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 180-degree FOV, Infrared LED Light 940nm 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

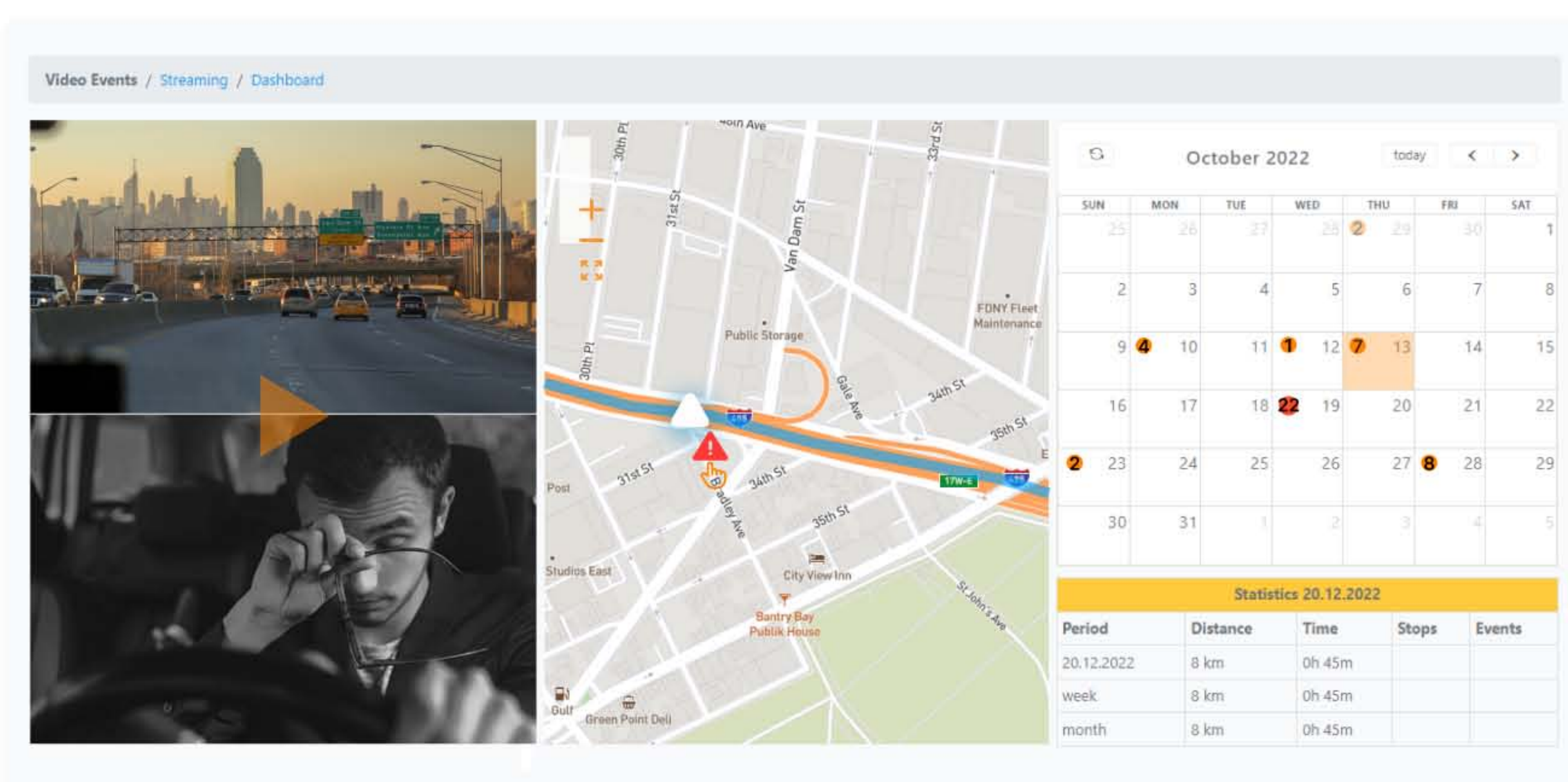Lane Departure Warning

Pedestrian and cyclist detection

Road objects detection and transport classification

Driver distraction and drowsiness detection
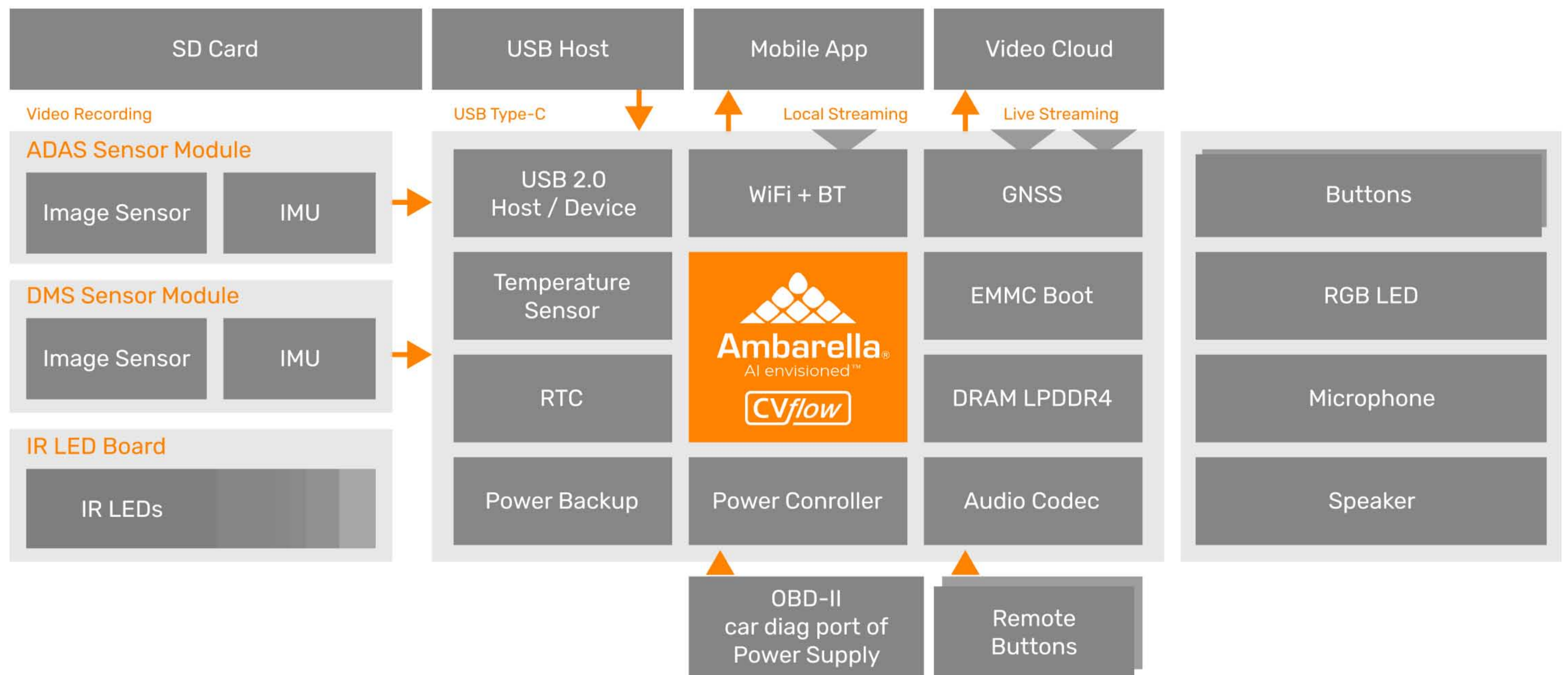
LED, voice and audio driver warnings and notifications

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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 180H, 100V, IR led 940 nm x 2
- Speakers, MIC, LTE, GPS. nano-SIM card, G-sensor, Panic button
- Wi-Fi 2.4Ghz
- Interfaces: micro-USB
- Cloud connectivity

Storage

- eMMC
- Micro SD card (SD/SDHC/SDXC) up to 256GB, Class 10/U1

Video Capturing

- Front: 1920p@30 fps (road sensor)
- In-cabin: 1920p@30 (in-cabin sensor)
- Cyclic video recording, event video recording
- H.264, fixed bitrate, video integrity
- Audio: AAC, 48 KHz, 64 kbps, Mono
- AE, AWB, EIS on/off for road sensor

Platform CV

- ADAS
- DMS

Cloud and Mobile App

- Celesta - Rhonda Video Cloud:
  - video streaming
  - events storage
  - remote camera control
- Mobile App for Cloud viewing
- Mobile App for Video streaming via WiFi

Operating conditions

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

Power

- Power source external 12V/24V
- Car ignition line (ACC) 12V via OBD-II
- Typical power consumption in driving mode: 6W

www.rhondasoftware.com

salesteam@rhondasoftware.com

www.linkedin.com/company/rhonda-software