

HUGIN S1 4D IMAGING RADAR.

2K ultra-high resolution

ABOUT

The Hugin 4D Imaging Radar is based on Arbe's radar chipset and offers advanced perception capabilities supporting a variety of use cases including surveillance, industrial autonomy, long range detection and a wide field of view. Arbe's technology offers accurate real time detection of objects velocity whilst ensuring personal integrity

APPLICATION FIELDS

Traffic Management
Smart cities
Construction Site Safety

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°
Frame Rate: >15 FPS

PRODUCT SPECIFICATIONS

Dimensions: 14.8 x 13.2 x 3.8 cm
Weight: 800g
Power Consumption: 20 Watt



**ULTRA HIGH
RESOLUTION**

**ENSURING PERSONAL
PRIVACY**

**HIGH
SENSIVITY**

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°

simultaneously tracked objects: >500

Interface: Ethernet 1 Gbit / CAN-FD

Dust and Water : IP 67

Safety: Up to SIL-2