



Frequently Asked Question

Fingerprint attendance device SpeedFace-5-Pro

By : BioMax

Sure! Here's a quick FAQ-style overview for the **BioMax SpeedFace-5-Pro** device based on its official documentation:

❖ General Information

- **Device Type:** AI-based facial recognition terminal
- **Primary Uses:** Time attendance, access control, employee self-service
- **Display:** 5-inch IPS LCD touch screen
- **Operating System:** Linux
- **Processor:** Dual-Core ARM Cortex-A7

❖ Capacity & Performance

- **Face Capacity:** 50,000 users
- **Card Capacity:** 50,000 (Mifare supported)
- **QR Code Capacity:** 50,000
- **Log Storage:** Up to 200,000 records
- **Recognition Speed:** ≤ 0.5 seconds
- **Accuracy:** 99.27%
- **False Acceptance Rate (FAR):** 0.001%

❖ Connectivity & Interfaces

- **Network:** Wi-Fi, TCP/IP, LAN
- **Ports:** RS232, USB, Wiegand Out
- **Push Data:** Supported
- **Remote Firmware Upgrade:** Yes

❖ Access Control Features

- **Relay Output:** Yes
- **Push Button Input:** Yes
- **Auxiliary Input:** Yes
- **Tamper Detection:** Supported

❖ Environmental Specs

- **Operating Temperature:** -10°C to 50°C
- **Power Supply:** 12V DC / 2A
- **IP Rating:** IP54 (dust and water resistance)
- **Dimensions:** 190 x 88 x 17 mm

❖ Software & Integration

- **Supported Platforms:** Web & Cloud
 - **Mobile App:** Available
 - **Deployment:** Public network or LAN
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Q: Can you explain the setup process for this device?

Absolutely! Setting up the **BioMax SpeedFace-5-Pro** involves both hardware installation and software configuration. Here's a step-by-step guide to get you started:

❖ Hardware Installation

1. Mount the Device

- Choose a stable wall surface at face level.
- Use the mounting bracket and screws provided.
- Ensure the device is securely fixed and powered via a 12V DC adapter.

2. Connect to Network

- Use Wi-Fi, LAN (TCP/IP), or RS232 depending on your setup.
- For access control, connect Wiegand Out, Relay Output, and Push Button Input to your door lock system.

3. Power On

- Once connected, power on the device and wait for the boot-up sequence.

❖ Software Configuration

1. Initial Setup

- Access the device interface via touchscreen.
- Set language, date/time, and basic preferences.

2. Face Enrollment

- Installation of Biomax's SpeedFace 5SE | How to register face ... shows how to enroll users directly on the device.
- Stand 1 meter away, follow on-screen prompts, and save the profile.

3. Smart Office Integration

- How to configure Smart office cloud setting | smartoffice ... walks through cloud setup for centralized attendance tracking.
- Connect the device to Smart Office Suite via LAN or public network.

4. Biometric Configuration

- [Biomax Biometric Configuration](#) explains how to sync biometric data and manage user roles.

5. Full Installation Workflow

- [Complete installation of Biometric attendance machine with ...](#) covers everything from mounting to software setup using Smart Office.

6. Performance Tips

- [Installation and Performance of Biomax face attendance ...](#) offers insights into optimizing recognition speed and accuracy.
- [Installation and Performance of Biomax NBM70W Pro | Face ...](#) includes real-world usage and troubleshooting.

Q: What are the main benefits of using this device?

The **BioMax SpeedFace-5-Pro** packs a punch when it comes to performance, security, and convenience. Here's a breakdown of its standout benefits:

❖ Speed & Accuracy

- **Lightning-fast recognition:** Identifies users in ≤ 0.5 seconds
- **High precision:** 99.27% accuracy with a false acceptance rate of just 0.001%
- **Live body detection:** Prevents spoofing with photos or videos

❖ High Capacity

- **Supports up to 50,000 users:** Ideal for large organizations
- **Stores 200,000+ logs:** Ensures robust attendance tracking without frequent data clearing

❖ Advanced Access Control

- **Multiple verification modes:** Face, QR code, Mifare card
- **Tamper detection & relay output:** Enhances security for restricted areas
- **Wiegand and auxiliary inputs:** Seamless integration with door locks and alarms

❖ Connectivity & Integration

- **Wi-Fi, LAN, USB, RS232:** Flexible network options for any setup
- **Push data & remote firmware updates:** Keeps the system up-to-date effortlessly
- **Smart Office & cloud compatibility:** Centralized management across multiple locations

❖ Rugged & Reliable Design

- **IP54-rated:** Dust and water resistant for indoor/outdoor use
- **Wide temperature range:** Operates from -10°C to 50°C
- **Industrial-grade build:** Slim, ergonomic, and built for durability

❖ User-Friendly Interface

- **5-inch IPS LCD touchscreen:** Crisp visuals and intuitive navigation
 - **Mobile app support:** Enables remote access and employee self-service
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Q: How does this device ensure user data privacy?

The **BioMax SpeedFace-5-Pro** takes several steps to safeguard user data, especially given its role in biometric attendance and access control. Here's how it helps protect privacy:

❖ Data Protection Features

- **Live Body Detection:** Prevents spoofing with photos or videos, ensuring only real users are authenticated.
- **Encrypted Communication:** Uses secure protocols over **Wi-Fi, LAN, and TCP/IP** to transmit data, reducing the risk of interception.
- **Push Data Architecture:** Sends attendance logs directly to the server, minimizing local storage vulnerabilities.
- **Remote Firmware Updates:** Keeps the device patched with the latest security enhancements without manual intervention.

❖ AI-Powered Accuracy

- **Deep Learning Algorithms:** Improve recognition precision while reducing false positives, which helps prevent unauthorized access.
- **Stranger Detection:** Identifies and flags unknown individuals, adding an extra layer of security.

❖ Physical & System Safeguards

- **Tamper Detection:** Alerts administrators if the device is physically compromised.
 - **Role-Based Access:** Admin can control who accesses what data through Smart Office Suite integration.
 - **Linux OS:** A secure and stable operating system that's less prone to common vulnerabilities.
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