



2K ultra-high resolution

ABOUT

The Munin radar is designed for fixed installation and pushes the boundaries of perception in a variety of use cases like perimeter surveillance, smart city and traffic management applications. Featuring expansive 100° wide field-of-view, the Munin radar provides large areal coverage while optimizing efficiency and cost.

Minimal impact by dust and inclement weather

Enables Multi-object detection – tracking, counting, speed measurement and classification

Long lifetime and low maintenance

High resolution enables detection and classification of small objects

APPLICATION FIELDS

Perimeter Surveillance

Traffic management

Smart Cities

sensrad

PRODUCT FEATURES

Frequency range: 76-81 GHz Bandwidth: Up to 1.65 GHz Antennas: 48 TX x 48 RX MIMO configuration Dimensions: 15 x 12 x 5 cm Weight: approx. 1 kg Mounting: VESA Power Consumption: AVG 15 W, Peak 20 W Temperature Range: -40 °C to +85 °C Interface: POE Update rate: 20-30 FPS Number of simultaneously tracked objects: >500

CERTIFICATION QUALIFICATION

Regulatory: CE, RED, Telec-Japan, NDAA compliance Environmental: ISO 16750 Ingress protection: IP67

SDD-66 Product_sheet_Munin Rev 1

KPIs



Mode	Short	Mid	Long	Ultra Long
Resolution (3dB Beamwidth)				
Range	10 cm	20 cm	50 cm	50 cm
Azimuth	1.2°	1.2°	1.2°	1.2°
Elevation	1.5°	1.5°	1.5°	2.5°
Doppler	0.1 m/s	0.1 m/s	0.2 m/s	0.2 m/s
Detections Space				
Range*	0.2 m - 40 m	1 m - 100 m	5 m - 220 m	5 m - 400+ m
Azimuth	100° (±50°)	100° (±50°)	100° (±50°)	100° (±50°)
Elevation	30° (±15°)	30° (±15°)	30° (±15°)	10° (±5°)
Doppler	-54 m/s to +108 m/s			
*Instrumented Range				

CUSTOMIZATION

- Customer requirement adaptation
- Cost optimization and scale for purpose Antenna, radome design and simulation

Education and support

- 4D radar technology
- System safety
- Perception systems
 - Non-functional and functional requirements review
 - Use case and environment analysis

Evaluation Radar

Start kit Stand alone

4D Radars

Accessories

- Versatile usage Static
 - Dynamic
- Wire harness
- I/F Converter
 - Brackets

On site measurement **ROS** Integration

Data collection

- **Physical Installation**
- Certification (Market and product specific)

Kick-starter

- Installation & setup
- How to use, data collection, parameter settings and tweaks
- Data analysis



- **Features and algorithms**
- Perception Algorithm Development
 - Validation services

On-site demonstration and evaluation

System integration

- Physical packaging
- Electrical
- Sensor Fusion
- System safety reviews