INTELLECTUAL SECURITY SYSTEMS
OF TRANSPORT OBJECTS
INTERNATIONAL EXPERIENCE
Innovation process of Surveillance technologies

<table>
<thead>
<tr>
<th>Year</th>
<th>Technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>1950</td>
<td>Tube Camera</td>
</tr>
<tr>
<td>1960</td>
<td>1st VP Camera</td>
</tr>
<tr>
<td>1970</td>
<td>1/2” CCD Camera</td>
</tr>
<tr>
<td>1980</td>
<td>PTZ Dome Camera</td>
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<tr>
<td>1990</td>
<td>1st SD Camera</td>
</tr>
<tr>
<td>2000</td>
<td>Super Dynamic, HDR, NwDR</td>
</tr>
<tr>
<td>2003</td>
<td>ICV Cloud</td>
</tr>
<tr>
<td>2006</td>
<td>HDD Recorder</td>
</tr>
<tr>
<td>2008</td>
<td>Network Recorder</td>
</tr>
<tr>
<td>2011</td>
<td>Quad Unit</td>
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</tbody>
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Spain France Japan

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Main factors for functional security solution

- Safe, and Stable operation
- Cost efficient operation
- Various revenue opportunities
- ECO conscious operation

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Cost effective solutions

Normal mode Using VIQS

Bandwidth & storage size

Less data size

The reduction effect: 25%

VIQA area 1
Higher resolution

VIQS area 2
Higher resolution

Other area
Lower resolution
Cost effective solutions

Competitive Camera
6 cameras in the train

Wide Angle Camera
2 cameras in the train

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Solution with CCTV and digital signage

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Smart solutions for transport

1. Registration in database

2. Position tracking
   - Pass the object from one camera to another

3. Time
   - Place
   - Face detection alarm
   - Alarm!
Reliable solution for different conditions

- More than IP66
  - Water & Dust resistant
- Anti-Humidity Dehumidification Device
- Rain wash coating
- -50 to +55 Celsius
- Reliable mechanism
  - 3.7 million rotation test

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Product reliability
Cooperation with Russian Companies
...Thank you

for your kind attention!

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