



ArdanShield

SMART ACCESS / USER MANUAL

BioLock™

Installation & user guide



Simple access. Clear control.

Installation • Setup • Everyday use



Your guide

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Meet BioLock



BioLock combines face recognition, fingerprint, PIN and card access with inside lock and unlock controls. Its radar can wake the lock as you approach.

Everyday control	Action
Outside unlocking	Use an enrolled face, fingerprint, PIN or card.
Inside unlocking	Press the inside unlock button.
Outside locking	Press the outside lock key.
Inside locking	Press the inside lock button.

First setup is essential

In the factory state, any fingerprint, PIN or card can open the lock. Add an administrator and test that unregistered credentials are rejected before relying on it.



Power & installation checks

Have the complete lock and mortice fitted and aligned for your door. Keep the door open for commissioning and confirm that the bolt runs freely before setting automatic locking.

Item	Details
Power	7.4V battery system. Use the matching battery pack.
Low-power threshold	Below 6.9V. Recharge or replace the matching pack promptly.
Emergency input	5V through the Micro-USB emergency input.
Wi-Fi	2.4GHz.
Panel dimensions	423.6mm high × 70mm wide; body depth 19mm and maximum projection 39mm.

Do not force the mechanism

If the lock strains, rubs or fails to travel fully, leave the door open and have the fit corrected. Increasing motor force is not a substitute for proper alignment.

Before handover, test outside access, inside release, the mechanical override supplied with the lock and the required locking behaviour.



Open the settings menu

- 1 Wake the keypad. Press * followed by #.
- 2 Verify using an administrator credential. This verification is not required before the first administrator is enrolled.
- 3 Choose the main-menu option and follow the display and voice prompts.

Main menu	Options
1 Add user	1 Administrator / 2 Ordinary user / 3 Network / 4 Face.
2 Delete user	1 By user ID / 2 Clear ordinary users / 3 Delete face / 4 Clear faces.
3 Options	1 Date and time / 2 Function settings / 3 Installation settings / 4 Factory reset.
4 Log, language & voice	1 Quick query / 2 Query by time / 3 Language / 4 Voice.

Switch to English

Open the administrator menu, then choose 4 / 3 / 2 for English voice.



Add administrators & users

Administrator access

From the main menu select **1 Add user / 1 Add administrator**. Administrator identities are **001-010**, up to ten in total.

Ordinary access

Select **1 Add user / 2 Add user**. Ordinary-user identities are **011-250**, up to 240 in total.

Credential	Enrolment
Fingerprint	Scan the same finger four times as prompted, lifting it between scans.
PIN	Enter a 6-12 digit PIN and confirm as prompted.
Card	Present the card to the reader when prompted.

Manage by identity

Keep a private record of each user ID and the person it belongs to. Administrator 001 can only be removed by factory reset.



Enrol a face

- 1 Open the administrator menu. Select 1 Add user, then 4 Add face.
- 2 Stand naturally in front of the face module and follow the on-screen and voice prompts.
- 3 Capture the five guided views: forward, slightly up, slightly down, left and right.
- 4 Wait for completion, then test recognition with the door open.

Recognition and approach

Keep the face module clean and unobstructed. The radar's approach-detection distance is approximately **0.8-1.5m**. Configure body-detection distance in Function settings to suit the approach to your door.

Busy corridors

Frequent radar wake-ups increase power use. In a high-traffic position, reduce the detection distance or turn off radar wake if it is not needed.



Delete access

Task	Menu route and action
Delete a user	2 Delete user / 1 Delete by ID. Enter the identity and confirm. IDs 002–250 can be removed individually.
Clear ordinary users	2 Delete user / 2 Clear all users. Administrator identities are retained.
Delete one face	2 Delete user / 3 Delete face. Enter the face ID from 00 to 99. Press # to confirm or * to cancel.
Clear all faces	2 Delete user / 4 Clear faces. Press # to confirm or * to cancel.

Check the result

Deletion removes access. Make sure you selected the intended person, then test that the deleted credential no longer unlocks.

To remove administrator 001, use the factory-reset procedure. This clears the lock and requires a new setup.



Locking & security settings

Open **3 Options / 2 Function settings** to configure the following controls.

Setting	What it does
Safe mode	Administrators use one credential. Ordinary users must provide two valid credentials.
Open time	Set the opening interval from 2 to 8 seconds.
Auto close	Choose Off, 20, 40 or 60 seconds.
Body distance	Set the radar wake distance for your doorway.

Masked PIN entry

You can place extra digits before or after the correct PIN. The complete entry can contain up to **24 digits**; the correct PIN must appear as one continuous sequence. Confirm with #.

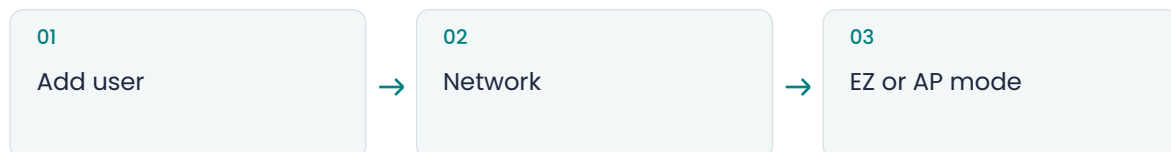
Incorrect attempts

More than five consecutive incorrect attempts trigger a **2-minute lockdown**. Wait for the lockdown to end before trying again.



Connect to Tuya

ON THE LOCK / WI-FI SETUP



- 1 Install Tuya Smart or Smart Life, create an account and connect your phone to the intended 2.4GHz Wi-Fi network.
- 2 At BioLock, open the administrator menu. Choose 1 Add user / 3 Network, then select the network option.
- 3 Choose EZ mode for normal pairing, or AP mode when the app asks you to use a device hotspot. Match the mode in the app to the mode selected at the lock.
- 4 In the app, add a compatible Wi-Fi door lock and enter the Wi-Fi password. Follow the pairing prompts until the lock is added.
- 5 Name the device and test the available functions.

Stay with the lock during setup

Keep the phone nearby and the lock awake. If pairing fails, check the Wi-Fi password, 2.4GHz network and matching pairing mode before retrying.



Time, sound & records

Task	Menu route
Set date and time	3 Options / 1 Date and time. Enter the current values as prompted.
English voice	4 Log, language & voice / 3 Language / 2 English.
Turn voice on or off	4 Log, language & voice / 4 Voice.
Browse records	4 Log, language & voice / 1 Quick query. Use 1 for the previous record and 2 for the next.
Find records by time	4 Log, language & voice / 2 Query by time. Enter the date or time requested.

Optional dynamic-password service

Where the WeChat dynamic-password service is configured for your lock, use its matching-code setup and time-limited password controls. Keep the matching code private and share only the generated access PIN with the intended visitor.

Use the correct local date and time before creating any time-dependent access.



Installation settings

These settings affect the motor and door operation. Use them during commissioning with the door open, under the guidance of your installer.

Route: 3 Options / 3 Install settings	Choices
1 Lock direction	Left or right.
2 Force	High, middle or low.
3 Invert	150–450ms reverse interval.
4 Tamper	Tamper detection on or off.

Check every change

Test a full lock and unlock cycle with the door open, then check the aligned door. Keep a working alternative means of entry available.

Avoid changing these settings during normal use unless your installer is correcting a specific issue.



Low battery & emergency power

When the low-power warning sounds

Below 6.9V, recharge or replace the matching battery pack promptly. Do not wait until the motor can no longer operate.

Use emergency power

- 1 Connect a suitable 5V USB power source to the Micro-USB emergency input.
- 2 Allow a brief period for power to become available if the battery is deeply discharged.
- 3 Unlock with an authorised credential, then restore normal battery power.

Emergency input is temporary

Do not use the external emergency input for long-term charging. After gaining access, remove the battery and charge it using its dedicated compatible 5V charger.

Keep battery contacts clean and dry. Do not fit a damaged, swollen or incompatible pack.



Factory reset

This erases the lock

Resetting removes the configured access and settings. Keep the door open, retain a working mechanical key and arrange to enrol the administrator again immediately.

Reset in the menu

Open the administrator menu, then select **3 Options / 4 Factory reset**. Press **#** to confirm or ***** to cancel.

Reset using the inside controls

Press the inside **lock and unlock buttons together for 3 seconds** to restore the factory state.

After the reset

- 1 Enrol a new administrator before closing the door.
- 2 Restore users, faces and network settings as required.
- 3 Test authorised access and rejection of unregistered credentials. The factory state accepts any fingerprint, PIN or card.



Technical reference

Item	Value
Credential capacity	350 combined face, fingerprint, PIN and card entries.
Face capacity	Up to 100.
Fingerprint capacity	Up to 100.
Card technology / reading distance	Mifare / NFC; 0-40mm.
Face recognition	3D.
Radar approach detection	Approximately 0.8-1.5m.
Operating temperature	-20°C to 60°C.
Operating humidity	10%-90%.
Storage temperature	-30°C to 70°C.
Power / low-power threshold	7.4V / below 6.9V.

Individual credential limits also sit within the overall system capacity. Use the user and face IDs shown by the lock when maintaining access.



Care & support

Keep it working well

Clean the exterior with a soft, dry cloth. Keep liquid, cleaning sprays and abrasive products away from the keypad, sensor and electrical connections.

Keep your emergency key in a secure, accessible place outside the locked area. Replace compromised credentials promptly and remove access that is no longer needed.

If you need help

Contact ArdanShield through the website with your product name, order number and a description of the issue. A photograph of the installation or the message shown can help. Never send your administrator PIN, account password or verification codes.

Visit [ArdanShield support](#)

Before closing up

After any installation, battery change or access-setting change, test operation with the door or compartment open. Then close it and check that it is secure.