ACCESS CONTROL DEVICE

Access Control Device

The Biometric Access Control Device by Nirikhon (Model NK-FM-AIO6F/Access) supports a minimum of 20,000 faces, 20,000 cards and 3,000 fingerprints, with face verification in ≤1 second and dual visible + IR cameras with liveness detection. A 5-inch or larger IPS touch screen with voice broadcast guides users, while LAN, Wi-Fi, Wiegand and relay interfaces connect door hardware. Includes cloud attendance software with Android and iOS apps.

Access Control Device | Official Brochure



SOLUTION SNAPSHOT

Multi-Biometric Authentication (Face, Fingerprint, RFID Card, Palm & QR)	**High-Capacity Enrollment (Up to 50,000 Faces, 50,000 Cards & 3,000 Fingerprints)**	**Rapid ≤1s Face Verification with ≥99% Accuracy**
Dual Camera System (Visible + IR) with Anti-Spoofing Liveness Detection	**5-Inch IPS Touch Screen with Voice Broadcast**	**Comprehensive Connectivity & Lock Interfaces (Gigabit LAN, Wi-Fi, Wiegand, Relay & RS485)**

OVERVIEW

Built for Real Operations 01

The Biometric Access Control Device by Nirikhon (Model NK-FM-AIO6F/Access) supports a minimum of 20,000 faces, 20,000 cards and 3,000 fingerprints, with face verification in ≤1 second and dual visible + IR cameras with liveness detection. A 5-inch or larger IPS touch screen with voice broadcast guides users, while LAN, Wi-Fi, Wiegand and relay interfaces connect door hardware. Includes cloud attendance software with Android and iOS apps.

CAPABILITIES

Key Features & Product Modules 02

Face Recognition Processing Board (1GB RAM + 4GB Flash)

The processing board handles face matching and liveness checks, with a minimum of 1 GB RAM and 4 GB Flash. It delivers face verification in ≤1 second with a minimum 99% accuracy under normal operating conditions, and supports a minimum of 20,000 faces, 20,000 cards and 3,000 fingerprints.

Dual-Camera Imaging Module (Visible + IR) with Liveness Detection

Dual cameras (visible light plus infrared, or equivalent) capture each subject and support live face detection during verification. Recognition distance is configurable from a minimum of 0.3m to 1.5m or above.

IPS Capacitive Touch Screen with Voice Broadcast

The capacitive touch IPS/LCD screen (minimum 5-inch, 720p equivalent or higher) guides each user through verification, and voice broadcast announces the result audibly.

Multi-Biometric & Card Authentication

The terminal supports face, fingerprint and smart card authentication, along with palm or equivalent contactless biometric technology and QR authentication.

LAN & Wi-Fi Network Connectivity

The terminal connects through LAN or Wi-Fi, with real-time cloud connectivity and Android and iOS app connectivity.

Ethernet, USB Host, Wiegand, Relay & RS-485 Interfaces

The terminal offers 10/100/1000 Ethernet, USB Host, Wiegand, Relay and RS232/RS485 (or equivalent) interfaces for connecting to door hardware and external systems.

Door Lock & Push Switch Integration

The supplied installation scope covers push switch installation, and door lock installation is optional. The relay interface connects the terminal to the door control.

Power Connection Kit

The installation scope covers device adapter mounting and power connection, along with a 10-meter power cable.

Cloud-Based Attendance Software & Mobile Apps

The cloud software provides a live attendance dashboard and feed, plus detailed reports (entry time, exit time, late marking) in daily, weekly and monthly views with export. It also covers bulk employee upload, a basic HRIS profile database, employee self-login, leave and holiday management, enrol-once-use-everywhere, multiple admin access and Android and iOS apps, all hosted in an encrypted provider data center, with a service period of at least 3 years from purchase and future connection to a centralized attendance system.

OPERATIONAL VALUE

Software, Benefits & Outcomes

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Live Graphical Attendance Summary Dashboard

Gives administrators a live graphical view of attendance across the workforce from the web console and mobile app.

- View live attendance totals at a glance
- Monitor attendance status without opening detailed reports
- Spot attendance patterns from one summary screen
- Check the same dashboard on the Android or iOS app

Live Attendance Feed

Streams attendance events as they happen, so live tracking is always current.

- Watch entries and exits appear in real time
- Follow activity across enrolled terminals
- Confirm that a verification was recorded
- Keep a running view of who is on site

Detailed Attendance Reports (Entry, Exit & Late Marking)

Records entry time, exit time and late marking for every employee for institutional review.

- Review entry and exit times per employee
- Identify late arrivals through late marking
- Generate daily, weekly and monthly reports
- Keep structured records for audit review

Live Attendance Reports with Summary & Export

Combines live attendance reporting with a summary and an export option for sharing and record keeping.

- Produce live reports with a summary view
- Export reports for offline review
- Share attendance records with decision-makers
- Archive reports for compliance needs

Bulk Employee Data Upload

Lets administrators load large numbers of employee records at once instead of entering them one by one.

- Upload employee data in bulk
- Speed up onboarding for large workforces
- Reduce manual data entry effort
- Keep employee records consistent

Employee Profile (Basic HRIS) & Enrol Once, Use Everywhere

Maintains a basic HRIS employee database, with one enrollment usable across terminals.

- Store and manage basic employee profile records
- Enrol an employee once and use the enrollment on every terminal
- Avoid repeat enrollment at each door
- Keep identity records in one place

Employee Self-Login

Lets employees log in themselves to view their own attendance information.

- Give employees their own login
- Reduce administrator workload for routine queries
- Let staff check their own records
- Support transparent attendance recordkeeping

Leave & Holiday Management

Manages leave and holidays inside the same platform as attendance, so records stay accurate.

- Record employee leave
- Configure holidays
- Keep attendance reports aligned with leave and holidays
- Manage everything from one console

Multiple Admin Access

Allows more than one administrator to manage the platform, supporting multi-site operations.

- Assign multiple administrators
- Share management duties across teams
- Support oversight across several locations
- Keep administration continuous when one admin is away

Android & iOS Mobile App

Extends live attendance tracking to mobile devices, keeping data in sync with the cloud platform.

- Access attendance information from Android or iOS
- View live summaries on the go
- Stay informed away from the control room
- Use the same cloud data as the web console

SPECIFICATION

Technical Details

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MULTI-BIOMETRIC AUTHENTICATION (FACE, FINGERPRINT, RFID CARD, PALM & QR)
✓ Included

HIGH-CAPACITY ENROLLMENT (UP TO 50,000 FACES, 50,000 CARDS & 3,000 FINGERPRINTS)
✓ Included

RAPID ≤1S FACE VERIFICATION WITH ≥99% ACCURACY
✓ Included

DUAL CAMERA SYSTEM (VISIBLE + IR) WITH ANTI-SPOOFING LIVENESS DETECTION
✓ Included

5-INCH IPS TOUCH SCREEN WITH VOICE BROADCAST
✓ Included

COMPREHENSIVE CONNECTIVITY & LOCK INTERFACES (GIGABIT LAN, WI-FI, WIEGAND, RELAY & RS485)
✓ Included

CONFIGURABLE RECOGNITION DISTANCE (0.3M TO 1.5M AND ABOVE)
✓ Included

GB RAM & 4GB FLASH PROCESSING ARCHITECTURE
✓ Included

RELAY-BASED DOOR CONTROL & PUSH SWITCH INTEGRATION
✓ Included

LIVE GRAPHICAL ATTENDANCE DASHBOARD & LIVE ATTENDANCE FEED
✓ Included

ANDROID & IOS MOBILE APP ACCESS WITH 3-YEAR CLOUD SOFTWARE SERVICE PERIOD
✓ Included

DETAILED ATTENDANCE REPORTS WITH EXPORT OPTION
✓ Included

MULTIPLE ADMIN ACCESS, EMPLOYEE SELF-LOGIN & LEAVE/HOLIDAY MANAGEMENT

✓ Included

BULK EMPLOYEE DATA UPLOAD & ENROL-ONCE-USE-EVERYWHERE

✓ Included

QUESTIONS

Frequently Asked Questions

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Q. How reliable is the liveness verification against photo or video spoofing attempts?

A. The terminal uses dual cameras (visible light plus infrared, or equivalent) with liveness detection, and live face detection is part of the specification. Recognition accuracy is specified at a minimum of 99% under normal operating conditions. The specification sheet does not publish attack-specific test rates against photo or video spoofing, so evaluators wanting those figures should request them from the manufacturer.

Q. Can the terminal handle a large enrolled population of up to 50,000 faces and cards?

A. The terminal is specified for 50,000 faces, 50,000 cards and 3,000 fingerprints, backed by a minimum of 1 GB RAM and 4 GB Flash, with face verification in ≤1 second. This gives high-volume facilities a single-device capacity that meets the specification.

Q. What happens to connectivity if the LAN link fails and the terminal must use Wi-Fi?

A. The terminal supports both LAN and Wi-Fi connectivity, with real-time cloud connection and Android and iOS app connectivity. The specification does not describe automatic failover between the two links, so failover behavior should be confirmed with the manufacturer during technical evaluation.

Q. Can the terminal work with third-party door locks and barrier systems?

A. The terminal offers Wiegand, Relay and RS232/RS485 (or equivalent) interfaces, plus a USB Host port and 10/100/1000 Ethernet, so it can be wired into existing door control hardware. Push switch installation is included in the installation scope, and door lock installation is optional. Barrier gate integration is not separately specified, so it should be verified for each site.

Ready to deploy Access Control Device?

Talk to Nirikhon for product consultation, installation planning, integration support, and enterprise deployment.

Hotline: 09647 120 120 | Website: www.nirikhon.com