

AUTONOMICS

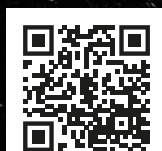
4D high-resolution radar
for service robots



RADAR

Product
demo

Unboxing
video



Features

High resolution, wide FOV

Environment perception with high resolution in a wide field of view is crucial for service robots, operating in the environment shared with people. This is what makes AUTONOMICS RADAR a perfectly suited solution for obstacles detection for last-mile delivery, warehouse and cleaning robots and many other applications.



All-weather

AUTONOMICS RADAR ensures safe operation in any lighting and weather conditions.



Software-defined

The software-defined characteristics make AUTONOMICS RADAR flexible and adaptable to any required applications and conditions.

ROS compatible

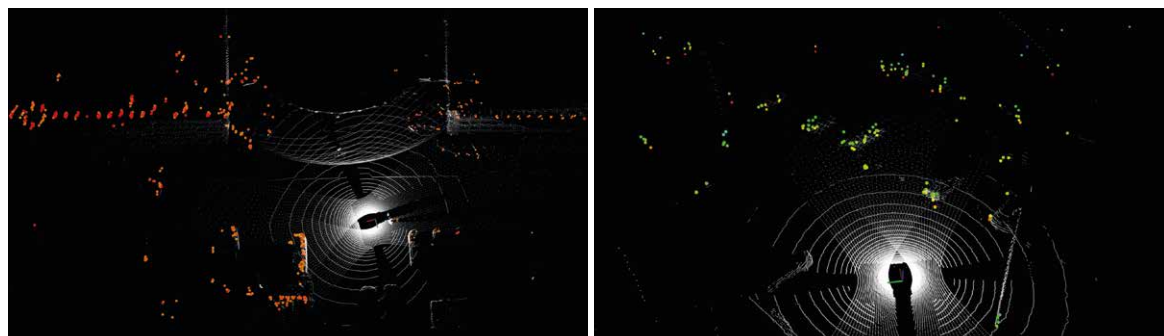
ROS compatibility makes it easy to integrate AUTONOMICS RADAR into existing systems.

Rugged design

Rugged but lightweight aluminum body with IP67 protection level.

Automotive-grade components

Automotive-grade components and connectors. Compliance with automotive requirements in terms of EMI, mechanical (vibration, stress), and climatic conditions



Point cloud example

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



Contact us

www.autonomics.tech
hello@autonomics.tech
+357 95 139 278

A U T O N O M I C S

Visit
website

