



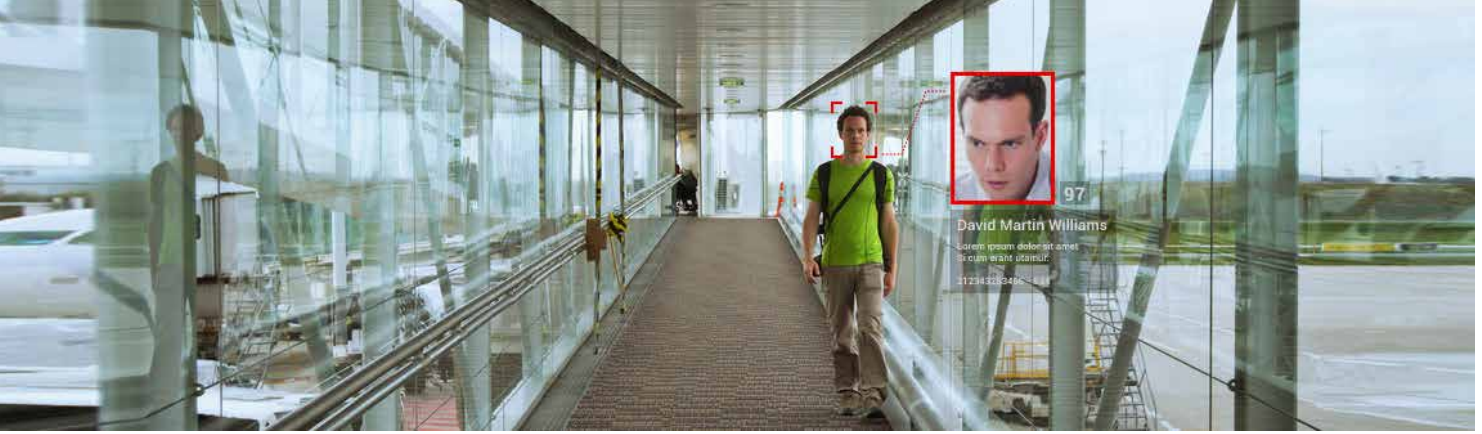
DEEP LEARNING-BASED FACE RECOGNITION

Nevalabs®, primarily established to provide homeland security solutions, is a high technology company offering services in both domestic and global markets since 2015 in İstanbul. In addition to the area of homeland security, Nevalabs accommodates solutions for face and object/scene recognition for a variety of sectors such as telecommunication, banking and health.

Our mission is, therefore, to enhance cities, systems and applications so as to make them much smarter and safer. To accomplish this mission, we aim at providing our clients with reliable solutions and invariably at safeguarding the best customer experience by utilizing ever-changing technologies in all security matters.

 **nevalabs**
NEXT GENERATION SAFETY SOLUTIONS

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FACE RECOGNITION



Corvo® Identify central face recognition and alarm management system provides the highest accuracy rate through the use of deep learning-based technology. Its enhanced capabilities include fast face detection, advanced face tracking and high accurate face recognition to identify persons of interest, criminals, missing persons and VIPs from photos, cameras and archived videos.

Corvo Identify's advanced technology works under uncontrolled, real-life conditions. The system overcomes real-life challenges which frequently constrain most of the face recognition algorithms; such as pose, age and illumination variations. With its advanced face recognition engine, *Corvo* is robust to exaggerated expressions, occlusions, eyeglasses, hats and scarfs too. Therefore, it provides the best face recognition solution for homeland security.

Corvo Identify Expert and Corporate editions are developed for varying scales of projects. *Corvo Identify Expert* is, for instance, designed for fulfilling face recognition needs of medium-scale projects. *Corvo Identify Corporate*, on the other hand, enables highly scalable software for mission-critical and large scale (1M+ face enrollments, hundreds of cameras and multi-users) systems.

Corvo Identify Expert:

- Up to 1M enrollment
- Up to 50 cameras
- User friendly web-based client with easy maintenance
- Responsive and intuitive design
- Central management
- Monitoring operations through a dashboard
- Enrollment of subjects (persons) and bulk import operations
- Searching criminal, lost, VIP, etc. persons from watch lists
- Searching suspects from face detection history
- Suspect investigation from photos and archived videos
- Smart alarm dispatch
 - to available operators automatically or
 - to the persons in charge of cameras or watch lists or organizations
- Real-time alarms through cameras
- Fast alarm verification
- Notifications for verified alarms
- Camera and server management
- ONVIF Profile S compliance
- Automatic camera discovery
- Prompt error notifications
- Automatic disk cleanup
- User and role-based authorization
- Reporting
- Audit logs
- Multi-language support
- Multi-platform support (Linux and Windows)

Corvo Identify Corporate:

- Corvo Identify Expert's Features* +
- 1M+ enrollment
- 50+ cameras
- LDAP integration
- Video management software integration
 - Genetec Security Center
 - Milestone XProtect
 - Pelco VideoXpert
- Load balancing
- Failover handling



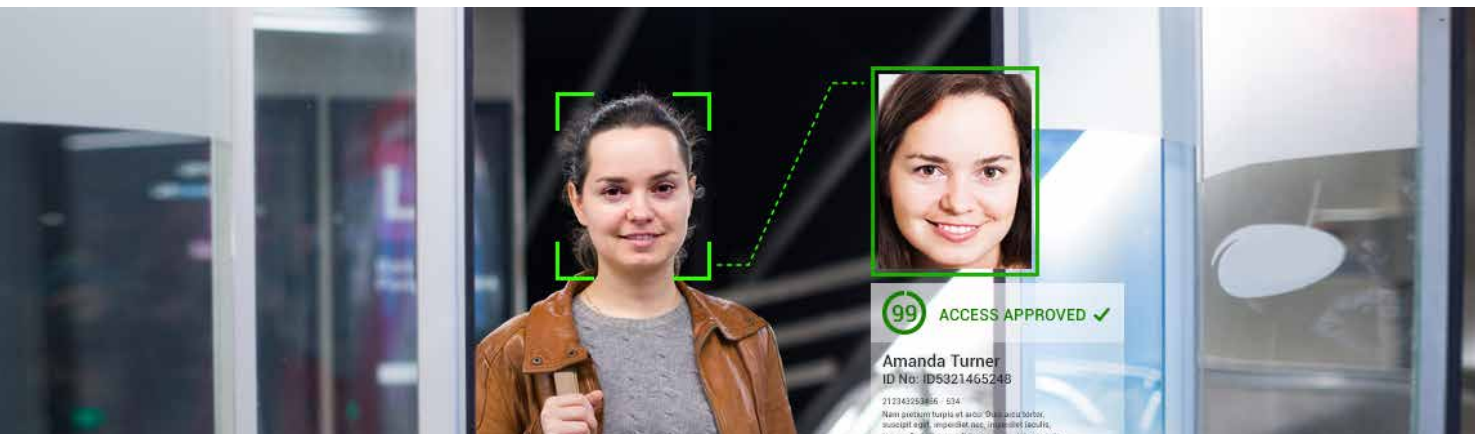
IDENTITY VERIFICATION



Corvo Verify API is a powerful face verification software that smoothly integrates into ID control systems. *Corvo Verify* ensures fraud prevention by verifying persons through face images stored in identity cards or in the system. With its highest accuracy rate, it overcomes challenges such as low-quality image and variation of expression, age and pose.

Corvo Verify offers the ideal solution for automatic passport control at airports, automatic access card control at stadiums, contact-free identity authentication at hospitals, automatic driver control in vehicles (taxis, buses, etc.) and fraud prevention in the stores of mobile operators. It can detect spoofing attempts with its deep learning-based face verification and liveness detection capability that is very significant for the security of digital banking, e-Money institution, e-Government, e-shop, online education and social network applications.

In this new era in which physical distance and isolation need to be preserved due to pandemics like Coronavirus (COVID-19), our next generation solution gains more importance.



ACCESS CONTROL



Corvo Access is a face recognition API which can be integrated into controllers and staff attendance systems. It can be used to increase the security level of an access control system. A combination of access control systems with *Corvo Access* prevents the usage of stolen/lost cards and security violations in restricted areas such as critical facilities, data centers, public buildings and business centers. What distinguishes our technology from other solutions is that it is non-intrusive and requires no interaction, which makes this technology inescapable.

MARKETS

HOMELAND SECURITY



It has always been a big challenge to identify suspects in uncontrolled and crowded public places and spaces. Face recognition technology is the only solution that can detect persons of interest with high accuracy in real-time, without need for interaction. *Corvo@ Identify* can perfectly pinpoint suspects so that preventive actions can easily be taken. You can, therefore, ensure the safety of cities and communities with *Corvo's* everlasting proactive and smart approach.

BORDER GATES



It is very well known that both national and international security depends on reliable border control. Borders with *Corvo Identify* and *Verify* are able to detect criminals and prevent the entry of persons with false identities. For an advanced level of border security, our product family ensures fast, accurate and secure passenger processing. Besides, our technology is able to observe refugee movements closely, which has become a growing issue of the present day.

PUBLIC BUILDINGS



As public places are vulnerably subject to attacks, face recognition provides the key solution for the protection of public offices and also officials. The solutions we have designed, thus, plays a vital role in security.



AIRPORTS

With the proliferation of national and international travel, conventional methods of passport control and security have turned out to be obsolete. *Corvo Verify* offers efficient and prompt passport control while *Corvo Identify* enables the detection of criminals. Moreover, *Corvo Identify* enhances customer service through face recognition solutions in lounges by enabling personal services.



PUBLIC TRANSPORTATION

Metro and train stations are ridden up by masses of people every day. Such places have, therefore, become potential targets of terrorist attacks. Making use of *Corvo Identify*, an essential system for heightened security such problems can be eliminated.



PORTS

Ports are known to be both tourism and trade hubs. Employing *Corvo Identify* and *Corvo Verify* in ports will inevitably enhance safety level of voyage and, thus, prevent illegal immigration.



CRITICAL FACILITIES

Sites such as oil refineries and other critical premises are known to be subject to potential attacks. However, with highly accurate face recognition systems, safeguarding of such invaluable sites becomes feasible. You can, therefore, have safer critical facilities through Nevalabs' trusted face recognition software solutions.



STADIUMS

Sports arenas being places of entertainment where outdoor sports, concerts or other special events take place, regrettably, are attractive targets for offenders and terrorists because these places entail large groups of people. The very first step to be taken to eliminate this risk is to identify unauthorized persons accessing stadiums through automatic identity control systems. Detecting hooligans, barred offenders or terrorists in sports arenas by analyzing and identifying faces will, therefore, help to create a violence free environment.



MEGA EVENTS

It can be extremely difficult to ensure the security of summits, fairs, exhibitions, races, concerts and other significant organizations due to large numbers of attendees. However, it is possible to monitor VIP access and detect the entrance of unauthorized or criminal persons using our next generation face recognition solutions.



TELECOMMUNICATION

Telecoms are no longer considered to be sole mobile operators. They are now digital service providers which contribute significantly to digital transformation. We are as Nevalabs pleased to provide face and object/scene recognition software in an effort to ease this transition. Fraud prevention, automatic album creation, customer recognition, identity verification, home and office safety are some of those solutions empowered by our advanced software technologies.



BANKING

The banking sector frequently encounters with identity fraud attacks even more so after the digitalization of bank transactions. To tackle with this issue, Nevalabs offers *Corvo Verify* face verification and liveness detection software to increase the security level of login, digital onboarding, loan application and call center operations in digital banking applications while also offering *Corvo Identify* and *Corvo Access* to secure branches, data centers and ATMs.



BUSINESS CENTERS

Corvo Access provides contact-free identity verification for each and every person visiting business centers to create a secure working environment. It also helps to improve staff attendance systems.



HOSPITALS

In order to prevent the spread of pandemic diseases such as Coronavirus (COVID-19), it is important to carry out socially distant and contact-free identity authentication procedure in hospitals. *Corvo Verify* deep learning-based face verification system is the ideal solution that meets these needs with high accuracy among all other biometric systems. Furthermore, *Corvo Identify* enables the identification of people on blacklists in order to maintain secure hospitals.



SCHOOLS AND DORMITORIES

Should their campuses and dormitories be protected against all types of threats through the use of innovative solutions, students would, thus, be able to pursue their education in a much more secure and convenient environment. Moreover, our smart ID verification systems will help generate secure, reliable and valid exam settings in both formal and online education systems.



ONLINE EDUCATION

Due to school closures amid the Coronavirus (COVID-19) pandemic, online education and training applications have become mandatory and, therefore, gained importance and pace. *Corvo Verify* as a deep learning-based face verification software undoubtedly contributes to the security of online training and exams.



HOTELS AND CASINOS

It is imperative for hotels and casinos to be able to recognize its VIP customers in order to sustain their satisfaction. In such a setting, it is also vital to keep active blacklists. *Corvo Identify* prevents fraud with its high accuracy recognition capability while enabling the recognition of VIPs for customer satisfaction. Moreover, events such as conventions, meetings, celebrations can be organized in a secure environment owing to *Corvo Identify*.



SHOPPING MALLS

Marketing directly to the target audience significantly enhances sales and conversion rates. Anonymous information gathered through our deep learning-based software focusing on gender and age range provides detailed statistics on segments of customers visiting shopping malls on specific days and time. Additionally, by increasing security levels via *Corvo Identify*, a pleasant shopping atmosphere is generated.



RETAIL

Every customer wants to feel special. By integrating face recognition technologies into CRM systems, tailor-made personal promotions can be offered resulting in higher sales volumes and expansion of customer portfolio.



G20 Antalya Summit Mobile Face Recognition System

Turkish National Police preferred Nevalabs to secure the G20 Antalya Summit. We provided mobile face recognition systems to identify terrorists and criminals. Our solution was used by 220 cameras located in Antalya Airport, bus station, summit entrance, red zone and critical places of the city. It was an honor for Nevalabs to ensure security at a global summit.



Turkish National Police Central Face Recognition System

Corvo Identify Corporate deep learning-based central face recognition system is being used by the Turkish National Police for homeland security. Corvo Identify's real-time alarm management and suspect investigation modules are used for the identification of the terrorists in 81 cities.



Turkcell Lifebox Application

Our face, object and scene recognition software solutions are used in the development of Lifebox. More than four billion photos have been processed in a highly available system, which has been enabled by our software since February 2018.

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