

Driver.i D-210

Technical Specifications



Overview

Driver.i is an AI powered vision based IoT system, sold as a product to fleets. The device is installed in trucks/cars behind the rear-view mirror. The power is supplied from the car battery through a custom power cable. The device is capable to connect with the OBD II/J1939 of the vehicle to collect the vehicle data.

When the vehicle is being driven, the road facing camera is enabled by default. The camera records and generates real time safety alerts to assist the driver. The camera facing the driver/passenger is optional due to privacy requirements and enabled at customers' request.

The recorded videos are processed (using our patented machine learning algorithms) on the device together with the other sensor data and can detect any events related to driving behavior and driver behavior.

When an event is detected, an alert together with the supporting processed data is uploaded to the cloud dashboard where the events and related data can be accessed by the fleet manager. The device has 1 button on the bottom side of the device, when pressed creates alerts which are user generated. 2

LEDs on driver facing side indicate the current operational state of device & also indicate privacy setting (driver facing camera recording stat).

Physical Dimensions

Length x Width x Height	127mm x 96.2mm x 45.4mm / 5 x 3.78 x 1.78 in
Color	Black
Case Material	Polycarbonate (PC)
Power Cable Length	3 meters
Power Cable Thickness	4.35mm / 0.17 in
Weight	D-210: 610 grams, GPS/Wireless Module: 284 grams
ISO 16750-3, IEC 60068-2-64 Compliant	

Features

- **Tested Operating Temperature: -4° F to 131° F / -20°C to 55°C**
- **Octacore CPU+ GPU / DSP for Edge computing.**
- **Auto-grade sensor with 120dB of HDR performance and Full HD imaging**
- **Full HD Inward /driver facing camera with IR LED for night vision.**
- **Connectivity – LTE/ WiFi / BT.**
- **2 LED indicators to represent device state.**
- **Integrated Microphone and Speaker for Alerts.**
- **2GB RAM + 64GB/128GB/256GB Internal Storage**
- **Inertial sensors (Accelerometer and Gyro), Thermal sensor**
- **Location Services: Galileo, Glonass, GPS**



Power Adaptor

GPS Cellular Module

RAM and Storage

Storage	50 hours/ 100 hours/ 200 hours
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Electrical Specification

Input Voltage	10V-30V
Input current (full operation)	12V / 2A
Max Power Consumption	22W
Signal Input – High Voltage (Pos)	+17V
Signal Input – Low Voltage (Neg)	+7V
Operating Temperature	-20°C to +55°C

Active Mode Power Consumption

Peak Current (A)	1.8A @ 12V
RMS Current (A)	0.7A @ 12V
Peak Power (W)	21.6W
RMS Power (W)	8.4W

Periodic Wake-up Mode Power Consumption**

Peak Current (A)	1.04A @ 12V
RMS Current (A)	0.47A @ 12V
Peak Power (W)	12.48W
RMS Power (W)	5.64W

Shutdown Mode Power Consumption

Current (A)	9mA @ 12V
Power (W)	108mV
Average Power consumption***	23.9mAh***

Accessories

Compatible with EZ Install
Accessories Compatible with Driver•iHub

Wireless Connectivity & IO

LTE Connectivity	4G-LTE - Bands 2, 4, 12, 66, 71
SIM Connector	Yes, micro SIM
Wi-Fi	802.11 ac
Bluetooth	v4.0
GPS Receiver Antenna	True GPS Antenna
Connectors	USB (with OTG Support), Power Jack, microSD

Mechanical Shock

Pulse Type	Half Sinusoidal
Accelerator	50gm
Pulse Duration	6ms
Number of shocks per axis	20 Nos (10 Positive and 10 Negative)

Camera Specifications

Camera	Outward	Inward
Pixel Size	2.8µm OmniBSI-2 pixel	3µm x 3µm
Dynamic Range	120dB HDR	72db
Field of view	74° (H) 57° (V) 90° (D)	148° (H) 80° (V) 168° (D)
Construction	6G - Visible	6G + IR Filter (Dual Band)

Battery Consumption

3 minutes for every 360minutes	12.8mAh
6 minutes for every 180 minutes	23.9mAh

Processor Specifications

CPU	64-bit ARM® Octa Core
Video Encoding H.265	1080p
Sensors	IMU - Accelerometer + Gyro + Compass, Temperature, Ambient Light

Fuse Recommendations

VBAT Line	5A
Ignition Line	2A

* These values are measured at room temperature of +25°C

** Power Consumption (6 min/ every 3 hours after vehicle shutdown)

*** As per default Periodic wake-up Mode defined in ** with ignition off

