Shrink Management as a Service

Proactive. Predictive. Preventative

Shrink Management as a Service is a cloud-based offering designed to help enhance productivity, increase reliability and boost performance for a more effective Loss Prevention program.

This innovative service provides device management along with predictive analytics, to help reduce shrink, improve sales and optimize staffing. SMaaS helps reduce shrink while addressing underlying root causes with better equipment uptime and actionable insights. All connected devices are proactively monitored by dedicated remote diagnostic specialists to ensure that systems are online and functioning properly.

With its easy-to-navigate dashboards, SMaaS helps make sense of the data for early identification of problems and better decision making where it counts.

Whether the objective is to minimize shrink, increase conversion rates, optimize stock, drive employee productivity or enhance overall store performance, SMaaS provides the tools to be more effective.

Retailer Values

- Reliable and optimal system performance with 24/7 remote monitoring and management of connected EAS equipment health status for improved uptime
- Insights and analytics to help make effective data-driven decisions that may positively impact shrink and bottom line results
- Enhanced, mobile-optimized user interface permits easy access to SMaaS on any device
- Geo-mapping of Organized Retail Crime (ORC) patterns to help retailers take proactive measures to combat crime
- exacqVideo integration provides video device health monitoring and allows retailers to view video clips of incidents associated with EAS & ORC events
- Remote diagnostics and troubleshooting capabilities reduce the need for on-site service calls

- Anomaly Detection utilizes historical data and AI/machine learning modelling to predict shrink events and event outliers over a set period of time. Users can review data by store, city, and region for analysis and insight into problem areas.

A compatible Sensormatic gateway (or parent) device is required to connect, collect and send EAS data to SMaaS. These options are:
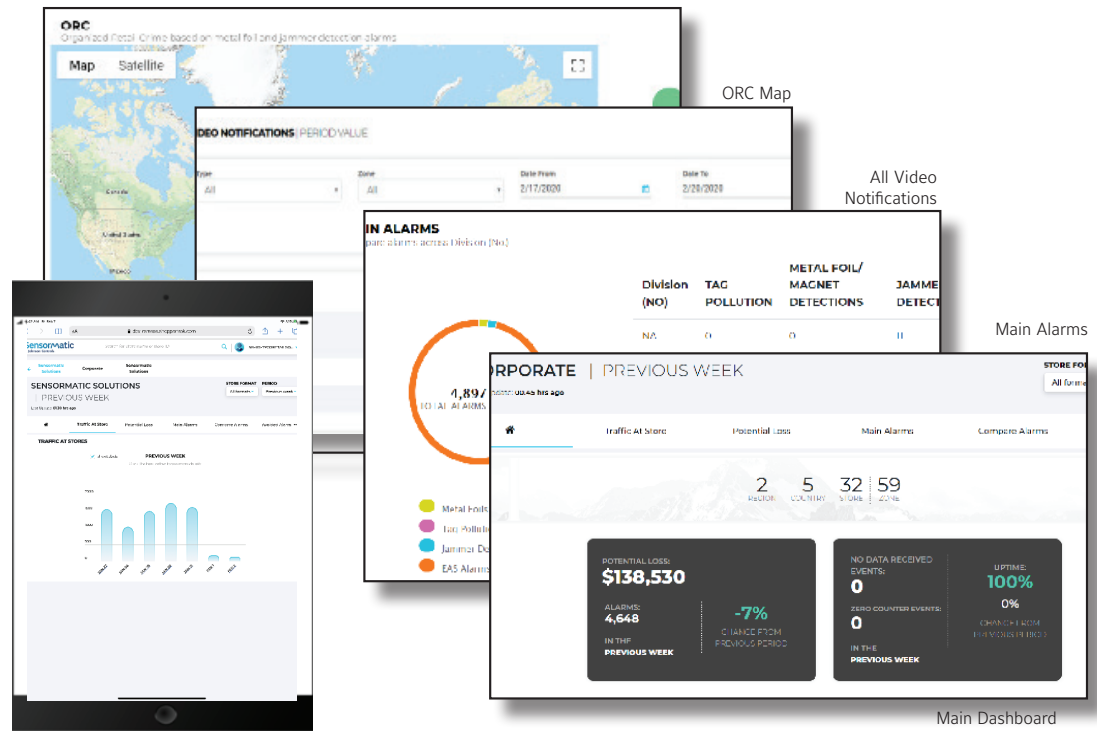- Wireless Device Manager
- Sensormatic Synergy Network Card

SMaaS Dashboards

User-friendly dashboards can be viewed by district, by region and enterprise-wide to isolate the information needed.

Below are a few sample dashboards and widgets.

ORC Map

All Video Notifications

Main Alarms

Main Dashboard

Remote System Monitoring & Diagnostic Services

PRODUCT CODES	SERVICE
SM-RDC-EXIT	Monthly Proactive Remote Service, AM EXIT Systems (per power pack)
SM-RDC-POS	Monthly Proactive Remote Service, POS Device (per device, deactivator/detacher)
SM-RDC-EXIT-RF	Monthly Proactive Remote Monitoring for RF EXIT Systems (per power pack)
SM-RDC-BIC	Monthly Proactive Remote Monitoring for Brickstream devices (per device)
SM-RDC-AMG	Monthly Proactive Remote Monitoring for Alert Metal Guard devices (per device)
SM-RDC-PC	Monthly Proactive Remote Monitoring for standalone Dual Beam/Irysis devices (per device)
SM-RDC-VIDEO	Monthly Proactive Remote Monitoring for exacqVision video devices (per VMS)

Data Reporting & Analytics Services

PRODUCT CODES	SERVICE
SM-REP-S	Monthly Reporting Access (per store: alerts, threshold settings, dashboards, notifications)
SM-REP-API	Data Export API Service (per store, included in SM-REP-S)
SM-REP-VIDEO	Video Widget Access (per store, requires SM-RDC-VIDEO)
SM-REP-ANOM	Anomaly Detection (per store, requires SM-REP-S)

Sensormatic Solutions' innovative computer vision technology delivers retail operational insights based on best-in-class deep learning Artificial Intelligence (AI) models. Our computer vision solutions are created in partnership with Intel and optimized for retail using Sensormatic IQ's proprietary AI algorithms. Each analytic is developed with our foundational pillars of retail success in-mind, driving sales, reducing risk, optimizing labor, and enhancing the shopper experience.

Computer vision automates tasks and derives meaningful information from video footage in real-time. Our wide range of computer vision analytics help you strengthen your loss prevention efforts, gather insights for improved shopper experiences, and maintain a safe environment for both shoppers and associates.

Easy to deploy and powerful, computer vision analytics leverage your existing video infrastructure and a smart hub appliance to tap into the data you need to open-up a world of problem-solving solutions across the retail expanse. All analytics are presented in a one-stop, consolidated dashboard for easy access to key metrics.

Retailer Value
Meaningful, Impactful Insights
Real-time insights on retail specific use cases help you make informed decisions and take a more proactive approach to problem solving.

Future-focused, Dynamic and Scalable
Analytics can be easily added and removed to help you focus on what is most important to your changing business needs. New analytics are continuously being developed to address top-of-mind retail challenges.

Easy to Deploy
Cost effective and easy to deploy and leverage your existing camera infrastructure and a smart hub device.

Monitors Activity so you Don't Have to
With computer vision technology, tasks are automated and monitored to look for specific activities or items.

Key Insights
Measurable Loss Prevention Outcomes
With shrink and organized retail crime activity on the rise, retailers are looking for ways to combat these threats while optimizing in-store labor usage. Our comprehensive suite of computer vision analytics can play an important role in loss prevention and in keeping an environment safe and

secure. Computer vision analytics are developed specifically to address some of the most critical loss prevention issues today. Examples of some of the analytics available to help strengthen your loss prevention activities include:
- Group Detection Alert
- Loitering Monitoring
- Shelf Sweep Detection
- Slip & Fall Detection
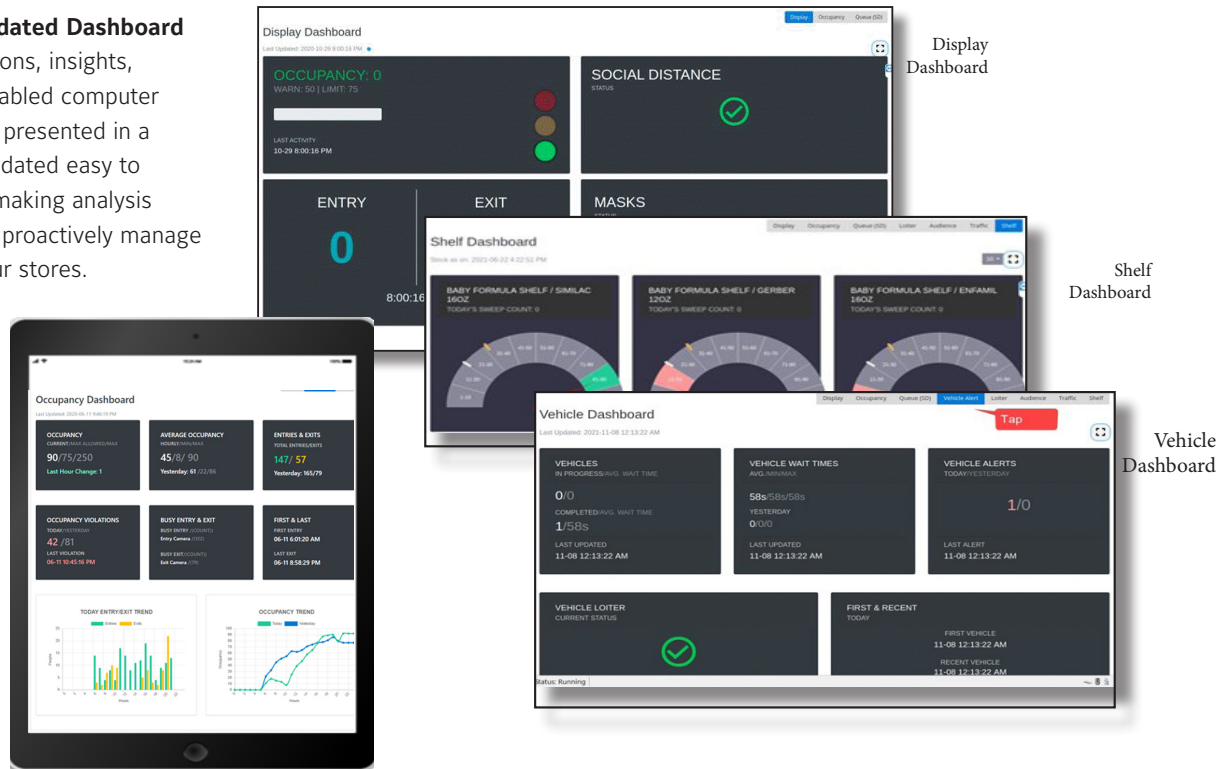- Vehicle Alert

Meaningful Shopper Insights
To stay ahead of the competition and provide shoppers with an outstanding in-store experience, retailers are always looking to better understand shopper behavior and the shopper journey. With this information in hand, retailers can create the ideal environment and develop appropriate marketing plans that ultimately lead to increased sales. Our growing list of computer vision analytics can help you get a better handle on shopper traffic patterns, path to purchase, and even demographics and sentiment of shoppers visiting your stores. Some of the computer vision analytics include:
- Audience Measurement
- Dwell Time Measurement
- Line Queue/Social Distancing Monitoring
- Occupancy Tracking
- Traffic Pattern Insights

Computer Vision Dashboards

One-stop Consolidated Dashboard
Real-time notifications, insights, and alerts on all enabled computer vision analytics are presented in a streamlined consolidated easy to access dashboard making analysis simpler so you can proactively manage key activities in your stores.

Display Dashboard

Shelf Dashboard

Vehicle Dashboard

HARDWARE REQUIREMENTS

- Minimum one camera
- Cameras must be ONVIF compliant with an RTSP stream at 5fps 640x480 minimum
- Smart Hub appliance (required size based on number of use case packages deployed in-store)

Computer Vision Analytic	
Product Code	Description
RV-AGNT-LIC	Computer Vision analytic-subscription per month

Smart Hub Appliance		
Product Code	Description	Solution Capacity
RV-SMHB-2A	Atom E3950 4GB RAM 64 GB eMMC w/1xAI Core X-Myriad X VPU. Linux OS + Computer Vision software	2
RV-SMHB-3A	Pentium N4200 8GB RAM 64GB eMMC w/Myriad x VPU AI Core X, 2.5" 128GB HDD/SSD Chassis w/Cooling Fan. Linux OS + Computer Vision software	3
RV-SMHB-8A	EC.i5-7300U HDMI VGA 2LAN 4USB3 4COM 2Myriad X VPU 16G DDR4 128G SSD. Linux OS + Computer Vision software	8
RV-SMHB-16A	Intel Core i3-8100T Processor 2PCIe x 4 and 2PCIe x8 slots 4HDD bays 16GB RAM. Computing Accelerator Card with 8x Movidius Myriad X VPU. Linux OS + Computer Vsion software	16
RV-SMHB-24A	Intel Core i7-8700T Processor 2PCIe x 4 and 2PCIe x8 slots 4HDD bays 32GB RAM. Computing Accelerator Card with two 8x Movidius Myriad X VPU. Linux OS + Computer Vision software	24