INNOVATRICS

SmartFace

One-pager

SmartFace Facial Identification Service

1:N Face Search and 1:1 Face Match On-the-Go

SmartFace Facial Identification Service utilizes Innovatrics' lightweight facial recognition technology to detect, identify, and/or verify faces from image inputs. It is a practical solution for scenarios where rapid, on-the-go 1:N facial identification is required.
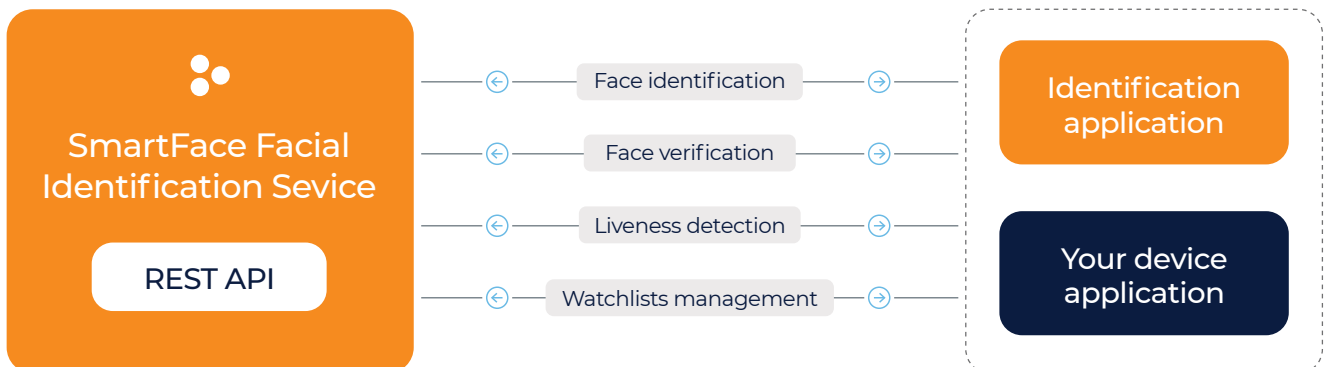
In dynamic situations, a reliable 1:N facial identification solution is essential without the complexity of installing PC/server units or edge devices to process video streams. Tailored for temporary events, field solutions, and remote identity checks, SmartFace Facial Identification Service seamlessly works with commonly used hardware devices such as smartphones, tablets, smart glasses, and kiosks.

On-the-Go 1:N Facial Identification

SmartFace Facial Identification Service processes only single facial images on the server and returns real-time identity information on individuals, making it ideal for remote areas and locations with limited network infrastructure. The scalable identification service server can process facial crops or images with multiple faces, providing prompt identity details or face verification results.

Simplified Deployment and Hardware Cost Savings

SmartFace Facial Identification Service offers an easily deployable solution, eliminating the need for extensive hardware installations and data transfer compared to the traditional transfer of a full video stream. With the capability to function seamlessly via REST API either on-premise or in the cloud, it ensures instant responses with accurate results.

SmartFace Facial Identification Sevice

REST API

- Face identification
- Face verification
- Liveness detection
- Watchlists management

Identification application

Your device application

Ready-to-Use Identification Application

SmartFace Facial Identification Service comes with a straightforward identification application allowing the creation of multiple watchlists and enrollment of users directly via any mobile or PC device. It can also be used for on-the-go face identification.

Featuring Liveness Detection

Whether a user's identity during remote enrollment needs to be verified, or an identification service be deployed on an unsupervised kiosk, Innovatrics' proprietary passive liveness detection will provide the highest security. The technology ensures that only genuine users are allowed to be enrolled in the database or granted to enter premises or services.

Bring Your Device Strategy

To take a picture of an individual's face, various hardware devices can be used at access or security points. Be it geographically distributed payment kiosks, augmented reality glasses, or smartphones, they all can be used for applications ranging from public security and airport monitoring to attendance systems and automated payment solutions.

Supported camera devices:

- Android/iOS tablet/smartphone's built-in camera
- Windows/Linux PC camera
- Vuzix Blade smart glasses built-in camera (with on-device visual notification)

Key features:

- Face verification 1:1 and face identification 1:N with liveness check
- Unlimited number of watchlists and face registration
- Web application for watchlist management with ready-to-go identification
- Service-based architecture
- Multi-tenancy available
- Vertically and horizontally scalable
- Security management (Auth0)
- On-premises and cloud deployment ready

Wearables
Augmented security

Kiosks & Terminals
Events, Buildings, Client centers

Mobile devices
Remote identification

Tech Box

Integration interfaces: REST API

Supported OS: Linux   Windows

Distribution: Docker compose   Kubernetes – helm charts

HW support: CPU   GPU

Supported DB: PostgreSQL   MS SQL Server

Images DB: S3 compatible data storage (MinIO)

Preferred inputs: PNG   JPG/JPEG

Observability stack: Grafana   InfluxDb   Loki   Telegraf

innovatrics

We are an independent EU-based provider of multimodal biometric solutions. Our algorithms consistently rank among the fastest and most accurate in fingerprint and face recognition. Since 2004, we have partnered with all types of organizations to build trusted and flexible biometric identification solutions. Our products are being used in more than 80 countries, benefiting more than a billion people worldwide.

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