

TRUGRD® | Premium Line

TRUGRD®

3D/UHD+ SENSOR Range of up to 300m | 984ft



TRUGRD® LR

3D/UHD+ SENSOR Range of up to 500m | 1640ft















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



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