

NDF vehicle sensor



The NDF vehicle video detector in operating mode can identify emerging objects in a specified area. At the same time, the detector constantly adapts to changing conditions, such as lighting, wet asphalt, etc. The sensor is equipped with Day/Night cameras and can operate in low light conditions.

The sensor detects the appearance of a car in the zone, considers the direction of movement, and extracts statistical data about traffic by time intervals grouped by vehicle length. It also supports 2 types of zones, each of that can work in challenge mode and in statistics mode:

- Motion zones – detect only vehicles moving in specified directions.
- Occupancy zones – detect all incoming vehicles, regardless of movement.

Specification

System overview		
Functionality	Detection of three categories of vehicles Traffic data collection with color streaming video 4 detection zones, 4 statistics zones	
Statistics collection by directions and lanes	Intensity, occupancy, average speed, transport categories	
Camera, Imaging, and Optics		
Camera type	CMOS 1/4 colour	
Resolution	1280 x 720	
Frame rate	25 fps	
Compression	MPJEG	
Streaming video	MPJEG over HTTP	
OmniVision	5647 5MP camera matrix	
Installation height	3.5–12 meters	
Modifications	Focal length	Vehicle detection distance
Sensor NDF W (wide angle) 17-2300	2,1 mm	0–75 meters
Sensor NDF N (narrow angle) 17-2301	6,0 mm	75–150 meters
Housing material and characteristics		
Material	Polyurethane housing with aluminum sun visor	
Dimensions (including mounting bracket)	170 mm x 98 mm x 72 mm	
Sensor's weight (with mounting bracket)	1,5 kg	
Power supply		
Input power	24-42 VAC / 24-48 VDC	
Power Consumption	Average 6 W / Peak 9 W	
Operating voltage	A 220 V, PoE	
Output contacts and communication		
Interfaces	Ethernet, RS-485, INF1 interface board (dry contacts)	
Output contacts	4 via INF1 interface board	
PoE mode	PoE A/ PoE B	
Environmental and Regulatory		
Weatherproof	Sealed (UV protected)	
Operating temperature range	from -34°C to + 74°C	
Moisture protection	IP67	
FCC/EU Directives	EMC 2014/30/EU, RoHS 2011/65/EU	



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