

SCITA – FaceID Video

Facial recognition is a technology that can capture individual faces — from photographs or video — and identify the individual by matching the face to those on a secure database.

FaceID is an intelligent video analytics that detect and track faces in live high-definition video by processing images of 1-5 megapixels at frame rates of 5-10. It is extremely robust in detection to help overcome variations in focus, lighting, and facial orientation. Our latest technology also significantly improves tolerance of sunglasses and other partial occlusions. The face tracking algorithm maintains locks on every face across each frame of video. Only the best sample of each tracked face transmits to the recognition cluster, optimizing bandwidth utilization and computational capacity.

The identification process incorporates specific techniques to mitigate changes in a person's appearance, including eyewear, hair styles, facial hair, the effects of age, etc. Even with these sophisticated analytics, FaceID modular clustered architecture allows flexible deployment options along with massive scalability and extremely low response times.

FaceID Technology:

Robust facial recognition algorithm

- typical gesture changes
- pose (+/- 15° deviation from frontal image)
- partial face occlusion
- beard and hairstyle changes
- glasses
- lighting variations

Image Requirements for Facial Recognition:

- Sharp and clear image
- Eye to eye spacing of 80 pixels (inter – pupil)
- 40x40 pixels for face detection

Features:

FaceID - Video instantly detects, tracks, recognizes and analyzes people in live video streams or video footage.

Product features include:

- stores lossless compressed video sequences of cropped faces (face streams) of each appearance of a person in front of the attached cameras
- tracks multiple faces simultaneously
- compares all appearances of persons against each other in real time to determine identities
- compares all appearances of persons against user-defined galleries of portrait images
- user-friendly interface to quickly import sets of video files or still images

- provides rich graphical user interface with expandable pop-up screens
- Identifies multiple faces in live video stream at up to 10fps
- Uses cameras at fixed installations
- Provides a turnkey system that mitigates entry costs and custom development
- Instantly compares faces to internally built database
- Let's you upload available watch lists or public databases into your database
- Allows customization of alerting preferences
- Multiple cameras feeds simultaneously
- Video recording
- Face tagging
- Quick event playback
- Event export
- Integration with video management system
- e-mail / SMS alerts

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All specifications are subject to change without prior notice.

Disclaimer

Face recognition technology, like any biometric application, cannot provide 100% recognition accuracy