



SECUROS CARGO

Cargo Container Recognition



SecurOS CARGO is an intelligent video analytics module for the SecurOS video management platform providing recognition of cargo container ISO codes in a variety of applications. It implements the most advanced native image processing software, the ISS SecurOS framework, and advanced algorithms for the recognition of codes on cargo containers.

SecurOS CARGO provides a number of unprecedented advantages for users, including the ability to recognize codes on cargo containers from numerous sides. By developing a container code recognition solution that integrates with cargo management processes at port, intermodal, and logistics centers, SecurOS CARGO can dramatically improve throughput and turnaround time, reduce liability, and be utilized to better locate and track containers in large facilities. To further the ability to manage the security of a facility, the automated system can also incorporate facial and license plate recognition, along with tracking capabilities, for a more comprehensive search and report.



SECUROS
PREMIUM



SECUROS
ENTERPRISE

Compatible with ISS SecurOS
Premium and Enterprise

Technology Overview

Hardware-agnostic System

No specialized cameras or other hardware is required. System is hardware-agnostic.

Complete Logistics Management Solution

SecurOS Cargo can run on the SecurOS VMS platform alongside other ISS modules such as SecurOS Auto and Face. With the ability to integrate with other devices such as weigh scales, SecurOS Cargo can provide a complete logistics management solution.

Varying Recognition Environments

System can support a number of different recognition environments including: truck, crane, forklift, as well as use of hand-held devices.

ISS Native Technology

SecurOS Cargo is a completely ISS-native technology, making it easy to tailor our solution as per our clients' needs.

Advanced Recognition Engine

System recognizes container ISO codes printed horizontally or vertically, on the top, side, or back of the container.

Result Consolidation

If multiple cameras are used (e.g. both sides and top of container), system will consolidate results into one best result. Also video from all the cameras will be time synced and easily available for playback and export.

Applications

- Airport / port customs
- Container yards / depots
- Logistics management
- Customs borders
- Inspection stations



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Key Features

Smart Search

Partial text/wildcard search for container codes against watchlist/external databases.

Advanced Search Data

Search results will include snapshots of recognized code, video sequence, and information of camera, time, date, location, and direction of container passing.

Watchlists

Add container codes to local watchlists (black, white, info), and set custom alarms for matches against the watchlist.

External DB Connectivity

Seamless connection to external databases, including prohibition/permission of pass, automatic notification regarding pass of container with flagged code.

System Automation

Provides advanced reaction capabilities and automatic operator notification based on container code recognition and/or comparison with information from a database/watchlist.

Reporting Tools

Quick report generation of the container(s): print frame and information about the recognized container code(s).

Direction Detection

Includes standard feature for container direction detection.

Third-Party Equipment Integration

System integrates with most third-party equipment and devices such as gates, weigh scales, and more.

SDK Support

SDK available for integration with third-party applications and can be used to feed data to third-party applications such as port management software.

Specifications

| ISS Platform Support | |
|-----------------------------------|---|
| Supported Operating Systems | Windows 7, 8, 8.1, 2008 R2, 2012 R2, (32/64 bit) |
| SecurOS VMS version support | SecurOS Premium SecurOS Enterprise |
| Container Specifications | |
| Container types | 10, 20, 40 feet |
| ISO Standard | ISO 6346 |
| Supported Video and Image Formats | |
| IP | MJPEG, MPEG4, H.264 |
| Analog | NTSC, PAL |
| Image formats | JPEG, PNG, BMP |
| Additional Technical Data | |
| Minimal required resolution | 640 x 240 (more than 800x600 not required) |
| External databases supported | Any database with Windows ODBC drivers |
| System output | Camera name / ID Recognition result Container tracking timestamps Container number track ID Quality of recognition result Container direction Container ISO code location in image Internal / External watchlist match info Container speed (optional) Snapshot of whole frame / container / ISO code (optional) |

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