



# BioStation 3

The New Door Access Experience



**suprema**  
SECURITY & BIOMETRICS



## Overview

BioStation 3 sets a new standard in access control, providing a new door access experience that enables improved security across all doors, for organizations of all sizes. This terminal is smaller than previous model, yet it has the largest variety of features.

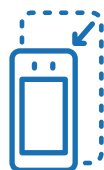
With highly advanced facial recognition, access credentials and usability features, BioStation 3 makes it easier than ever to safely, securely and conveniently protect an organization's physical security and users' personal data.



Multiple Contactless Credentials



Safely Protect Users' Personal Data



47% Reduction in Size and Simple Installation



Connect Anytime and Anywhere with VoIP Intercom





## Multiple Contactless Access Methods

BioStation 3 provides multiple credential options. Choose from the most convenient authentication methods — all contactless and perfectly compatible with a post-pandemic world.

Facial Recognition



Mobile Access



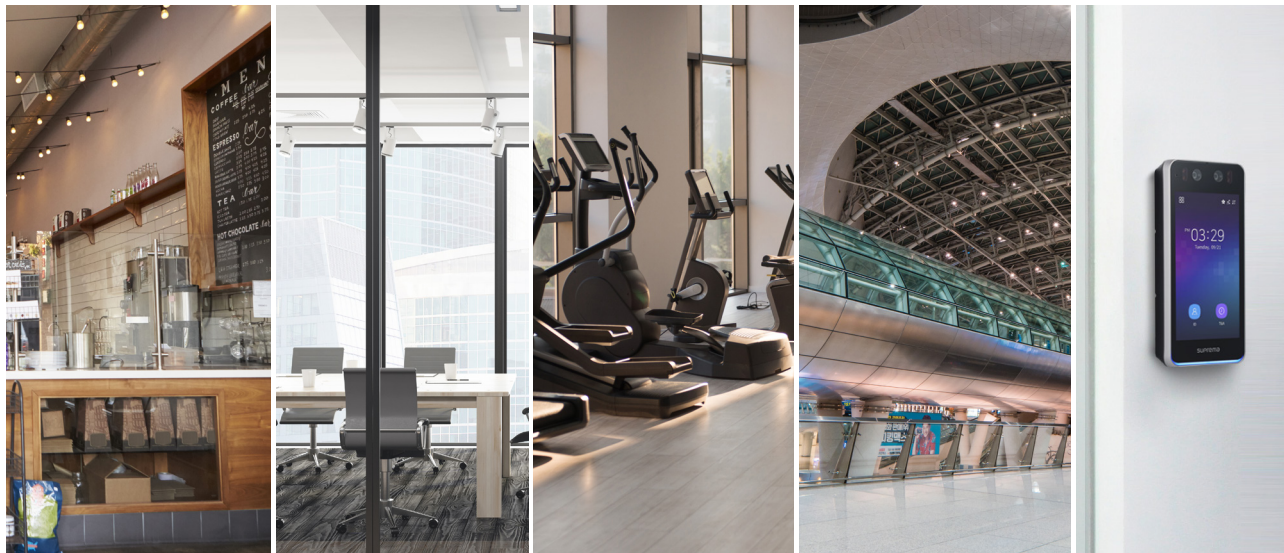
QR and Barcode



RFID Card

## Perfect for Any Door, Any Business

BioStation 3 is easy to install and scale in any environment, from small offices to massive enterprise buildings. It features a 47% size reduction compared to Suprema's previous bestselling facial recognition terminal, FaceStation F2.

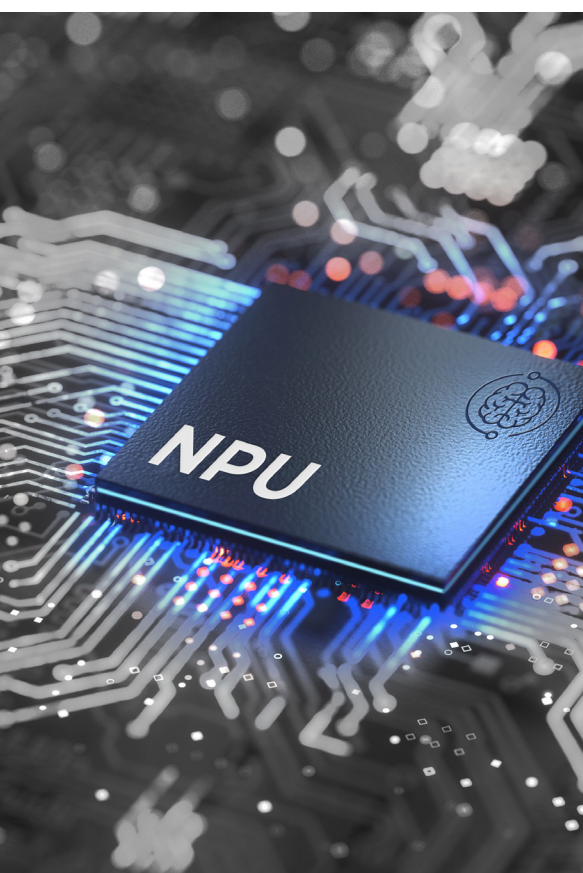


- Slim and compact design
- Less wiring and quick installation through Wi-Fi and POE+ support
- Simple to add on new features via custom USB host connecting to SIM Slot, RS232, etc.
- Suitable for indoor and outdoor environments — the terminal is rated IP65 and IK06\*

\*Refer to the installation guide for details



## Fast and Smart AI Optimized for Facial Recognition Access



Suprema took its facial recognition technology to the next level. BioStation 3 is a high-tech edge device that can run AI algorithm locally. It uses an NPU, or Neural Processing Unit, to maximize the performance of its AI engine. Combined with Suprema's domain knowledge and experience as a two-decade access control leader, BioStation 3's NPU-optimized AI algorithm offers the highest standards in facial recognition accuracy and speed.



Accurately and rapidly recognize moving faces in high-traffic areas



Use dynamic face templates to increase matching performance with faces wearing masks, glasses, hats, beards, different hairstyles, etc.



Detect fake faces, images and photos



# The Highest Level of Privacy Protection

BioStation 3 takes data protection very seriously.

- ISO/IEC 27001 certified to protect privacy and biometric data
- Designed to comply with GDPR, one of the strictest privacy regulations
- Embedded with Secure Element(SE) to prevent cyber-attacks
- Completed penetration testing through a verified institution
- Provided with 'Face Template on Mobile'\* credential

\*Available by the first half of 2023



## What is 'Face Template on Mobile'?

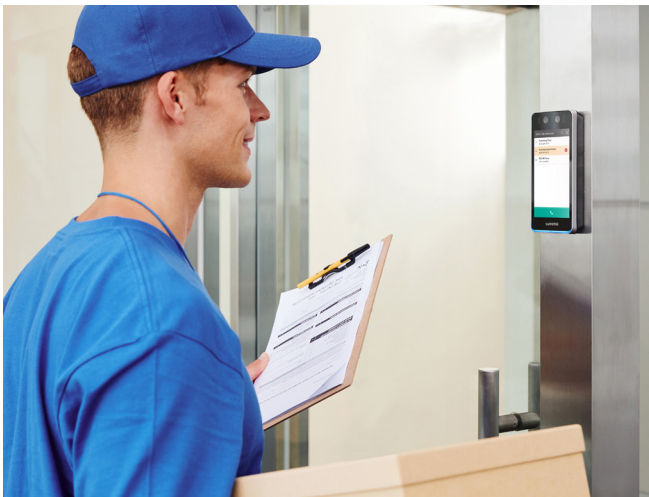
### – Own Your Own Data

Suprema's exclusive authentication method 'Face Template on Mobile' lets users enroll into an access control system and store their face profile directly on their own mobile devices. This gives the users complete control over their own ID and their privacy. Users' biometric data is not stored in company databases.

## Easy Communication Across All Access Points

BioStation 3 enables integrated management over an entire access control system.

- Communicate seamlessly with all doors via VoIP Intercom
- Enable video monitoring via RTSP(Real Time Streaming Protocol)



# Specifications

| Model Name |                                     | BS3-DB   | BS3-APWB  |  |
|------------|-------------------------------------|--|---|--|
| Biometric  |                                     | Face   |   |  |
| Credential | RF Option                           | 125kHz EM & 13.56MHz MIFARE, MIFARE Plus, DESFire, DESFire EV1/EV2/EV3 <sup>(1)</sup> , FeliCa | 125kHz EM, HID Prox & 13.56MHz MIFARE, MIFARE Plus, DESFire, DESFire EV1/EV2/EV3 <sup>(1)</sup> , FeliCa, iCLASS SE/SR/Seos |  |
|            | RF Read Range <sup>(2)</sup>        | EM/HID iCLASS/MIFARE: 30 mm, HID Prox/DESFire: 25 mm, FeliCa: 15 mm                            |   |  |
|            | Mobile                              | NFC, BLE   |   |  |
|            | Barcode and QR code                 | Supported <sup>(3)</sup>   |   |  |
| General    | CPU                                 | 1.5GHz Quad Core   |   |  |
|            | Memory                              | 32GB Flash + 4GB RAM   |   |  |
|            | Crypto Chip                         | Supported  |   |  |
|            | LCD Type                            | 5.5" IPS color LCD   |   |  |
|            | LCD Resolution                      | 720 x 1280 pixels  |   |  |
|            | Sound                               | 16 bit   |   |  |
|            | Operating Temperature               | -20°C ~ 50°C (-4°F ~ 122°F)  |   |  |
|            | Operating Humidity                  | 0% ~ 80%, non-condensing   |   |  |
|            | Camera                              | 2MP x 2EA (Visual, IR)   |   |  |
|            | Dimension (W x H x D, mm)           | 82.5 x 171 x 23.4  |   |  |
|            | Weight                              | Device: 370g   | Device: 380g  |  |
|            | Ingress Protection (IP)             | Bracket (Including washer and bolt): 90g   |   |  |
|            | Vandal Proof (IK)                   | IP65   |   |  |
|            | Certificates                        | IK06   |   |  |
| Face       | Recognition Distance                | KC, CE, UKCA, FCC, RCM (Compliance: RoHS, REACH, WEEE)   |   |  |
|            | Recognition Height                  | 0.6 ~ 1.0 m (23.6"~39")  |   |  |
|            | Matching Speed                      | 1.4 ~ 1.9 m (55.1"~74.8")  |   |  |
|            | Live Face Detection (Anti-Spoofing) | Less than 0.3 sec  |   |  |
| Capacity   | Max. User                           | Supported  |   |  |
|            | Max. Credential (1:N)               | 100,000 <sup>(4)</sup>   |   |  |
|            | Max. Credential (1:1)               | Face: 50,000   |   |  |
|            | Max. Text Log                       | Face: 100,000 / Card: 100,000 / PIN: 100,000   |   |  |
|            | Max. Image Log                      | 5,000,000  |   |  |
| Interface  | Ethernet                            | 10/100/1000 Mbps, auto MDI/MDI-X   |   |  |
|            | Wi-Fi                               | -  | 802.11 b/g/n 2.4GHz   |  |
|            | RS-485                              | 1ch Host or Slave (Selectable)   |   |  |
|            | Wiegand                             | 1ch Input and 1ch Output   |   |  |
|            | TTL Input                           | 3ch Inputs   |   |  |
|            | Relay                               | 1 Relay  |   |  |
|            | PoE                                 | -  | IEEE 802.3 at compliant   |  |
|            | Intercom                            | Supported  |   |  |
|            | RTSP (Real Time Streaming Protocol) | Supported  |   |  |
|            | USB                                 | Supported  |   |  |
|            | Extended USB                        | USB 2.0 (Host)   |   |  |
| Tamper     | Supported                           |  |   |  |
| Power      | DC 12V 2.5A, DC 24V 1.2A            |  |   |  |

<sup>(1)</sup> DESFire EV2/EV3 cards are supported by having backward compatibility of DESFire EV1 cards. CSN and smart card functions are compatible with BioStation 3.

<sup>(2)</sup> RF read range will vary depending on the installation environment. <sup>(3)</sup> Requires a separate license. <sup>(4)</sup> The number of users registered without having any credential data.



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