SecurOS TRANSIT is an intelligent image analytics module for the ISS SecurOS video surveillance framework which provides character recognition of carriages, trains, tankers, and platforms.

SecurOS TRANSIT is an effective tool for registration of railway vehicles at shunting-yards, seaports, and customs terminals, as well as for the control of containers and deliveries to industrial enterprises, storehouses, etc.

**FUNCTIONALITIES**

- automatic carriage number recognition of moving train in real-time
- forming video-archive as still image / video clips of separate carriages or whole train
- forming database of carriage numbers, date and time of travel, direction, serial number of a carriage, number of carriages, average speed in control area
- information search in video-archive and database on given characteristics: date and time of pass, carriage number, camera name or number
- automatic comparison of carriage numbers with information of internal or external database

**CONVENIENCE OF USE**

- convenient graphical user interface
- wide spectrum of user’s functions: export video to AVI/JPEG, print of files or e-mail, digital zoom, adjusting color and contrast, remote control by video cameras, display video in real time and work with archive, etc.
- event and scenario management
- robust analytics and forensic capabilities

**FIELD OF APPLICATION**

- automatic registration and the control of railway vehicles
- check formation of railway vehicles and definition of railroad car types
- comparison of railway vehicles numbers with database, detection of railroad cars without numbers
- automatic counting of railroad carriages
- control and registration of cargoes
- commercial check of railroad cars
- check integrity of cargo in open railroad car or at platform, control of cargo position on transport platforms
- visual control of railroad cars: check of integrity of railroad car body, presence of seals on locks
- check conformity of cargo data
- collection of statistical data
**INTERTERABILITY**
integration with components of integrated security systems, automated enterprise control systems, software and information systems, external databases, manufacturing equipment and electronic weights & sensors

**SCALABILITY**
ability to organize geographically distributed systems
simultaneously work with multiple video channels
support for data transfer over low-speed network infrastructure
organization of common database with multiple operator and administrator workstations with different access rights

**METRICS**

<table>
<thead>
<tr>
<th>Metric</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Allowable speed of movement in detection zone</td>
<td>up to 60 km/h (36 mph)</td>
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<tr>
<td>Recognition accuracy in daylight / at night with artificial illumination greater than 50 lux</td>
<td>95% / more than 90%</td>
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<tr>
<td>Width of the zone under control</td>
<td>from 5m to 10m</td>
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<td>Camera installation height</td>
<td>from 2m to 4m</td>
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<tr>
<td>Allowable angle of view from camera towards the surface with number (vertical / horizontal)</td>
<td>up to 45° / up to 10°</td>
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<tr>
<td>Distance from camera to the surface with number</td>
<td>30m max / 5m - 8m optimal</td>
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<td>Volume of wagon frames database (for 100GB HDD)</td>
<td>up to 10 million depending on compression level</td>
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<tr>
<td>Time of processing of one still frame (recognition &gt; comparison &gt; storing in database)</td>
<td>less than 0.0025 sec</td>
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<tr>
<td>Data transfer capabilities (for networking configurations)</td>
<td>any network supporting TCP/IP</td>
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**FLEXIBILITY**
adjustment of system reaction and operator notification (audible sound, phone, e-mail) in case of discrepancy between number recognition and database or identification of unusual events

cameras may be placed above railway for automatic control of presence/absence of cargo

fast adaptation according to features of object and requirements of the end user

adjustment for work with legacy video cameras

For more information, please contact your local dealer:

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