

TECHNICAL SPECIFICATIONS

Driver•i D-810

Eight Camera Video Telematics Device.



Overview

The Driver-i® D-810 brings Netradyne's edge intelligence to more angles around the vehicle, helping fleets prevent risk in the moment, coach with fuller context, and recognize safe driving. Powered by the NVIDIA® Orin™ processor, its edge-based architecture supports up to eight AI-enabled cameras and analyzes 100% of drive time on the device.

Its modular design lets fleets configure coverage across the cab, road, sides, rear, and blind spots, then expand as needs change. With 360 AI, D-810 extends real-time AI analysis across connected exterior cameras. An optional in-cab monitor provides live side and rear views during turns and reversing, while Video LiveSearch helps teams quickly find relevant footage for coach-ing, incident review, and operational decisions.

Key features

360° Risk Prevention

- No blind spots: Up to 8 cameras give full coverage around the cab, trailer, and sides.
- Avoid costly incidents: AI detects hazards during turns, reverses, and lane changes.
- Spot critical risks faster: Compound alerts flag the most dangerous situations first.

Positive Driver Coaching

- Fair feedback: 100% drive-time analysis provides context for every decision.
- Boost retention: Recognize and reward safe driving to keep top performers.
- Fix issues instantly: Real-time in-cab audio alerts prompt immediate corrections.

Video LiveSearch

- Faster investigations: Find footage in seconds with natural language video search.
- Save admin hours: Reduce video review time from hours to seconds.
- Get evidence now: On-device AI delivers results without cloud delays.

Future-Ready Platform

- Stay ahead: Powered by NVIDIA® Orin for faster, more accurate insights.
- Adapt easily: Modular design grows with your fleet and integrates with third-party systems.
- Minimal impact: Compact cameras capture everything while keeping the view clear.

Full Specifications

Processor & Electrical

GPU	NVIDIA® Jetson Orin™ 6-Core Arm® Cortex 64-bit CPU	
CPU	NVIDIA® Ampere 1024-Core architecture GPU with 32 Tensor Cores	
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	
Power Consumption	Active Mode	Periodic Wake-Up Mode
Peak Current (A)	2.6 A @ 12 V	1.76 A @ 12 V
RMS Current (A)	1.5 A @ 12 V	1.3 A @ 12 V
Peak Power (W)	31 W	21 W
RMS Power (W)	18 W	15.6 W
Shutdown Mode Power Consumption		
Current (A)	8 mA @ 12 V	
Power (W)	96 mW	
Average Power Consumption	8 mAh	

Physical Characteristics

Dimensions	174 x 110 x 62 mm (6.85 Å~ 4.33 Å~ 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)

Memory & Storage

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

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
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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

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/s (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



Full Specifications

Physical Characteristics

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	2.8µm X 2.8µm	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 Size	1/2.9"	1/2.7"
F-Stop (focal length)	F1.6	F2.0

DR-40 - Optional quad camera specifications



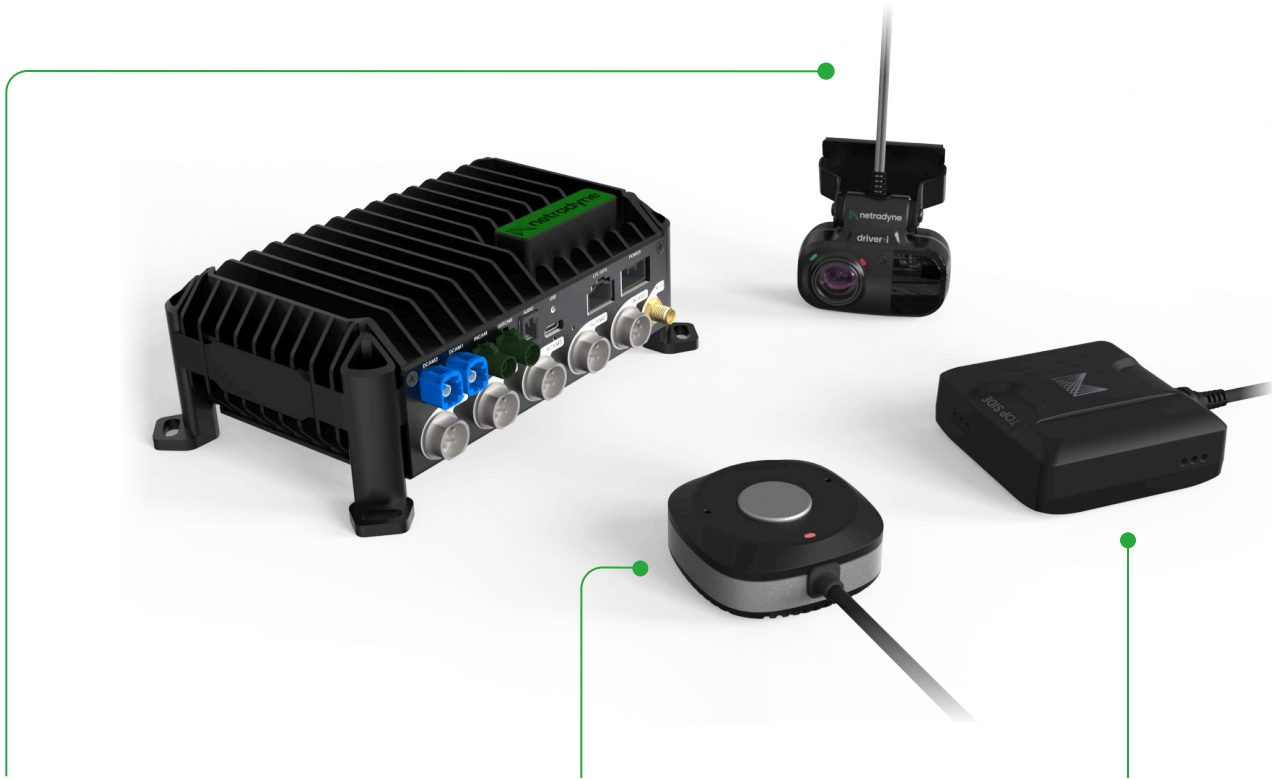
Full Specifications

Physical Characteristics

Dimensions	73.5 x 45.5 x 50.4 mm (2.89 x 1.79 x 1.98 in)
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Camera View	Road-Facing	Driver-facing
Pixel Size	2.8µm X 2.8µm	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
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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.

Vehicle Data Reader

Max Power Consumption Wake/Sleep	70mA / 9mA
Operating Temperature	-40° to +100° C (-40° to +212° F)
Dimensions	25.8 x 46.6 x 29.5 mm (1.01 x 1.83 x 1.16 in)

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.

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

**Actual hours may vary based on settings and conditions.