

## Mobile Fingerprint Collection Device

NeoScan<sup>®</sup> 45

## At a Glance

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- Most compact FAP 45 mobile device available from industry
- Forensic image quality of all fingerprints – flats, slaps and rolls
- Intuitive and simple to use in field for identification and booking
- Certified by FBI<sup>1</sup> for IQS and Apple for MFi

## Overview

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Designed for public safety applications in the field, NeoScan 45 delivers the highest degree of speed and accuracy for mobile fingerprint roll and plain capture, including simultaneous two-finger capture. This innovative device from NEC is simple and easy to use, and features a large (1.6" x 1.5") scanning platen for better fingerprint image quality and greater accuracy, as proven by NIST<sup>2</sup>.

## Solution

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NeoScan 45 supports multiple communication protocols including Bluetooth<sup>®</sup> and Wi-Fi. As such, the device is compatible with Apple<sup>®</sup> iOS, Android<sup>®</sup> and Microsoft<sup>®</sup> Windows<sup>®</sup> operating systems, including the latest Apple and Samsung smartphone and tablet models. Equipped with a single and dual, plain and roll fingerprint capture sensor, NeoScan 45 is compliant with the FBI Image Quality Specification (IQS) Appendix F standards for FAP 45. With NEC's Smart ID biometric identification solution, NeoScan 45 adheres to NIST and FBI EBTS transmission standards.



As an open device, NeoScan 45 can operate with nearly all AFIS solutions, including NEC's Integra-ID Multimodal Biometrics Identification Solution (MBIS), enabling agencies to extend their existing AFIS infrastructure investments into mobile applications. NEC engineering teams worldwide collaborated to create this new standard in accuracy and compactness with NEC's lightweight FAP 45 fingerprint collection device. Manufactured in Japan, it abides by NEC's strict manufacturing and quality standards that are intended to substantially improve the design, ergonomics and reliability of the device.

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<sup>1</sup> FBI Letter of Certification is available upon request and at <https://www.fbibiospecs.cjis.gov/certifications>

<sup>2</sup> National Institute of Standards and Technology (NIST) and FBI testing NIST report (NISTIR 7950)

## Simple to Use, Connect and Interoperate

NeoScan 45 can readily be held in an operator's hand to capture flat and rolled fingerprints including two flap fingerprint images because of its FBI Appendix F certified FAP 45 sensor. The simple LED interface guides the operator to capture the necessary and type of fingerprints in order and checks the image quality in real time. It can even allow you to skip amputated, bandaged or scarred fingers when necessary. It can connect to any communication or computing device using Bluetooth or WiFi and work with NEC's SmartID mobile biometric application or many third party applications compliant to the open HTML 5 interface available in the NeoScan 45 Developer's SDK.



## Complete Customer Care

NEC's U.S.-based NEC Customer Service Centers provide comprehensive 24/7 multi-tier customer support for problem tracking and resolution, as well as advanced remote diagnostics. Highly experienced engineers and developers provide technical support and troubleshooting services to ensure that our customers get the information and help they need without delay.

## Innovative Force in Identification

For more than 30 years, NEC has been a world leader in integrated, high availability biometric identification systems. The unparalleled identification matching accuracy and speed of our fingerprint and facial recognition technologies have been independently verified by NIST. NEC globally provides "Solutions for Society" that promote the safety, security, efficiency, and equality of society. Under the company's corporate message of "Orchestrating a brighter world," NEC aims to help solve a wide range of challenging issues and to create new social value for the changing world of tomorrow.

## Proven Benefits

- Used by Federal, State and Local Law Enforcement Agencies
- Superior Image Quality:  
Capture up to 600% more fingerprint image area and at better quality in order to promote greater biometric search accuracy
- Flexible Connectivity and Interoperability:  
Supports both Bluetooth and WiFi. Works with Apple, Android and Windows smartphones, tablets, and computers
- Great Return on Investment:  
Law Enforcement can identify persons and offenders out of the office to accomplish more work in the field of operations

## Key Product Features

Form Factor	Biometric Capture Peripheral
Size	3.2 in x 6.8 in x 0.7 in
Weight	9 oz.
CPU	ARM® Cortex®-A5 536 MHz
Operating System	Embedded Linux® V3.6.9
Memory and Storage	768 MB
Functional Command & Control	Flat, Slap and Rolled Fingerprint Capture Magnetic Stripe – 3 Track Reading Status LEDs: Battery, Wireless, Data Reading & Image Capture Command Buttons: Power, Scan, Add New & Skip
Networking	Wireless LAN 802.11b/g/n, Bluetooth® Class 1 Version 2.1 + EDR, Micro USB 2.0 (for power and control)
OS Compatibility	Android V4, V5, V6, V7, V8 and V9 Apple iOS V10, V11 and V12 Microsoft Windows 7, 8.1 and 10
Environment	Operating Temperature 32°F to 105°F (0°C to 40°C) Storage Temperature -10°F to 140°F (-23°C to 60°C) Humidity 10 - 95% RH (non-condensing)
Certifications	Apple MFi (PPID 223073-0001) FBI IQS Appendix F to FAP 45 and PIV CE Emissions: EN 55022:2006 Class A CE Immunity EN 55024:1998/A1:2001/ A2:2003, IEC 61000-4-2 FCC Certification FCC Part 15 Class A RoHS2 and WEEE Compliant to RoHS2 Directive 2011/65/EC

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