



Traffic Management Radar

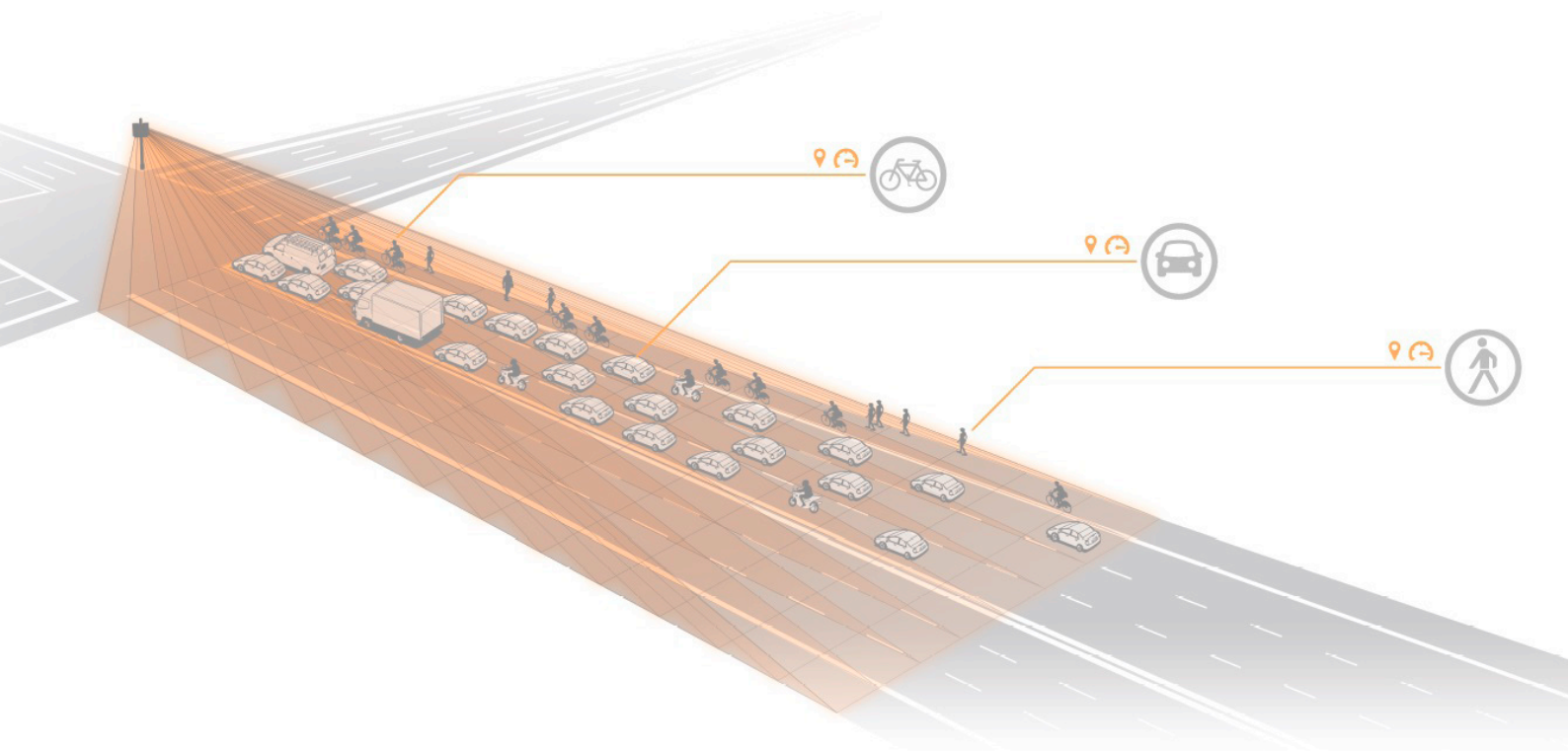
## TRUGRD Products | Premium Line

- ✔ 4D/UHD+ resolution
- ✔ Fail-safe features
- ✔ Multi-lane, multi-object detection

Detects moving and stopped traffic ✔

Reliable tracking of pedestrians and cyclists (VRUs) ✔

Works in all weather conditions ✔



	TRUGRD (UMRR-12 Type 48)	TRUGRD Stream
<b>CAMERA MODULE</b>		Color camera with IR cut filter and supreme low light performance
Resolution, Frame Rate		1920 x 1080 px, up to 30 fps
Video Codec		H.265, H.264, MJPEG
<b>PERFORMANCE</b>		
Operating Frequency <sup>1</sup>	24.0 ... 24.25 GHz	
Resolution	3D or 4D measurement with UHD+ resolution	
Detection Range Pedestrian	125 m or 410 ft	
Detection Range Passenger Car	260 m or 853 ft	
Detection Range min ... max	1.5 ... 300 m or 4.9 ... 984 ft	
Range Separation	2 m or 6.6 ft	
Range Accuracy	< ± 0.25 m or < ± 0.82 ft	
Speed min ... max	-320 ... +320 km/h or -199 ... +199 mph	
Speed Separation	0.2 m/s	
Speed Accuracy	< ± 0.1 m/s	
Number of Lanes	Up to 12	
Field of View Azimuth	-55° ... +55°	
Field of View Elevation	-10° ... +10°	
Angle Separation Azimuth	< 6°	
Angle Accuracy Azimuth	< 0.5°	
Angle Accuracy Elevation	≤ 1°	
<b>MECHANICAL</b>		
Weight	1290 g or 45.5 oz	1575 g or 55.5 oz
Dimensions	213 x 155 x 40 mm or 8.4 x 6 x 1.6 in	213 x 155 x 40 mm or 8.4 x 6 x 1.6 in + camera module
<b>GENERAL</b>		
Update Cycle Time	50 ms	50 ms
Operating Voltage / Power Consumption	7 ... 32 V / 9.5 W	7 ... 32 V / 11 W
Operating Temperature	-40 ... +80°C or -40 ... +176°F	-40 ... +74°C or -40 ... +165°F
Interfaces	RS485 full duplex; Ethernet 10/100; 1x CAN V2.0b (passive)	Ethernet <sup>2</sup>
Connector	Hirose LF10 series	Hirose LF10 series
IP	67	67

<sup>1</sup> In certain regions, frequency interval starts at 24.05 GHz.

<sup>2</sup> Necessary for video output.

