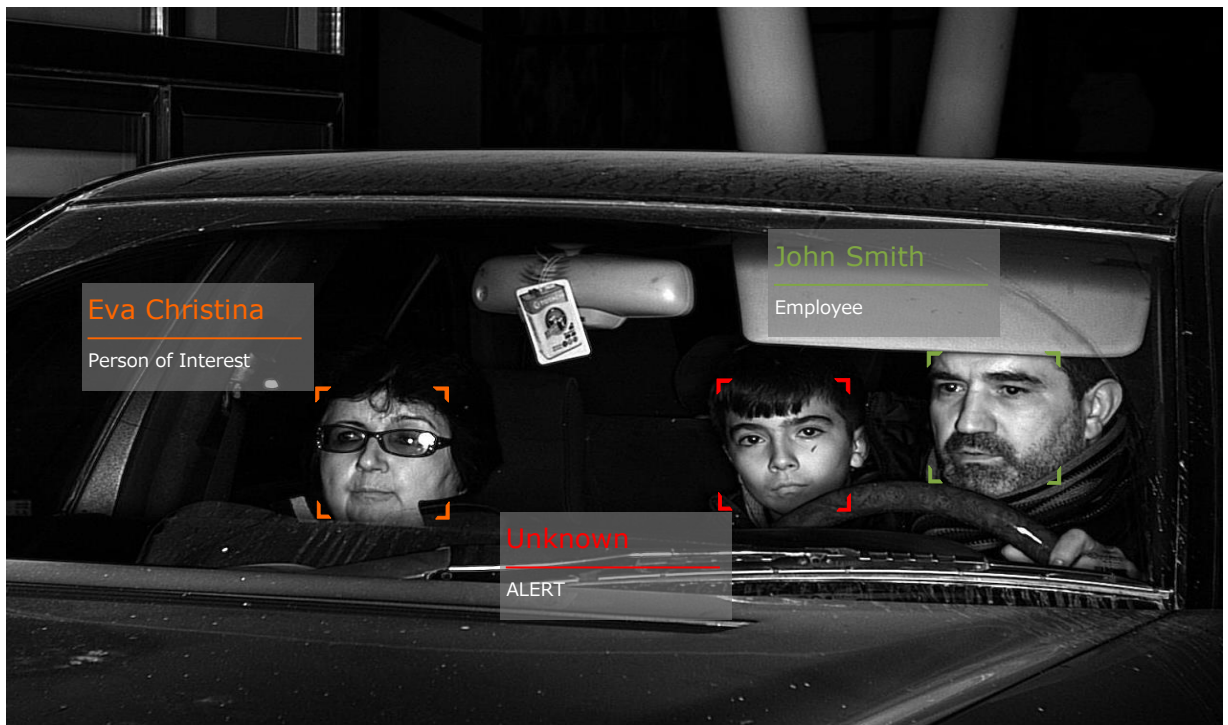Facial Recognition

# NEC In-Vehicle Face Identification (IVFI)

## Real-Time Face Recognition behind tinted screen

Performs real-time facial detection and recognition of all vehicle occupants (both front and rear seats) under a variety of challenging conditions including day, night, inclement weather, high-glare sunlight, and through heavily tinted glass.



## NEC NeoFace® Watch – The World's Most Trusted Choice

| Fastest | Best with Low Quality Images | Most Accurate | Highest Tolerance to Situational Variables |
| --- | --- | --- | --- |

In independent tests conducted by National Institute of Standards and Technology (NIST) over the years, NEC has been significantly ahead of other providers in terms of accuracy and speed, the two key factor of success for a facial recognition system.

## NEC has been tops in all its benchmarks:

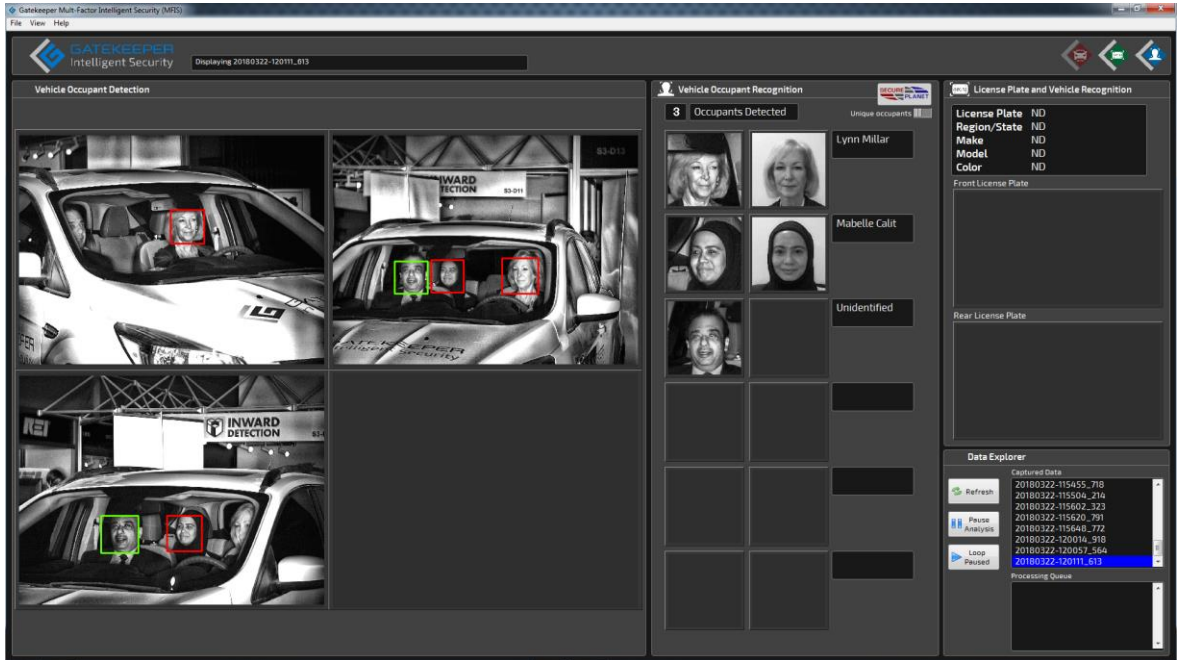| | |
| --- | --- |
| Face In Video Evaluation (FIVE) 2017 | Multiple Biometrics Evaluation (MBE) 2010 |
| Face Recognition Vendor Test (FRVT) 2013 | Multiple Biometric Grand Challenge (MBGC) 2009 |

## How NEC In-Vehicle Face Identification works?

In collaboration with Gatekeeper Security, NEC integrates NeoFace® Watch with Gatekeeper's Intelligent Vehicle Occupant Detection (IVOD) patented technology, security officers can see inside vehicles as they approach entry gates and know who is inside with accuracy and speed.



The high-resolution machine vision camera is optimized for both day and night operation, the camera is paired with a powerful targeted array of LED lights that illuminate the driver and other occupants even through tinted glass, sun glare and at night.

Using advanced image processing, the driver and passengers are highlighted while windshield glare from sunlight or overhead area lighting is removed through Gatekeeper's advanced computer vision algorithms.

Integrated with NEC NeoFace® Watch facial recognition capability enables the rapid identification of authorised employees or visitors to a facility, or is also utilized to identify persons-of-interest against pre-defined watch lists in real time.

## Why NEC In-Vehicle Face Identification?

Real-time, actionable intelligence for officers on the field

Fast and accurate analysis of video of varying quality

Robust, plug and play usability, easy-to-use system

**WE MAKE CITIES SAFER**
Using technologies to safeguard lives and property

NEC Asia Pacific Pte. Ltd. | Gatekeeper Security Inc.
■ www.nec.com.sg

In Collaboration with:

■ www.gatekeepersecurity.com