Biometrical Facial Recognition "on-the-go"

VOCORD FaceControl

High recognition accuracy: over 96%

Recognizes gender and age, counts visitors, tags unique visitors

Split-second speed recognition

Low bandwidth requirements and power consumption

VOCORD

VIDEO SURVEILLANCE AND
AUDIO RECORDING SYSTEMS

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VOCORD FaceControl is non-cooperative biometrical facial recognition system, operating "on-the-go". It catches and recognizes the faces of people, freely passing-by facial recognition cameras.

The system uses modern algorithms and specially designed cameras for facial recognition with image clarification technologies. The high efficiency system performs recognition in real conditions without special light requirements.

Depending on customer's needs, VOCORD FaceControl can run on many hardware platforms: dedicated machine-vision cameras, CCTV-cameras or web-cameras. It provides the best value of cost/efficiency ratio.

VOCORD FaceControl is a multifunctional facial recognition tool, with many robust features:

- counting people by faces, tagging newcomers and regular visitors

- providing an instant alert to "black-listed" people

- organizing contactless biometric access control system

- making rich analytics and reports

Key features

1

High recognition accuracy
VOCORD FaceControl high efficiency is made possible by the latest deep learning-based algorithms and «machine vision» cameras with onboard automatic video enhancement. It provides high recognition accuracy (>96%) and a low rate of missed faces in field-use.

2

High speed recognition
We use GPU-accelerated computing. Due to this VOCORD FaceControl is able to perform millions comparisons per 1 s. It takes less than one second to send an alert to the operator in case of a match.

3

Low bandwidth requirements and reduced server load
The camera's onboard facial detection ability reduces server and bandwidth load. Captured facial frames are transmitted to the server without compression.

4

Mobile apps for facial recognition
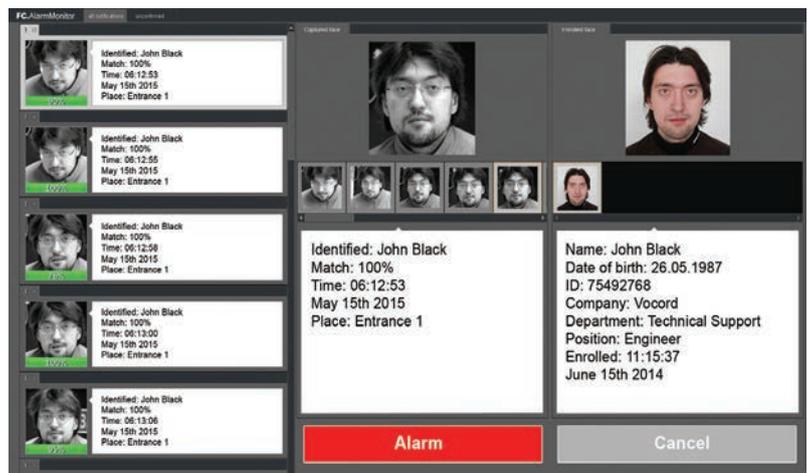VOCORD FaceControl is applicable for mobile apps such as alert messaging for law enforcement and security uses.

Applications

Business

- Detection of shoplifters in stores
- Detection of loyal customers, VIP-service
- Visitor statistics collection
- Customer in-store trends and habits
- Detection of black-listed fans banned from stadiums
- Biometric Access Control
- Employee time and attendance
- Mobile device user-authentication

Law enforcement

- On-line search of criminals
- On-line search of missing persons
- Police investigations
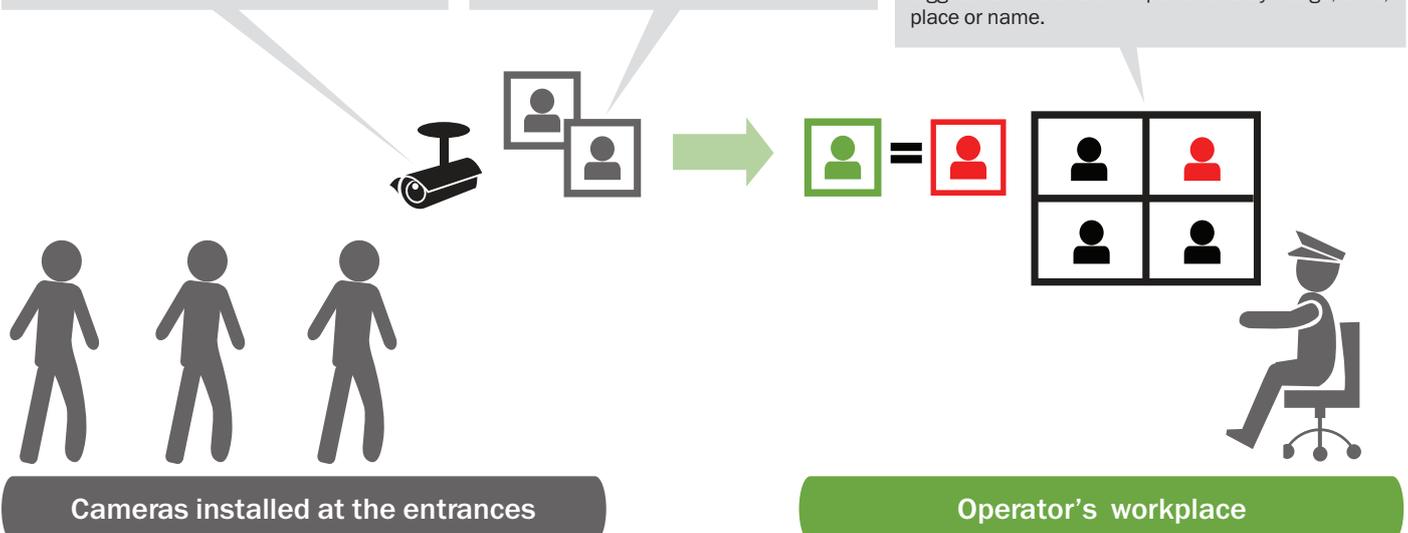- Border Control
- Biometric Access Control

"Alarm monitor" interface

How it works

Cameras automatically capture faces in video stream and transmit it to the server. VOCORD NetCam4 cameras are able to capture up to 16 faces in a frame.

Load of bandwidth is reduced due to camera's built in face capturing engine. The system transmits only frames with captured faces instead of a video stream.

The system notifies an operator at "alarm monitor" i it has the match against "black-lists". An operator can confirm or decline an alarm. All system events are logged. Archive search is performed by image, time, place or name.
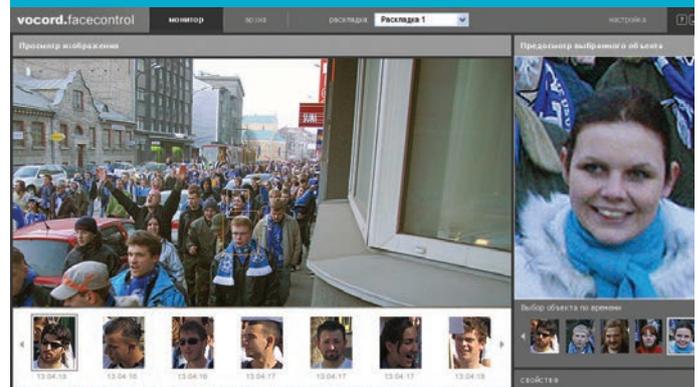

Cameras installed at the entrances

Operator's workplace

Success stories

«Safe City»: facial recognition for transport hubs

VOCORD FaceControl is the first geographically-distributed facial recognition system in Russia. VOCORD FaceControl operates at two train terminals and one bus station in Ryazan city with a population of 520+ thousand people. Facial recognition cameras control stations entrances and check all visitors against police databases. The system is connected to the police department. Police officers receive alarms in case of a match with a photo in database. The system was implemented as a part of "Ryazan Safe City" project. In 2015 Ryazan became the safest Russian city (among the cities with over 500 000 population), according to sociological studies made by the Russian Government.

Arena-Omsk stadium: fans under "face control"

VOCORD FaceControl keeps an eye on visitors at one of the largest ice hockey arenas in Russia. Facial recognition cameras control 18 entrances to the arena. The system matches every visitor against "fan black-lists" and gives an alarm to security guards immediately if any "black-listed" person is detected. VOCORD FaceControl works in free-flow mode: visitors don't need to slow down, or to stop, or to look into the camera. Biometric facial recognition works instantly with high reliability and does not create any obstacle at the gates of stadium.

Thief detection in retail chains

VOCORD FaceControl successfully operates in retail chains and shopping malls. Malls use facial recognition system to detect shoplifters and for visitors statistics collection. The system proved its efficiency during the first stage of implementation in several stores of a major chain in Moscow in 2014. Based on the results customers decided to expand the project and install VOCORD FaceControl in other stores of the chain.

Fraud prevention in banks with Equifax

Equifax is a global leader in consumer, commercial and workforce information solutions, uses Vocord facial recognition expertise for banking fraud prevention. Contemporary recognition algorithms help to verify thousands of photos on loan applications received from different banks against "black-lists".

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