INNOVATRICS

SmartFace

One-pager

Biometrics for Public Security

Video Analytics for Preemptive Security

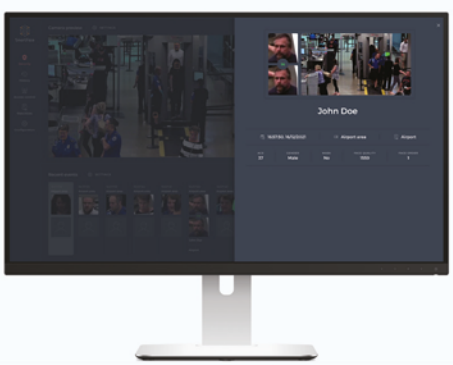
SmartFace for Public Security helps you prevent security incidents from happening by leveraging state-of-the-art computer vision technology. Unlock the hidden potential of your existing surveillance system so it can detect and recognize human identities and a variety of objects. Issue instant alerts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

Hardware & Software Agnostic

SmartFace can run anywhere on Windows Server solutions, Linux and Jetson devices. It supports all IP and USB cameras or video files as an input and enables deployment on embedded and OEM devices.

As such, you can either centralize stream processing, or process each camera at/near its location and only transfer notifications, which dramatically lowers network requirements.

Our solution does not require a GPU, but can also utilize it to increase performance and run on as many devices as possible.

NVIDIA

Windows

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+, Postgre SQL 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*
3GB

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

SmartFace Features

Multiple video streams processing

History preview and Face search

Watchlists and notifications

Hardware Agnostic

INNOVATRICS
building a world of instant trust

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