

Space surveillance

Look Up successfully completes operational testing of its first space surveillance radar, paving the way for French and European strategic autonomy in space traffic monitoring.

- **Look Up has successfully completed operational testing of SORASYS 1, France's first space surveillance radar designed and operated by a startup, deployed in Lozère.**
- **Three years after the project was launched, Look Up has achieved a technological feat and demonstrated its ability to rapidly deploy a global network of surveillance radars.**
- **Thanks to its unique technology, SORASYS will be able to detect and track small objects, providing continuous and accurate space observation capabilities.**
- **With this first radar, Look Up is providing France and Europe with their own orbital data, marking a decisive step towards greater strategic autonomy in the key area of space surveillance.**

Paris, November 7, 2025 - Disruptive technology for space surveillance

Developed by Look Up in record time, SORASYS (SOvereign Radar System) is a new-generation ground-based radar capable of detecting and tracking small objects, active and inactive satellites, rocket parts, and debris in low Earth orbit (up to 2,000 km), where more than 90% of space traffic is located. Thanks to an innovative and modular radar architecture, consisting of a network of fully digitally controlled active antennas capable of generating sub-meter electromagnetic waves, SORASYS offers exceptional adaptability, resolution, and accuracy, while remaining insensitive to weather or light conditions. The data collected is analyzed, classified, and integrated in real time into a data fusion and global orbital situation visualization tool. This system makes it possible to accurately map space, quickly catalog objects, observe their behavior, and protect satellites from collision risks or suspicious maneuvers. As a monitoring and anticipation tool, SORASYS thus responds to the major strategic challenges facing defense, operators, and space agencies, offering perfect complementarity with French and European legacy systems.

A French technological success and a strategic milestone for Europe

A real strategic asset, SORASYS embodies Look Up's ambition: to make Europe a fully autonomous player, capable of observing, securing, and preserving space for future generations. Combined with the Synapse platform, which continuously merges and analyzes data from SORASYS and all types of external sources (optical, RF, laser), Look Up offers a powerful decision-making tool by providing information on collision risks and detecting unusual maneuvers or threats. By producing its own orbital tracking data, Look Up is helping to build European strategic autonomy, which is currently still more than 90% dependent on data from the United States.

Finally, the system is part of French and European structural programs (EU-SST, France 2030, European Innovation Council), reinforcing French leadership in the fields of Space Situational Awareness (SSA) and Space Traffic Management (STM).

Strong regional roots and global ambition

Located at an altitude of 1,200 meters in the commune of Monts-de-Randon (Lozère), the SORASYS 1 radar has received financial support from the French government as part of the France 2030 program and from the European Commission.

At the same time, following a record €50 million fundraising campaign in 2025, Look Up is preparing to deploy its next radars, SORASYS 2A "Rehua" (Sirius) and 2B "Matarii" (Pléiade) radars in French Polynesia, as well as the creation of Europe's first permanent space traffic monitoring and management capability. By 2030, the company aims to establish a global network of seven interconnected radars, positioning France and Europe among the world leaders in space security.

Juan Carlos Dolado, Chief Technical Officer and co-founder of Look Up: "SORASYS 1 is the realization of our ambition: to provide Europe with cutting-edge technology capable of observing space accurately and independently, and to provide operators with a reliable, robust, and autonomous tool. It is a founding step towards a global network of European radars and a technological feat that demonstrates our ability to deliver a leading industrial solution within tight deadlines.

TECHNICAL SPECIFICATIONS

SORASYS is a radar designed and manufactured in France, capable of detecting and tracking objects smaller than 10 cm in low Earth orbit (LEO), 24 hours a day, regardless of weather conditions:

- **Sub-meter detection** of objects down to a few centimeters,
- **Innovative architecture** for maximum accuracy,
- **High revisit rate** and **real-time** processing,
- **Modular and scalable technology** enabling the gradual deployment of a global network,
- **Native integration with SYNAPSE** for immediate data fusion and exploitation.

Some examples of applications:

- Defense and security of space infrastructure,
- Collision prevention and traffic management (SSA/STM),
- Observation and behavioral analysis of objects in orbit,
- Space insurance and risk management.

SORASYS IN LOZÈRE

Location: municipality of Monts-de-Randon (Lozère).

Function: pioneering site of the global SORASYS network, operational demonstrator, and technology testing center.

SYNAPSE

- Multi-source data fusion,
- Automatic object detection and AI-assisted classification,
- Trajectory prediction and maneuver recommendations,
- Real-time 3D interface and API for operators.

About Look Up

Founded in 2022 by Michel Friedling, former Air and Space Force General and first French Space Commander, and Juan Carlos Dolado Perez, member of the International Academy of Astronautics and former head of the Space Surveillance Department (SSA) at CNES, Look Up is a European space tech company whose ambition is to become the world leader in space security, safety, and sustainability.

Its solution is based on three technological pillars: SYNAPSE, a digital data fusion and processing solution; SORASYS, a global network of radars for detecting and tracking objects in orbit; and an integrated satellite operations management service.

Thanks to this holistic approach and its mastery of the value chain, Look Up provides end-to-end space security and operations management services, contributing to satellite security and business continuity in an increasingly complex orbital environment and uncertain geopolitical context.

For more information, visit www.lookupspace.com.

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