

UK-based SME offers advanced imaging radar technology for pilot projects in automotive, aerospace, and security sectors

Summary

Profile type

Technology offer

Company's country

United Kingdom

POD reference

TOGB20251127006

Profile status

PUBLISHED

Type of partnership

Commercial agreement with technical assistance

Targeted countries

• World

Contact Person

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Term of validity

27 Nov 2025**27 Nov 2026**

Last update

27 Nov 2025

General Information

Short summary

A UK-based SME offers a compact, high-resolution imaging radar system with angular accuracy down to 0.1° and angular resolvability down to 0.5°, low power consumption, and minimal thermal dissipation. The company seeks international partners for pilot projects under a commercial agreement with technical assistance.

Full description

A UK-based SME has developed an advanced imaging radar system designed for high-performance situational awareness applications. The radar offers angular accuracy down to 0.1° and angular resolvability down to 0.5° enabling precise object detection and tracking. Its low power consumption and minimal thermal dissipation make it ideal for integration into compact platforms without the need for forced air cooling or complex thermal management.

The technology is particularly suited for use in:

- Advanced Driver Assistance Systems (ADAS) and automated driving projects
- Aerospace applications, such as automated aircraft taxiing
- Security and surveillance systems, including automated monitoring of high-value infrastructure like ports and industrial plants

The SME seeks international partners—vehicle manufacturers, Tier 1 suppliers, aerospace firms, and security solution providers—interested in piloting the technology under a commercial agreement with technical assistance. The goal is to validate use cases, refine integration, and explore future commercial deployment.

Advantages and innovations

- Angular accuracy down to 0.1° and angular resolvability down to 0.5° , enabling precise object detection and tracking
- Low power consumption supports longer operational life and smaller battery requirements
- Minimal thermal dissipation eliminates the need for forced air cooling
- Compact and robust design with no moving parts, suitable for automotive and aerospace environments
- Versatile applications across automotive, aerospace, and security sectors
- Patents granted in UK, US, and key EU markets

Technical specification or expertise sought

The UK company seeks:

- Potential partner in the automotive, aerospace and security sectors who will have their own vehicle product or platform suitable to test the unit capabilities on.
- Expertise in radar is not essential, but some expertise in integrating advance sensors is required.

Stage of development

Available for demonstration

Sustainable Development goals

- **Goal 13: Climate Action**
- **Goal 11: Sustainable Cities and Communities**
- **Goal 9: Industry, Innovation and Infrastructure**

IPR Status

IPR granted

IPR Notes

Patents granted in the UK, US, and major EU countries including Germany, France, Spain, and Italy.

Partner Sought

Expected role of the partner

Partners may be:

- Vehicle manufacturers

- Tier 1 automotive suppliers
- Aerospace companies
- Security and surveillance solution providers

Target sectors:

- Automotive
- Aerospace
- Security
- Smart mobility
- Electronics

Role/tasks to be performed by the partner

Partners are expected to pilot the imaging radar technology in relevant applications, provide feedback on performance and integration, and explore future commercial deployment. The collaboration aims to validate use cases, refine integration, and potentially transition into long-term commercial relationships.

Type of partnership

Commercial agreement with technical assistance

Type and size of the partner

- **SME <=10**
- **Big company**
- **SME 11-49**
- **SME 50 - 249**

Dissemination

Technology keywords

- **01002001 - Micro and Nanotechnology related to Electronics and Microelectronics**
- **01006006 - Radar**
- **01006009 - Signal Processing**
- **01003006 - Computer Software**

Targeted countries

- **World**

Market keywords

- **03008004 - Other electronics related (including alarm systems)**
- **03004003 - Other electronics related equipment**
- **01006005 - Other communications (not elsewhere classified)**

Sector groups involved

- **Digital**