

TOPGRD[®] | Compact Line

77 or 80 GHz
4D/PxHD resolution



SMART
CITIES



INTERSECTION
MANAGEMENT



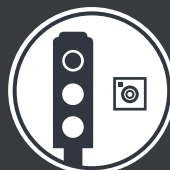
HIGHWAY
MANAGEMENT



STATIONARY
ENFORCEMENT



TUNNEL
MONITORING



RED-LIGHT
ENFORCEMENT

Traffic Management Sensors

OPTIMIZING TRAFFIC FLOW

- ✓ Software-defined radar
- ✓ VRU detection
- ✓ Replaces loops, outperforms video detectors
- ✓ Maintenance-free
- ✓ Works in all weather conditions
- ✓ Multi-lane, multi-object detection

	TOPGRD®		
PERFORMANCE	X-Long-Range Mode	X-Medium-Range Mode	Short-Range Mode
Operating Frequency	76...77 GHz or 79...80 GHz 4 center frequencies	76...77 GHz or 79...80 GHz 2 center frequencies	76...77 GHz or 79...80 GHz 1 center frequency
Detection Range Passenger Car	240 m	100 m	40 m
Detection Range Minimum	1.2 m	0.5 m	0.2 m
Range Separation	≤ 2.4 m	< 1 m	< 0.4 m
Range Accuracy	< 0.6 m	< 0.25 m	< 0.1 m
Speed Min...Max	-320...+320 km/h	-320...+320 km/h	-385...+385 km/h
Speed Separation	< 0.26 m/s	< 0.26 m/s	< 0.46 m/s
Speed Accuracy	≤ 0.07 m/s	≤ 0.07 m/s	≤ 0.14 m/s
Number of Lanes	up to 10 lanes		
Field of View Azimuth	-50...+50°		
Field of View Elevation	-10...+10°		
Angle Accuracy Azimuth	≤ 0.25°		
Seperation: Azimuth	2°		
Angle Accuracy Elevation	≤ 0.5°		
GENERAL			
Update Cycle Time	≤ 55 ms		
Operating Voltage / Power Consumption	7...32 V / < 6 W		
Operating Temperature	-40...+85°C		
Interfaces	RS485 full duplex; Ethernet 10/100		
Dimensions	97.5 x 114.5 x 34 mm + connector		
Connector	Hirose LF10 series		
IP	IP 67		

