



CM31 Dash Camera

Internet-Connected Front-Facing
HD Camera Module



OVERVIEW

The CM31 is a high-definition, Internet-connected dash camera designed to prevent accidents, exonerate drivers, and lower fleet costs. The wide-angle camera captures outward-facing video and automatically uploads and analyzes footage of accidents, harsh driving, and other events of interest. Samsara's intuitive cloud-based software provides reporting tools that enable fleet operators to implement safety coaching programs, prevent accidents, and lower costs.

HIGHLIGHTS

- HD front-facing camera with HDR for night recording
- Automatic uploads of incident footage, plus on-demand video retrieval
- Edge processing to enable real-time event and object detection
- Built-in audio speaker for hands-free, voice-based coaching
- Cloud-based dashboard with reports and trend analysis
- Easy to install, no hard-wiring into vehicle required
- Part of Samsara's complete Connected Operations platform

SOFTWARE FEATURES

- HD video playback from any Internet-connected device
- Safety incident reports
- Driver safety rankings with scorecards
- On-demand retrieval (over the air) based on time or location
- Configurable audio coaching plays spoken alerts during unsafe driving behavior (e.g. excessive speeding, unbuckled seatbelts, etc.)

Technical Specifications

FRONT-FACING CAMERA

FIELD OF VIEW	121° (semi-wide angle) front-facing camera
RESOLUTION	High definition (1080p)
FRAME RATE	30 fps
LOW LIGHT	HDR to optimize for bright and low-light conditions

AUDIO SPEAKER

BUILT-IN SPEAKER	Inward-facing audio speaker for optional voice and tone-based feedback
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STORAGE, CONNECTIVITY, AND COMPUTE

STORAGE	19 hours of 1080p footage (can be extended by configuring video quality)
CONNECTIVITY	High-speed 4G LTE wireless connectivity via Samsara VG-series gateways. Data secured via SSL (256-bit, military-grade encryption)
EDGE PROCESSING	High capacity edge processor to enable concurrent neural networks for real-time artificial intelligence
AUTOMATIC UPLOAD	Automatically uploads video footage of harsh braking, acceleration, turning, and crashes
ON-DEMAND UPLOAD	Stores continuous recordings on-camera, available for over-the-air retrieval on demand

MOUNTING, ENCLOSURE, AND POWER

DIMENSIONS	Enclosure: 108 x 41 x 61 mm (4.2 x 1.6 x 2.4 in) Cable: 4m (13 ft)
MOUNTING	Mounts to windshield via industrial-grade adhesive tape (included)
POWER	Connects to Samsara VG-series gateway via accessory port (power + data). No additional power source or wiring required
BATTERY	Internal 1300mAh battery for fallback power when vehicle is off
OPERATING TEMPERATURE	-20 to 65° C