Safe Drive®
SYSTEMS

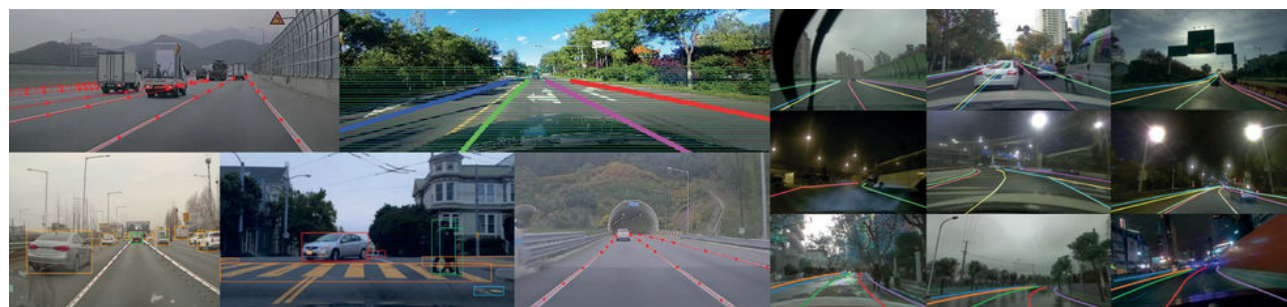# InSIGHT 80
DASH CAM & CLOUD SERVICE

InSIGHT 80

Driving Safety Redefined: InSIGHT 80 - The Ultimate HD Dashcam for Accident Prevention and Driver Risk Management

InSIGHT 80 is a high-definition, internet-connected camera contrived to prevent accidents and manage operational costs. This road-facing camera provides real-time insights and automatically stores data in the cloud. Stored footage can be utilized to determine accident faults, driver assessments, and risk management analyses. Permissions settings give administrative users the ability to access and download all stored footage, to improve driver coaching abilities and safety management practices. The SDS InSIGHT 80 will play a vital role in improving driver behavior and safety practices, as well as decreasing operational costs.

Highlights

- HD recordings from road-facing camera (driver-facing option available)
- Stores incident footage, selected videos, still cut images automatically
- Active edge process for real-time event and object detection
- In-cab audio alerts with voice-based coaching service (optional)
- Cloud-based dashboard providing trend analysis and reporting services
- Easy to install (wiring work required on some vehicles)
- Access to the SDS FMS platform

Software Features

- Video play-back in HD resolution on any Internet-connected device
- Camera could be connected with other systems via API
- Incident reporting for safety
- On-demand storage and retrieval based on time or location
- Configurable in-cab driver coaching makes alerts in audio during risky driving behavior (e.g. stop sign, red light, violation, etc.)

Technical Specifications

FRONT-FACING CAMERA

Field of View	112°
Resolution	1280 x 720 (1 M pixel HD)
Frame Rate	25fps
Image Sensor	SonyHDR

STORAGE, CONNECTIVITY, ANDCOMPUTE

Item	Description
Storage 1	40 hours of 1080 footage (can be extended by configuring video quality or USB memory change)
Storage 2	Video is maintained in the cloud for 45 days
Connectivity	High-speed 4G LTE wireless connectivity via LTE modem
Automatic Upload	Automatically uploads video footage of stop signs, red lights, and harsh events. etc.
On-Demand Upload	Manual recording son-camera, available to upload in the cloud
Edge Processing	High-capacity edge processor

MOUNTING, ENCLOSURE, AND POWER

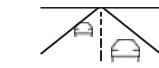| Item	Description
Dimensions	Enclosure: 3.1 x 4.7 x 2.1 " / Cable: 9f
Mounting	Mounts to windshield via adhesive tape (included)
Battery	Super cap for graceful shutdown
Operating Voltage	9V ~ 32V (12V, 24V)
Operating Temp	- 4 - 158º f

Encourage a Safer Environment on the Roads

Outer Cam

Our system is your solution to improving driver behavior and accountability - both inside and outside of the vehicles. Helping you protect your people, your assets, and your bottom-line

Lane Detection   Object Detection   Perceiving Vanishing Point

ADAS features

- **LDW:** Lane Departure Warning
- **VCW:** Vehicle Collision Warning
- **PCW:** Pedestrian Collision Warning
- **SDA:** Safety Distance Alert
- **DDW:** Driver Drowsiness/Distraction Warning
- **DAW:** Driver Action Warning for Phone Use/Smoking
- **VB:** Virtual Bumper
- **FCDA:** Front Car Departure Alert

Web

24/7 Portal Access - so administrators can improve fleet operations with constant insight into vehicle data (accelerator, braking, speed, etc,.) and driver data from both the camera and ELD systems.
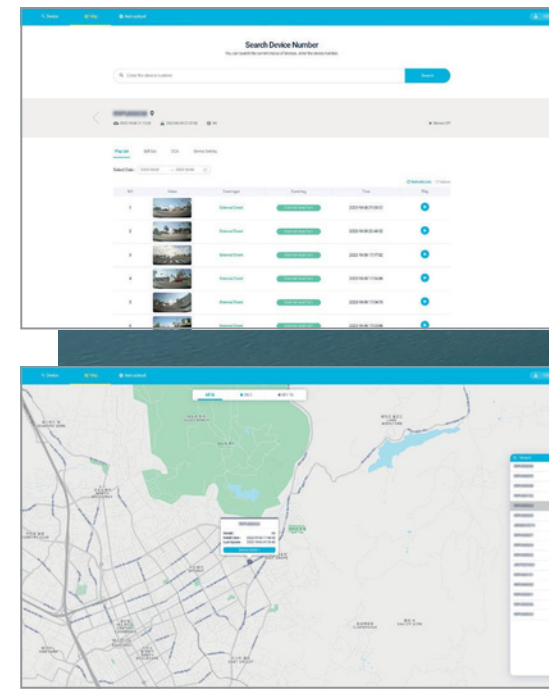
FLEET EFFICIENCY

Improve operational efficiency using real-time location data by optimizing routing, enhancing managerial insights, and improving customer satisfaction.

DRIVER SAFETY

The InSIGHT 80 detects harsh driving events and translates the data into driver behavior scorecards for simplified safety management. Additionally, the InSIGHT 80 helps drivers avoid hazardous road sections by providing visualized heat maps based on the driver's individual tendencies.
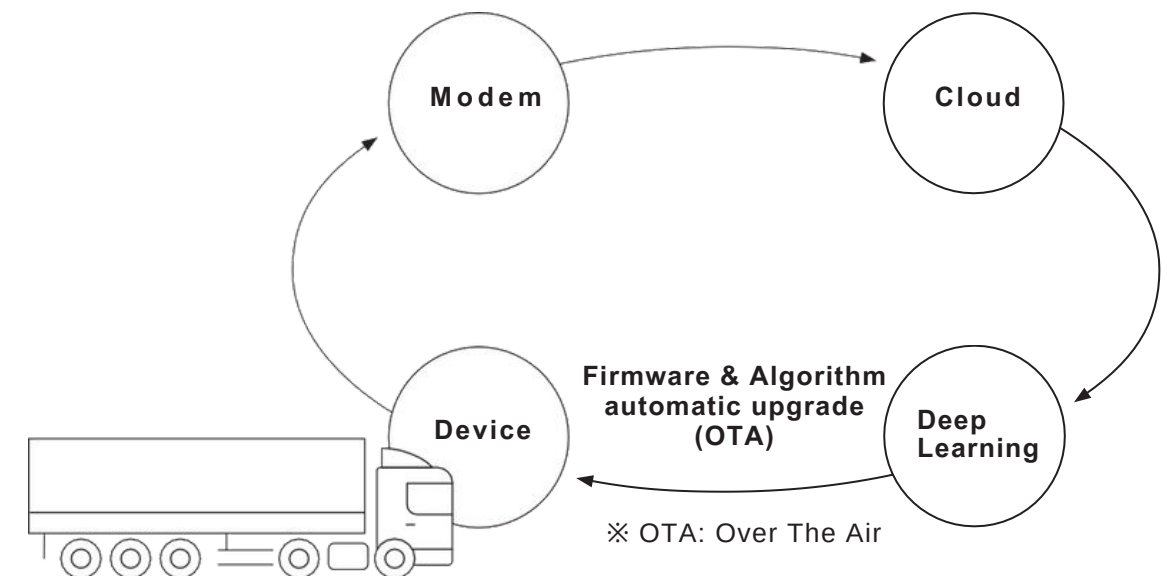
SUSTAINABILITY

The easy-to-use fleet management dashboard uses real-time data to provide insights into vehicles fuel efficiency, fuel consumption/savings from engine idle. Helping you improve your fleets' fuel economy.

Cloud Training

Our camera collects road conditions, traffic signal data, and other information related to safe driving, and this again is offered as a self-learning system.

Modem → **Cloud**

Firmware & Algorithm automatic upgrade (OTA)

Device — **Deep Learning**

※ OTA: Over The Air

1 The device itself determines which data to store in the cloud.

2 Stored data are analyzed and learned on the cloud server and create firmware for devices is based on each result. All processes are automated.

3 An improved version of the firmware with driver-wise risk analysis is delivered to each device by OTA.