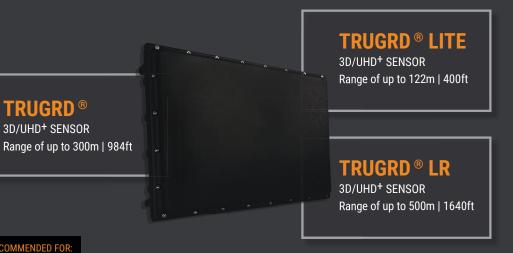


## TRUGRD® Premium Line



## **ECOMMENDED** FOR:

TRUGRD®

3D/UHD+ SENSOR





INTERSECTION













## **OPTIMIZING TRAFFIC FLOW**

- 3D/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 ®	TRUGRD ® Stream	TRUGRD ® LR	TRUGRD® Lite
CAMERA MODULE		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		
PERFORMANCE				
Operating Frequency <sup>1</sup>	24.0 24.25 GHz		24.024.25 GHz	24.024.25 GHz
Resolution	3D measurement with UHD+ resolution		3D measurement with UHD+ resolution	3D measurement with UHD+ resolution
Detection Range Pedestrian	125 m   410 ft		229 m   751 ft	90 m   295 ft
Detection Range Passenger Car	260 m   853 ft		500 m   1640 ft	122 m   400 ft
Detection Range min max	1.5 300 m   4.9 984 ft		3 m510 m   10 ft1673 ft	122 m   400 ft
Range Separation	2 m   6.6 ft		4.8 m   15.74 ft	2 m   6.6 ft
Range Accuracy	± 0.25 m  ± 0.82 ft		± 0.5 m   ± 1.64 ft	±0.25 m   ±0.82 ft
Speed min max	-320 +320 km/h   -199 +199 mph		-210+210 km/h   -130+130 mph	-210+210 km/h   -134+134 mph
Speed Separation	0.23 m/s		0.24 m/s	0.23 m/s
Speed Accuracy	< ± 0.1 m/s		< ± 0.1 m/s	< ±0.1m/s
Number of Lanes	Up to 12 lanes		Up to 8 lanes	Up to 6 lanes
Field of View Azimuth	-55° +55°		-20+20°	-55+55°
Field of View Elevation	-10° +10°		-9+9°	-10+10°
Angle Separation Azimuth	< 6°		< 2.5°	< 6°
Angle Accuracy Azimuth	< 0.5°		< 0.25°	< 0.5°
MECHANICAL				
Weight	1290 g   45.5 oz	1575 g   55.5 oz	1290 g   45.5 oz	1290 g   45.5 oz
Dimensions	213 x 155 x 32 mm   8.4 x 6.1 x 1.3 in + connector	213 x 155 x 32 mm   8.4 x 6.1 x 1.3 in + camera module	213 x 155 x 32 mm   8.4 x 6.1 x 1.3 in + connector	213 x 155 x 32 mm   8.4 x 6.1 x 1.3 in + connector
GENERAL				
Update Cycle Time	$50^2\mathrm{ms}$	50 <sup>2</sup> ms	100 ms	100 ms
Operating Voltage / Power Consumption	7 32 V / 9.5 W	7 32 V / 11 W	732 V / 9.5 W	732V / 9.5 W
Operating Temperature	-40 +80°C or -40 +176°F	-40 +74°C or -40 +165°F	-40+80°C   -40+176°F	-40+80°C   -40+176°F
Interfaces	RS485 full duplex; Ethernet 10/100; 1x CAN V2.0b (passive)	Ethernet <sup>3</sup>	RS485 full duplex; Ethernet 10/100; 1xCAN V2.0b (passive)	RS485 full duplex; Ethernet 10/100; 1xCAN V2.0b (passive)
Connector	Hirose LF10 series	Hirose LF10 series	Hirose LF10 series	Hirose LF10 series
IP	67	67	67	67



<sup>&</sup>lt;sup>1</sup> In certain regions, frequency intervall starts at 24.05 GHz.
<sup>2</sup> Depending on the application - Speed Enforcement 50 ms; Intersection and Highway Management 100 ms.
<sup>3</sup> Necessary for video output.