

# D210 Features and Technical Specifications

[help-installation.netradyne.com/hc/en-us/articles/4411061761689-D210-Features-and-Technical-Specifications](https://help-installation.netradyne.com/hc/en-us/articles/4411061761689-D210-Features-and-Technical-Specifications)

Driveri® is an AI powered vision based IoT system, sold as an aftermarket 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/J1939 of the vehicle to collect the vehicle data. This device is passive to the driver.

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 drive/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 status).



## Features

- Tested Operating Temperature: -4° F to 131° F / -20°C to 55°C
- Octacore CPU+ GPU / DSP for Edge
- 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
- Integrated Microphone and Speaker for
- 2GB RAM + 64GB/128GB/256GB Internal Storage
- Inertial sensors (Accelerometer and Gyro), Thermal sensor
- Location Services: Galileo, Glonass, GPS

## Specifications

The following tables list the specifications of the D210 device.

### Processor Specification

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

### RAM and Storage

<b>Storage</b>	50 hours/ 100 hours/ 200 hours
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### Camera Specification

Camera	Outward	Inward
<b>Pixel Size</b>	2.8µm OmniBSI-2 pixel	3µm x 3µm
<b>Dynamic Range</b>	120db HDR	72db
<b>Field of View</b>	74° (Horizontal) 57° (Vertical) 90° (Diagonal)	148° (Horizontal) 80° (Vertical) 168° (Diagonal)

<b>Construction</b>	6G – Visible	6G + IR Filter (Dual Band)
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### Wireless Connectivity & I/O

<b>LTE Connectivity</b>	4G – LTE-4G Cat4 B1, B3, B5, B7, B8, B28. 3G-B1, B5, B8
<b>SIM Connector</b>	Yes, microSIM
<b>Wi-Fi</b>	802.11 ac
<b>Bluetooth</b>	v4.0
<b>GPS Receiver Antenna</b>	True GPS Antenna
<b>Connectors</b>	USB (with OTG Support), Power Jack, microSD

### Electrical Specifications

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

### Active Mode Power Consumption

<b>Peak Current (A)</b>	1.8A @ 12V
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<b>RMS Current (A)</b>	0.7A @ 12V
<b>Peak Power (W)</b>	21.6W
<b>RMS Power (W)</b>	8.4W

**Periodic Wake-up Mode Power Consumption\*\***

<b>Peak Current (A)</b>	1.04A @ 12V
<b>RMS Current (A)</b>	0.47A @ 12V
<b>Peak Power (W)</b>	12.48W
<b>RMS Power (W)</b>	5.64W

**Shutdown Mode Power Consumption**

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

**Fuse Recommendations**

VBAT Line	8A
Ignition Line	2A

**Note:**

\* 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

**Accessories**

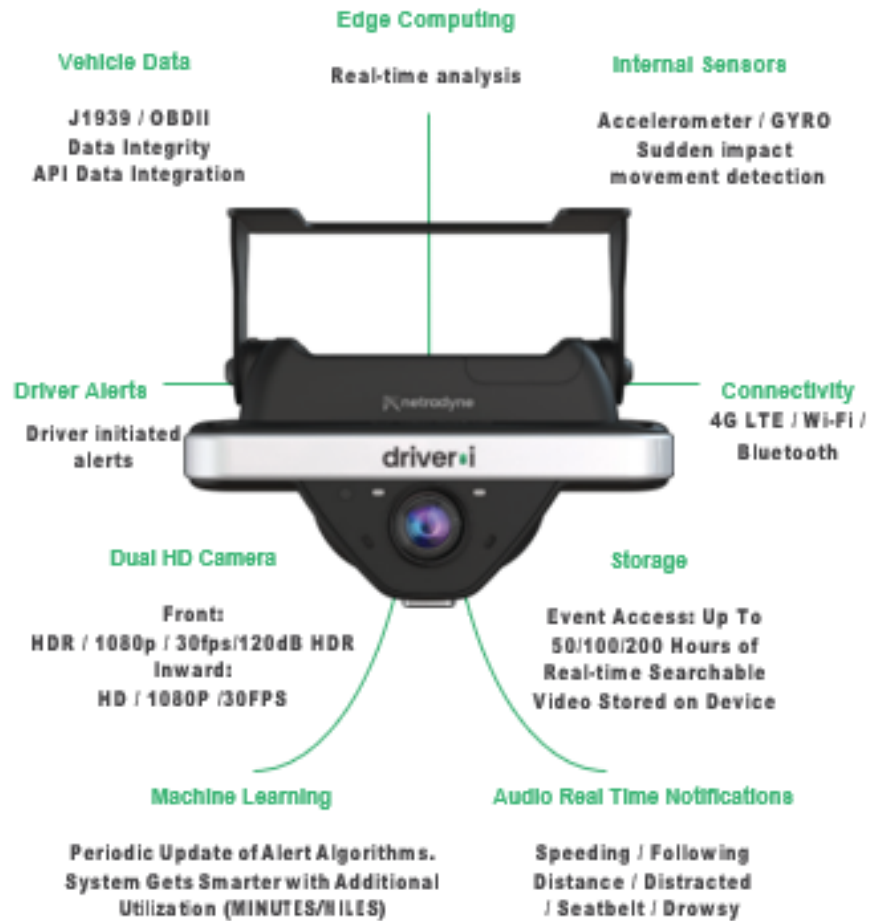
- Compatible with EZ Install Accessories
- Compatible with Driveri Hub
- Cigarette Port Adaptor

**Physical Dimensions**

<b>Length x Width x Height</b>	127mm x 96.2mm x 45.4mm / 5 x 3.78 x 1.78 in
<b>Color</b>	Black
<b>Case Material</b>	Polycarbonate (PC)
<b>Power Cable Length</b>	3 meters
<b>Power Cable Thickness</b>	4.35mm / 0.17 in
<b>Weight</b>	D-210: 610 grams, GPS/Wireless Module:284 grams
<b>ISO16750-3, IEC60068-2-64 Compliant</b>	

**Mechanical Shock**

<b>Pulse Type</b>	Half Sinusoidal
<b>Accelerator</b>	50gm
<b>Pulse Duration</b>	6ms
<b>Number of shocks per axis</b>	20 Nos. (10 positive and 10 negative)



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