Mobile fingerprint collection device

NeoScan 45®

Overview

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 (40 x 38mm) scanning platen for better fingerprint image quality and greater accuracy, as proven by NIST[3].

Solution

NeoScan 45 supports multiple communication protocols including Bluetooth® and Wi-Fi. As such, the device is compatible with Apple® iOS and Android® 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. 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 Multi-modal 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.

NeoScan 45 at a Glance

- Most compact FAP 45 mobile device
- Forensic image quality of all fingerprints
- Intuitive and simple to use in field operations Certified by FBI for IQS[1] andApple for MFi[2]

1. FBI Letter of Certification is available upon request and at https://www.fbibiospecs.cjis.gov/certifications
2. MFi Letter of Certification is available upon request and at https://mfi.apple.com/MFiWeb
3. National Institute of Standards and Technology (NIST) and FBI testing NIST report (NISTIR 7950).

Solution

Manufactured in Japan, it abides by NEC's strict manufacturing and quality standards to ensure the design, ergonomics and reliability of the device are of the highest standards.

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.

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 in the United States

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, phablets 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.

Product Information

Form Factor	Biometric Capture Peripheral
Size	88mm x 175mm x 17mm
Weight	255g
CPU	ARM® Cortex®-A5 536 MHz
Operating System	Embedded Linux® V3.6.9
Memory and Storage	768MB
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

Product Information

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 and newer Apple® iOS V7 and newer Microsoft® Windows® 7, 8.1 and 10
Environment	Operating Temperature: 0°C to 40°C Storage Temperature -23°C to 60°C Humidity 10 - 95% RH (non-condensing)
Certifications	Apple MFi 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 RoHS Compliant RoHS2 Directive 2011/65/EC

For more information, visit au.nec.com, email contactus@nec.com.au or call 131 632

Corporate Headquarters (Japan)
NEC Corporation
www.nec.com

Australia
NEC Australia Pty Ltd
au.nec.com

North America (USA)
NEC Corporation of America
www.necam.com

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