



PERCEPTO SPARROW AUTONOMOUS DRONE

Automated aerial perception

The most deployed drone-in-a-box solution on the market

Percepto Sparrow, an AI-powered drone-in-a-box solution, conducts fully autonomous inspection, security and emergency response tasks at industrial sites, without human intervention. The Sparrow seamlessly integrates with Percepto AIM, an end-to-end solution for remote, fully autonomous inspection & monitoring.



Field Proven

The Sparrow is the most deployed drone-in-a-box in the world, operating with the largest mining, oil & gas and energy companies in over 10 countries.



Regulation Ready

The solution is safe and trusted by regulators around the world, ensuring all safety and operational aspects are meeting regulatory and corporate standards.



AI-Powered

We go beyond data capture with our on-board, AI-powered technology for real-time, actionable insights, such as detection of operational, safety and security risks.

Trusted by Industry Leaders



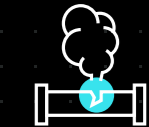
The Sparrow Drone



Human & vehicle detection and tracking



Fire detection



Gas leak detection



Mapping, modeling & measurement



Anomaly detection



Percepto Core

The on-board module guides the Sparrow to safely take off and return to the Percepto Base, and manages all on-flight tasks, powered by AI.

Industrial grade

Waterproof and weatherproof, capable of operating in heavy rain, snow, high winds and dust.

Dual payload

Equipped with a dual camera set including a high resolution day camera and a thermal camera, enabling the Sparrow to operate day and night.

Integral parachute

FAA compliant parachute for increased safety and streamlined regulatory approvals.

Drone

Technical data

Dimensions: (propeller tip; diagonal) 152 (cm)
Weight: 9.5kg
Weatherproof: IP55
Dual payload: high-res (4K) + thermal cameras
Communication: secure LTE / P2P

Percepto Base

The Percepto Base is essential for providing a truly autonomous cycle, 24/7.

As an industrial-grade, weatherproof, portable base station, it stores the drone when not in operation, protecting it, charging it, and keeping it ready to launch at a moment's notice.



Patented docking & charging mechanism



Patented landing technology



Available configuration for portable operations mode



Automatic, secure high-resolution data upload



Sheltering



Industrial grade, tested to withstand Hurricane-5 winds



Integrated weather station



Base

Technical data

Dimensions: 166W x 162D x 168H (cm)
Weight: 350kg
Weatherproof: IP56
Communication: secure LTE (4G/5G) or P2P

Highlights

Fully autonomous A full autonomous lifecycle without an on-site pilot or operator: takeoff, navigation, landing, charging, safety and self health checks.

24/7 Operations Schedule regular missions, use on-demand or dispatch in case of emergency.

Remotely operable Remote operations including scheduling, real-time monitoring of video and flight control, via cloud management platform.

Real time AI Value added applications providing operational insights.

Sophisticated yet simple to operate Fast deployment; easy to use interface for mission planning and real-time operations.

Open architecture Integrates with 3rd party systems for video streaming and bi-directional triggers.

Multi-mission Supports multiple needs, including operations, maintenance, safety, security and compliance.



Integration with Percepto AIM

Seamlessly integrated with Percepto's autonomous inspection and management solution - AIM. Joined by an array of ground and aerial robots and other visual data capture devices, it provides a fully autonomous and automatic workflow - from capture to insight, on site or remotely.

Use Cases



Key Benefits

Maximize productivity, safety and security while reducing costs



Enhance security & emergency response



Increase safety & risk detection



Optimize operations and maintenance



Streamline regulatory compliance



Percepto is the market leader in autonomous inspection & monitoring solutions. Leveraging its experience with Percepto Sparrow, the most deployed drone-in-a-box solution on the market, the company introduced Percepto AIM (Autonomous Inspection and Monitoring) the first end-to-end autonomous inspection and monitoring platform, powered by industrial robotics. Percepto empowers the remote operation center of the future to assess risk, minimize downtime, drive efficiency, increase safety and reduce operational costs. Founded in 2014, Percepto's solutions are trusted by Fortune 500 customers in more than 10 countries including ENEL, Florida Power and Light and Verizon. The company is the recipient of the Frost & Sullivan Global Enabling Technology Leadership Award.