

Orchestrating a brighter world

**NEC**

# NeoFace<sup>®</sup> Watch

The most accurate and fastest face recognition platform available



**STADIUMS & EVENT VENUES**  
*High Performance Face Recognition*

# Why NeoFace Watch?

## High Performance

In regular tests by the United States' NIST laboratories, NeoFace Watch has an error rate of less than half of the nearest competitor and handles 3.02 million searches per second, significantly faster than the nearest competitor.

## Easy to Implement

NeoFace Watch uses common off-the-shelf hardware, including IP cameras, networks, servers and, where possible, existing infrastructure. Smart device applications are also available on iOS and Android platforms.

## Easy to Integrate

Using robust RESTful APIs, solution providers can easily integrate NeoFace Watch with other systems that manage videos, customer relationships and security, offering an added dimension in facial recognition competency.

## Flexible

Easy-to-use system configuration tools and monitoring utilities enable customers to tailor NeoFace Watch to specific operational requirements and ensure continued optimal operation.

## Scalable

NeoFace Watch caters to a wide range of configurations to suit local deployment conditions and requirements, with a centralized or distributed architecture supporting multiple sites. It is designed to handle hundreds of millions of faces, thousands of cameras, and thousands of simultaneous user interface sessions.

From airports to stadiums, mass transit and on city streets, NEC's NeoFace Watch platform is ideally suited to preserve security anywhere people congregate – protecting the public, enhancing experiences and improving society.

# NeoFace Watch Features



NeoFace Watch can perform **REAL TIME MONITORING** against thousands of surveillance cameras for individuals that pose a security threat and VIPs, automating alerts to security staff and reducing friction in customer experience programs.



The NeoFace Watch forensic **FACE SEARCH** feature uncovers the identities of individuals seen in poor quality images and video surveillance, enabling loss prevention and security staff to identify repeat offenders committing theft and causing mischief.



NeoFace Watch **VIDEO ANALYSIS** processes large volumes of recorded video at better than real-time speeds, enabling post-event analysis of faces for loss prevention and security review of large-scale disturbances.



NeoFace Watch **FLOW ANALYSIS** anonymously monitors individuals and calculates their time-in-queue, providing actionable information about service levels and the efficiency of operations in aggregate.



The NeoFace Watch iOS and Android **MOBILE APPLICATIONS** provide simple and effective tools to enrol individuals contacted by security staff and search prior event logs, improving security and reducing the amount of time required to resolve safety concerns.



A rich **RESTful API** enables enterprise to build integrated solutions upon the NeoFace Watch platform, providing highly accurate, scalable, and customized face recognition functions for loss prevention and customer experience enhancing programs.

# A Face Recognition Platform for Stadiums & Events

NeoFace Watch is a high-performance face recognition platform for real-time facial recognition against surveillance video and forensic searching of archived video and static images. NeoFace Watch helps secure stadiums, event venues and mass transit by checking individuals appearing in surveillance video against watch lists and producing real-time alerts to security staff.

NeoFace Watch's scalable architecture and enterprise class features provide opportunities to monitor queue times at ticket gates and security screening, the ability to speed VIP authentication, provide access to enhanced services and to recognize and investigate known and suspected threats.

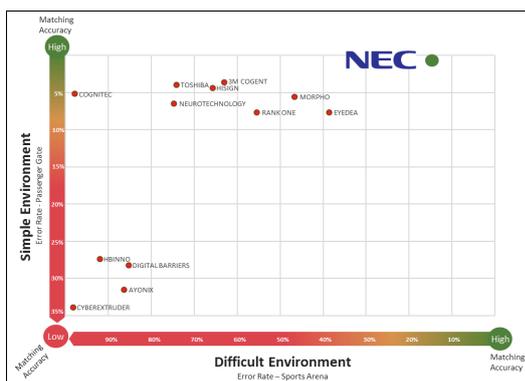


## Enhance Security, Operations and Investigations

- Monitor ticketing and security check queue times assuring optimal service levels and customer experience.
- Speed authentication of credentialed visitors and scheduled staff, reducing time-card fraud and unauthorized access to events and facilities.
- Monitor for persons of concern and automate alerts to security staff.
- Create searchable face archives for physical access control audits and investigation.
- Document security contacts for liability, investigations and reporting.

## World's Most Accurate Face Recognition Solution

**NEC is 2.5 times more accurate than the number two ranked participant for challenging scenarios involving crowded places.**



**NIST Face In Video Evaluation (FIVE) | March 2017**  
 Graph produced from data published in NIST Interagency Report 8173. Results of the test are not intended to imply recommendation or endorsement of particular products by the U.S. government.

As independently evaluated by NIST in its most recent Face In Video Evaluation (FIVE) of Non-Cooperative Subjects, NEC's NeoFace face recognition technology has demonstrated its ability to perform face recognition under the most demanding real-world circumstances at the highest level of accuracy.

In earlier published reports, MBE (2010, 2011), FRVT (2013), NEC was also evaluated as the leading technology for accuracy, speed, resilience to viewing angles and other environmental variables.



**As an Information and Communications Technology (ICT) leader with more than 117 years of expertise, NEC combines its advanced technologies, services and knowledge to help ensure the safety, security, efficiency and equality of society - enabling people to live brighter, more enriched lives.**

## ABOUT NEC CORPORATION

NEC Corporation is a leader in the integration of IT and network technologies that benefit businesses and people around the world. By providing a combination of products and solutions that cross utilise the company's experience and global resources, NEC's advanced technologies meet the complex and ever-changing needs of its customers. NEC brings more than 100 years of expertise in technological innovation to empower people, businesses and society.

The NEC Group globally provides "Solutions for Society" that promote the safety, security, efficiency and equality of society. NEC's brand message of "Orchestrating a brighter world" represents the fusion of advanced information and communication technologies and know-how created in coordination with partners and customers all over the world in order to contribute to the betterment of society and realise a brighter and more prosperous future.

## ABOUT NEC IN PUBLIC SAFETY

NEC has a proven track record in public safety and continually aims to bring its best-of-breed cutting-edge security technologies and total solutions to help public and private institutions safeguard lives and property in both the real and virtual worlds.

With a strong global footprint, NEC can leverage across regions to keep cities safer.

"Safer Cities" is an integral part of NEC's vision for Smart Cities, where people are able to live, work, and play in safety and comfort while also coexisting in harmony with the environment. NEC offers advanced technologies and solutions to make this a reality.

NEC has developed biometric technologies for more than 30 years and has solutions used by more than 1,000 customers in over 50 countries worldwide. NEC's fingerprint and face recognition solutions are recognised in independent tests as the world's fastest and most accurate biometric technologies for identification.



NEC Global Face Recognition Centre of Excellence  
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