SmartFace for Public Security helps you prevent security incidents from happening by leveraging state-of-the-art computer vision technology. Unlock the hidden potential of your existing surveillance system so it can detect and recognize human identities and a variety of objects. Issue instant alerts and notifications, record incidents, and make them searchable and actionable.

Machine Learning-Based Video Processing

With a proven track record of delivering biometric projects globally for various government and enterprise customers, Innovatrics face recognition ecosystem supports various use cases and deployments options.

Accurate face identification in real time and user interface enables you to timely intervene or prevent security incidents at airports, shopping centers, public transportation, or any other public areas.

- Accurate face recognition
- Face detection
- Appearance detection and tracking

Watchlists and Notifications

Our easy-to-use watchlist management helps prevent security incidents by swiftly blocklisting unwanted persons and sending alerts about their presence. Instant notifications for a detected and matched person or body minimize the time to action.

- Multiple watchlists and autolearn
- Smart notifications

Review and Investigate with Video Analytics

Solving a security incident or searching for a suspect entails browsing over a large quantity of video files and images. SmartFace History view with robust filtering and search functionality provides powerful insights into entity relations that would otherwise stay hidden.

- Records filtering
- Search by face
## SmartFace Platform

SmartFace detects and tracks faces in parallel video streams from multiple IP cameras without compromising speed and accuracy. The power of our high-quality facial recognition algorithms supports any instant identification scenario for access control, surveillance, video investigation, and other purposes.

### Hardware Independent

**HW & SW Requirements**

- **Operating system**
  - Windows Server 2016 (x64),
  - Windows Server 2019 (x64),
  - Windows 10,
  - Linux (any distribution supporting Docker containers),
  - Nvidia Jetson Xavier NX
  - and Jetson AGX Xavier

- **Database**
  - Ms SQL Server 2016+
  - PostgreSQL 13.2+
  - Minio DB

- **Sizing recommendation**
  - Minimum 2 GB for SmartFace + approx.
  - 10 MB/camera/day

- **Supported cameras**
  - All IP cameras supporting RTSP
  - Web cameras
  - Mobile phone cameras

- **Supported video formats**
  - All standard video formats

- **Supported GPU**
  - CUDA compatible, min. 4 GB RAM

### Sizing Recommendations

- **RAM per camera**
  - 3 GB

- **CPU per camera**
  - 1x 2.6GHz CPU physical core

- **Bandwidth per camera**
  - 4 – 8 Mbps

- **Multiple faces tracking**
  - Yes

- **1 HD camera (1280x720 px), 25fps**

### Integration

- **Interface**
  - REST API, OData API, GraphQL API

- **Message notifications**
  - ZeroMQ

### SmartFace Features

- **Multiple video streams processing**

- **History preview and Face search**

- **Watchlists and notifications**

- **Hardware Agnostic**