

RADAR

Software-defined mmWave 4D imaging radar for service robots.

RADAR



Features

- 1. High resolution
- in a wide field of view (up to 1.3°)



Obstacles detection in any lighting and weather conditions



- Software-defined characteristics to fit vast range of applications
- AUTONOMICS RADAR and AUTONOMICS STEREOCAM smart stereo camera data fusion provides unprecedented level of safety, situational awareness and cost efficiency



of your robots.



- Low power consumption (<15W) and wide power supply range
- Quick and easy integration via Gigabit Ethernet or CAN, compatibility with ROS







Specifications

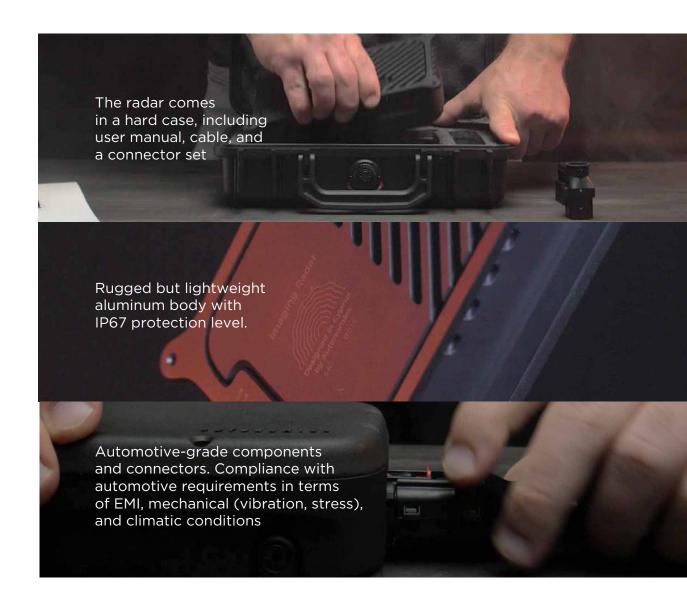
Software-defined* Mode	Short-range	 	Long-range
Operating Frequency	77 - 81 GHz		
Detection Range	0.2 m - 50 m	()	0.4 m - 150 m
Max Velocity	±10 m/s		
Azimuth Field of View	140°	•	90°
Elevation Field of View	30°		
Range Resolution	<0.1 m	(<0.3 m
Range Accuracy	0.05 m	(0.15 m
Velocity Resolution	<0.15 m/s		
Velocity Accuracy	0.075 m/s		
Azimuth Resolution	< 1.5° (at <50° from boresight)		
Azimuth Accuracy	0.25°		
Elevation Resolution	20°		
Elevation Accuracy	1°		
Update Rate, FPS	10 Hz		
Operating Voltage	9 - 36 V		
Power Consumption	<15 W		
Dimensions (WxHxD mm)	203×110×45		
Interface (Data Output Interface)	CAN, Ethernet		
Dust and moisture resistance (IP Rating Target)	IP67		

^{*}It is possible to adjust the characteristics of AUTONOMICS RADAR software to the specific parameters of detection range and resolution





Features



Dimensions



