



Face Detection
and Tracking

Real-time
Identification

Demographic
Analysis

SMARTFACE

Plug & play face recognition



SECURITY AND SURVEILLANCE



ACCESS CONTROL



RETAIL ANALYTICS

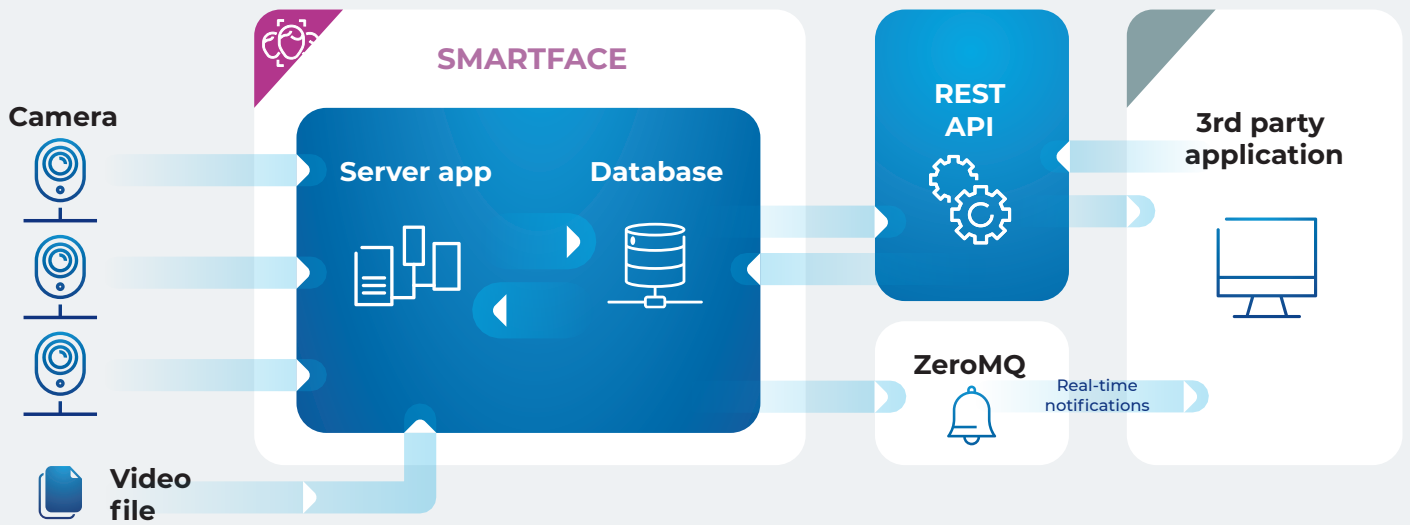


LOYALTY PROGRAMS



SMARTFACE

SmartFace is a high-performance, scalable, face recognition server platform able to process multiple real-time video streams in parallel. Leveraging Innovatrics' industry leading algorithm, SmartFace allows system integrators to easily incorporate face recognition into their solutions.



Key Features



FACE DETECTION & TRACKING

Detects and tracks faces fast and accurately in multiple video streams



REAL-TIME FACE IDENTIFICATION

Quickly identifies faces from watchlists; designed to send automated real-time alerts



AGE & GENDER DETECTION

Estimates age and gender, augmenting people counting data with advanced demographics



WATCHLIST MANAGEMENT

Easy-to-configure watchlist management through REST API and GUI



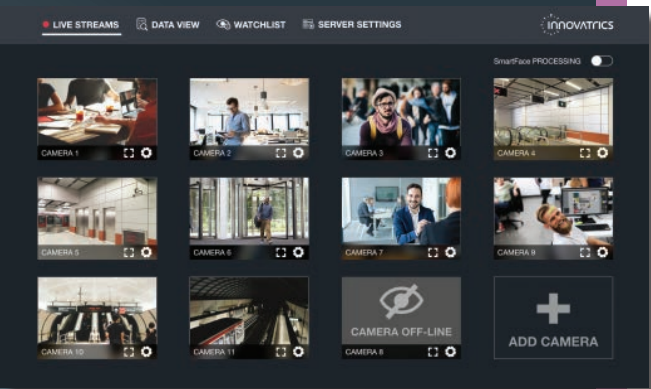
MULTIPLE IP CAMERA PROCESSING

Manages multiple camera streams per server without compromising speed or accuracy



HARDWARE INDEPENDENT

Operates with wide range of IP cameras and server platforms

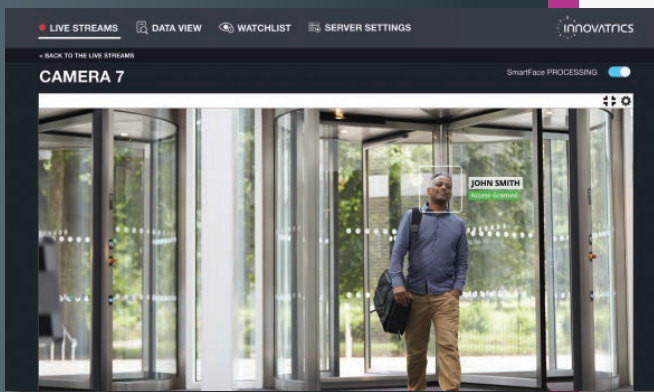


Security and Surveillance

Real-time facial identification

Monitor large groups of people and rapidly identify potential security threats at airports, public gatherings, or sports arenas using real-time face detection and blacklist check.

- ✓ Multiple watchlists
- ✓ Blacklist monitoring
- ✓ Multiple face detection and tracking

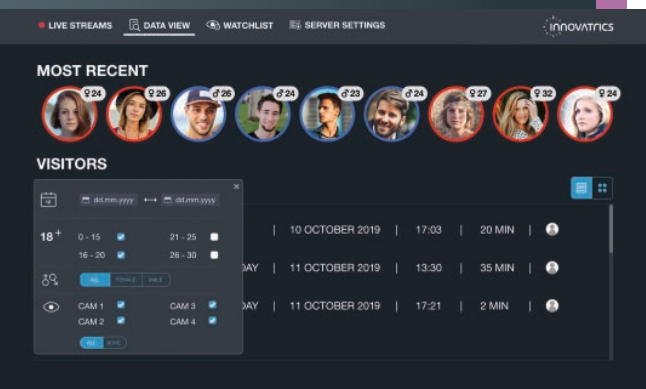


Access Control

Constant people and property protection

Provide a safer environment for your employees and visitors by using facial biometrics to control access and accurately monitor individuals on your premises.

- ✓ Seamless access
- ✓ Real-time identification
- ✓ Multiple face detection and tracking

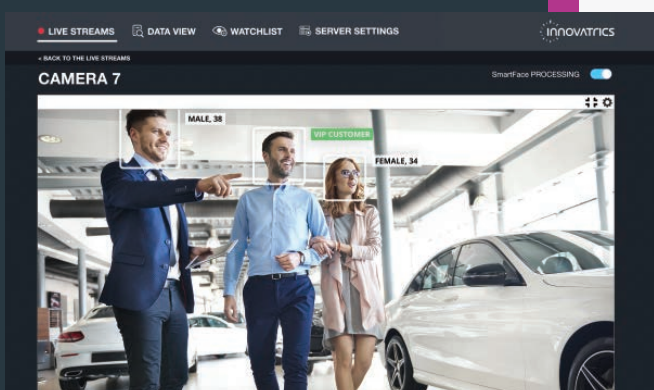


Retail Analytics

Marketing data collection for the retail sector

Carry out comprehensive analysis of in-store customers using facial biometrics to provide demographic information. Easily analyze how many people enter retail premises, time spent in-store, gender split, age demographics, and much more. Build up a profile of customers and calculate visit frequency, conversion rates, seasonal trends, and outliers.

- ✓ Statistical analysis
- ✓ Unique visitor counting
- ✓ Age & Gender detection



Loyalty Programs

Improved VIP customers experience

Improve your VIP customer experience utilizing facial recognition. Identify key clients and customers immediately after they enter your premises and provide them with special services. Automatically create lists of return customers and reward the right ones accordingly.

- ✓ Real-time identification
- ✓ Dedicated VIP watchlist
- ✓ Real-time notifications



TECHNICAL SPECIFICATIONS

HW & SW REQUIREMENTS

Operating system:

Windows Server 2016 (x64), Windows 10

Database:

MS SQL Server 2016 +

Storage:

Minimum 2 GB for SmartFace + approx. 10 MB/camera/day

Supported cameras:

All IP cameras supporting Real Time Streaming Protocol

Supported video formats:

All standard video formats

Supported GPU:

CUDA compatible, min. 4 GB RAM

SIZING RECOMMENDATIONS

RAM per camera*:

4 GB

CPU per camera*:

1x 3 GHz CPU physical core

Bandwidth per camera*:

4–8 Mbps

Multiple faces tracking:

Yes

*1 Full HD camera (1920x1080), 25 fps

INTEGRATION

Interface:

REST API

Message notifications:

ZeroMQ



Industry-leading Technology

Innovatrics face recognition technology is a top performer across all categories in **NIST Face Recognition Vendor Test (FRVT)**.