

TOPGRD[®] | Compact Line

77 or 80 GHz
4D/PxHD resolution



SMART CITIES



INTERSECTION MANAGEMENT



HIGHWAY MANAGEMENT



STATIONARY ENFORCEMENT



TUNNEL MONITORING



RED-LIGHT ENFORCEMENT

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	

