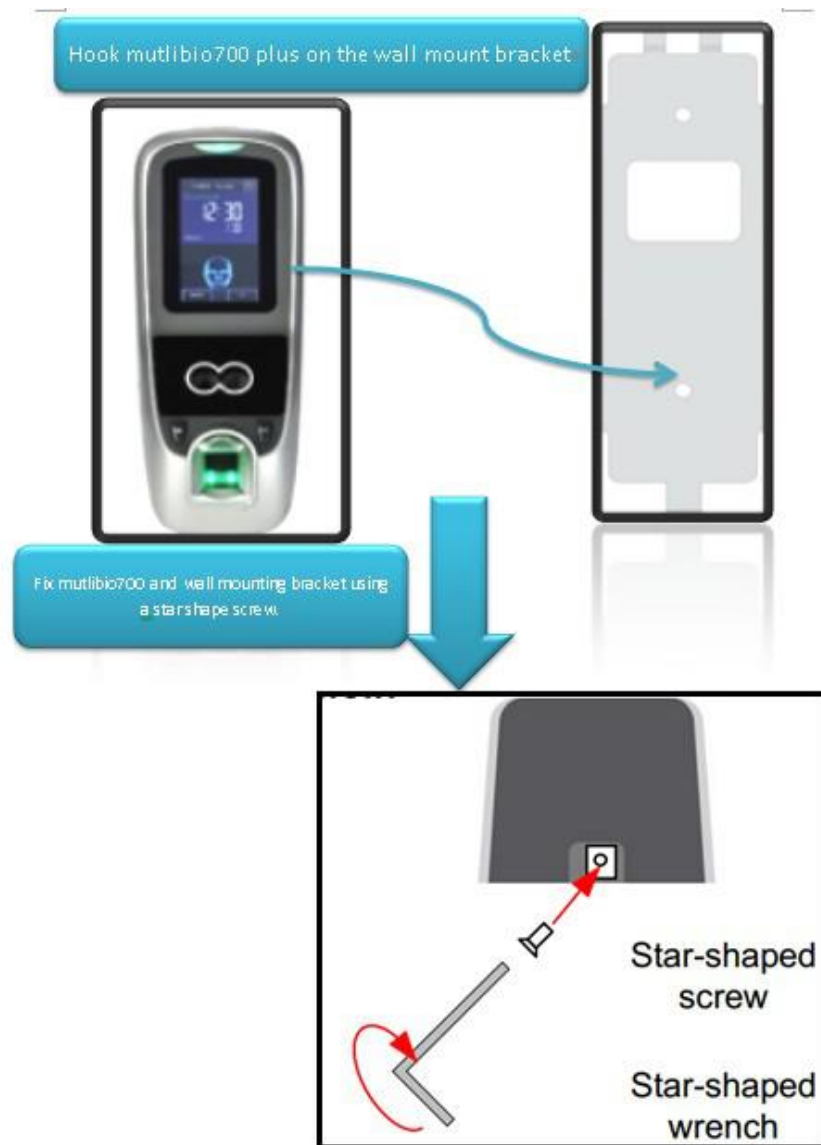# MultiBio700 Quick Start Guide

Important Notes

- Do not place the MultiBio700 under strong light.
- Use regulated DC 12V/3A power source (supplied from control panel or separately purchased power supply).
- Do not place the MultiBio700 in a vulnerable location.

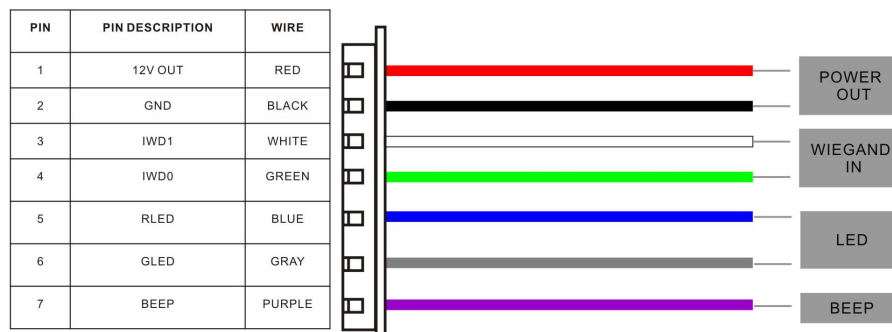# Contents

1. Mounting the Unit

- Post the mounting template on the wall. Drill the holes according to the marks on the template (holes for screw and wiring).
- Create conduits for the power and network cable on the wall so that the unit receives the connections from the back of the wall.
- Remove the screw at the bottom of the unit when held vertically.
- This will remove the back plate of the unit.
- Install the back plate of the unit on to the wall and connect the power and network cables from the behind the back plate.
- Connect the wires of the access control terminal of the device, including lock control, exit button, door sensor, doorbell and alarm etc.
- Secure the front of the unit on the back plate by reinstalling the removed screw from the bottom of the unit earlier.

Hook mutlibio700 plus on the wall mount bracket

Fix mutlibio700 and wall mounting bracket using a star shape screw.

Star-shaped screw

Star-shaped wrench

2. Hardware Setup

· Power on the unit by supplying DC 12V/3A to the power and GND pins on the back of the unit. The power supply is not supplied with the unit. Please make sure that the power requirements are strictly met to avoid permanent damage to the unit.
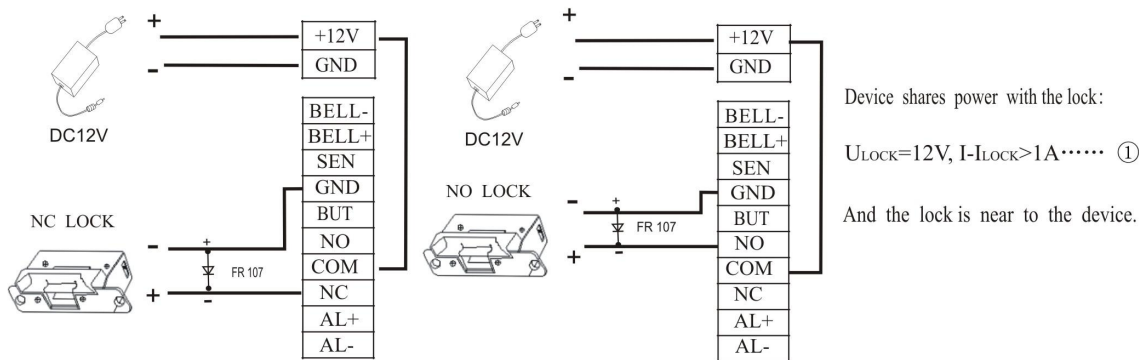
· After the Power on, the device will show the date, day and time on the screen.

3. Cable Specification

PIN	PIN DESCRIPTION	WIRE
1	+12V	RED
2	GND	BLACK

POWER IN

PIN	PIN DESCRIPTION	WIRE
1	BELL-	PURPLE
2	BELL+	BROWN
3	SEN	WHITE
4	GND	BLACK
5	BUT	GRAY
6	NO1	BLUE
7	COM1	RED
8	NC1	YELLOW
9	AL+	ORANGE
10	AL-	GREEN

BELL
SENSOR
BUTTON
LOCK
ALARM

PIN	PIN DESCRIPTION	WIRE
1	485-	YELLOW
2	485+	BLUE
3	GND	BLACK
4	TXD	PURPLE
5	RXD	GRAY
6	GND	BLACK
7	WD1	WHITE
8	WD0	GREEN

RS485
RS232
WIEGAND OUT

PIN	PIN DESCRIPTION	WIRE
1	RJ45-6	BLACK
2	RJ45-3	RED
3	RJ45-2	GREEN
4	RJ45-1	YELLOW

TCP/IP

PIN	PIN DESCRIPTION	WIRE
1	12V OUT	RED
2	GND	BLACK
3	IWD1	WHITE
4	IWD0	GREEN
5	RLED	BLUE
6	GLED	GRAY
7	BEEP	PURPLE

POWER OUT
WIEGAND IN
LED
BEEP

4. Lock Connection

(1) Shares power with the lock:

Device shares power with the lock:

$U_{LOCK}=12V,\ I\text{-}I_{LOCK}>1A\cdots\cdots$ ①

And the lock is near to the device.

(2) Does not share power with the lock:

Device does not shares power with the lock:

A. $U_{LOCK}=12V$ $I\text{-}I_{LOCK}\leqslant1A$;

B. $U_{LOCK}\neq12V$;

C. The lock is far apart from the device.

D. The We suggest user does not shares power with the lock
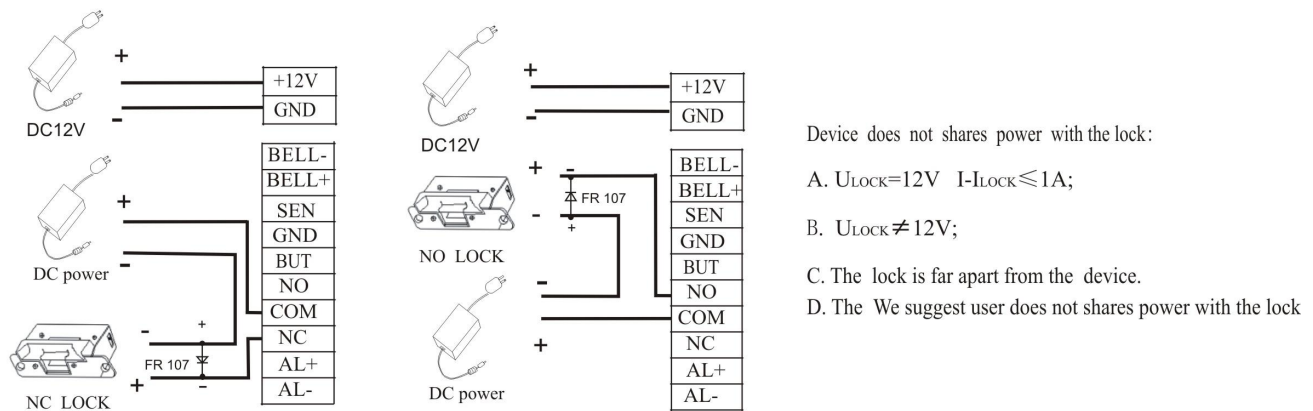
Tips:

(1) The system supports NO LOCK and NC LOCK. For example the NO LOCK (normally open at power on) is connected with 'NO' terminal, and the NC LOCK is connected with 'NC' terminal.

(2) When the Electrical Lock is connected to the Access Control System, you need to parallel one FR107 diode (equipped in the package) to prevent the self-inductance EMF affecting the system, **do not reverse the polarities**.

①: 'I': device output current, 'U_{LOCK}': lock voltage, 'I_{LOCK}': lock current.
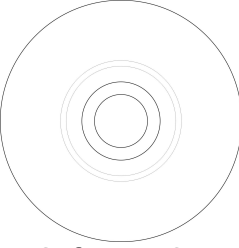
5. Features
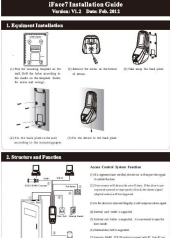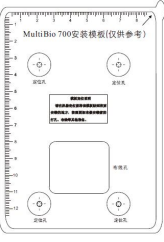
· 3-inch touch screen.

· 1 second user recognition.

· Standard Wiegand IN and OUT ports can be used to connect 3rd party access control panels or Wiegand reader.

· USB port makes offline data backup/management fast & easy.

· 20 verification modes are available to improve security level. Default verification modes are Fingerprint only, Face only or RFID only. Other 19 modes are available.

· Anti-pass back function and Access control interface for 3rd party electric lock, door sensor, exit button, alarm and doorbell.

· Infra-red optical system enables machine to work well at night.

6. Specifications

Display	3-inch Touch Screen
Fingerprint capacity	2,000
Face capacity	1500
ID Card capacity(optional)	10,000
Log capacity	100,000
Camera	High Resolution Infrared Camera
Fingerprint Sensor	ZK optical sensor
Access Control Interface for	3rd Party electric lock, Door sensor, Exit button, Alarm, Wired doorbell
Communication	TCP/IP, RS232/485, USB-host
Wiegand signal	Input/Output
Anti-pass back Function	Yes
Standard Access control Function	Time Zone, Access Group, Multi-identification duress mode, Anti-passback, Tamper alarm
Optional Functions	ID Card, Mifare Card
Power Supply	12V DC
Operating Temperature	0℃-45℃
Operating Humidity	20%-80%
Gross Weight	0.87Kg
Dimension	209*88*87mm (L*W*D)

7. Basic Contents

MultiBio700 Fingerprint Terminal	Metallic Mounting Plate	Wall Mounting Screws and Holders
Star-shape Screw for Mounting Plate	Star-shape Screw Driver	Mini-USB Cable

Software CD	Installation Guide	Mounting Paper

8. Optional Accessories

 FR1200 Fingerprint Slave Reader	 K1 Exit Button	 Alarm Indicator
 Electric Strike Lock	 Electric Magnetic Lock	 Power Supply Controller
 Mifare Integrated Module and Card	 USB Memory	 12V Power Adapter
 Environmental Protection Notice	 Stylus Pen	

9. Product Introduction

9.1 Front

- LED Indicator
- Touch Screen
- Touch Button
- Camera
- Door Bell Button
- 1:1 Verify Button
- Fingerprint Sensor
- RFID Card Reaction Area

9.2 Side

- Reset Button
- USB Port

9.3 Rear

2pin cable connector-Power In

10pin cable connector-
- Bell
- Sensor
- Button
- Lock
- Alarm

4pin cable connector-TCP/IP

7pin cable connector-
- Power Out
- Wiegand In
- LED
- Beep

8pin cable connector-
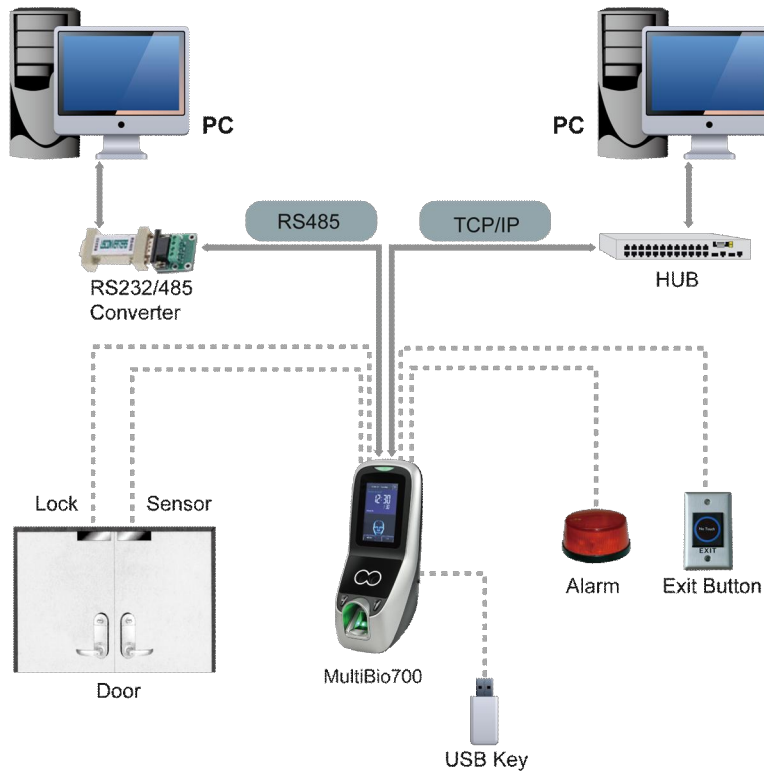- RS485
- RS232
- Wiegand Out

10. Installation Diagram
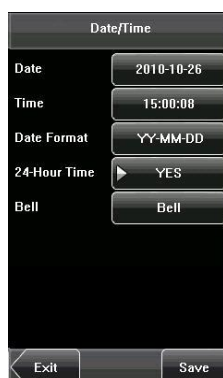
11. Product Dimensions (mm)

Front

Side

12. Date and Time Setup

Press [**Menu**] on the initial interface to display the main menu.

2. Press [**Date/Time**] to display the time setting interface.

3. Select the desired date and time by pressing the parameter.

This screen allows you to manually set the date and time.

Enter the correct Date and Time.

4. When finished, Press [**Save**] to save the current information and return to the previous interface.

Press [**Exit**] to return to the previous interface without saving the current information.

13. User Enrollment

1. To start user enrollment, press the [**Menu]** key on the MultiBio700, it will prompts

2. From the Main Menu, select [**User Mgt]** to add/modify/delete users' fingerprint(s), password or authority (Admin or user).

13.1 Entering a User ID

Unique identification number associated with each user.

1. Press [**User ID**] on the [**Add User**] menu to display the user ID management interface.

Tips: The user ID can be modified during initial enrollment, but once enrolled, it cannot be modified.

2. On the displayed keyboard interface, enter a user ID and press [**OK**].

13.2 Entering a Name

1. Press [**Name**] on the [**Add User**] menu to display the name input interface.

2. On the displayed keyboard interface, enter a user name and press [**X**].

3. After the user name is entered, press [**Save**] to save the current information and return to the previous interface. Press [**Exit**] to return to the previous interface without saving the current information.

13.3 Enrolling New User Fingerprint (FP)

Finger Placement:

The user's finger should completely cover the sensor. The finger should be placed flat and in the center of the sensor. The finger should cover at least 80% of the sensor as shown below:

Notice the following screen appears:

1. Press [**Fingerprint**] on the [**Add User**] menu to display the [**Enroll Fingerprint**] interface.

2. On the displayed [**Enroll Fingerprint**] interface, place your finger on the fingerprint sensor properly according to the system prompt.

3. Place the same finger on the fingerprint sensor for three consecutive times correctly. If the enrollment succeeds, the system will display a prompt message and automatically return to the [**Add User**] interface.

You can enroll the backup fingerprint by pressing [**Fingerprint**] again. A user can enroll 10 fingerprints at maximum.

If the enrollment fails, the system will display a prompt message and return to the [**Enroll Fingerprint**] interface. In this case, you need to repeat the operations of step 2.

4. Press [**Save**] to save the current information and return to the previous interface. Press [**Exit**] to return to the previous interface without saving the current information.

13.4 Enrolling a Password

1. Press [**Password**] on the [**Add User**] menu to display the password management interface.

2. Enter a password and press [**OK**]. Re-enter the password according to the system prompt and then press [**OK**].

13.5 Enrolling Card

Press [**Card**] on the [**Add User**] interface to display the [**Enroll Card**] interface.


Swipe your ID card properly in the swiping area. The device will display a prompt message "Read Successfully! Card No.: **********", and returns to the [**Add User**] interface.

13.6 Enrolling a Face

1. Press [**Face**] on the [**Add User**] interface to display the face enrollment interface.

2. On the displayed face enrollment interface, turn your head to the left and right slightly, raise and lower your head according to the voice prompts, so as to enroll different parts of your face into the system to assure the accurate verification.

Eyes show in the box
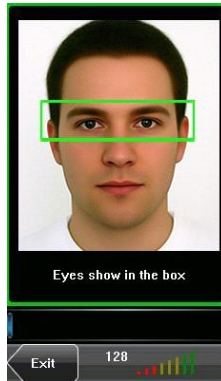
3. If your face image is enrolled successfully, the system will display a prompt message and automatically return to the [**Add User**] interface.

4. Press [**Save**] to save the current information and return to the previous interface. Press [**Exit**] to return to the previous interface without saving the current information.

13.7 Setting New User Authority

Identifies a user as a normal User or an Administrator.

1. On the [**Add User**] interface, press [**Role: User**] to change the user to an administrator.

2. After the modification is done, Press [**Save**] to save the current information and return to the previous interface; press [**Exit**] to return to the previous interface without saving the current information.

14. Deleting a User

1. On the [**User Info**] interface, you can delete all or partial user information.

Press [**Delete**] to delete a user.

2. On the [**User Info**] interface, press [**Name**], [**Fingerprint**], [**Face**] or [**Password**] to delete the related user information and to re-enroll the new information follow the device prompt.
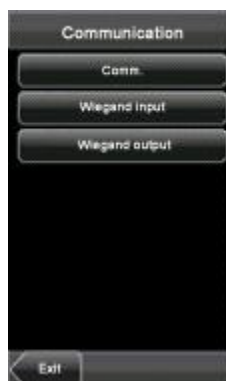
15. Setting Communications Options

The MultiBio700 can communicate via the Network (Ethernet), RS/232 or RS485.

Network (Ethernet)

1. Press [**Comm.**] on the [**Menu**] to configure Communication Settings.

2. From within the Communication Menu, Press the [**Comm.**]

Notice the following setting interfaces are available.

IP address:

Default IP is 192.168.1.201. You can modify it. But do NOT use an IP address already being used by another network device.

Subnet Mask:

Default mask is 255.255.255.0. You can modify it.

Gateway:

Default gateway address is 0.0.0.0. You can modify it.

RS232: If using RS232 communication, select "On".

RS485: If using RS485 communication, select "On".

Tips: RS232/485 only 2 to 1

Baud rate: This parameter is used to set the baud rate for the communication between the device and the PC. It includes five options: 9600, 19200, 38400, 57600, and 115200.

Device ID: This parameter is used to set the ID of device from 1 to 254. If the RS232/RS485 communication is adopted, you need to enter the device ID on the software communication interface.

Comm. Key: you can set a password for the connection between the device and PC. The default password is 0, and 1 to 6 digits passwords are supported.