Installing Magnetic card reader Module | Connecting wires to motherboard

USB CAM
J13
TP
J10
USB2
J27
UART1
J47
USB1
J25
ULTOMA10 V1.1
J47
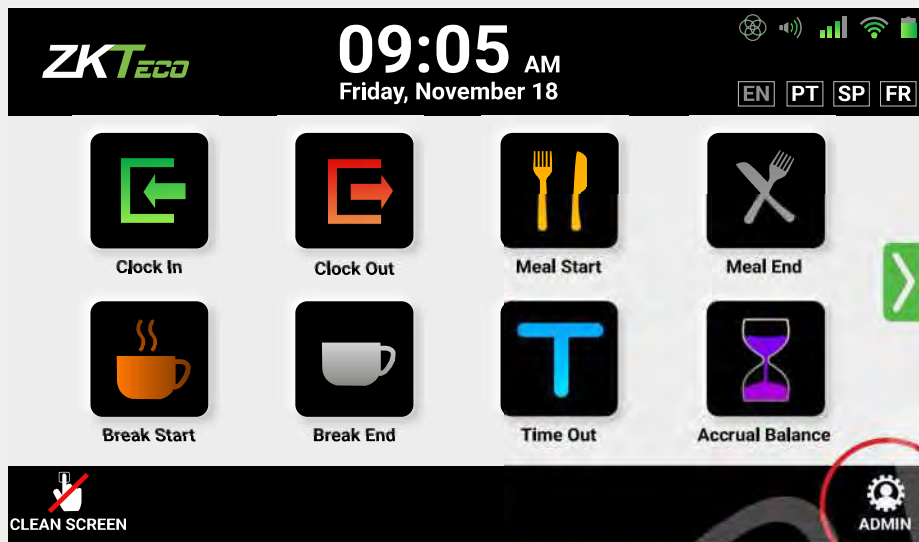Lithium-ion

1. Connect the magnetic cable on mainboard seat J47. (there is J47 label on the cable.)

2. Conceal the cable at the side of base.

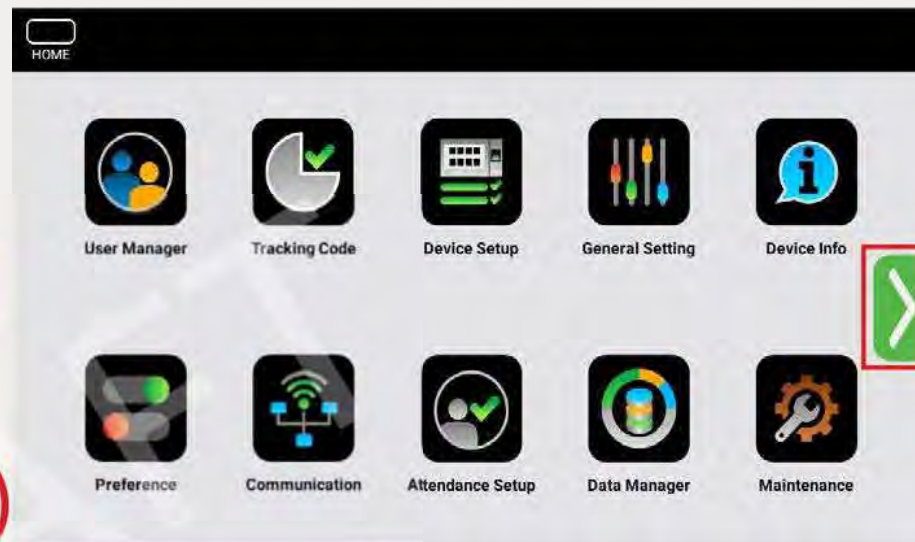# Installing Magnetic card reader Module | Closeing back cover
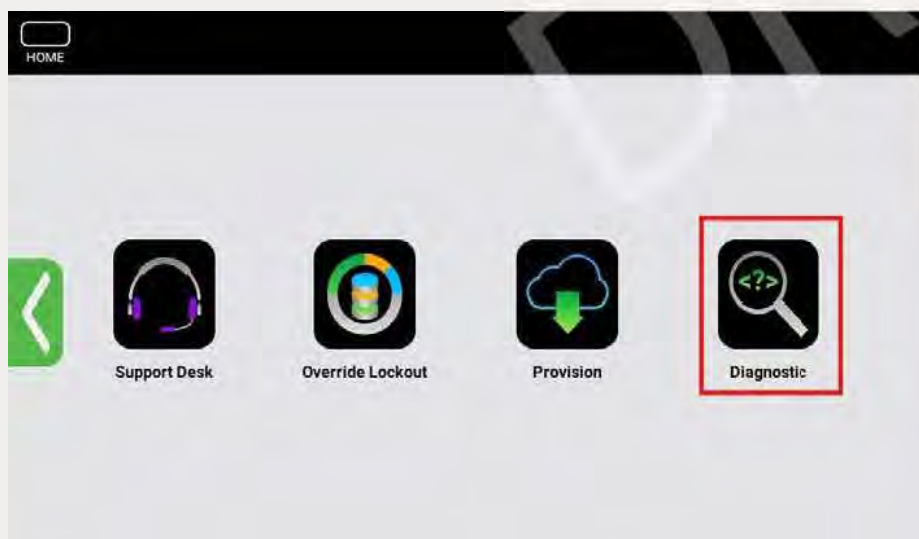

1. Close the back cover

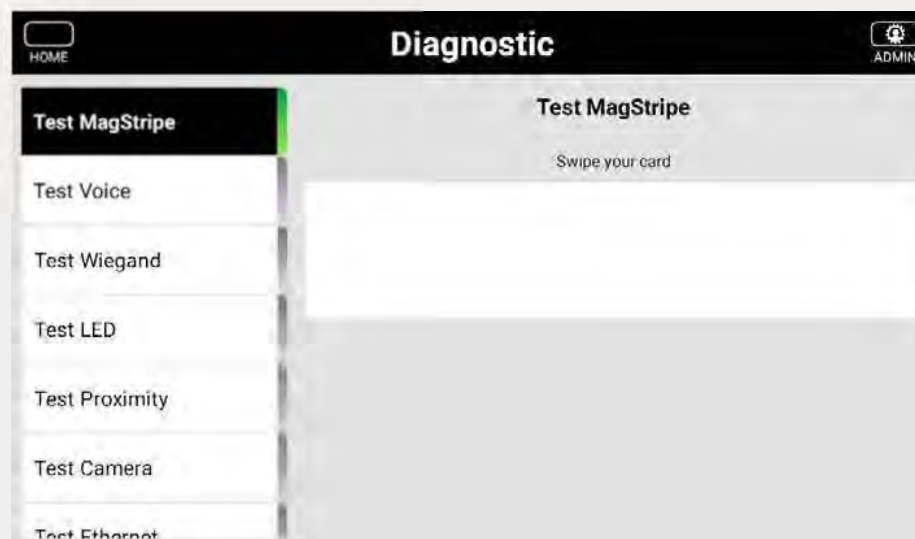# Installing Magnetic card reader Module | Testing Magnetic module

09:05 AM
Friday, November 18

EN PT SP FR

Clock In | Clock Out | Meal Start | Meal End
Break Start | Break End | Time Out | Accrual Balance

CLEAN SCREEN

ADMIN

Press Admin to login

User Manager | Tracking Code | Device Setup | General Setting | Device Info
Preference | Communication | Attendance Setup | Data Manager | Maintenance

Press next screen

Support Desk | Override Lockout | Provision | Diagnostic

Press Diagnostic

Diagnostic

Test MagStripe
Test Voice
Test Wiegand
Test LED
Test Proximity
Test Camera
Test Ethernet

Test MagStripe

Swipe your card

Test MagStripe

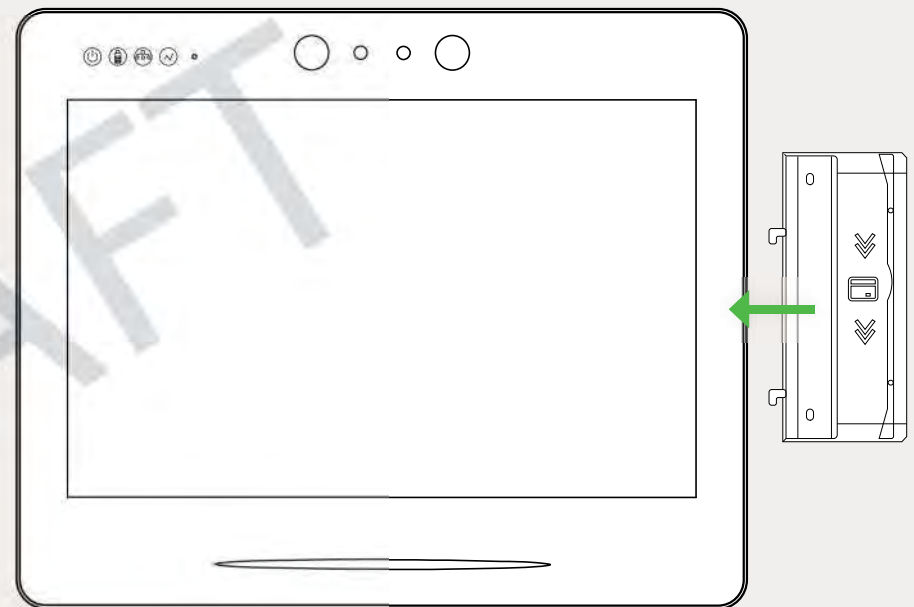## Installing Barcode card reader Module

Step 1 Opening the back cover

Step 2 Removing screws

Step 3 Inserting wires and assembling
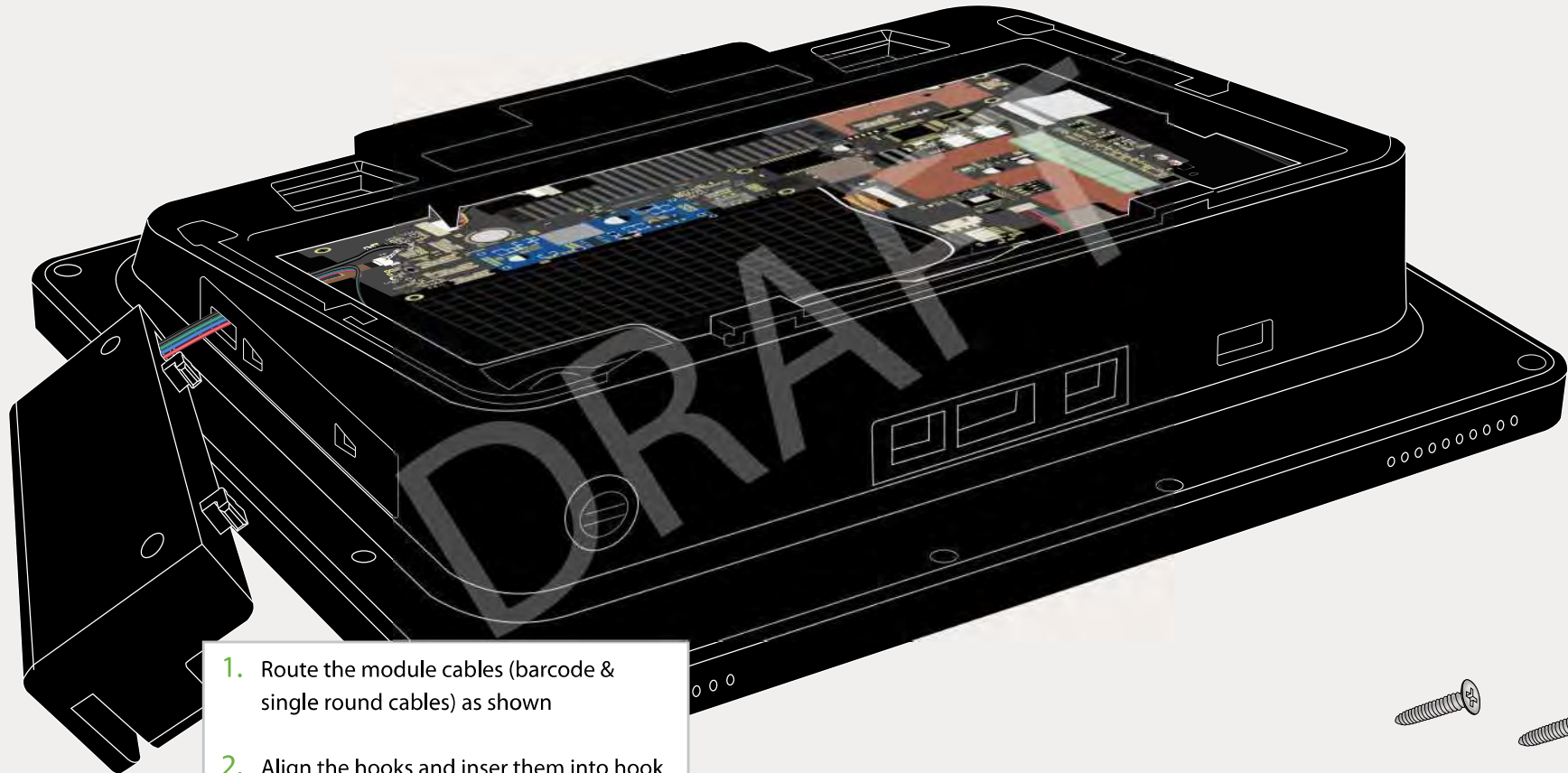
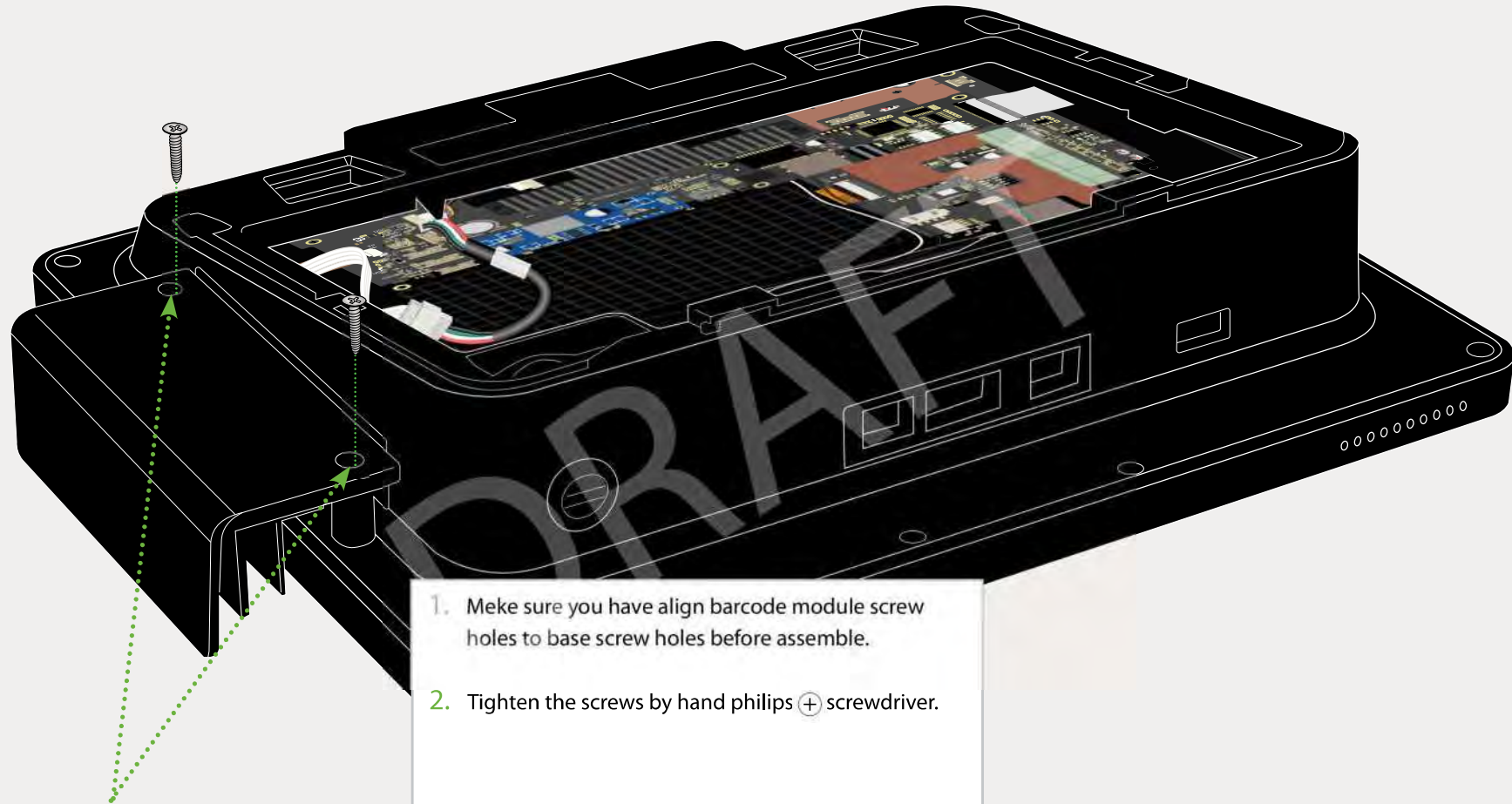**Step 4** Connecting wires to motherboard

Step 5 Testing

Base

HOME   MENU

Installing Barcode Module card reader | Removing screws

1. Route the module cable(s) as shown

2. Secure the wires with the wire clamps

# Installing Barcode Module card reader | Inserting wires and assembling

1. Route the module cables (barcode & single round cables) as shown

2. Align the hooks and inser them into hook holes and push to down to insert it.

1. Meke sure you have align barcode module screw holes to base screw holes before assemble.

2. Tighten the screws by hand philips ⊕ screwdriver.

Screw holes for mounting the Barcode card reader module to the base componant

Installing Barcode Module card reader Module | Connecting wires to motherboard
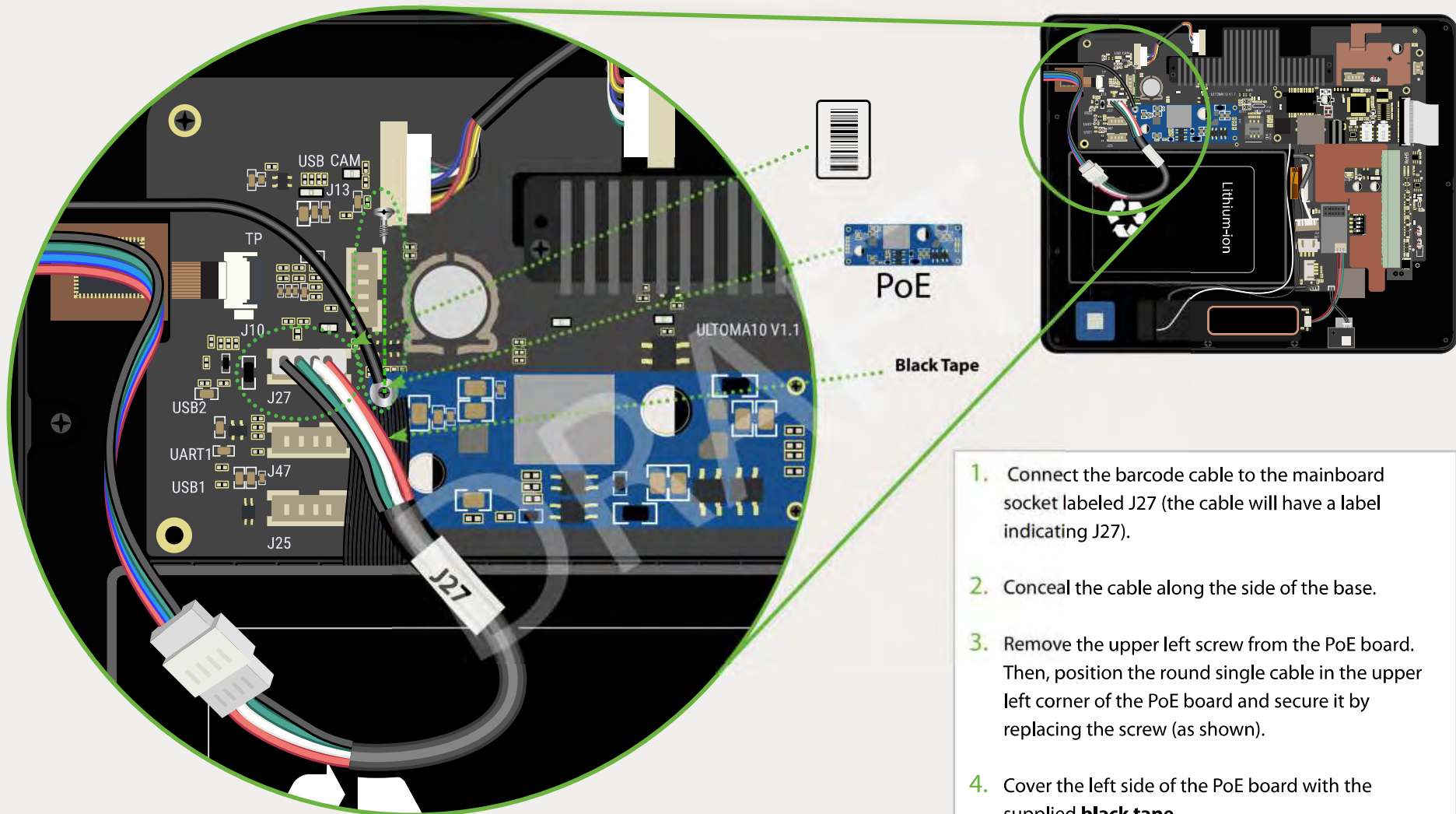

1. Connect the barcode cable to the mainboard socket labeled J27 (the cable will have a label indicating J27).

2. Conceal the cable along the side of the base.

3. Remove the upper left screw from the PoE board. Then, position the round single cable in the upper left corner of the PoE board and secure it by replacing the screw (as shown).

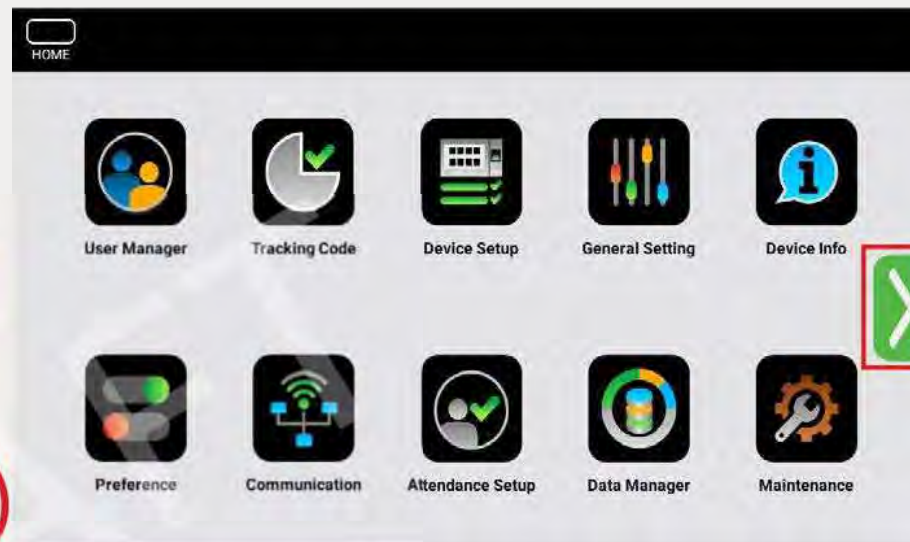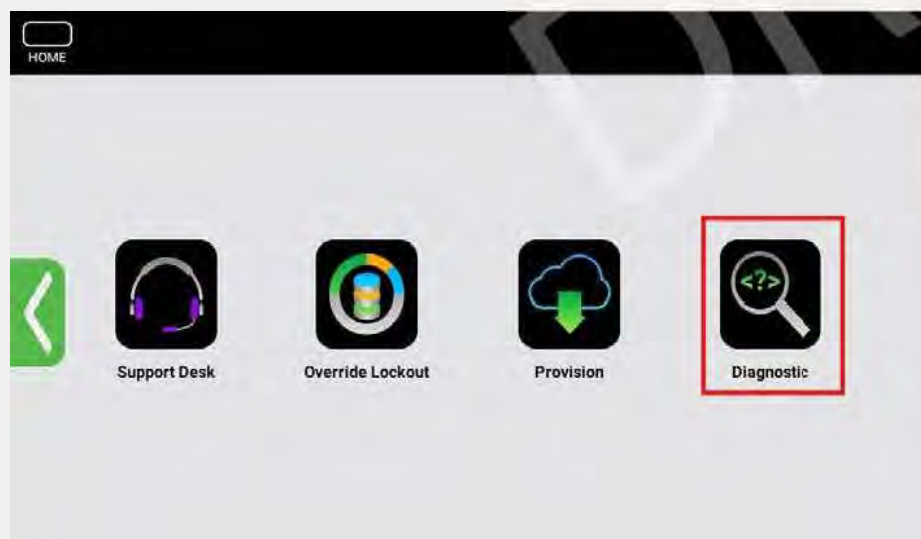4. Cover the left side of the PoE board with the supplied **black tape**.

Installing Barcode Module card reader Module | Closeing back cover

1. Close the back cover

Installing Barcode Module card reader Module | Testing Barcode module
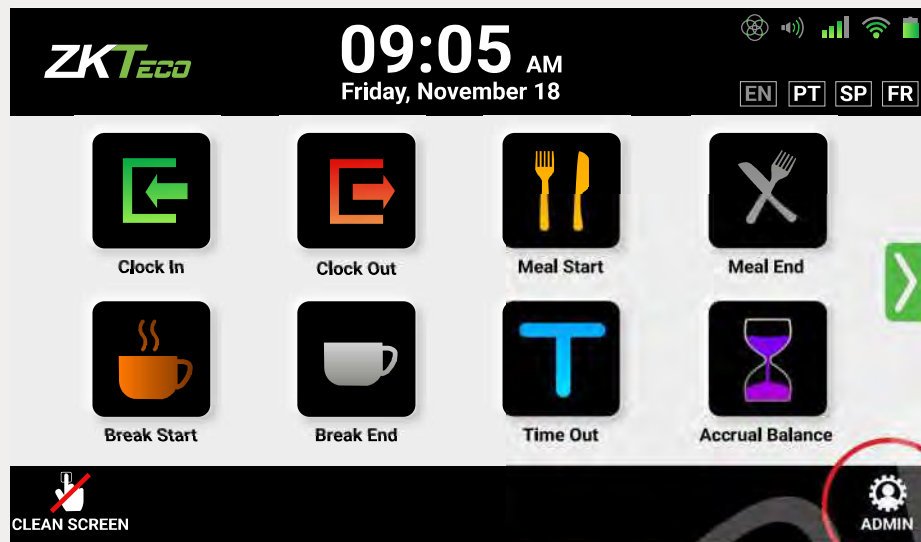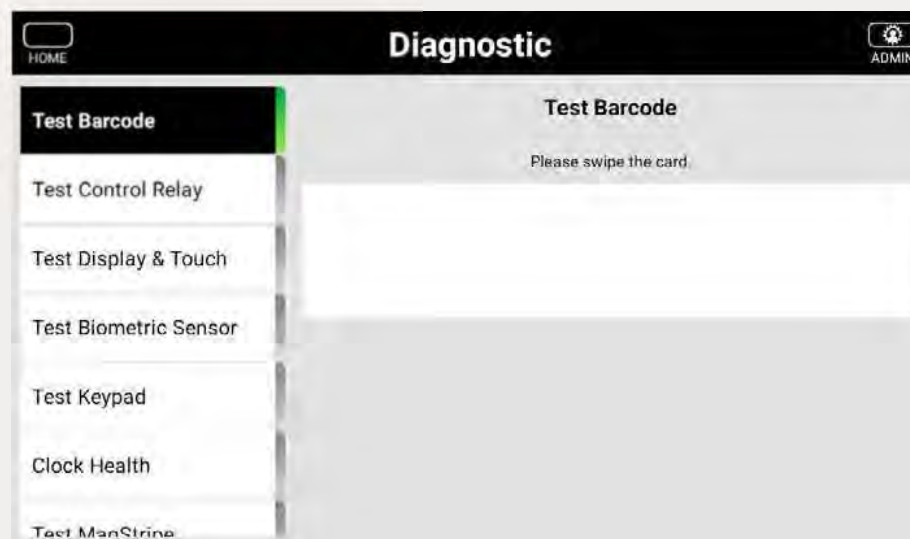

Press Admin ⚙ ADMIN to login
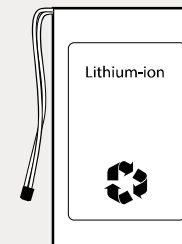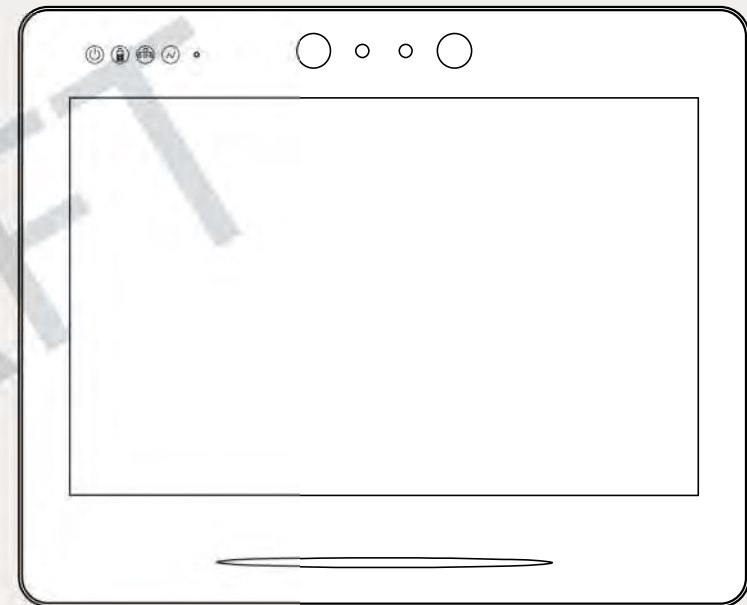

Press next screen ›

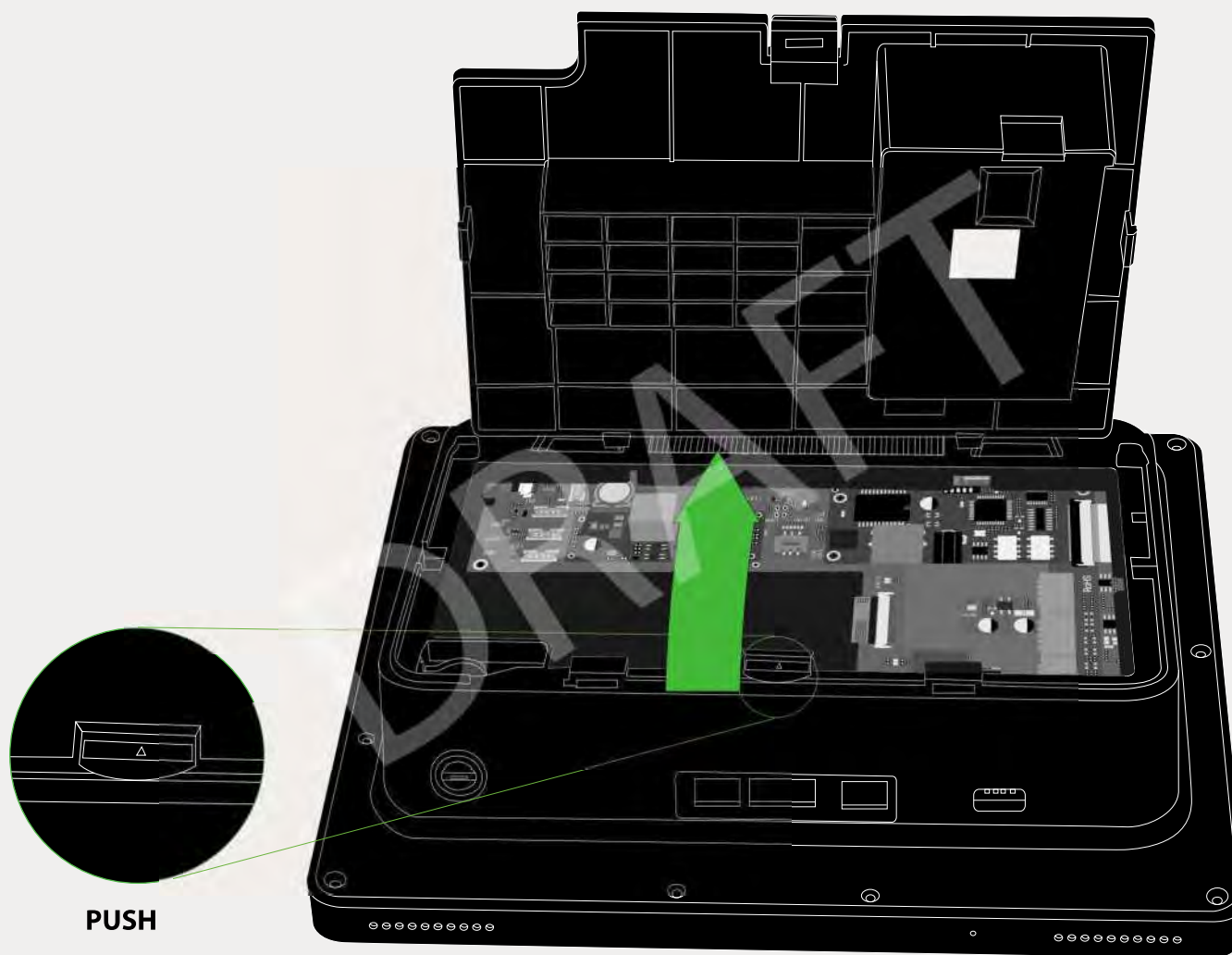Press Diagnostic

Test Barcode

Installing Lithium-ion Battery pack

A Lithium-ion battery pack comes preinstalled on the Ultima10 but is not connected to the motherboard. Customers who wish to use the battery need to connect it to the motherboard themselves.

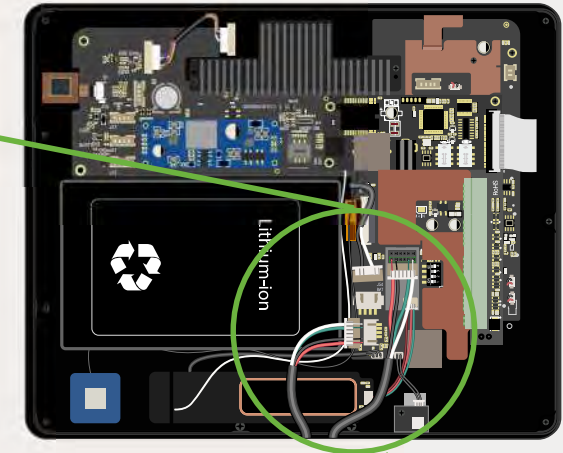**Step 1** Connecting wires to motherboard

Opening the back cover

PUSH

Push the latch lock and lift the back cover upward to open assembly completely to access to internal componant

Caution Do not apply force.

Lithium-ion

SIM
U34

MAIN

J54
BAT
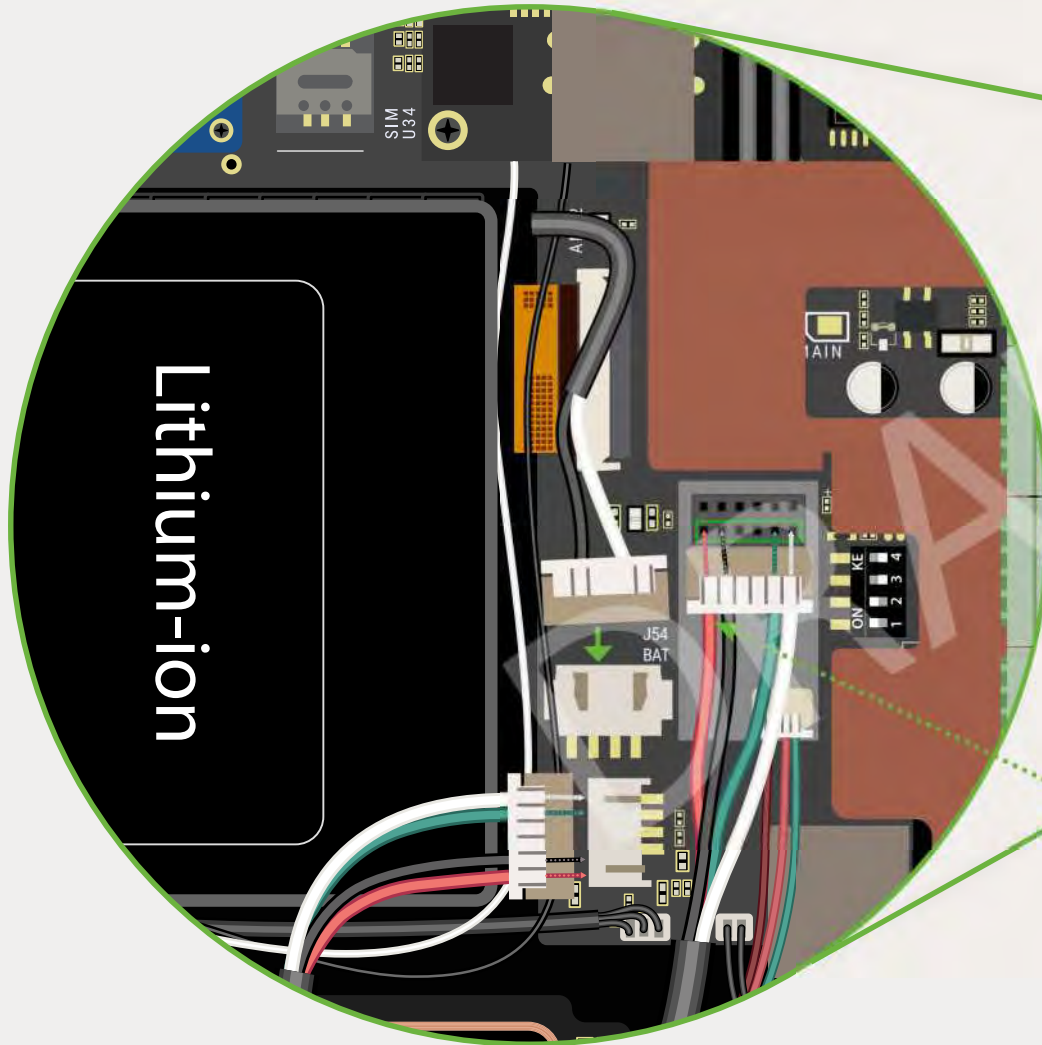
Lithium-ion

Plug in Lithium-ion Battery wires on motherboard.

Installing Lithium-ion Battery | Closeing back cover
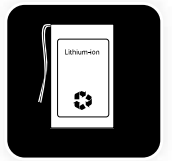
Close the back cover.

Hardware Test

Testing Thermal Face Recognition module

Testing Display & Touch

Testing Control Relay

Testing Voice
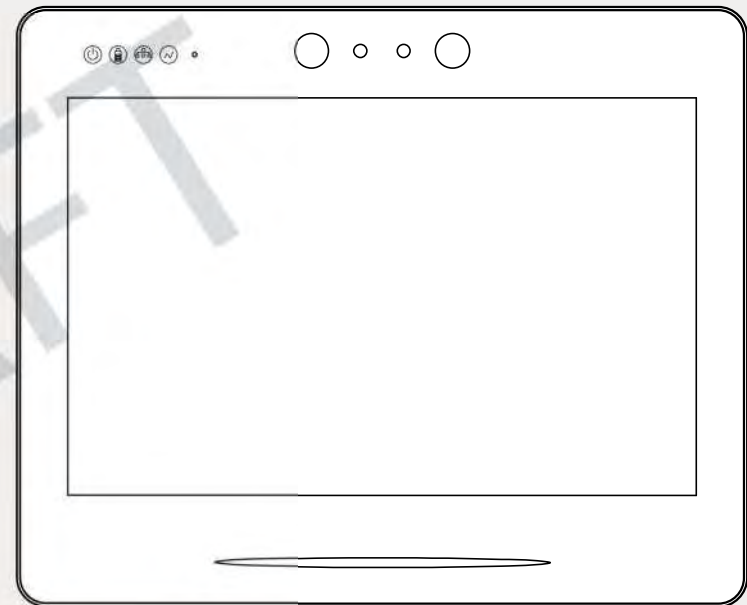
Hardware Test | Testing Thermal Face Recognition module
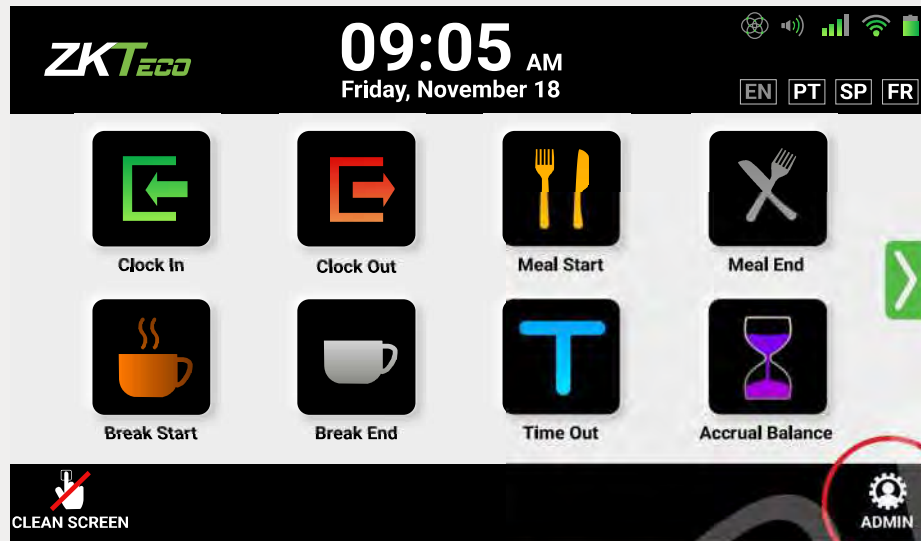
Press Admin ⚙ ADMIN to login

Press next screen ›

Press Diagnostic

Test Thermal & Face Recognition

Hardware Test | Testing Display & Touch
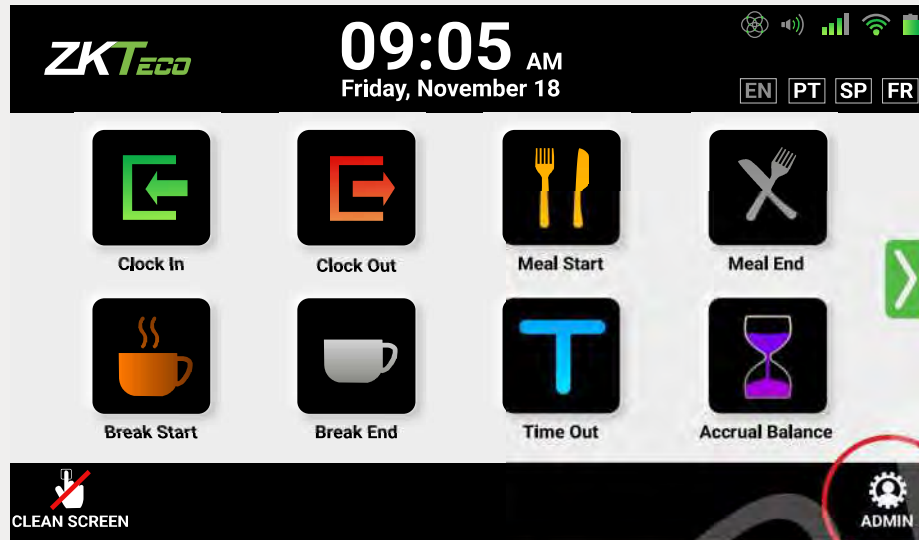
Press Admin ⚙ADMIN to login
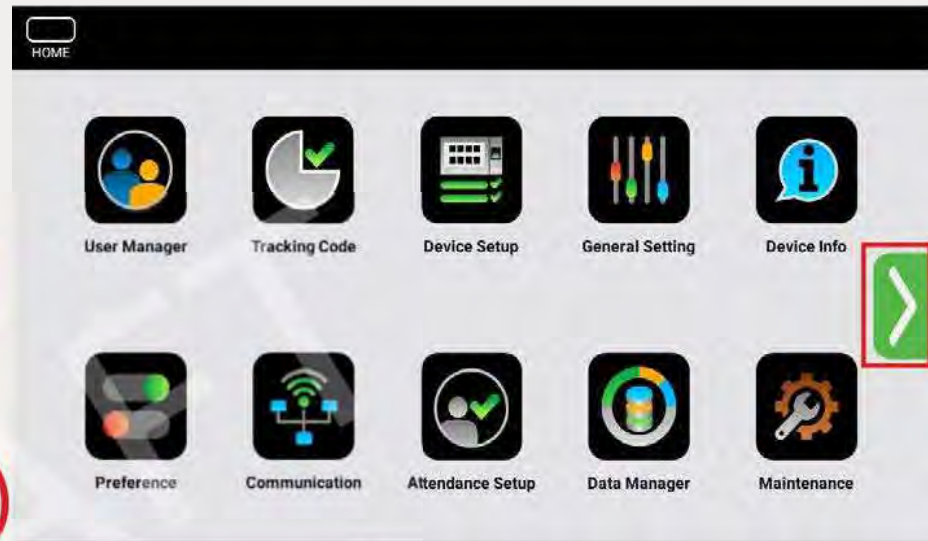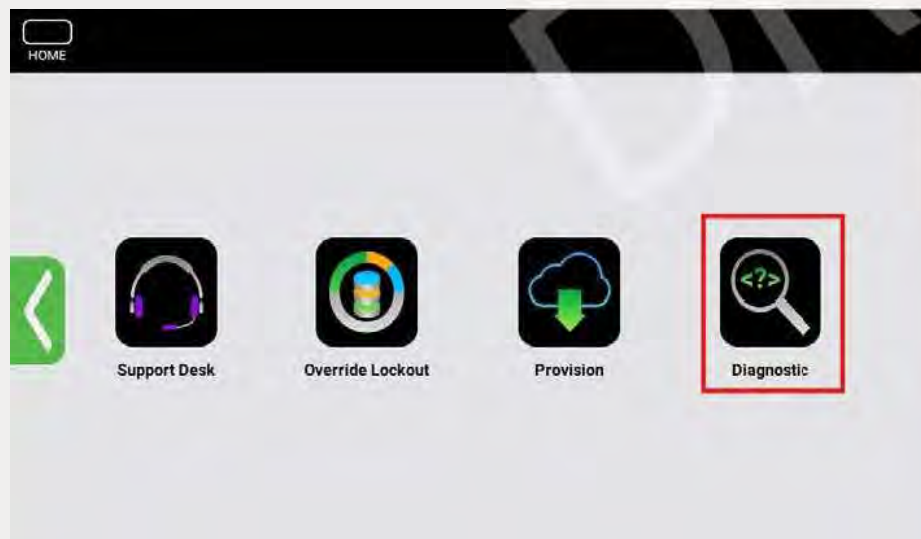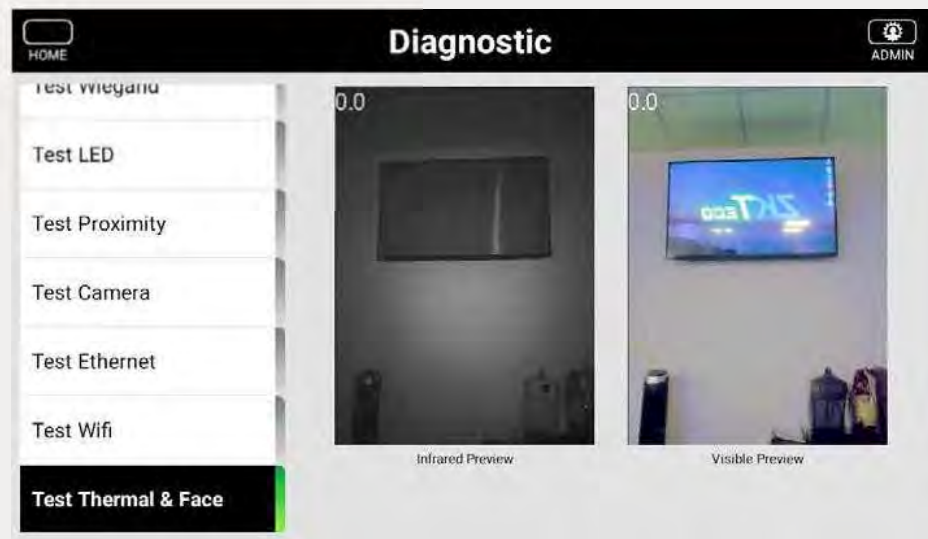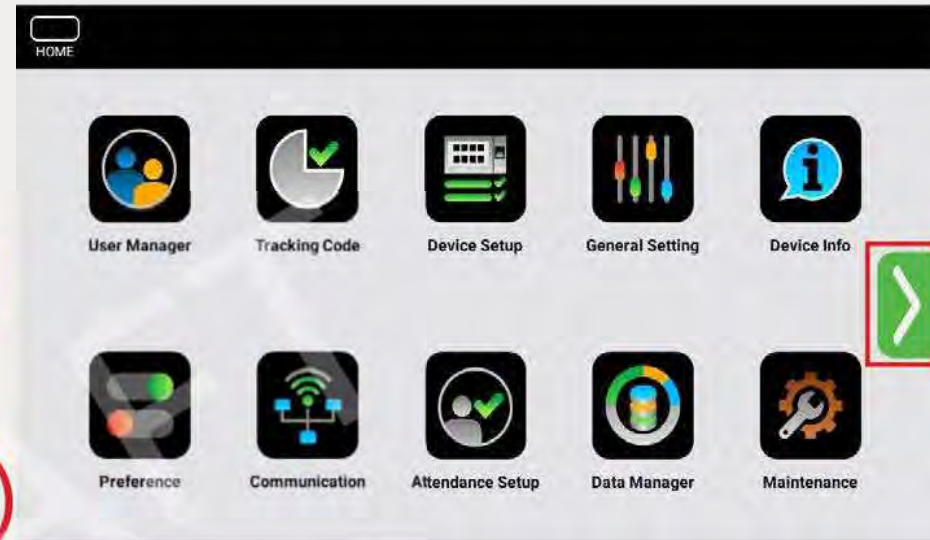
Press next screen ›

Press Diagnostic

Test Display &Touch
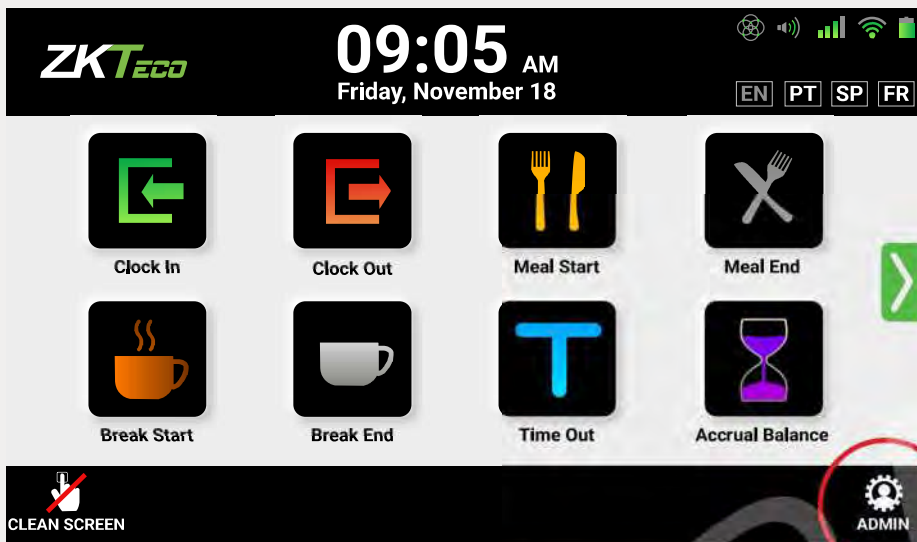
Press Admin ⚙ to login
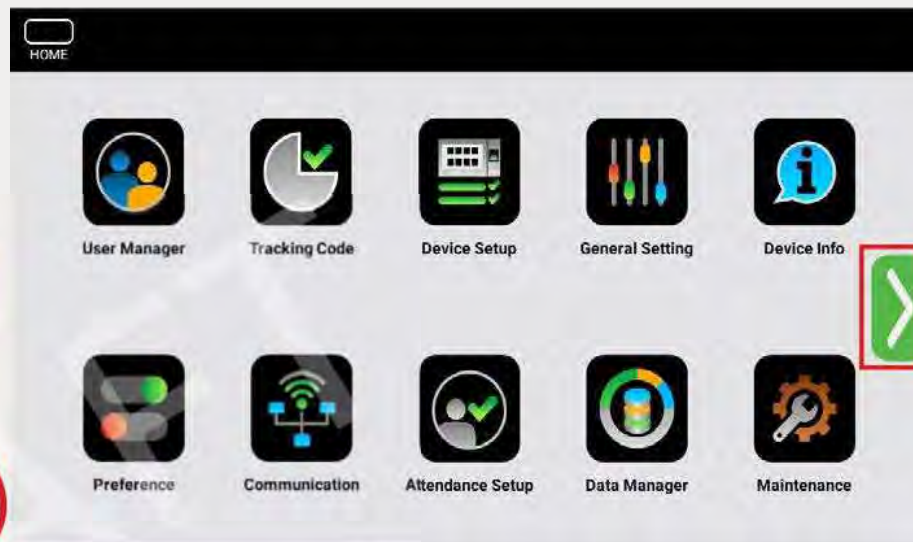
Press next screen ⟩
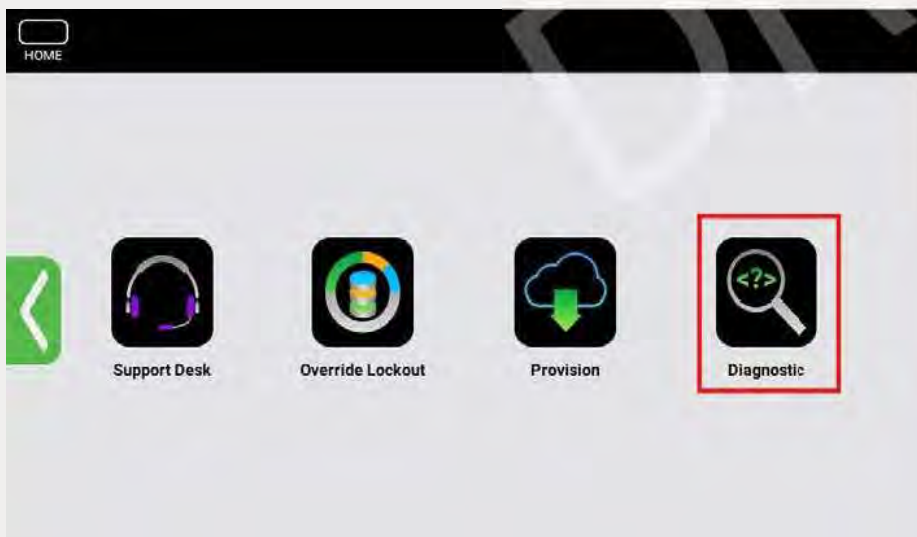
Press Diagnostic

Test Control Relay

Home Screen

09:05 AM
Friday, November 18

EN PT SP FR

- Clock In
- Clock Out
- Meal Start
- Meal End
- Break Start
- Break End
- Time Out
- Accrual Balance

CLEAN SCREEN

ADMIN

Press Admin ⚙ to login

Admin Menu

HOME

- User Manager
- Tracking Code
- Device Setup
- General Setting
- Device Info
- Preference
- Communication
- Attendance Setup
- Data Manager
- Maintenance

Press next screen ❯

Diagnostic Menu

HOME

- Support Desk
- Override Lockout
- Provision
- Diagnostic

Press Diagnostic

Diagnostic

HOME | Diagnostic | ADMIN

- Test MagStripe
- **Test Voice**
- Test Wiegand
- Test LED
- Test Proximity
- Test Camera
- Test Ethernet

Test Voice

PLAY SOUND FILE

Test Voice

Troubleshooting

Issue	Probable Causes	Corrective Action
There is no power in the Ultima.	If the Ultima is powered using standard AC power cable, the power supply is not properly plugged into the main board, the AC outlet, or both.	Check the connections to the main board and the AC outlet. **Note:** Do not plug the power cord into the AC outlet until you ensure that the power supply is properly connected to the main board.
	If the Ultima is powered using Ethernet cable, the network may be down, or connections to and from the PoE module may not be secure.	• Ensure that the network is running. • Ensure that the network cable is connected to the main board.
The power LED is turned on, but nothing appears on the screen.	If the Ultima is powered using a standard AC power cable, the AC line is not live or is supplying improper voltage.	Measure voltage at the AC outlet and, if necessary, locate another power source.
	If the Ultima is powered using Ethernet cable, there is an issue with the network.	• Check the Ethernet connection at the Ultima, and all other network connections. • Ensure that the network is supplied with an 802.11af-compliant power source.
Communication fails.	Communication settings are incorrect either at the Ultima or the host PC.	Check and, if necessary, correct the device IP Address, Netmask, Gateway and DNS.
	Communications cabling is connected incorrectly.	Ensure that all communications cables are routed correctly and connected properly.

Warning / Compliance

Part I.

Warning about battery

- Replacement of a battery with an incorrect type that can defeat a safeguard. There-fore,please make sure That the device uses alkaline Button cell batteries.

- Disposal of a battery into fire or a hot oven, or mechanically crushing or cutting of a battery, that can result in an explosion.

- A battery subjected to extremely low air pressure that may result in an explosion or the leakage of flammable liquid or gas.

Part II.

Ultima10 User Manual must show all WiFi Frequency Bands and Maxmum-out-put-Power. The data as below: For EU Compliance

WiFi Frequency Bands

Frequency bands	Maximum output power
Wi-Fi 2.4G: 2412-2472MHz	18.44dBm
Wi-Fi 5G: 5180-5240MHz, 5260-5320MHz, 5500-5700MHz	18.99dBm
Wi-Fi 5.8G: 5745-5825MHz	13.20dBm
LTE Band 7/41: 2500-2570MHz, 2496-2690MHz	25dBm
13.56MHz	-15.07dBuA/m @10m
125kHz	-10.57dBuA/m @10m
GPS receiver: 1559-1610MHz	

Part II.

Hereby, ZKTECO CO.,LTD declares that this Product is in compli-ance with the essential requirements and other relevant provi-sions of Directive 2014/53/EU.

The WLAN function for this device is restricted to indoor use only when operating in the 5150 to 5350 MHz frequency range.

This device complies with Part 15 of the FCC Rules. Operation is subject to the follow-ing two conditions:

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device,

pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against

harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.

- Increase the separation between the equipment and receiver

- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

- Consult the dealer or an experienced radio/TV technician for help.

"This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 cm between the radiator and your body.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter."

Resources

Fingerprint Enrollment Matching Information

Data-Sheet

Privacy Concerns

ZKTeco

ZKtechnology.com