ZKTeco WFM

Ultima 7P

Workforce Data Collection Terminal

Fingerprint	Palm-ID	Face-ID	Multi Card	Pin	IP66 Water & Dustproof	Shock Resistance

Camera	PoE+	Battery	4G	Apple Wallet	QR Code	Wi-Fi

09:05 AM
Friday, November 18

EN PT SP FR

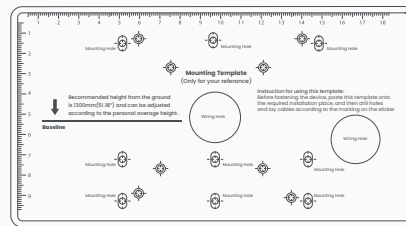| Clock In	Clock Out	Meal Start	Meal End
Break Start	Break End	Time Out	Accrual Balance

CLEAN SCREEN

ADMIN
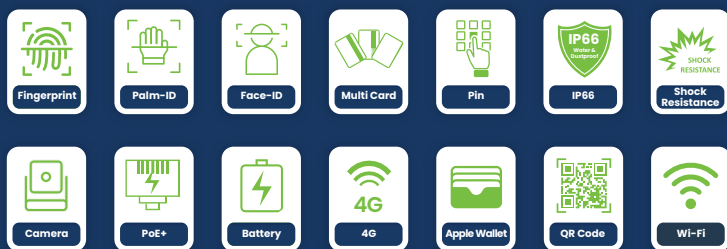
Installation Guide

This guide provides installation instructions only. For information regarding actual operation and configuration of the **Ultima 7P**, refer to the user manual.
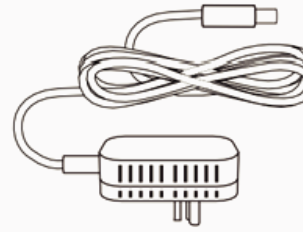
Content

Packing List

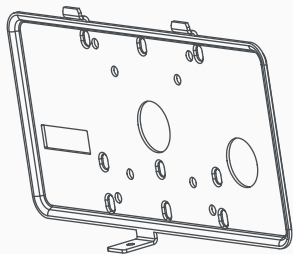**Terminal**

Mounting Template
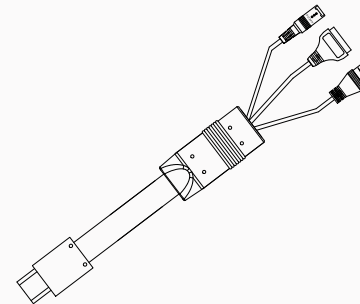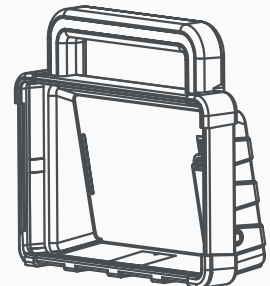
Power Supply

Network Cable

Mounting Plate

Screws & Anchors

Multi-Functional Cable

Rubber Casing

The contents of the package may vary from time to time.

Pre-Installation

Required Tools

Measuring Tape

Level

Wire Cutter

Screwdrivers

Drywall Knife

Power Drill

When Mounting on the Wall

- Ultima 7P is designed for internal and external environment
- It is suitable for the Operating Temperature: 14° F to 131° F (-10° C to 55° C) Operating Humidity: 5% to 80% non-condensing
- Remove rubber moulding from the clock prior to wall mounting

When Used with Rubber Casing

- Ultima 7P, when used with the portable rubber casing, is designed for rugged and flexible use across temporary or mobile worksites, such as construction sites, outdoor job locations, or remote facilities
- The rubber casing provides protection against dust, water and minor impact
- Avoid placing the unit on surfaces where heat builds up quickly (such as metal tables located in the direct sun light)

Planning

Required Personnel

Depending on the implementation planned for your site, you will require the following:

- A licensed electrician to install or move AC outlets and power cables
- A qualified person to run Ethernet cable

One or more qualified installers to assemble the device and mount it on the wall (a second person may be necessary to hold the cover while the other person attaches components to the cover and base)

Mounting Template

The packaging box includes a paper mounting template that you use to mark the wall with the following measurements and indicators:

- Where to screw the base of the unit into the wall
- Where cables enter the unit through access holes in the wall

Power Sources and Connections

Requirements:

- The AC power source must be grounded 100 to 240V AC, 50/60Hz input voltage
- A licensed electrician must ensure that low-voltage wiring is routed securely away from high-voltage wiring

Power source options:
The following power supply methods are available:

- Mounted near an AC outlet, with power supply plugged in
- Power-over-Ethernet+ (PoE+)
  Warning Power up your device with AC adapter or Power-over -Ethernet+ (PoE+). Do not connect simultaneously (It may damage the device)
- Backup battery

Ethernet Connection

- Location - Plan to install the Ultima 7P in a location that allows an easy and secure connection to an external network (for example, using the Ethernet cable)
- All cables must be in place before installing the Ultima 7P

Determine the power source for your site

Before you start the installation, plan with your electrician (if required for the power option that you choose) how the Ultima 7P will connect to the power at your site

Choose from the following options and review the associated notes.

Power options

*   Install near an AC outlet
    Select a location where the distance from the wiring hole of the Ultima 7P is not more than 5 feet (1.5 meters) from the AC outlet
    Note: Installing the device near an AC outlet does not protect against the AC power cord from being deliberately or inadvertently unplugged from the outlet.

*   Power-over-Ethernet+ (PoE+)
    The device has a PoE+ module in it. You can supply power to the device by connecting a network cable to the PoE+ switch

*   Backup battery
    When the power is off or in emergency, the backup battery can supply power to the device

Notes :

*   A licensed electrician must install the AC outlet and associated wiring before you install the Ultima 7P

*   Do not connect the Ultima 7P power line to circuits that are being used for electrical devices that draw large amounts of power, such as air conditioning units, electrical motors, and compressors

*   Avoid running a communications cable near devices that interfere with data transmission
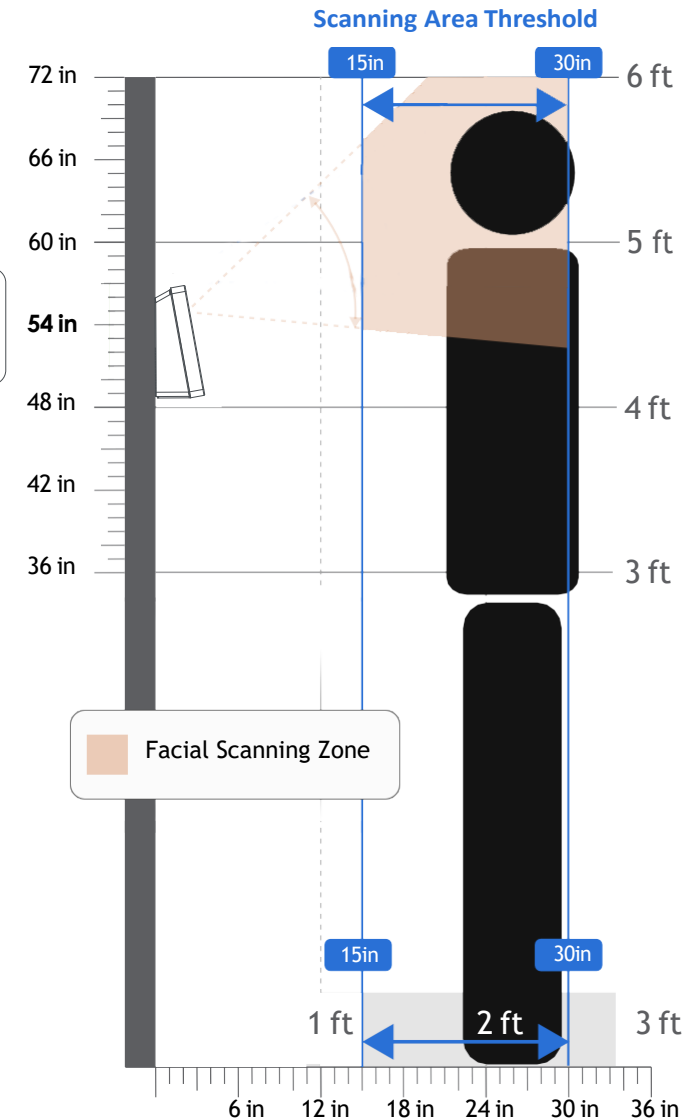
Installation

Without Rubber Casing

FOV (Field of view) for the combined facial sensors:

1. As per ADA regulations, ZKTeco WFM recommends installing the Ultima 7P clock between 54 inches from the top screw to 48 inches from the bottom above the ground

2. The "strike zone" in which the user should present their face for identification should be between 20 to 30 inches from the clock

3. The field of view for combined facial sensor fits anyone with a height of 4'08" to 6'00" while standing up straight between 20 to 30 inches in the "strike zone" from the clock

4. Anyone with a height of 6'00" to 6'06" should bend at their knees and place their face within the strike zone which is between 20 to 30 inches to fit inside the camera's view angle for facial identification

Align the template top screw holes at 54 inch from the floor surface.

Scanning Area Threshold

15in   30in
72 in — 6 ft
66 in
60 in — 5 ft
54 in
48 in — 4 ft
42 in
36 in — 3 ft

Facial Scanning Zone

15in   30in
1 ft   2 ft   3 ft

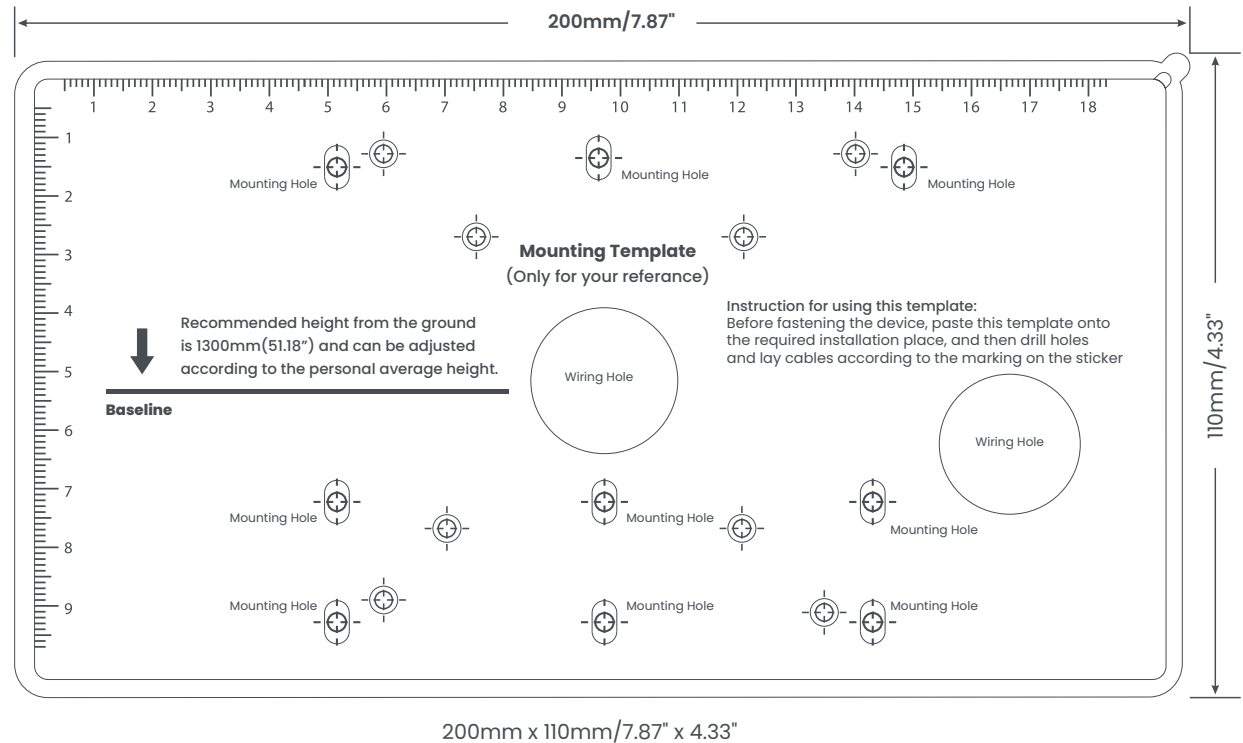6 in   12 in   18 in   24 in   30 in   36 in

Marking Holes

Mark insertion points for the base

The mounting template is printed on a sheet of paper that is included in the package. Use that template to mark the areas of the wall where you plan to install the Ultima 7P

Mark the wall

1. Tape the mounting template at the optimal height and location for the Ultima 7P
   a. The baseline is recommended 1.3m above the floor and can be adjusted to the actual situation
   b. Use a level to ensure that the top of the template is horizontal to the floor

2. Mark the location of the mounting screw holes

3. If you plan to run an Ethernet cable through the wall to enter the Ultima 7P from the back or through the top, use the template to mark the area of entry

4. If you are installing the Ultima 7P near an AC outlet, be sure the outlet is within 5 feet (1.5 meters) of the unit

5. After you finish marking all screw holes and wiring hole, remove the mounting template from the wall

200mm/7.87"

110mm/4.33"

Mounting Hole

Mounting Hole

Mounting Hole

Mounting Template
(Only for your referance)

Recommended height from the ground is 1300mm(51.18") and can be adjusted according to the personal average height.

Baseline

Wiring Hole

Instruction for using this template:
Before fastening the device, paste this template onto the required installation place, and then drill holes and lay cables according to the marking on the sticker

Wiring Hole

Mounting Hole

Mounting Hole

Mounting Hole

Mounting Hole

Mounting Hole

Mounting Hole

200mm x 110mm/7.87" x 4.33"

SIM Card Installation

Note : Follow these instructions if SIM card is needs to be installed prior on the wall

1. Use a screwdriver to remove the five screws on the back of the clock
2. Carefully lift off the back cover. You'll see the battery inside. Gently pull out the battery and set it aside near the device, do not disconnect the plug
3. Locate the SIM card slot. Slide the latch from left to right to open it
4. Place the SIM card into the slot beneath the latch, then close the latch and slide it back to the left to lock the card in place
5. Reinsert the battery exactly as it was before
6. Replace the back cover and securely tighten all five screws

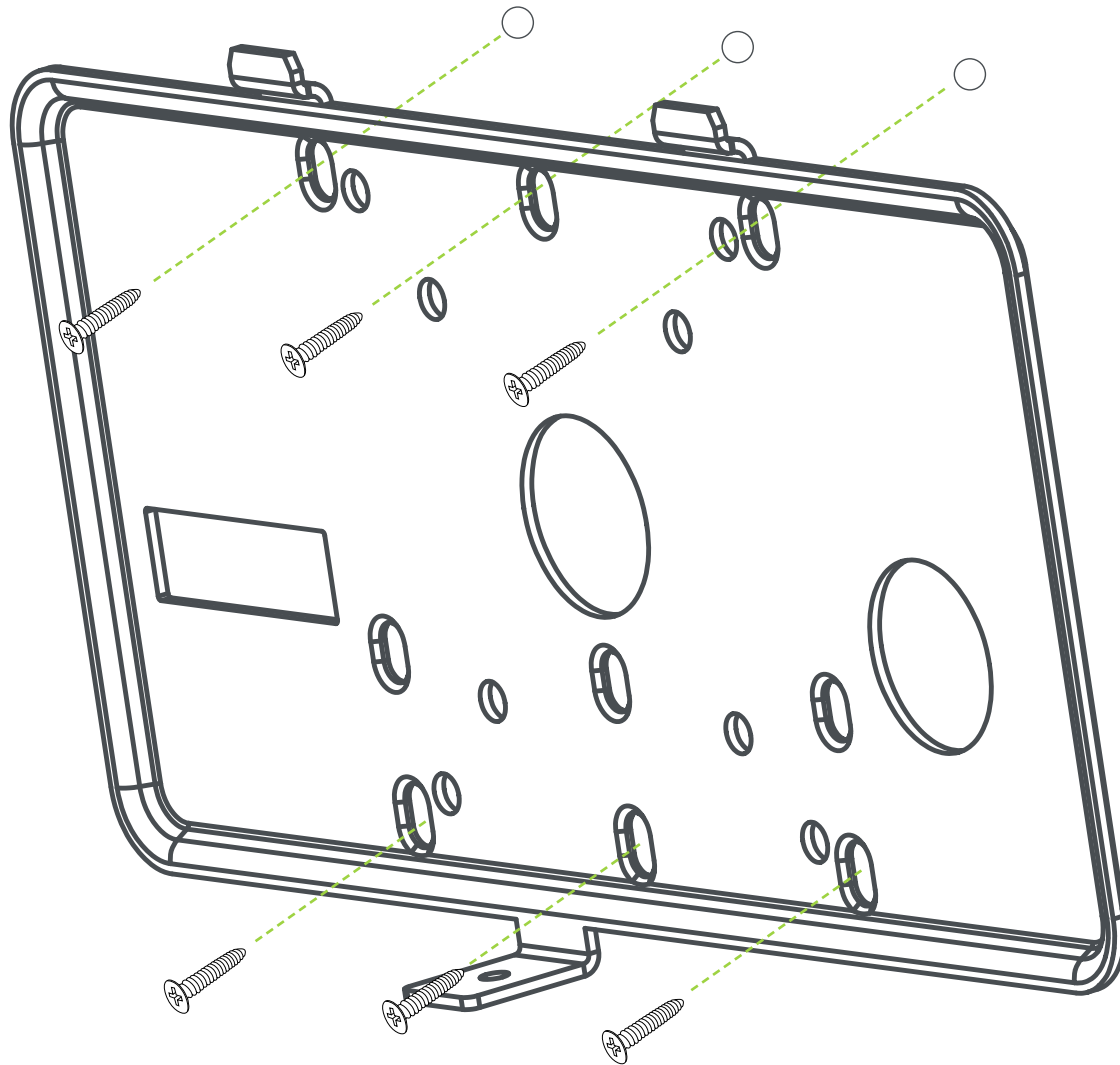Battery Connection   WIFI Module   SIM Card
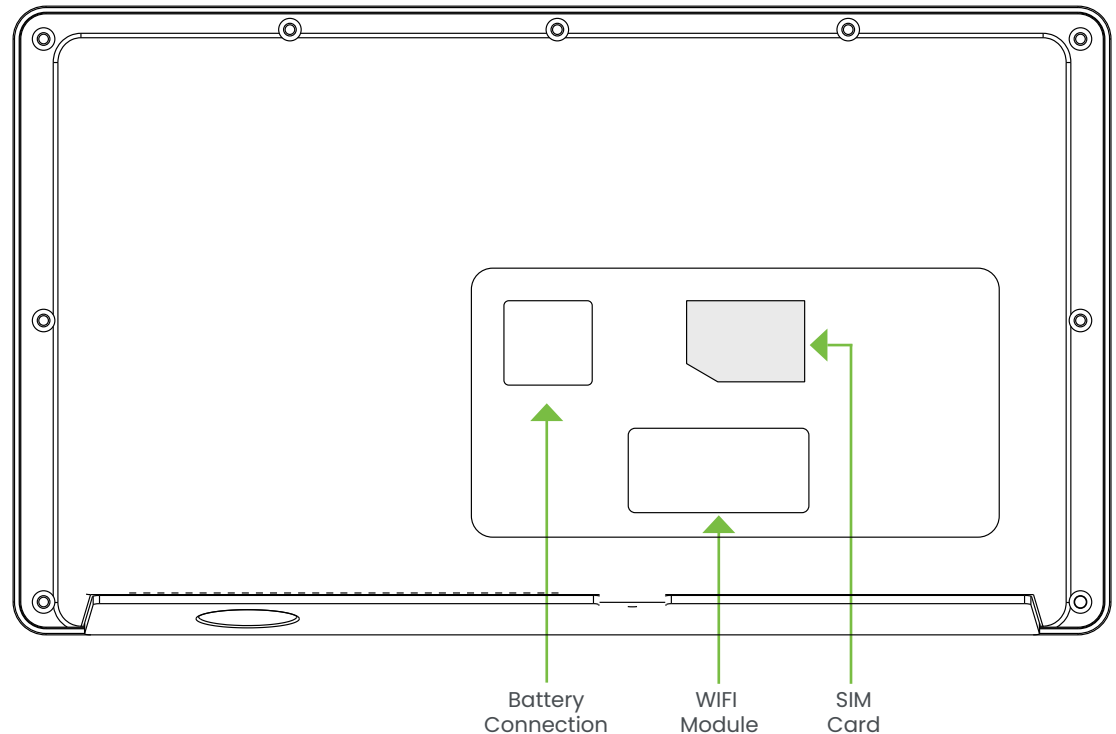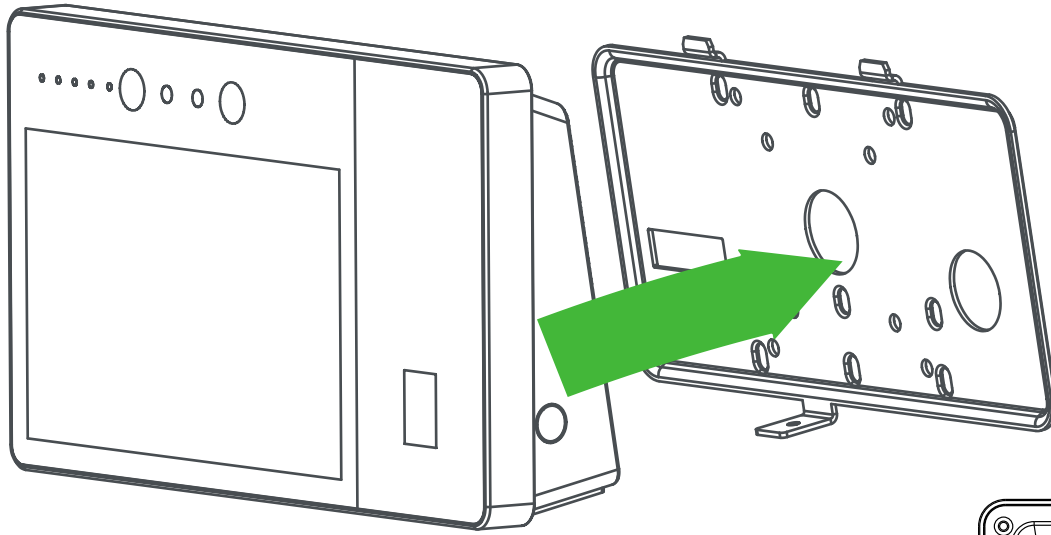
Drilling Holes and Fixing Plastic Anchors
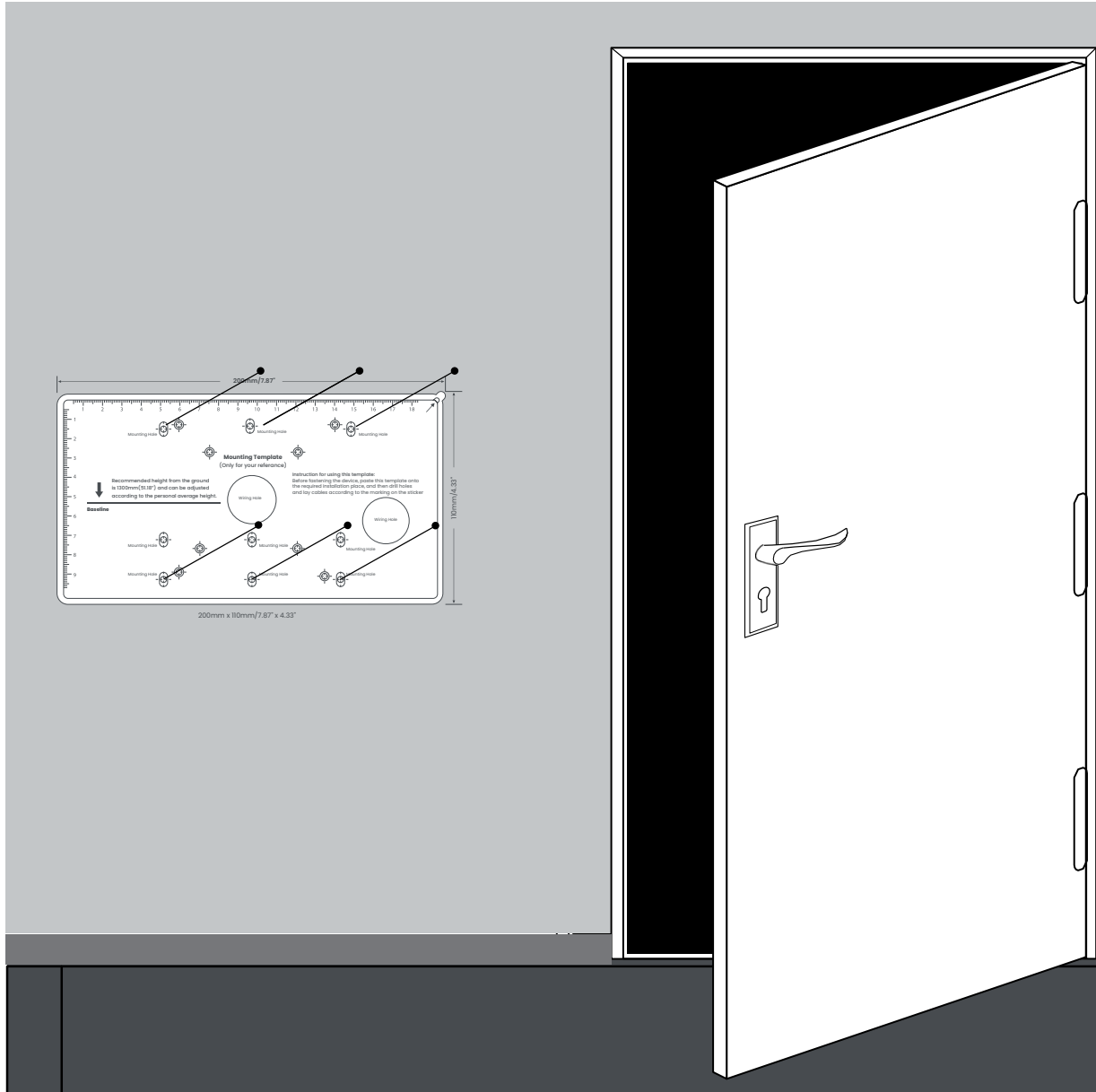
Drill 1/4 inch holes and insert plastic anchors flush with the wall surface

Fixing Mounting Plate on wall

1. Align and hang the Ultima 7P mounting plate on to the wall
2. Fasten it with 6 screws to secure it on the wall

Attaching Terminal with Mounting Plate

1. Align the back of the device with the mounted plate on the wall
2. Slide the device downward until you hear a click, indicating it's locked into place
3. Secure the device to the plate using the small screw as shown
4. Make sure the device is firmly attached before connecting any cables
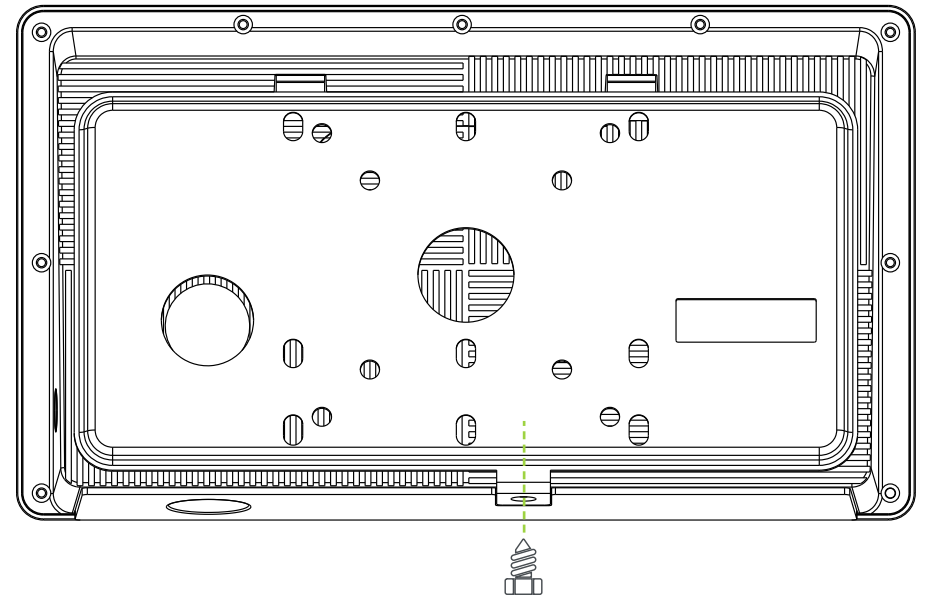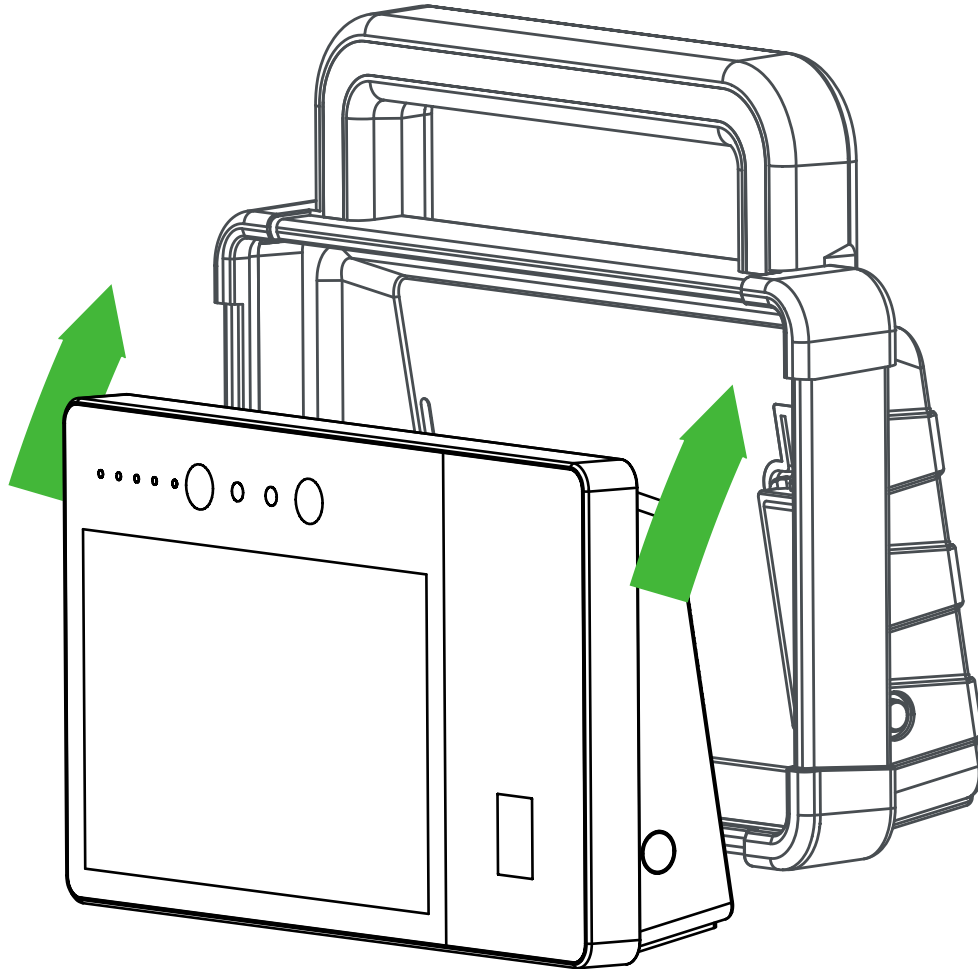
Installation

With Rubber Casing

Inspect the Rubber Casing

1. Check the orientation of the rubber casing
2. Identify the front face, port openings (for power, Ethernet, etc.) and side button cutouts
3. Make sure the casing is clean and flexible, with no blockages in the openings
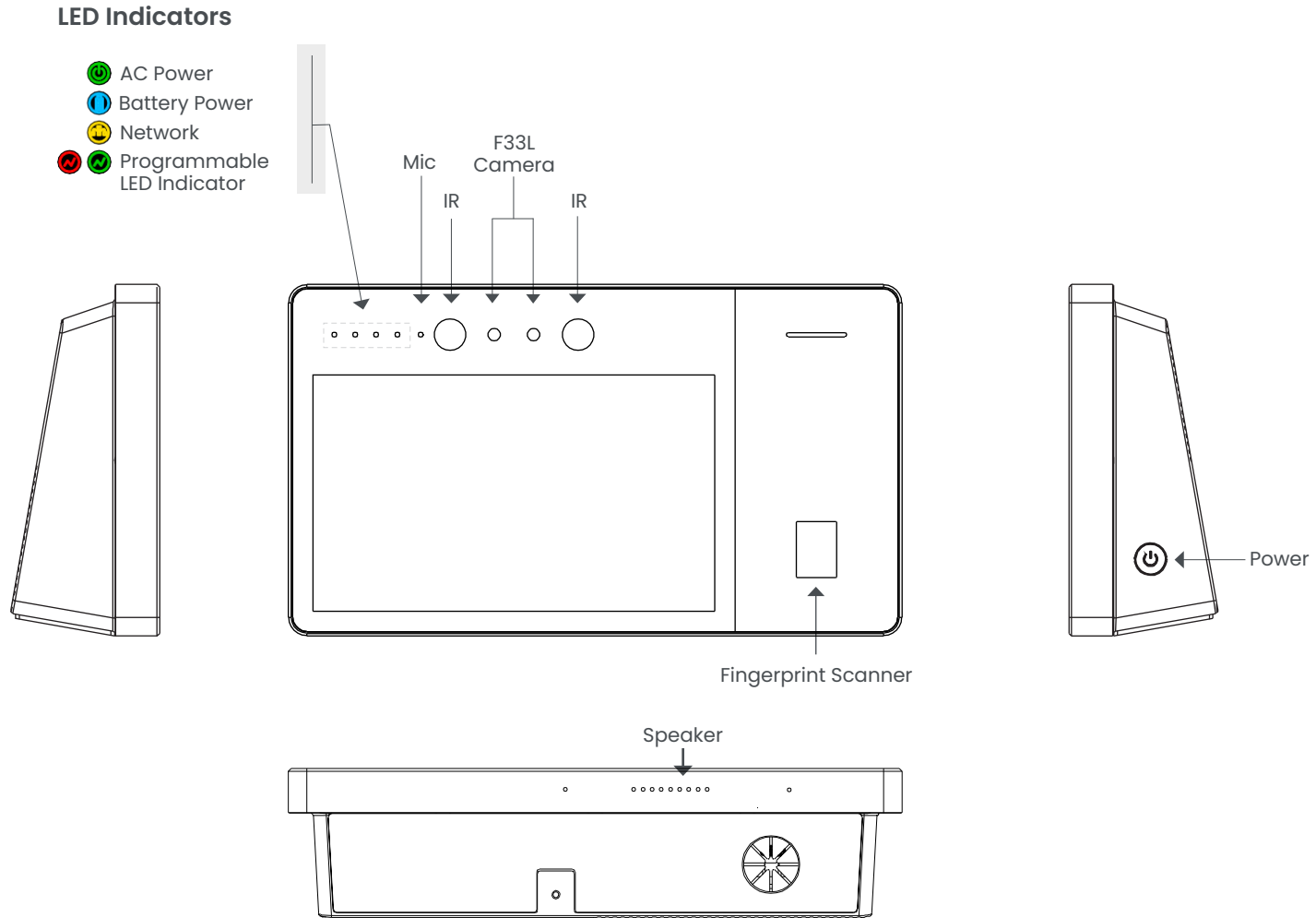
1. Hold the Ultima 7P with the screen facing you
2. Align the bottom of the device with the bottom opening of the casing
3. Gently slide or push the device into the casing from the top, starting at one end
4. Use even pressure on both sides to avoid twisting or forcing it in

Tip: If the fit is tight, slightly stretch the casing edges outward as you insert the device

Adjust for Fit and Alignment
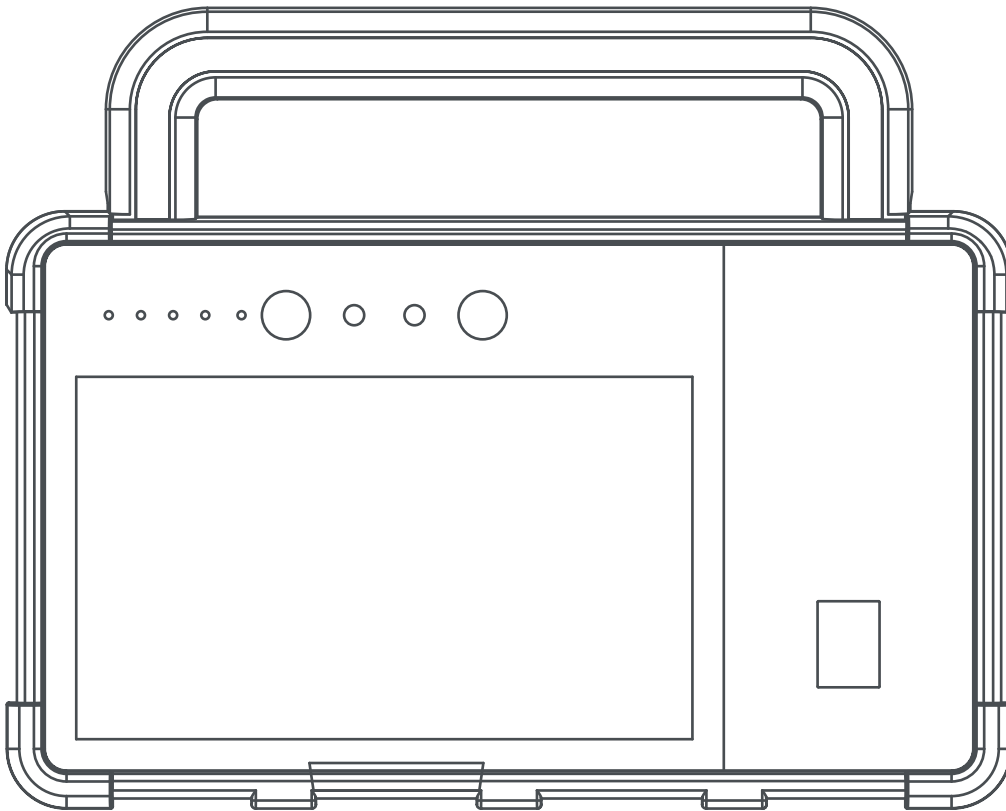
1. After inserting the device, make sure all side ports, the camera, and the speaker are properly aligned with the casing cutouts
2. Press along the edges to confirm the device is securely seated inside the casing
3. Verify that the casing tightly fits around the device, with no gaps or loose areas

**Note:** For more information related to the Hardware and installation, refer the user manual here

External Plug and Indicators - Option 1

LED Indicators

- AC Power
- Battery Power
- Network
- Programmable LED Indicator

Mic

F33L Camera

IR

IR

Power

Fingerprint Scanner

Speaker

Ultima 7P with F33L Camera + Fingerprint Scanner

LED Indicators

- AC Power
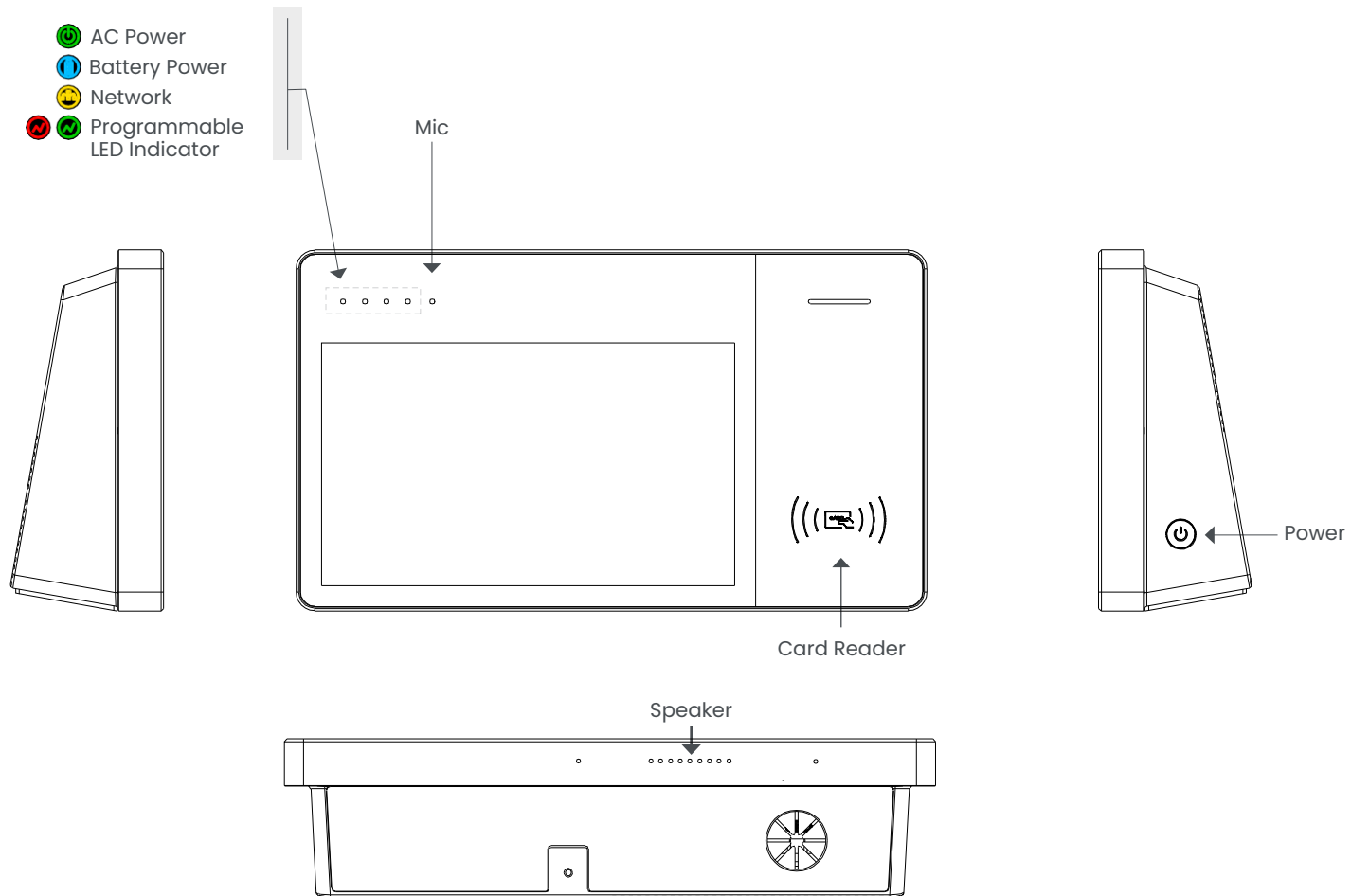- Battery Power
- Network
- Programmable LED Indicator

Mic

Power

Speaker
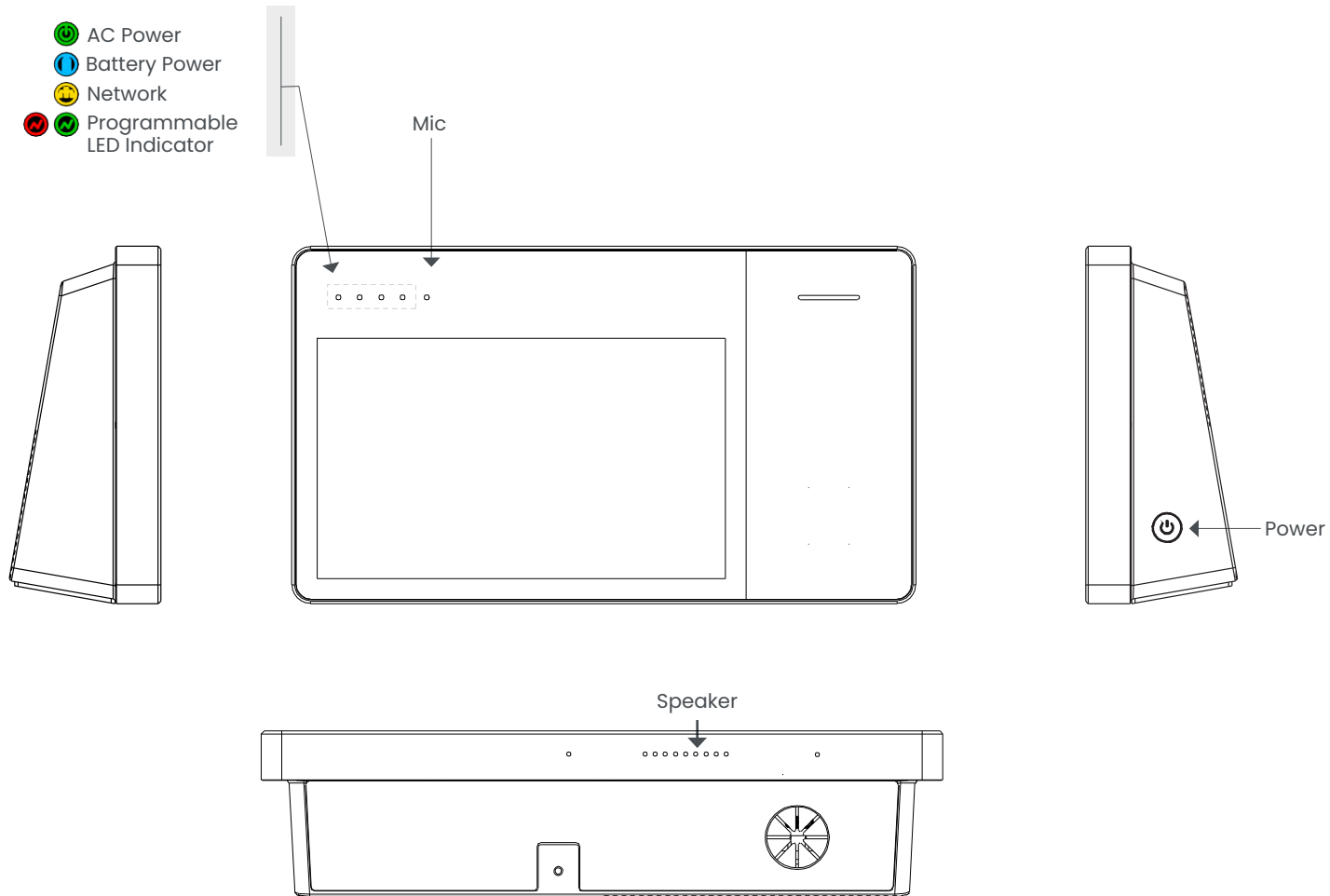
Ultima 7P with No Camera + Fingerprint Scanner

LED Indicators

- 🟢 AC Power
- 🔵 Battery Power
- 🟡 Network
- 🔴🟢 Programmable LED Indicator

Mic

Power

Card Reader

Speaker

Ultima 7P with No Camera + No Fingerprint Scanner

Troubleshooting

Issue	Probable Causes	Corrective Action
There is no power in the Ultima 7P	If the Ultima 7P is powered using standard AC power cable, the power supply is not properly plugged into the time clock, the AC outlet, or both	Check the connections to the time clock 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 time clock
	If the Ultima 7P 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 time clock
The power LED is turned on, but nothing appears on the screen	If the Ultima 7P 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 7P is powered using Ethernet cable, there is an issue with the network	Check the Ethernet connection at the Ultima 7P 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 7P or the host PC	Communication settings are incorrect either at the Ultima 7P or the host PC
	Communications cable is connected incorrectly	Ensure that all communications cables are routed correctly and connected properly

Resources

Fingerprint Enrollment
Matching Information

Datasheet

Privacy Concerns