brain corp

Hi, I am an inventory checking robot

brain os

WAREHOUSE

BrainOS® Sense Suite Subscription

BrainOS® Sense Suite Subscription

Transform your operations with the BrainOS® Sense Suite, a cutting-edge subscription service that combines advanced robotics, AI-powered analytics, and streamlined operations management. This comprehensive solution empowers your business to stay efficient, informed, and at the forefront of innovative inventory management technology.

#1
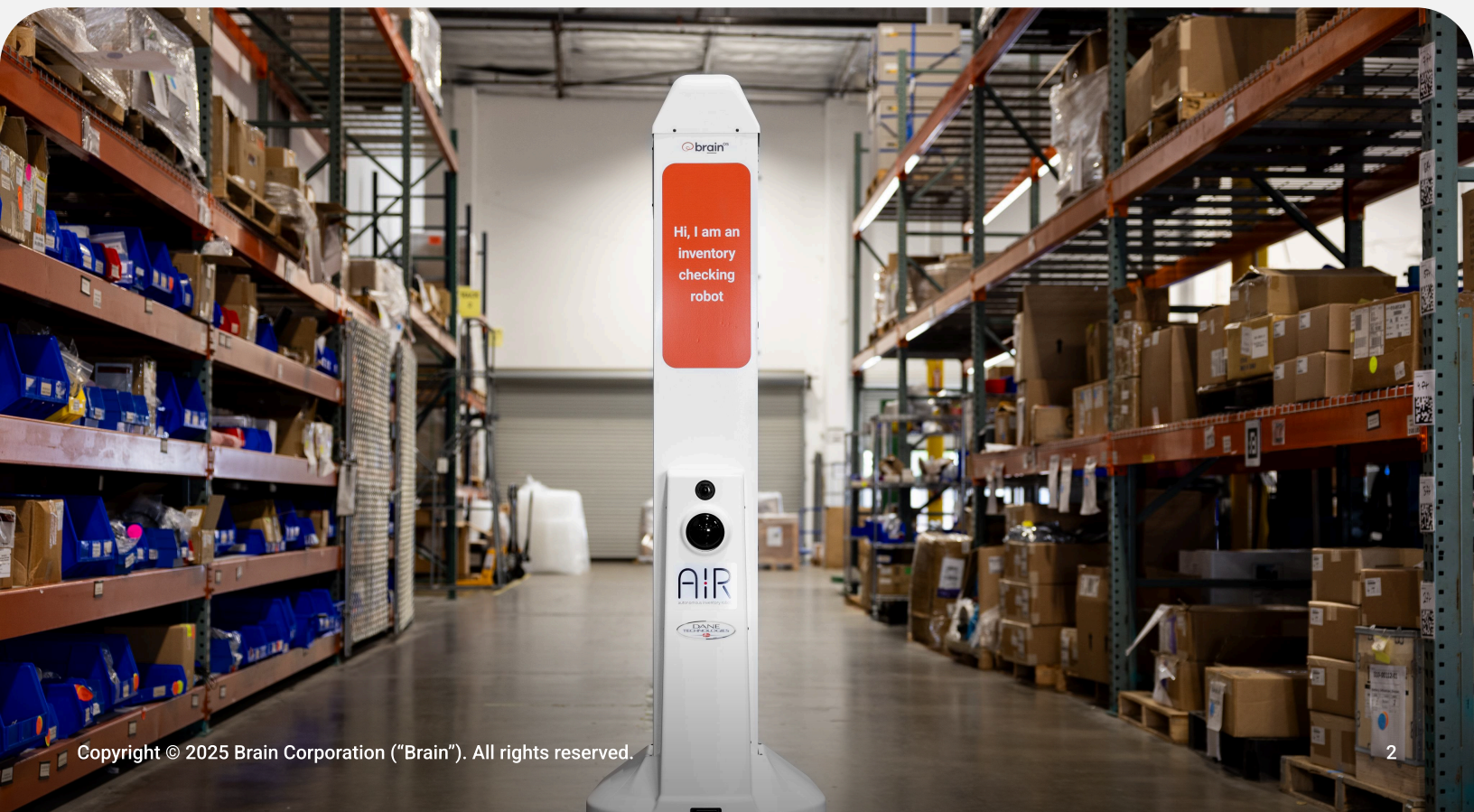in deployed robots

37K+
robots world wide
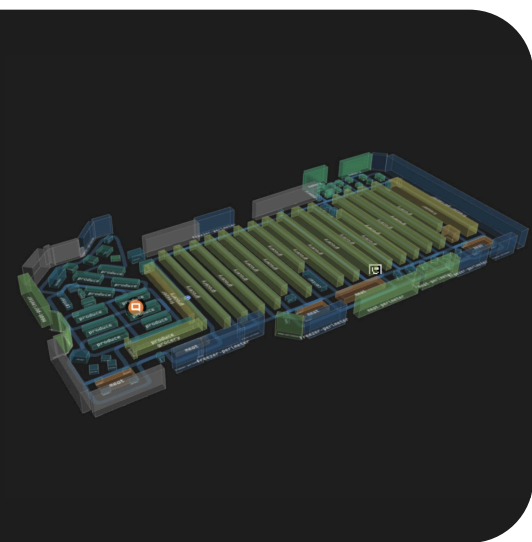
20M
images captured daily

Unlock the power of autonomous inventory robots

↗ **Optimize inventory management:** BrainOS® powered robots automate data capture and inventory counts, providing near real-time location updates to your Warehouse Management Systems (WMS). This means your team knows exactly where to find the products they need, when they need them.

↗ **Streamline operations:** Improve operational efficiency by automating repetitive tasks with autonomous mobile robots, allowing staff to focus on higher-value activities.

↗ **Enhance supply chain visibility:** Gain real-time insights into product locations, reserve stock, and back/top stock to ensure efficient stock flow and retrieval.

↗ **Improve warehouse layout and compliance:** Utilize inventory reports to optimize warehouse organization and space utilization.

↗ **Data-driven decision making:** Leverage advanced analytics and reporting features to make informed decisions on inventory levels, product placement, and operational strategies across multiple locations.

Hi, I am an inventory checking robot

Automated data capture

The BrainOS® Robotics Platform is the most mature, real-world tested platform for autonomous mobile robots. Our laser focus and rigorous approach to development ensures safety and reliability are baked into every layer of our autonomy stack.

Autonomous navigation and operations

The BrainOS® Sense Suite enables robots to function autonomously without the need for third-party software integration. It employs a combination of on-robot and cloud-based systems to deliver high-performance results. The AMR gathers data using cameras, LiDAR, and sensors to identify obstacles, determine its location, and map its environment. Proprietary onboard algorithms manage object detection, real-time decision-making, and motion planning to ensure safe navigation in complex indoor settings. Off-robot data is securely stored in Brain Corp's U.S.-based Google Cloud environment, where it is processed to refine mapping, localization, and perception algorithms for ongoing performance enhancements.

BrainOS® sensing technology

The robot leverages multi-modal data capture—integrating **computer vision, RFID, and barcode scanning**—to generate precise, localized data. It employs advanced deep learning models to detect product location, barcode tag exceptions and empty slots, delivering adaptive and progressively more effective inventory management solutions over time.
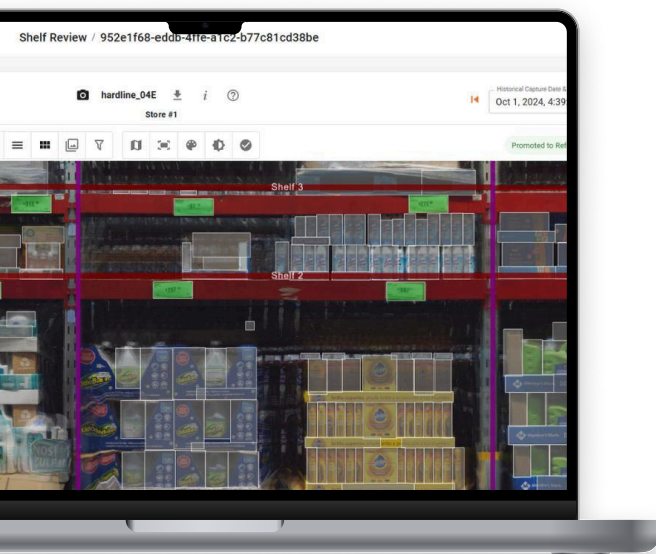

Safety and security

Safety and security are central to everything we do. Brain Corp follows "security by design" principles with annual employee training, ISO27001-aligned policies, and a focus on integrating security into every step of our software and AI development. Regular penetration testing and advanced tools like the BrainOS® Sense Suite—with its sophisticated sensors and UL-certified controller—ensure accurate data capture and reliable, secure performance.

Operations analytics

Bain Corp transforms reporting and insights with the BrainOS® InventoryAI Hub. By combining inventory analytics with autonomous robots from our Sense Suite, BrainOS® gives businesses unmatched visibility, enabling smarter decisions with real-time, accurate data.

BrainOS® InventoryAI Suite

↗ **Digital twin:** Create a dynamic, virtual replica of your warehouse layout, enabling continuous monitoring and comparison of actual inventory against digital models for enhanced accuracy and efficiency in stock tracking and product placement.

↗ **Empty slot detection:** Quickly identify missing inventory in near real-time, allowing teams to address missing inventory.

↗ **RFID-enhanced inventory management:** Automate inventory counts and depth localization through RFID-tagged item scanning, providing highly accurate, near real-time stock level reports for improved inventory control.

↗ **Pallet location optimization:** Pinpoint exact pallet locations within the facility by comparing detected positions with layout data.

BrainOS® virtual tours

↗ **Anytime remote access:** Remotely walk your warehouse floors, leave notes for teammates, revisit previous layouts, check facilities compliance—without traveling between locations.

BrainOS® Ops Management and fleet intelligence

BrainOS® Mobile

With the BrainOS® app, you're always connected to your facility, enabling rapid responses to emerging issues and opportunities.
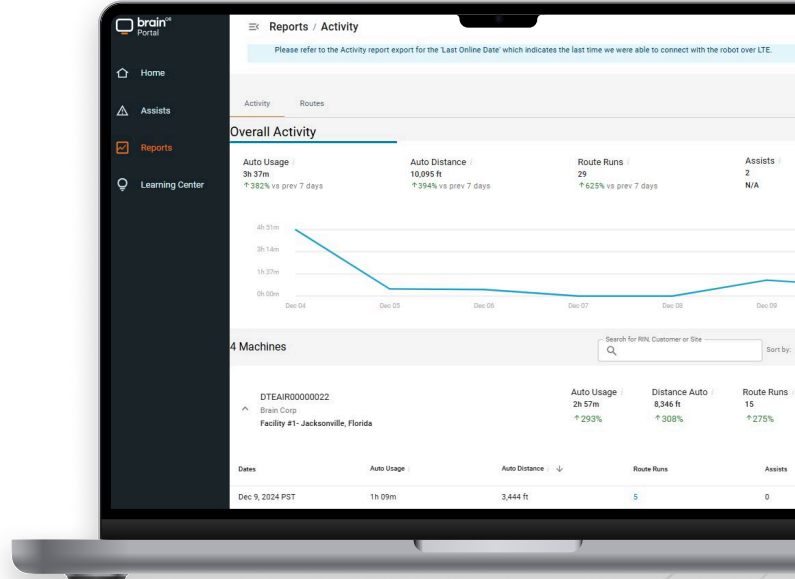
↗ **Robot & operational analytics:** Access performance indicators (KPIs) tracking hours of use and coverage.

↗ **Scanning schedules:** Easily set up and manage scanning routes for optimal performance.

↗ **Live maps:** Monitor scanning progress in real-time.

↗ **Mobile alerts:** Receive instant notifications about robot status.

BrainOS® Portal

The BrainOS® portal provides a centralized, cloud based platform to monitor and optimize your robotic scanning operations.

↗ **Data driven insights:** Understand performance and use of your robot.

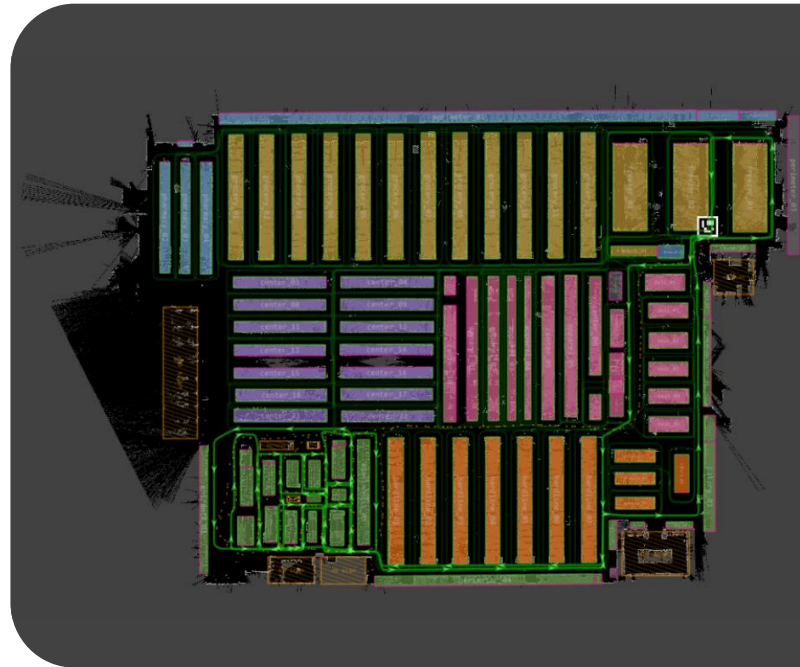↗ **Site map:** See where your robot has completed routes.

Automation services

BrainOS® Autonomy Services incorporates our advanced tooling and support crafted to steer businesses towards success throughout their complete automation journey.

BrainOS® implementation services

↗ **Frictionless deployments at scale:** Our team works with your facility manager to map the space and develop an action plan. With the support of the Customer Service team and advanced fleet management tools, large-scale automation is deployed efficiently, quickly establishing optimal scanning routes remotely so your facility can begin gaining insights within days.

↗ **Map label customizations:** Our "Annotations" guide the robot's scanning and navigation, allowing our team to tailor its behavior to your facility's unique layout. This ensures optimized scanning distances, accurate data, and customized settings for your specific rack setup.

↗ **Remote route generation:** Using proprietary software, BrainOS® generates efficient scanning paths remotely, ensuring high-quality image capture and precise data collection across your facility.
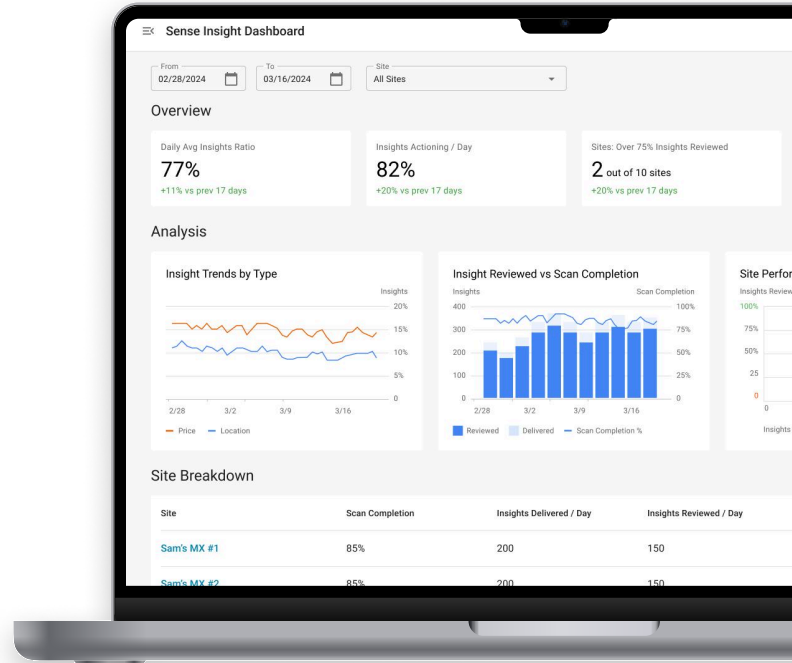
BrainOS® performance services

↗ **Remote route enhancements:** Our Customer Service team actively monitors and enhances robot routes using proprietary cloud tools, ensuring optimal functionality and peak navigational efficiency through remote adjustments.

↗ **Remote machine diagnostics:** Our team continuously monitors robot health remotely, swiftly diagnosing and resolving issues to minimize downtime and maintain optimal scanning performance.

↗ **Software updates:** Brain Corp continually implements impactful software updates remotely, consistently elevating the capabilities of both robots and AI systems to meet evolving operational needs.

BrainOS® integration services

↗ **Onsite support & training:** Our Customer Service team provides hands-on support, guiding pilot activities, delivering training, and assisting with robot operations and insights integration. Our integration services ensure seamless adoption of robotic workflows and inventory analytics into existing operations, offering ongoing on-site training and support to optimize your facility's performance.

Advanced insights and reporting features

Opt-in for advanced features designed to meet the dynamic needs of your facility.

EMPTY SLOT DETECTIION REPORT

Identify empty slots in near real-time, allowing teams to address missing inventory before it impacts operations and the supply chain.

PALLET LOCATION REPORT

Pinpoint the exact location of pallets within the facility by comparing detected pallet positions with facility layout data.

WAREHOUSE COMPLIANCE REPORT

Ensure inventory is positioned according to the facility's plan by comparing actual inventory placements to predefined standards.

LOW-FACING REPORT

Detection of low stock visibility in picking and staging areas.

RFID INVENTORY COUNT

Automate inventory counts and depth localization by scanning RFID-tagged items, providing real-time and highly accurate stock level reports.

REMOTE SITE MANAGEMENT APPLICATION

Control and monitor warehouse operations across multiple locations.

BARCODE SCANNING

Quickly scan and identify pallet locations using barcodes, allowing for accurate pallet tracking and reporting.

INVENTORY EXPIRATION

Identify expiration dates across inventory utilizing barcode scanning capabilities.

Why choose BrainOS® Sense Suite?

Unmatched scale

With millions of autonomous hours logged, BrainOS® is the most mature and tested platform in the industry.

Comprehensive solution

Access the full BrainOS® ecosystem, from robotics to analytics and support services.

Cutting-edge AI

Leverage advanced computer vision and machine learning for precise inventory insights.

Continuous innovation

Benefit from ongoing platform enhancements and new feature rollouts.

Safety first

Trust in a system designed with safety at its core, featuring advanced security measures.

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Contact us at **braincorp.com**