



NEC SmartScan™ Multimodal Capture System provides superior biometric capture capabilities integrated with NEC's latest multimodal biometric quality evaluation algorithms. The service-oriented architecture (SOA) provides the flexibility, reliability, and speed that applicant/background processing requires. Its modular architecture supports additional biometric modalities, such as face and iris.

## At a Glance

- **Multimodal biometric capture (fingerprint, face, iris, signature images)**
- **Supports 1D and 2D barcode reading (driver licenses and passports)**
- **Multiple hardware configurations and flexible capture station operation**
- **Hardware agnostic, easily integrates with third-party, FBI certified, biometric capture devices**
- **Available Insights Archive to store, retrieve, view and print records**
- **Extensible, scalable middleware and database powered by iESB middleware for data presentation**

## Overview

The NEC SmartScan system is actively used by federal, state, and local government agencies for applicant background checks, biometric enrollment, criminal arrest bookings, offender registrations, and other client-specific use cases.

It is a sleek, scalable, secure, and easy-to-operate capture solution. The SmartScan application can be rapidly modified responding to changing system and business requirements, while minimizing the impact to system and user operations. Furthermore, the solution can be configured and customized to meet different operational concepts, use cases, and scenarios.

The SmartScan Station capture kits include the computing platform, hardware, and software required to collect, format, and transmit biographic and biometric data such as fingerprint, face, iris, and signature images, and scars, marks, and tattoos. Its flexible and modular architecture meets operational priorities while providing the adaptability to adhere to agency-specific business processes and interoperability standards.

## Best Technology, Most Accurate

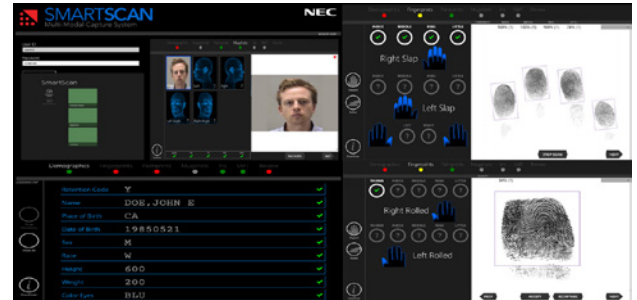
NEC's NeoFace® biometric technologies are consistently proven to have the fastest and most accurate face recognition algorithms available, based on independent benchmark testing conducted by the National Institute of Standards and Technology (NIST).\* NIST's independent tests also conclude that NEC's face recognition technologies are the most resilient to low-resolution images and viewing angles, as well as poor image quality.\* Of critical importance are NIST results that show NEC's algorithms provide the highest accuracy in the categories of age, gender, and race—results dramatically superior to our large competitors. \*\* A rapid-capture biometric technology designed to operate with readily available commercial hardware and software, NeoFace solutions deliver superior performance at a competitive price.

## Innovative Force in Identification

NEC pioneered biometric research, and has been a world leader in integrated, high-availability biometric identification systems for over 30 years. The unparalleled identity matching accuracy and speed of NEC's face recognition technologies have been independently verified by NIST. NEC's other top-ranked biometric identification modalities include fingerprint, palmprint, voice, and iris. Under the company's corporate ethos, "Orchestrating a Brighter World," NEC aims to help solve challenging issues and to create new social value for the world of today and tomorrow.

## Proven Benefits for Federal Agencies

- **Ease and Effective Use:** User interface based on and secured by the latest Microsoft® Windows® 10. Web browser allows remote management and control by system administrators
- **Superior Image Quality:** Captures any biometric image using top-tiered hardware and validates using both NEC superior and standard NIST image-quality checks
- **Great Return on Investment:** Agency users can quickly learn NEC's SmartScan software to process more applicants, arrestees, and offenders in less time and with fewer number of workstations.



## Key Product Features

Form Factors	Cabinet, Desktop & Transportable
Multimodal Biometric Capture	Fingerprints, Face (frontal, profiles, with/out glasses) SMTs, Iris, Signature & Voice
Supported Peripherals	AccessIS Credential Readers, Canon EOS & PowerShot Digital Cameras, CMI Tech Iris Reader, Crossmatch Guardian & L Scan Capture Decks, Datalogic Barcode Readers, Integrated Biometrics KOJAK Capture Deck, Iris ID Series 7 & R100 Iris Readers, Logitech Brio, Rally & B900 Webcams, Signotec, Sigma Signature Pads, SONY SNC & SRG IP PTZ Cameras, THALES CS500F & CS500Q Deck, Topaz SigLite & SigGem Signature Pad
Computing	Intel i5 or Better CPU 8 GB or More Memory 256 GB or More Storage Microsoft® Windows® 10 Pro
Networking	Wired LAN 802.3, Wireless LAN 802.11 b/g/n, 3G/4G/5G Cellular
OS Compatibility	Microsoft® Windows® 10 Pro OS
Environment	Operating Temperature: 50°F to 86°F (10°C to 30°C) Storage Temperature: 32°F to 105°F (0°C to 40°C) Humidity: 10 - 95% RH (non-condensing)

(\*<https://www.necam.com/AdvancedRecognitionSystems/NISTValidation/FingerprintFacial/>)

(\*\*<https://nvlpubs.nist.gov/nistpubs/ir/2019/NIST.IR.8280.pdf>)

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**NEC National Security Solutions, Inc.**  
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NEC National Security Solutions, Inc. (NSS), is a leading provider of biometric identity and AI technology for federal government agencies in defense, intelligence, law enforcement, and homeland security agencies. Based in Arlington, Va., NSS deploys proven groundbreaking technology for access control, identity verification, scene processing, advanced analytics, fiber optic sensing, border control and transportation security, among other applications. The company was launched in 2020 as a wholly owned subsidiary of NEC Corporation of America and will operate under a Special Security Agreement (SSA) with the US Government as a FOCI-mitigated entity, free of foreign ownership, control, and influence. It provides full-service solutions for large agencies using the intellectual property and resources of the global NEC brand. The NEC Corporation invests an estimated \$1.01 billion annually in R&D, holds 47,000 patents, and has more than 110,000 employees in 160+ countries. For more information, please visit [www.necns.com](http://www.necns.com).