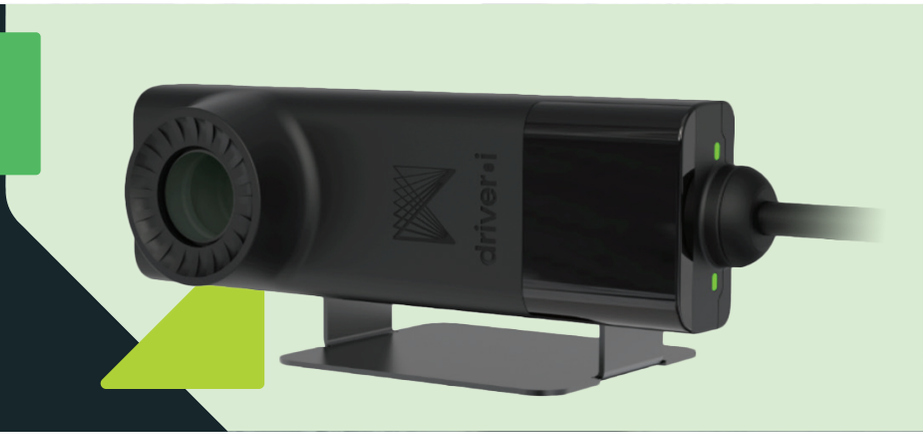
netradyne | driver•i

DMS Sensor

Technical Specifications



Overview

The DMS sensor is an advanced auxiliary sensor used for early-stage identification of driver drowsiness. It augments the Driver•i safety capabilities by providing an additional view aimed at real-time Driver•i monitoring to detect early signs of drowsiness through advanced algorithms that detect drowsiness indicators like microsleep, blink rate and percentage eye closure. A tailored early-stage alert to warn the drivers before severe drowsiness sets in is provided. This sensor is designed to work even in low light conditions and if the driver is wearing non-polaroid sunglasses. It works in conjunction with Driver•i to provide a holistic driver safety solution.

Device Compatibility

Compatible Driver•i Devices	D-450

Physical Dimensions

Length x Width x Height	81.7mm x 39.5mm x 25mm without clamp / 81.7mm x 55.5mm x 40mm with clamp
Color	Black
Case Material	Polycarbonate and Aluminium
Weight	150gms (with cable)

Electrical

Input Voltage	5V
Input Current (full operation)	5V/1A
Max Power Consumption	4.25W
Operating Temperature	[-5° to 55° C]
Active Mode Power Consumption	
Peak Current (A)	850mA
RMS Current (A)	500mA
Peak Power (W)	4.25W
RMS Power (W)	2.5W

Rev. 2024-Dec 27.

Sensor

Field of View	48°(H), 62.2°(D), 39°(V)
Construction	IR Filter - 940nm +/-15nm

Connectivity

Power Cable Type	USB
Power Cable Length	3 meters
Power Cable Thickness	4.2.mm/ 0.165354in dia

Rev. 2024-Dec 27.