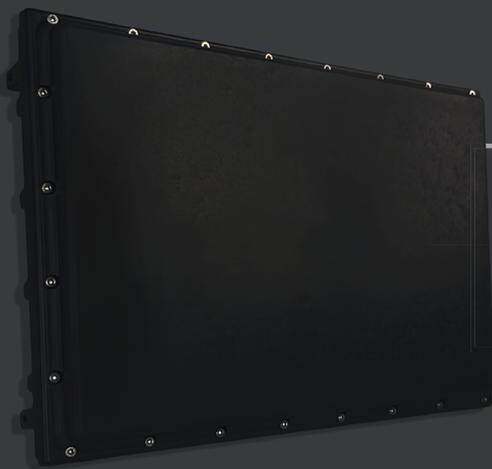
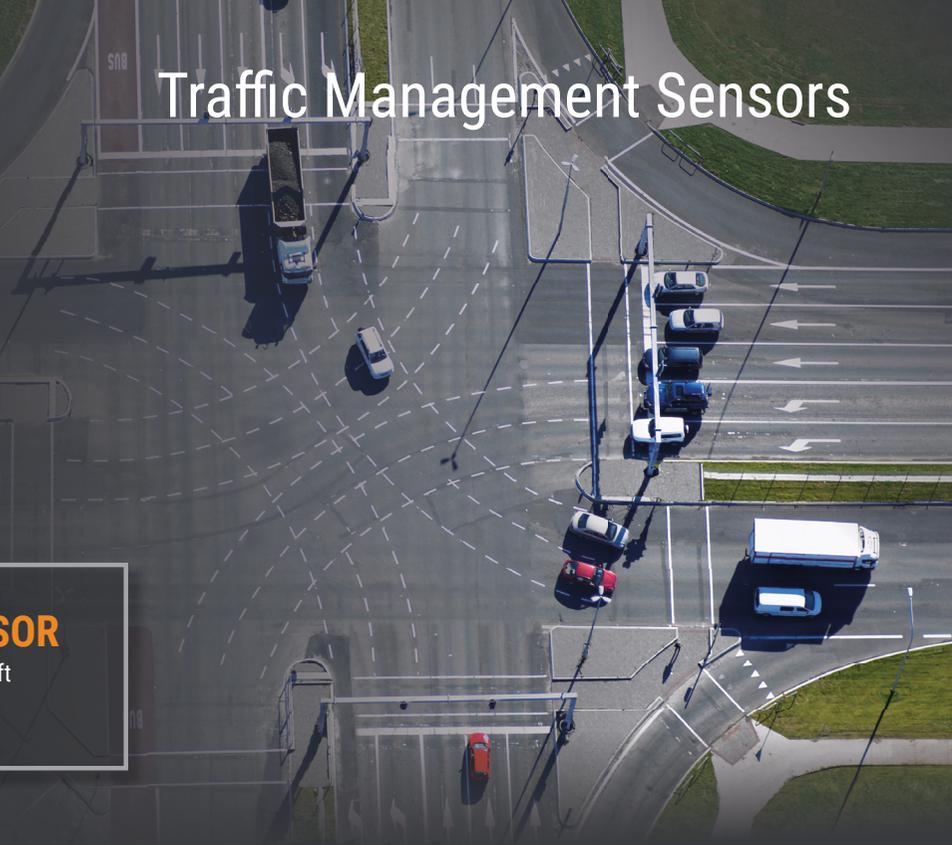


TRUGRD[®] | Premium Line



3D/UHD+ SENSOR

Range of up to 300m | 984ft



RECOMMENDED FOR:



SMART CITIES



INTERSECTION MANAGEMENT



HIGHWAY MANAGEMENT



STATIONARY ENFORCEMENT



BRIDGE MONITORING



RED-LIGHT ENFORCEMENT



TUNNEL MONITORING

OPTIMIZING TRAFFIC FLOW

- ✓ Detects moving and stopped traffic
- ✓ Reliable tracking of pedestrians and cyclists (VRUs)
- ✓ Fail-safe features
- ✓ Multi-lane, multi-object detection
- ✓ Maintenance-free
- ✓ Works in all weather conditions

TRUGRD[®]

PERFORMANCE

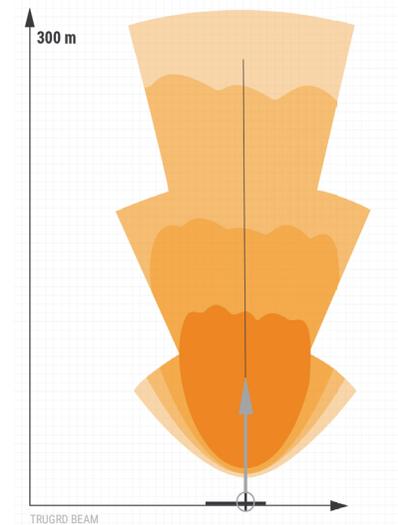
Operating Frequency ¹	24.0 ... 24.25 GHz
Resolution	3D measurement with UHD+ resolution
Detection Range Pedestrian	125 m 410 ft
Detection Range Passenger Car	260 m 853 ft
Detection Range min ... max	1.5 ... 300 m 4.9 ... 984 ft
Range Separation	2 m 6.6 ft
Range Accuracy	± 0.25 m ± 0.82 ft
Speed min ... max	-320 ... +320 km/h -199 ... +199 mph
Speed Separation	0.23 m/s
Speed Accuracy	< ± 0.1 m/s
Number of Lanes	Up to 12 lanes
Field of View Azimuth	-55° ... +55°
Field of View Elevation	-10° ... +10°
Angle Separation Azimuth	< 6°
Angle Accuracy Azimuth	< 0.5°

MECHANICAL

Weight	1290 g 45.5 oz
Dimensions	213 x 155 x 32 mm or 8.4 x 6.1 x 1.3 in + connector

GENERAL

Update Cycle Time	50 ² ms
Operating Voltage / Power Consumption	7 ... 32 V / 9.5 W
Operating Temperature	-40 ... +80°C or -40 ... +176°F
Interfaces	RS485 full duplex; Ethernet 10/100; 1x CAN V2.0b (passive)
Connector	Hirose LF10 series
IP	67



¹ In certain regions, frequency interval starts at 24.05 GHz.

² Depending on the application - Speed Enforcement 50 ms; Intersection and Highway Management 100 ms.

