Smart Face Authentication

The best way to authenticate, is using your face.

Facial recognition software is becoming increasingly used in the business world. Retailers use the technology to spot return customers in shops and give them special offers. Some companies use it to keep track of employees' attendance instead of punching a time card, employees look into a camera. To achieve reliable face recognition of a video image, NEC developed the "feature point extraction technology" that enables enhanced face recognition to a level where an individual can be identified with high precision from within a group, even if their face is partially hidden, or the image is taken from different angles. NEC's face recognition technology also uses deep learning technologies for face matching to increase accuracy to a level where an individual can be identified by a low-resolution face image captured by a distant camera.

"NEC ranked No.1 in accuracy in both ideal and difficult environmental conditions for face recognition."

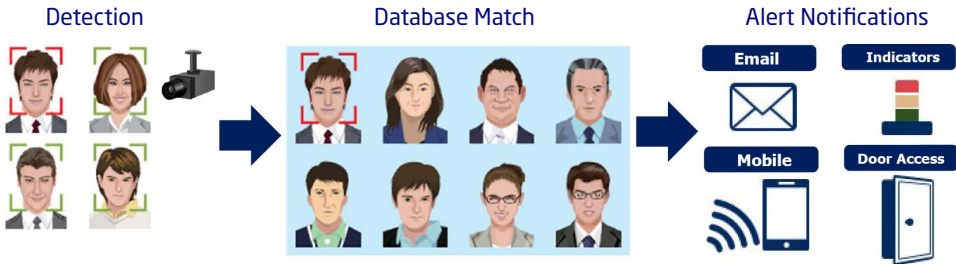Door Access System   Attendance Management   Visitor Identification   Locating Specific People

What is Smart Face Authentication?

Detection → **Database Match** → **Alert Notifications**

Email · Indicators · Mobile · Door Access

Benefits of Facial Recognition

Real-Time High-Speed Authentication
- Fast entry and exit by walkthrough
- Door unlocks instantaneously after a person is recognized
- Prevents impersonation from using stolen cards

Unmatched Accuracy and Precision
- Ability to detect even when face is partially hidden
- NEC ranked No.1 in accuracy in both ideal and difficult environmental conditions

Support Various Camera Types
- Various type of cameras can be set depending upon usage
- Compatible cameras include Web, network and near

Hands Free Operations
- Convenient and hygienic as no physical contact is needed

Instant Alerts
- Possible to check the matching result at real time basis
- Notifies staff of VIP customers for immediate customer service
- Alert notifications via emails or mobile (Android)

Flexible Scalability
- Operate with small-sized configuration having several cameras
- Scale out possibility for Midsize to Large Enterprises

Excellent Confidentiality
- Image to be encrypted and saved.
- Images automatically deleted after certain period of time.
- Only specific user with authorization can view the face images

Long Term Cost Savings
- No need to maintain hardware keys for identification.
- Effective prevention of lost hardware keys, saving running costs.
- Logs are accumulated in images instead of videos, saving HDD capacity

* NEC ranked No.1 several times as the world's most accurate face recognition technology in vendor tests conducted by the US National Institute of Standards and Technology(NIST).The evaluation results do not represent recommendations by the US government for specific products.

Thermal Screening Options

Expand Facial Recognition technology with thermal solution, even with mask on. Ideal for retail storefronts, clinics, markets, offices, etc. to help to minimize contact, using contactless temperature screening. And ideal for attendance marking (e.g. schools), people identification (e.g. gated communities, camps, isolation areas), etc.

In the case of normal temperature, the door opens by face recognition — 39C / 36C — OK — OK — Open!

In case of high fever, the door will not open even if face is authenticated. — 39°C / 36C — NG — OK — Mail Alert — Alert to the security staff

SFA Backend System · DB · Gates Access · Door Access · Stand alone

NEC is leveraging digital innovation for seamless transition to Society 5.0, which promises a human-centric, inclusive, and sustainable future.

Talk to us about your needs today to arrange a demo. Contact us at **+65 6379 2772** or **sg_marketing@nec.com.sg**.

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