Univerus Duet™ AI

Monitor Drivers & Prevent Accidents with AI Capability

UNIVERUS

Watch For Distracted Driving.
Exonerate your drivers with real evidence.

AI Powered Driver Camera

Detects, records, and alerts driver to fatigue/ drowsiness, distracted driving, hand use (phone/ cigarette), harsh accelerations,

Real-Time Capabilities

Uses real-time alerts, and driver-scoring capabilities to support training, boost productivity, coaching, and safe-driving initiatives

Multi-Level Privacy Option

Driver camera video privacy options include disabling live video streaming or media capture, without missing any relevant event

Facial Recognition Software

Automatically identifies drivers and tags them to their routes and vehicles

Roadway Camera

Captures road view when activated by driver alerts for critical context, providing deeper event

Cloud Storage

Event video and metadata auto-upload to the cloud in real-time and can be used to exonerate drivers

Driver Event Button

Creates an on-demand event recording for emergency or unexpected driving situations

Location and Video Streaming

Track live location from active devices and optionally stream video from front and rear cameras

Univerus Duet™ AI

AI Powered, Event Video Recorder

The Duet™ AI is a Driver Behavior Monitoring System comprised of dual-dash cameras and a Cloud portal. The inward facing camera is AI powered to automatically detect and trigger recordings based on qualified driver actions (events) while the outward facing camera captures general activity on the road ahead. Detectable events trigger an audible alert and include fatigue/drowsiness, distracted driving, STOP sign and red-light violations,hand use (phone/cigarette), and harsh acceleration, cornering or braking.

Event video from both cameras is automatically transferred to the cloud for immediate notification and review by back-office personnel. Additional cloud capabilities include real-time video streaming, driver identity detection, current and historic vehicle location with route maps, as well as reports on fleet safety and drivers coaching.

Specifications	
Platform	Qualcomm® Snapdragon™ SDM450 Octa core, 1.8GHz
OS	Android™ 9.0
Memory	2GB RAM / 16GB internal storage
Expansion	MicroSD slot (up to 256GB support)
Wireless Interface	IEEE 802.11 a/b/g/n/ac (2.4GHz & 5GHz), Bluetooth® 4.2 BLE LTE Cat.6 (3G/2G fallback, carrier dependent) GPS, QZSS, GLONASS, Galileo
Sensors	3-axis Accelerometer, 3-axis Gyro, Thermal Sensor
Outward camera	3.15mm FOV: D: 142° / H: 116°/ V: 60° (±5%) Full HD 1920 x 1080 @ 30fps
Inward camera	3.0mm FOV: D: 142° / H: 116°/ V: 60° (±5%) Full HD 1920 x 1080 @ 30fps
Physical Interface	MicroSD slot (up to 256GB capacity), NanoSIM slot (SIM 1), Mini USB x1 (for service), Built-in speaker x1
Power Input	12VDC Min to 32VDC Max Main Power Input Ignition (ACC) signal input (Active High @ 7VDC to 32V)
Driver Event Button	Yes
Power Consumption	Full run mode: 5W (12V/420mA), Parking mode: 50mW (12V/4.2mA)
Boot Up Time	Cold boot: 45s; Resume from parking mode and start recording: 2s
Parking Mode	Yes, when ignition (ACC) signal not present
Operating Temperature	-20° to +60°C (-4° to +140°F) operating temperature
Storage Temperature	-30° to +85°C (-22° to +185°F)
Certification	CE/CB, FCC/IC, RCM, BQB, ROHS, WEEE
Weight	158g (5.6oz)
Triggers	Event Button, Speed, Acceleration, Detectable Driver Actions
Dimensions	122.8 x 61.2 x 44.2mm (4.83 x 2.41 x 1.74")
GSM	850/900/1800/1900MHz

The Univerus Duet AI™ system is a driver assistance tool, not a replacement for safe driving. Each driver is responsible for complying with applicable laws, maintaining control of their vehicle, and taking appropriate action during vehicle operation. The Univerus Duet AI™ system cannot compensate for driver distraction, fatigue, or impairment. Each customer is responsible for compliance with the applicable laws and regulations governing use of dashboard camera systems, including the Univerus Duet AI™ system.

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