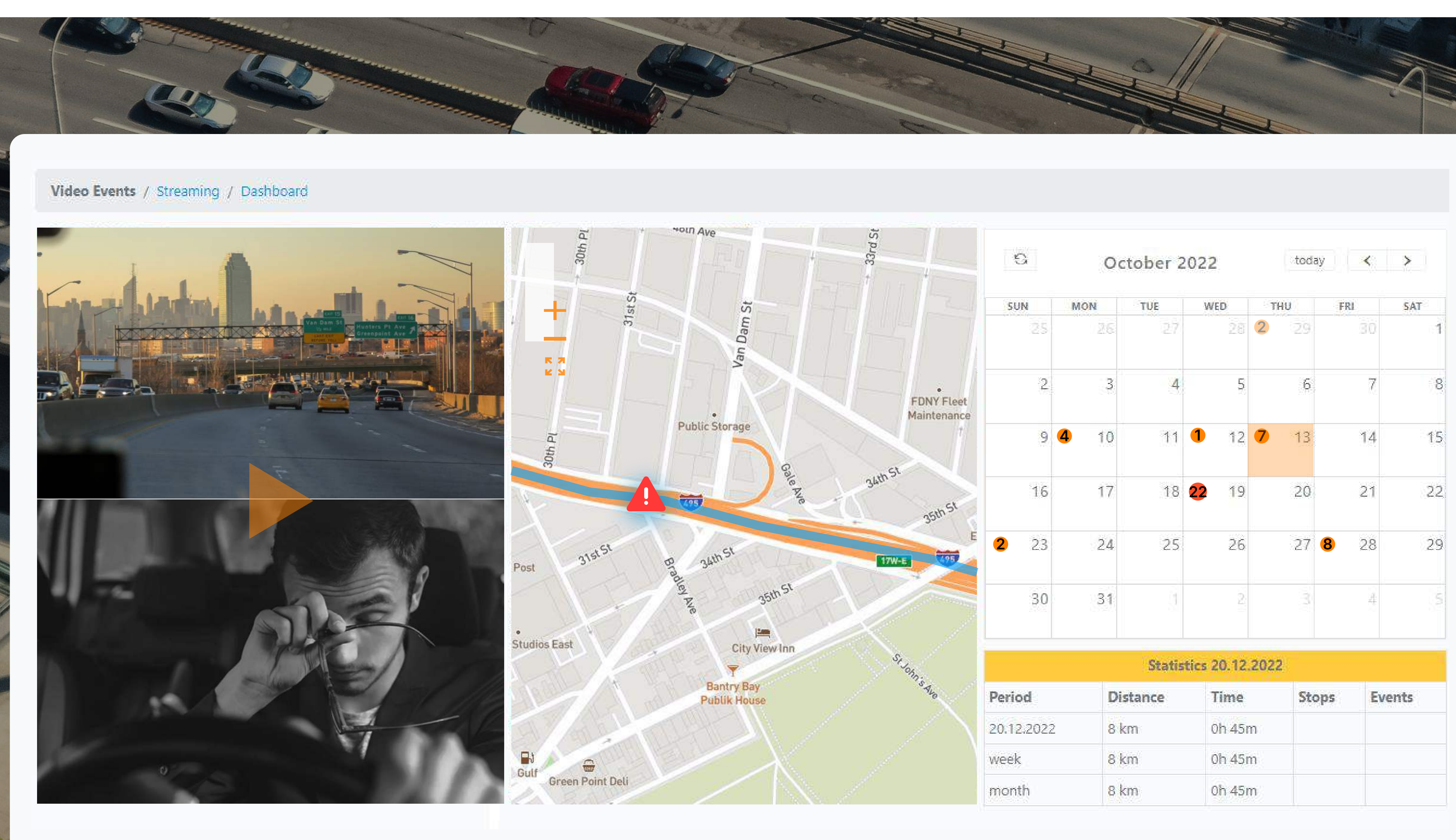
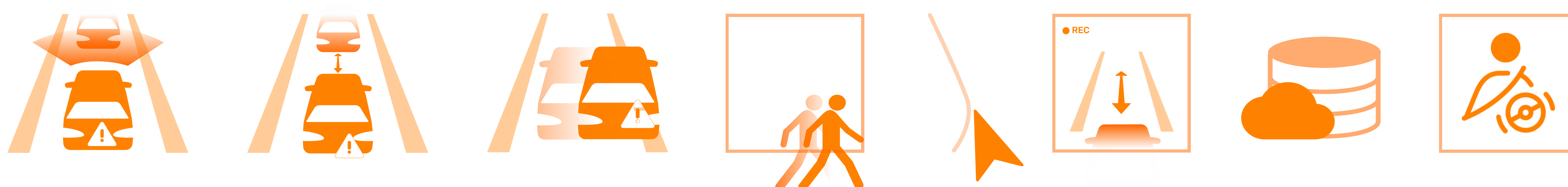
Fleet Safety Camera Platform



The automotive camera platform for specific needs of Fleet management and Video Telematics Service Providers powered by **Ambarella CVflow®** Edge AI Vision SoC, Wide FOV lens and 940nm infrared LED for in-cabin view, **CV-based event recording**, audio and led notifications to driver, push notifications to fleet operator. Advanced camera system with Cloud connectivity for driver assistance and monitoring. The off-the shelf solution can be adapted for specific use cases and unique functionalities by customer request.

ADAS / DMS features

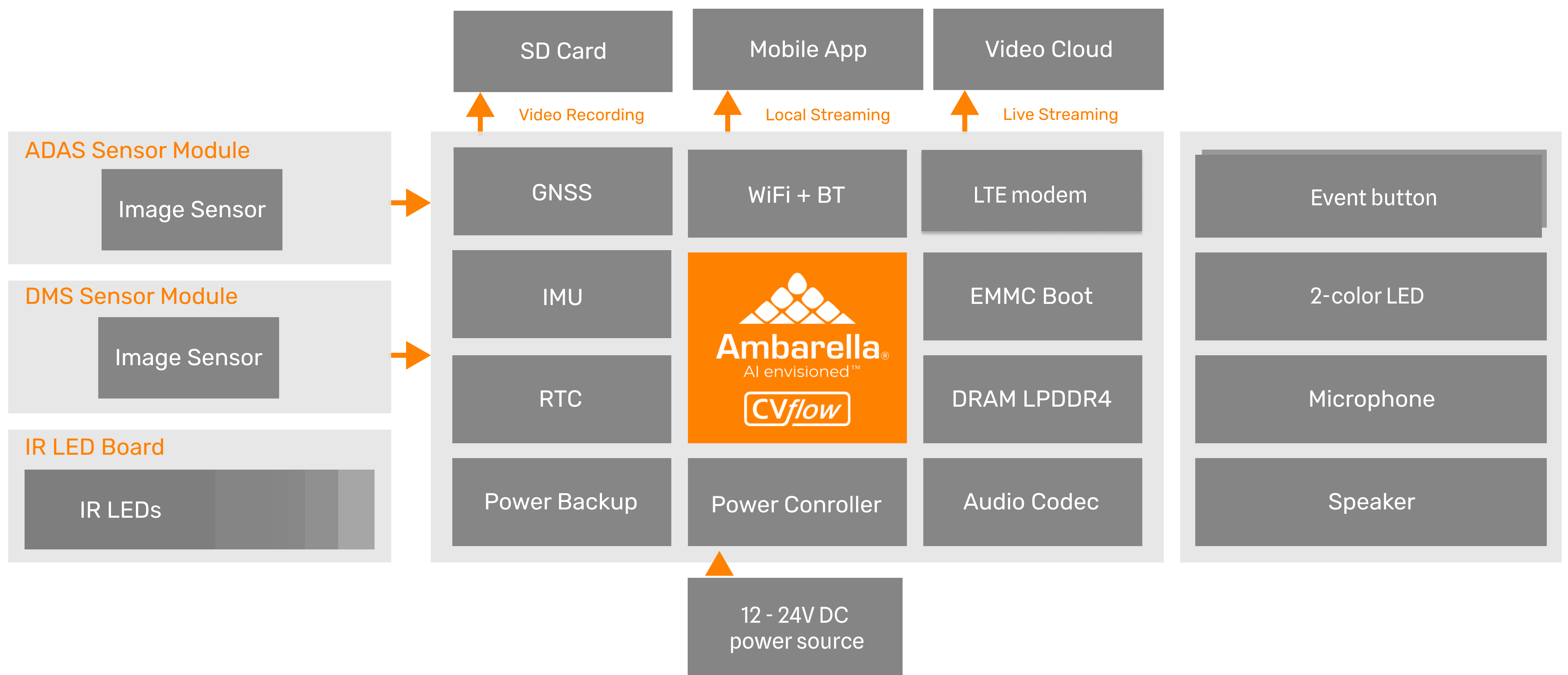
- Forward Collision Warning
- Headway monitoring (Tailgating warning)
- Lane Departure Warning
- Pedestrian and cyclist detection
- Road objects detection and transport classification
- Driver distraction and drowsiness detection
- Detect driver Phoning / Smoking / Eating / Drinking
- LED, voice and audio driver warnings and notifications



Cloud connectivity

- Live streaming
- Event data upload
- Location and speed tracking
- Push notifications
- Camera remote control

Platform high-level architecture



General Specifications

Camera Hardware

- Ambarella SoC
- 2 Image sensors for ADAS & DMS
- Front camera FOV 120H, 70V
- In-cabin camera FOV 160H, 80V, IR led 940 nm x 2
- Speakers, MIC, GPS, G-sensor, Panic button
- Wi-Fi 2.4GHz for local video preview
- 4G LTE for Cloud connection

Video Capturing

- Front: 1920p@30 fps (road sensor)
- In-cabin: 1920p@30 (in-cabin sensor)
- Cyclic video recording
- Event video (before&after) upload to Cloud
- H.264, fixed bitrate, video integrity
- Audio: AAC, 48 KHz, 64 kbps, Mono
- AE, AWB, Day / Night mode auto-switch
- Optional support for Parking security mode

Cloud and Mobile App

- Celesta - Rhonda Video Cloud:
 - video streaming
 - events storage
 - remote camera control
- Mobile App for Cloud recordings access and local Video streaming via WiFi

Operating conditions

- Working temperature -30° to +70°
- Storage Temperature -40° to +85°
- Humidity up to 80%

Power

- Cigarette lighter socket 12V / 24V
- Car ignition line (ACC) 12V / 24V
- Average power consumption in driving mode: 4W
- Car battery discharge protection
- Super capacitor power for correct recording completion

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