



# NiceVision® Intelligent Video Solutions for Public Transportation

SMART VIDEO  
PROVEN VALUE

## PUBLIC ACCESS OR PUBLIC SECURITY?

How can CCTV be used to help maintain public safety and security while keeping open access to trains, metro and bus systems? When incidents do occur, how effectively can police and security staff investigate the masses of CCTV recordings to pinpoint suspects and create evidence?

NICE is at the forefront of developing smart video technology for a wide range of security applications. Our unique video security methodology and video analysis tools enable CCTV systems to be more effective in detecting potential security threats and rapidly investigating security incidents.

The result: Security staff can be refocused on dealing with security incidents rather than passively monitoring hundreds or thousands of cameras and police can gather vital criminal and anti-terrorist intelligence more quickly and effectively.

## PUBLIC TRANSPORTATION VIDEO SURVEILLANCE CHALLENGES

Public transportation CCTV surveillance systems include many distributed locations, high densities of passenger traffic and multiple environments (trains, buses, bridges, tunnels, etc.) which typically result in a large number of CCTV cameras and monitors being deployed.

This creates two major video surveillance challenges:

- The real-time monitoring challenge: The ability of security staff to effectively monitor and detect security alerts in real time is compromised if they are asked to passively scan too many cameras and monitors.
- The investigation challenge: After a security incident has occurred, it can be very difficult and time-consuming to search through the huge amount of unstructured information captured by hundreds or thousands of cameras.

## TECHNOLOGY TO ADDRESS THE CHALLENGE

NiceVision video technology includes advanced filters and tools that can rapidly analyze multiple video streams to provide detailed insight into the thousands of interactions that are being captured and recorded by a CCTV system.

### Advanced Analytic Filters – for Rapid Investigation

There are four levels of filters that help to highlight and prioritize the recorded video:

- **Movement filters:** These select video footage that includes the movement of objects like people, cars or trains. These filters allow sensitivity to direction of movement, as well as to the area of movement within the field of view of each camera.
- **Abnormal Behavior filters:** These automatically show only suspicious abnormal behavior; for example people running, jumping, bending down or forming crowds.



- **Threat Detection filters:** These identify pre-defined suspicious situations such as people loitering, intrusion into rail tunnels, tampering with the track, vehicles blocking critical access points or bags left unattended.
- **Face Detection filters:** These automatically create a “photo album” of people’s faces as they pass a camera, using high-resolution cameras to capture high-quality static images while video is also being captured at CCTV quality.

### Threat Detection Applications – for Smart Monitoring

NiceVision provides a range of threat detection applications that can be used to automatically scan all or part of a CCTV camera’s field of view, detect potentially suspicious events and alert the operator in real time, thus enabling fast, informed decision-making.

- Unattended Baggage
- Vehicle Detection
- Intrusion Detection
- People Counting/Line Control
- Counter-Flow Detection

### Advanced Architecture

NiceVision delivers an advanced architecture that has been developed over many years to handle the toughest operational requirements and yet still provide a cost-effective, reliable solution.

- **Ease of Use:** NiceVision has been designed to make the most frequently needed operations simple and easy, adapting to the varied skills of security staff.
- **Integrated Solution:** All key components of the NiceVision system have been developed by a single vendor – Recording, Transmission, Video Analytics and Management. This ensures performance, reliability and maintainability.
- **Flexible Levels of Service:** NiceVision’s advanced transmission capability supports simultaneous live video streams at different Levels of Service to different users using different bandwidths, while recording at any other Level of Service. This ensures network bandwidth is used efficiently and in proportion to user needs.
- **Reduced Total Cost of Ownership:** NiceVision has the highest density platforms available in the market and combines high image quality with reduced storage by using MPEG4 Main Profile, which offers a storage saving of ~20% over MPEG2 and ~80% over MJPEG.

## CONTACTS

Global International HQ, Israel, T +972 9 775 3777, F +972 9 743 4282 • Americas, North America, T +1 201 964 2600, F +1 201 964 2610  
EMEA, Europe & Middle East, T +44 8707 224 000, F +44 8707 224 500 • APAC, Asia Pacific, T +852 2598 3838, F + 852 2802 1800  
www.nice.com

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