

Passive Real-Time Location Scanning for Retail Environments

ZoneTrace™ Passive RTLS Platform delivers continuous, automated, item-level visibility across retail environments using overhead RAIN RFID scanning. By identifying, locating, and tracking tagged merchandise in 2D space, retailers gain real-time intelligence to transform inventory management, loss prevention, merchandising, and omnichannel fulfillment.

PERFORMANCE

- > Flexible mounting height support from 10 – 50 ft
- > Rapid tag processing speed of 8 ms read intervals
- > Precise real-time location accuracy within 1.5 ft
- > PoE+ infrastructure for streamlined deployment

CORE TECHNOLOGY

- > Fixed overhead infrastructure for fully automated, real-time visibility
- > 2D identification, location & tracking of RAIN RFID-tagged assets
- > Continuous, always-on scanning capturing last known item location
- > Directional movement tracking between store zones
- > Visual dashboard with adjustable zone mapping and live overhead tracking
- > Superior read range enabling fewer devices, broader coverage, and reduced deployment costs
- > Open, standards-based platform
- > Integrated antenna + reader powered by PoE+, with drag-and-drop scalability

DEPLOYMENT ADVANTAGES

- > Minimize handheld scanning and limit manual intervention on sales floor/back room
- > Wide-area coverage from overhead vantage points
- > Hands-free automation reduces errors
- > Scales across stores and supply chain locations
- > Enables real-time visibility at enterprise-wide scale
- > Deploys quickly with minimal infrastructure requirements—plug in and map zones.





Transforming Retail with Continuous 2D Item Intelligence

ZoneTrace™ transforms how retailers count inventory, locate merchandise, fulfill orders, replenish stock, and prevent shrink—making manual processes, missed sales, and blind inventory spots a thing of the past.

Inventory Optimization

- > Real-time, automated stock counts across the store
- > Eliminate or drastically reduce manual cycle counting
- > Improve data accuracy and lower carrying costs

Loss Prevention & Shrink Insight

- > Visualize item “breadcrumb trails” across the store
- > Identify when, where, and what merchandise goes missing
- > Detect long-term shrink patterns

Omnichannel Fulfillment

- > Sell confidently across multiple channels down to the last item
- > Reduce out-of-stocks and lift overall sales

Customer Experience & Merchandising Intelligence

- > Analyze store movement trends and traffic behavior
- > Respond faster to buying trends and merchandising needs

GETTING STARTED

Interested in deploying RFID technology? Contact your Global Security Solutions representative today to schedule our exploratory assessment to discover how we can help you transform your operations.

ABOUT US

Global Security Solutions (GSS) is a trusted provider of electronic article surveillance (EAS), RFID, and integrated security solutions for retailers across the United States, Canada, and the United Kingdom. With nearly 40 years of experience, we specialize in delivering high-quality new and Certified Pre-Owned loss prevention equipment, intelligent video systems, rapid system deployments, and ongoing service support tailored to the needs of modern retail operations.