

NCR BIOMETRIC KIOSK

BIOMETRIC SELF-SERVICE IDENTIFICATION FOR AIRLINE PASSENGERS

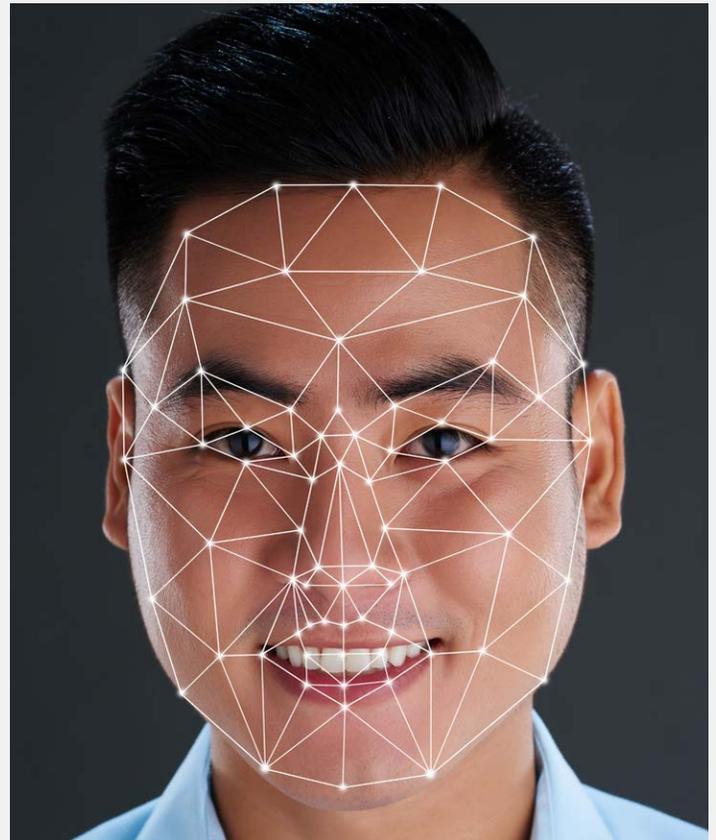
IMPROVE PASSENGER IDENTIFICATION

Airline travel is expanding and the industry is preparing for a significant increase in passenger flights over the next 20 years. Airlines and airports alike are exploring new technologies for ways to simplify the passenger travel experience and solve airport inefficiencies. NCR is working with one of the most promising innovations in biometric facial recognition for passenger identification. The NCR Biometric Kiosk digitally links a passenger's identification to their passports (and other authorized ID documents) using unique facial characteristics—essentially substituting a passenger's face for their physical travel documents. Biometric identification means airline travelers have an easier time navigating the airport from check-in to boarding, without the need to regularly stop and present ID documents.

Provide streamlined passenger experiences

Passengers who want to participate in this program undergo a preregistration process with the airline prior to travel. Once complete, preregistered passengers simply walk up to the kiosk and have their image captured. NCR Biometric Kiosk uses facial and fingerprint recognition capabilities to verify the passenger's identity in less than 2 seconds. The authentication technology requires little to no associate intervention, which means shorter queues, higher staff productivity, and the ability to reassign associates to more meaningful passenger services.

The NCR Biometric Kiosk camera can capture high-clarity images across a broad range of lighting environments and distances (4mm – 5m), making it a good fit for airport conditions. Passengers aren't required to remain perfectly still, step into a light-controlled environment, or be exposed to excessive camera flashes in order to have their identities verified. The NCR Biometric Kiosk helps keep passengers moving through the airport so they can focus on what's important to them—getting to where they are going.



For more information, visit [ncr.com](https://www.ncr.com), or email retail@ncr.com.





The latest in biometric technology

NCR Biometric Kiosk uses a single-station camera with customized lens designed to capture images using the latest HDR (high dynamic range) biometrics imaging and illumination technology. The system's matching engine compares infrared images, which have a consistent quality in all lighting situations, with both previously-captured infrared images and natural-light images, such as the image encoded within an e-passport. This means the NCR Biometric Kiosk can not only verify the authenticity

of a passenger's identification documents, such as passports, but can also verify a passenger's face against the image on the document. This matching technology provides high-quality verification in virtually any environment. Studies yielded the same level of performance in live environments as were seen under laboratory conditions. NCR Biometric Kiosk leverages artificial intelligence and machine learning for passenger identity verification, which radically improves both performance and accuracy versus older technologies.

A kiosk with functionality and fit in mind

The slim-footprint of NCR Biometric Kiosk and performance across lighting conditions means the unit can be installed virtually anywhere, including on a countertop or pedestal. With a clean design, large 17" touchscreen, and highly-configurable interface, the kiosk gives you tools to compliment your brand and drive self-service adoption

among your customer base. An optional UNav keypad is ADA-compliant and helps you provide accessibility to those with limitations. The NCR Biometric Kiosk leverages the proven design of the TouchPort-120 self-service kiosk, making it easy for existing clientele to upgrade their existing infrastructure to support this cutting-edge facial and fingerprint recognition technology.

TECHNICAL SPECIFICATIONS

PRODUCT DIMENSIONS

- WIDTH 16.89" (429 mm)
- HEIGHT 59.5" (1511 mm)
- DEPTH 20.20" (513 mm)

BASEPLATE – SMALL (OPTIONAL)

- WIDTH 19.68" (500 mm)
- DEPTH 22.05" (560 mm)
- Floor bolting required

BASEPLATE – LARGE (STANDARD)

- WIDTH 27.99" (711 mm)
- DEPTH 25" (635 mm)

FACIAL RECOGNITION

CAMERA HARDWARE

- Fully integrated camera
- 1.2m pixel (1280 x 960)
- 200 msec image capture
- Infrared Illumination
- Backward-compatible with existing NCR TP120 kiosks
- Multiple camera options, based on use cases and deployment environment

BIOMETRIC CAMERA SOFTWARE

- CUSS 1.4/CUSS1.5 (Coming Soon)
- Platform Biometric Module: Enabling more than one application running on the kiosk, to share the biometric software and hardware
- Automatic ID document authentication and verification
- Reporting and Monitoring: Device and usage level statistics through NCR Kiosk Monitoring Solution
- Automatic ID document authentication and verification application along with ID document repository
- Facial recognition technology:
 - APIs and SDK delivery platforms
 - AI and Deep Learning based algorithms for face matching and identification

PROCESSOR

- Intel® Core™ i3-4330TE processor
- Intel® Core™ i5-4590TE processor (Optional)

MOTHERBOARD

- Intel Q87 express chipset
- Intel Active Management Technology 9.0 (AMT)
- On-board RAID support

MEMORY

- 4GB up to 16GB DDR3 1600

STORAGE

- 120GB solid-state drive (SSD)
- 500GB 2.5" SATA HDD, 5400 RPM (Optional)

CONNECTIVITY

- Eleven USB ports:
 - Three 12v USB 2.0
 - One 24v USB 2.0
 - Two PC USB 3.0
 - Five reserved USB ports for integrated devices

One RJ45 powered serial port with optional serial expansion

- 10/100/1000MB (Gigabit) Ethernet LAN
- HDMI and Display Port video outputs
- Audio out

PRE-LOADED OPERATING SYSTEMS

- Windows 7 Pro (32-Bit)
- Windows 10 (64-bit)

CUSTOMER INTERFACE

- 17" projected capacitive touchscreen (Standard) 4x3 aspect ratio, 1280 x 1024 resolution
- Support for 10-finger multi-touch
- High bright LED-backlit display
- 2D Imaging Scanner, HD Res (Standard)
- 3-track encrypted MSR (Standard)
- Boarding Pass Printer (Standard)
- Integrated stereo speakers (Standard)
- Passport Reader; Full Page
- w/ RFID (Optional)
- NFC (Optional)
- Navigational Accessibility Keypad (Optional)
- EMV integrated w/ NFC for Chip and Pin (Optional)
- Wireless module (802.11/Bluetooth) (Optional)
- Front user facing camera (Optional)
- Indicator Light (Optional)
- Lighted Printer Chute (Optional)

PEDESTAL

- Uninterruptible Power Supply (Optional)
- Bagtag Printer - Custom; Single/Dual (Optional)
- Bagtag Printer w/ RFID - Custom; Single/Dual (Optional)
- Bagtag Printer - Vidtronix; Single (Optional)
- 3" Pedestal Riser (Optional)



WHY NCR?

NCR Corporation (NYSE: NCR) is a leader in omni-channel solutions, turning everyday interactions with businesses into exceptional experiences. With its software, hardware, and portfolio of services, NCR enables nearly 700 million transactions daily across retail, financial, travel, hospitality, telecom and technology, and small business. NCR solutions run the everyday transactions that make your life easier.

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