Automating Retail

Gaining insight, lowering operational costs and raising revenue

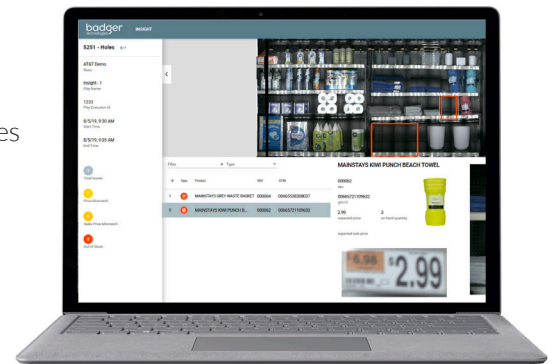## Actionable Data and Analytics for Retail Operations Through Automation

Today, global retailers lose nearly $450 billion in revenue annually as a result of out-of-stock items, empty shelves and other in-store inconsistencies.[1] Fragmented communications and lack of data between headquarters and local stores also contribute to operational inefficiencies and revenue loss. However, these gaps are within the retailers' grasp to solve by addressing the root causes of inventory and data disconnects with the implementation of technology solutions and operational efficiency improvements to eliminate these revenue-limiting issues.

The Badger® Store Execution Suite provides actionable data and analytics for retail operations through automation solutions that include a fully autonomous robot, software, store integration, maintenance and analytics. With an initial focus on solving operational issues within the grocery retail environment, the Badger Store Execution Suite is a set of service technology and process-based solutions that help improve a store's operational execution and financial performance.

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Badger® Retail inSight

Elevate your retail operations with Badger® Retail inSight and address out-of-stock, planogram compliance and price integrity issues. With Badger Retail inSight, retailers gain actionable data and analytics that provide a corporate view across stores and puts you in control of your operations by:

OUT OF STOCKS   PRICE INTEGRITY   PLANOGRAM COMPLIANCE

- Detecting holes on shelves and generating replenishment lists

- Generating powerful on-shelf availability best practices analytics across stores

- Prioritizing out-of-stock alerts with supply chain integration

- Correlating POS data to out-of-stock data, location and facings

- Ensuring center store planogram (POG) and sales plan compliance

- Addressing price integrity issues by comparing unit tags to current POG pricing

- Analyzing and leveraging CPG display compliance data

- Generating CPG managed display compliance analytics

Data storage and report generation is maintained securely in our cloud and reported back to the store through our custom dashboard or via specific integration with existing store systems. With an annual subscription, Badger Technologies® provides installation, upgrades and maintenance, offering a comprehensive reporting service.

Badger® Retail inSpect

Automate hazard detection and reporting with Badger® Retail inSpect. With Badger Retail inSpect, retailers can identify and address hazards such as liquid and powder spills, cardboard, shrink wrap, produce, coffee beans and other bulkfood items to:

- Improve audit and compliance operations

- Eliminate inconsistent performance and reporting

- Increase safety for employees and customers

HAZARD DETECTION

Providing End-to-End Retail Solutions

Badger Technologies® offers complete end-to-end solutions that includes in-store data gathering autonomous robots, onboard analytic and parsing, cloud-based applications software, store integration, maintenance and analytics. Our goal is to help retailers incorporate new technologies and embrace transformative business models through a trustworthy partner. Today's demanding and fast-changing retail environment means that more than ever you need a single, central solution that provides flexibility and scalability, enabling innovation on your schedule and in line with your budget.

Autonomous Robot

Badger Technologies' fully autonomous robot has been initially developed for the grocery retail environment to address out-of-stock, planogram compliance, price integrity, and audit and compliance issues. Our autonomous robots operate safely alongside shoppers and employees while scanning shelves. Advanced technologies include:
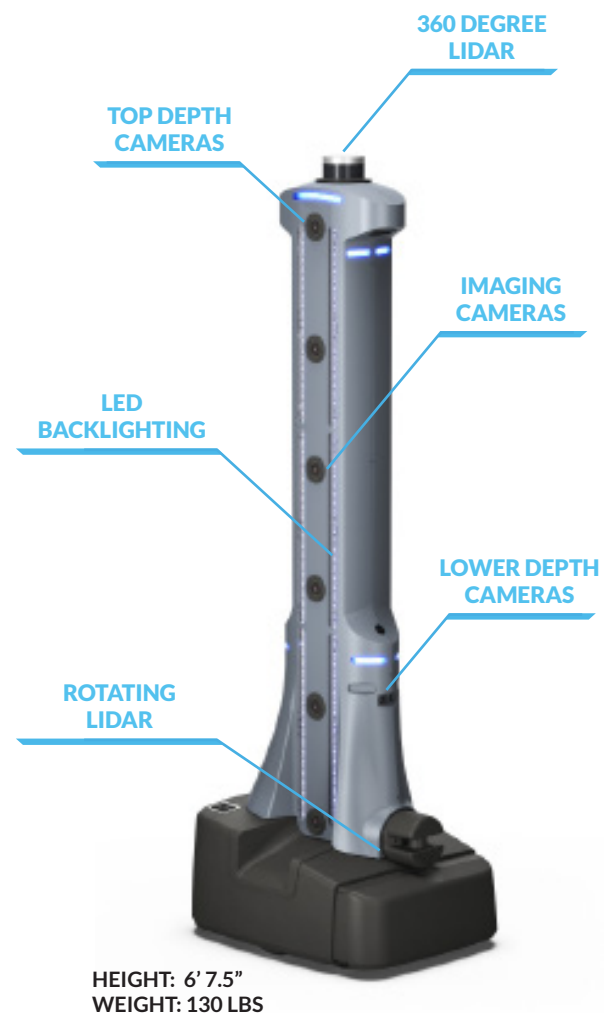
- Rotating lidar to map and navigate the store

- High resolution and 3D depth cameras for navigation and data acquisition

- Navigation sensors

- Firmware in robotics operating system (ROS)

- Modular application software architecture for custom system integration

Badger Execution Suite

A complete, connected and innovative choice, the Badger Execution Suite makes it easy for retailers to capitalize on data and actionable business analytics that provide a corporate view across stores – real-time knowledge that translates into improved store execution, lower operational costs and higher profits.

"Out-of-stocks lead to a revenue loss of 4.1% for an average retailer"

- Retailers and the Ghost Economy, IHL Group

360 DEGREE LIDAR

TOP DEPTH CAMERAS

IMAGING CAMERAS

LED BACKLIGHTING

LOWER DEPTH CAMERAS

ROTATING LIDAR

HEIGHT: 6' 7.5"
WEIGHT: 130 LBS

About Badger Technologies

Badger Technologies provides actionable data and analytics for retail operations through automation solutions that include a fully autonomous robot to address out-of-stock, planogram compliance, price integrity and other operational inefficiencies. Actionable data and business analytics translates into improved store execution, lower operational costs and higher profits. Badger Technologies offers complete end-to-end solutions, from robot and software to store integration, maintenance and analytics.

Badger Technologies is a product division of Jabil, a $26 billion global company with over 50 years of experience delivering technology, manufacturing and supply chain solutions to the world's leading brands.

www.badger-technologies.com

[1] Retail's $1.1 Trillion Inventory Distribution Problem, IHL Group

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