



## F-X20FO Fingerprint safe



### Preface

- Thank you for purchasing F-X20FO Fingerprint safe.
- Please read this **User Manual** carefully before unpacking.
- Store this **User Manual** for future reference (Do not discard).
- Keep debris and sharp object away from the scanning window.
- Manufacturer, or their representatives, will not be responsible for any damage caused by the mishandling of this safe.

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## 1. Introduction

### 1.1 Characteristics and capabilities of F-X20FO Fingerprint Safe

**F-X20FO** Electronic safe with fingerprint keypad, Motorized lock Biometric Fingerprint Access, No codes or combinations to remember, open with a fingerprint or mechanical key.

- The **F-X20FO** is produced in one classical color: black
- Easy to install.
- Easy to Operate.
- **F-X20FO** can be installed on either floor or wall
- The unit is shipped with 2 overriding keys for emergency purposes.
- This unit is capable of enrolling up to 30 users with one fingerprint each.
- Low Voltage Alert

**F-X20FO** operates on 4 AA batteries. Long life batteries will last approx 1 year under normal condition.

When the unit is turned on and the batteries are low, you will hear alert beeps with blinking or keeping on red light above the scanning window, please replace the batteries as soon as possible.

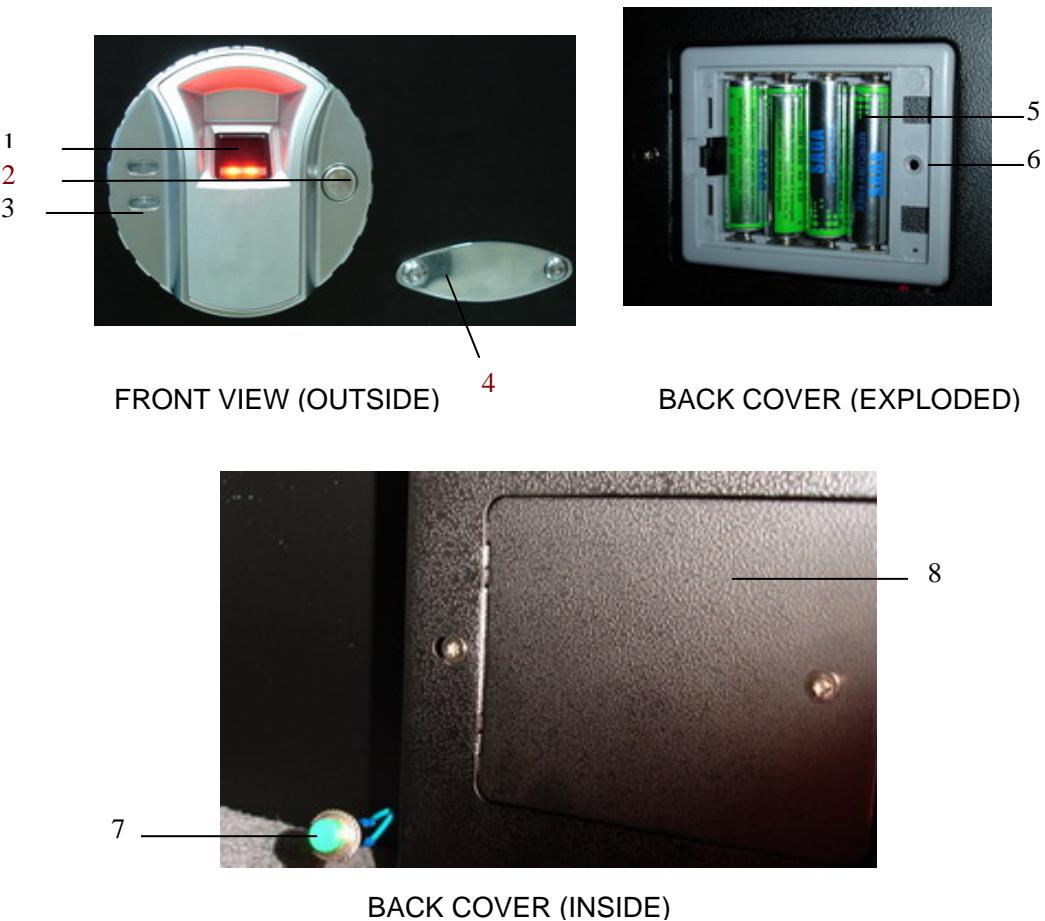
**NOTE-** When you replace the batteries, after removing them, you should press the **power on button** first. None of the saved fingerprints, or settings, will be lost during replacement of batteries.

## 1.2 Where can F-X20FO be used?

The **F-X20FO** fingerprint safe can be used in:

Hotel, Offices, Homes

## 1.3 Unit Descriptions



1. SCANNING WINDOW	5. BATTERY COMPARTMENT
2. POWER ON BUTTON	6. ATTACHING SCREW HOLE
3. GREEN / RED LIGHT	7. INITIALIZATION BUTTON
4. OVERRIDING KEYS COVER	8. BATTERY COVER

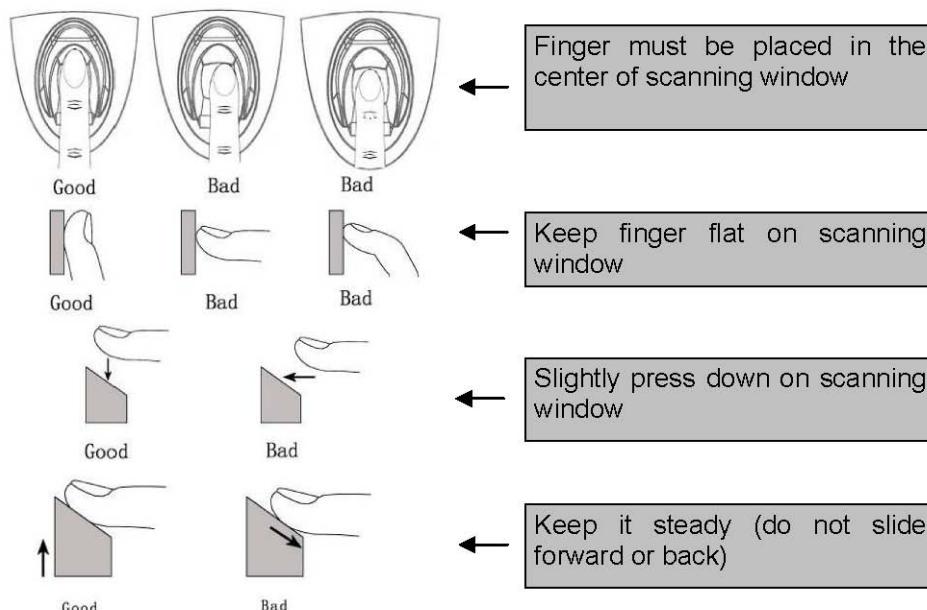
## 2. Before Usage

### 2.1 Positioning your finger

**Note:** Please get acquainted with the proper finger placement.

Place either your right or left-hand finger on the scanner with moderate pressure as flat as possible. The center of the fingerprint contains most of the imaging.

Shown below are the right and wrong way of placing fingers:



### 2.2 Inserting / Replacing Batteries

#### - Inserting New Batteries

Screw off batteries cover, insert 4 new long life AA batteries and screw on cover back.

#### When to Replace Batteries?

When batteries are low and the unit is turned on, the red light will flash along with alert beeps.

**Note:** During and after batteries are replaced, the registered fingerprints and other setup functions will remain intact.

### 3. Setup

#### 3.1 Resetting System (All Saved Fingerprints Will Be Deleted)

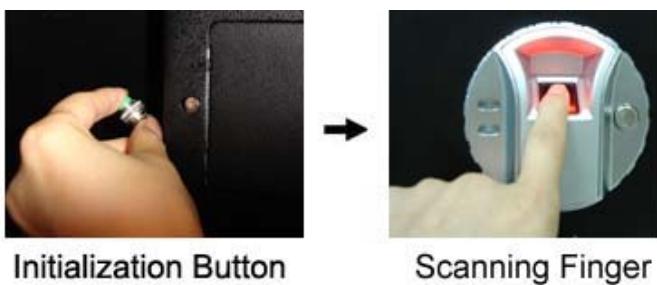
All users can force remove all registered fingerprints and reset the unit.



Door position: OPEN

1. Cut off the power (remove a battery), then press **POWER ON BUTTON** and release.
2. Press and hold the initialization button on the back cover.  
Insert back the battery to get the power in 8 seconds, you will hear the buzzer sound long tone "Di" once, and the green light will blink once. Then the buzzer will sound long tone "Di Di" twice and at the same time the green light will blink twice indicating the system has been reset to manufacture setting.
3. Loosen your hand.

#### 3.2 Registering / Enrolling New Users



Door position: OPEN

1. Press the initialization button on the back cover and release. The buzzer will sound long tone "Di" once, green and red light will be turn on simultaneously.
2. When the red light (above the scanning window) turns steady red (scanning in process) ,new user inserts any one of his/her fingers on the scanning window;

during the enrollment process, the light will turn steady red twice (when the light turns steady red, insert the finger you wish to register, when it turns off, remove the finger).

3. Users must scan the same finger twice. After the 2nd scan of the same finger, the buzzer will sound "Di Di" and the green light will turn on then off indicating a successful enrollment.

#### Notice

- (1).If you don't put on your finger to the sensor in 5 seconds as the red light is on or appear error in the process of login fingerprint, the buzzer sounds short tone "Di" twice and the red light blinks twice which indicate error. You should repeat the previous steps until you succeed.
- (2).When the enrolled fingerprints are up to 30 and login the fingerprint, the red and green light will blink 10 times alternately.

### 3.3 Verifying Fingerprint

Door position: unlock

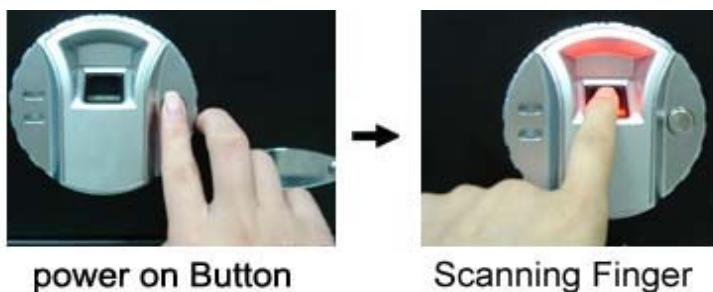
To verify the fingerprint was registered or not, try to unlock. If the unit unlocks, the fingerprint was registered successfully.

#### Unlocking procedure

Press and release **POWER ON BUTTON**. When the red light turns on, insert your registered finger, once the red light turns off, remove your finger. The green light will turn on, and the unit will unlock.

## 4. Operation

### 4.1 Unlocking the Door



1. Press and release the **POWER ON BUTTON**, the red light (above the scanning window) will turn on. Put finger on the scanning window for recognition, remove finger when the red light turns off. The buzzer sound "Di", the green light will turn on then off and the door will unlock simultaneously.

Note: If the red light (red/green light) turns on and off and the buzzer beeps twice, your finger might have not been positioned properly. You need to redo.

### 4.2 Locking the Door

After closing the door, press the **POWER ON BUTTON** and release, the deadbolt will protrude outwardly, locking the door (You will hear 1 beeps for reassurance ).

## 5. Overriding Key

Each unit comes with 2 Keys. Keys should be used only when, and if, unit becomes dysfunctional.



Screw off the overriding key cover



Open the door with key

## 6. Specifications

Optical Fingerprint Sensor	solid surface plated membrane 300,000 pixels colourful CMOS
Resolution	500 dpi
Resist And Assault Ability	4H pencil assault 1000 times in succession within the range of 20cm
Matching Time	≤ 1second
Matching Mode	1:N
FRR (False Rejection Rate)	< 1%
FAR (False Acceptance Rate)	< 0.0001%
Fingerprint Reader	360°
Fingerprint Capacity	30
Light Interference	out light or sunshine directly acceptance
Optical Glass	nanometer plated membrane protected surface , increasing wear resisting degree
Static consumption	<10uA
Dynamic consumption	≤120mA
Communication Protocol	TTL or Serial (RS232)
Operating Voltage	DC 4.5-7V(4 xAA size Alkaline Batteries )
Using Environment Temperature	5 °C ~ 50 °C
Operating Humidity:	45%RH ~ 80% RH