# Driver•i D-810 Eight Camera Video Telematics Device.

Technical Specifications


## Overview

The Netradyne Driver•i® D-810 is a fleet safety and intelligence platform integrating advanced AI and edge computing for situational awareness. The system supports up to eight modular HD video inputs with continuous recording. Key features include proactive risk event detection, real-time in-vehicle alerts, and automated driver coaching algorithms, generating objective performance data and driver scores.

## Key Features

**Unmatched 360° Awareness**

Supports up to 8 high-definition cameras, including our smallest ever driver and road facing dash camera for complete, configurable coverage that eliminates blind spots.

**Real-Time AI Risk Detection**

Driver•i analyzes 100% of drive time, delivering up to 99%* alert accuracy. Instantly detects risky driving behaviors such as speeding, tailgating, and distraction, providing actionable insights when they matter most.

**Coaching & Positive Reinforcement**

Provides near real-time audio feedback to drivers eliminating the need for human review. Recognizes safe driving habits to foster a proactive safety culture.

**Superior Video Quality, Day or Night**

Full HD and HDR sensors capture sharp, detailed footage in all lighting conditions. Built-in infrared (IR) LEDs ensure clear night vision on driver-facing cameras.

**Seamless Connectivity & Smart Sensors**

LTE, Wi-Fi, and Bluetooth for reliable, flexible connectivity. Integrated IMU, temperature, and light sensors enhance event accuracy and system intelligence.

**360 AI Advanced Safety**

Upcoming auxiliary camera intelligence with features like Blind Spot Monitoring, Pedestrian Detection, Road Boundary Warning, and Rear Collision Warning for maximum risk mitigation.

## Processor & Electrical

| | |
|---|---|
| GPU | NVIDIA® Jetson Orin™ 6-Core Arm® Cortex 64-bit CPU |
| CPU | NVIDIA® Ampere 1024-Core architecture GPU with 32 Tensor Cores |

## Memory & Storage

| | |
|---|---|
| RAM | 8 GB |
| Internal Storage | 200 Hours of Video Recording** |

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## Video Capabilities

| | |
|---|---|
| Video Encoding | Up to 1080p @ 30fps |
| Video Format | MP4 with H.265 Encoding |

## On-board Sensors

| | | |
|---|---|---|
| 6-Axis IMU (Accelerometer + Gyroscope) | Temperature Sensor | Ambient Light Sensor |

## Wireless Connectivity & I/O

| | |
|---|---|
| LTE Connectivity | 4G-LTE |
| Supported Bands | 2, 3, 12, 66, 71 |
| SIM | Embedded SIM (eSIM) |
| Wi-fi | 802.11 b/g/n/ac |
| Bluetooth | 4.0 |
| GNSS Receiver | Active GNSS Supporting GPS, GALILEO, BEIDOU, and IRNSS L5 |

## Processor & Electrical

| | |
|---|---|
| Input Voltage | 8 V – 32 V DC |
| Input Current (Full Operation) | 3.6 A @ 12 V |
| Max Power Consumption | 45 W |
| Signal Input – High Voltage (Pos) | 32 V |
| Signal Input – Low Voltage (Neg) | 0 V |

**Active Mode Power Consumption**

| | |
|---|---|
| Peak Current (A) | 2.6 A @ 12 V |
| RMS Current (A) | 1.5 A @ 12 V |
| Peak Power (W) | 31 W |
| RMS Power (W) | 18 W |

**Periodic Wake-Up Mode Power Consumption**

| | |
|---|---|
| Peak Current (A) | 1.76 A @ 12 V |
| RMS Current (A) | 1.3 A @ 12 V |
| Peak Power (W) | 21 W |
| RMS Power (W) | 15.6 W |

**Shutdown Mode Power Consumption**

| | |
|---|---|
| Current (A) | 8 mA @ 12 V |
| Power (W) | 96 mW |
| Average Power Consumption | 8 mAh |

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## Physical Characteristics

| | |
|---|---|
| Dimensions | 174 x 110 x 62 mm (6.85 × 4.33 × 2.44 in) |
| Weight | 625 grams (1.38 lbs) |
| Color | Black |
| Case Material | Metal |
| Power Cable Length | 3.3 meters |
| Power Cable Thickness | 5.6 mm (0.22 in) |

## Environmental

| | |
|---|---|
| Operating Temperature | -15° C to 55° C (5°F to 131°F) |
| Vibration | Conforms to ISO 16750-3:2007E |
| Operating Acceleration | 57.9 m/s² (5.79g) |

## Mechanical Shock

| | |
|---|---|
| Pulse Type | Half sinusoidal |
| Accelerator | 50gm |
| Pulse Duration | 6 ms |
| Number of Shocks Per Axis | 20 Nos (10 Positive and 10 Negative) |

## DR-20 - Dual Camera Specifications


| | |
|---|---|
| Dimensions | 57.5 x 35.8 x 45 mm (2.26 x 1.41 x 1.77 in) |

| **Camera View** | **Road-Facing** | **Driver-facing** |
|---|---|---|
| Pixel Size | 2.8um X 2.8um | 3µm x 3µm |
| Dynamic Range | 120 dB | 72 dB |
| Field of View | 74° (H) 57° (V) 90° (D) | 145° (H) 80° (V) 168° (D) |
| Construction | 6G – Visible | 6G + IR850 Filter |
| Responsivity | ~5 V/lux sec | 3.3 V/lux sec |
| Lens Ssize | 1/2.9” | 1/2.7” |
| F-Stop (focal length) | F1.6 | F2.0 |

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# Included Accessories:

**DR-20**

Ultra-compact high-definition dash camera that captures synchronized, high-definition video from two lenses, minimizing windshield obstruction while providing comprehensive in-vehicle coverage.

**Wired Alert Button**

A driver-accessible remote button with an integrated speaker that allows for easy manual triggering of alerts. The integrated speaker provides clear in-vehicle audio coaching and notifications.

**Cellular & GPS Module**

This external module equips the D-810 device with reliable cellular and Global Positioning System (GPS) connectivity, enabling real-time location tracking, data transmission, and remote access.

# Auxiliary Camera Requirements

| | |
|---|---|
| Video systems | AHD / NTSC / PAL |
| Resolution | 720 / 1080P |
| Input Voltage | 12V |
| Pin Connector | GX12 4-Pin |

# Additional Accessories & Services

**In Vehicle Display**

This optional accessory provides crucial views from auxiliary cameras, automatically switching to full-screen when reversing or signalling. Available in 7 and 9 inches.

**DMS Sensor**

Award winning, dedicated sensor to deliver enhanced nighttime visibility plus the ability to see through sunglasses to detect drowsiness of the driver in real-time.

**Vehicle Data Service**

Add-on service that connects Driver•i to the vehicle engine control module (ECM) to provide real-time vehicle status, driver assistance, and driver management alerts.

*AI alert accuracy based on internal validation. Actual performance may vary by fleet and environment.
**Actual hours may vary based on settings and conditions.

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