

HUGIN D3 4D IMAGING RADAR.

2K ultra-high resolution

ABOUT

The Hugin 4D Imaging Radar is based on Arbe's chipset and offers advanced perception capabilities for autonomous applications. It supports a variety of use cases including off-road, indoors, high speeds, long ranges, and a wide field of view.

APPLICATION FIELDS

Heavy Machinery
Trucking & Transportation
Robot Shuttles & Taxis
AGV's & Delivery Pods
Marine
Aerial Vehicles

PRODUCT FEATURES

Chipset: Arbe Phoenix
Antennas: 48 x 48 MIMO Configuration
Frequency: 76-81 GHz
Max Bandwidth: 1,540 GHz
Field of View Azimuth: 50-100°
Field of View Elevation: 30°
Max Frame Rate: >15 FPS

PRODUCT SPECIFICATIONS

Dimensions: 14.3 x 12.7 x 3.4 cm
Weight: 750g
Power Consumption: 20 Watt



ULTRA HIGH
RESOLUTION

SUPPRESSION OF
FALSE ALARMS

MITIGATION OF
INTERFERENCE

Detection Range (sensitivity):

Range: 0.5 -300+ m
Range Resolution: 0.1-0.75 m

Doppler Resolution: 0.1 m/sec

Virtual Channels: >2,300 (2k ultra-high resolution)

Target Radial Velocity: -35 m/sec to +70 m/sec

Azimuth Resolution (at beam 3dB width point): 1.25°

Elevation Resolution (at beam 3dB width point): 1.7°

Number of simultaneously tracked objects: >500

Interface: Ethernet 1 Gbit / CAN-FD

Dust and Water : IP 67

Safety: ASIL-B / SIL-2