



Ultima 5

Workforce Data Collection Terminal



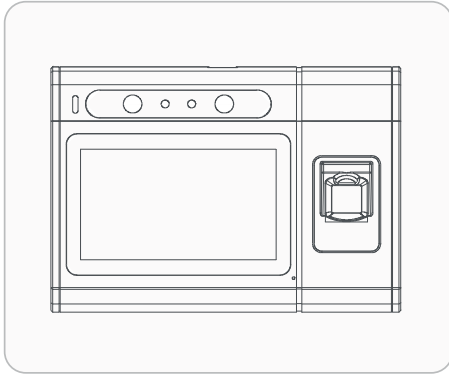
Installation Guide

This guide provides installation instructions only. For information regarding actual operation and configuration of the **Ultima 5**, refer to the user manual.

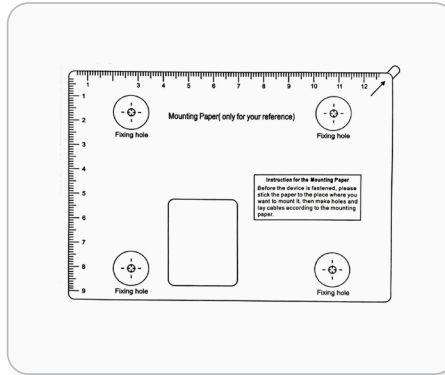


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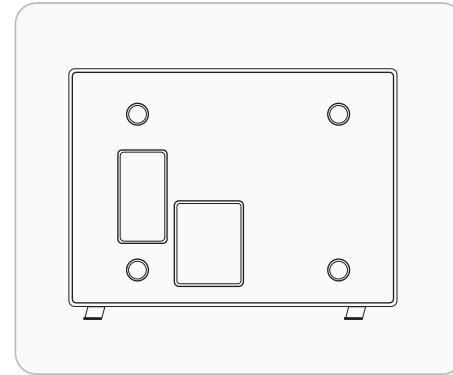
Packing List



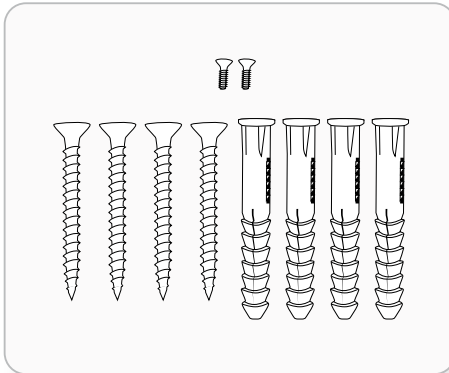
Ultima 5 Time Clock



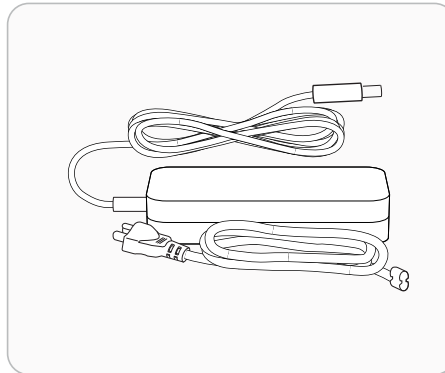
Mounting Template



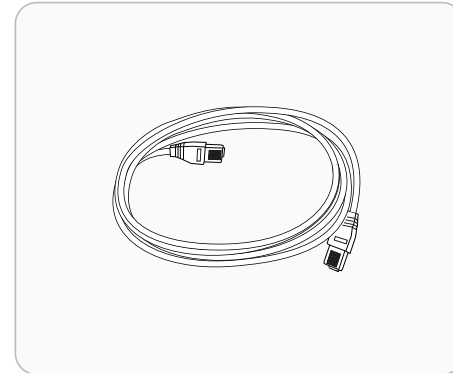
Mounting Plate



Screws & Anchors



Power Supply

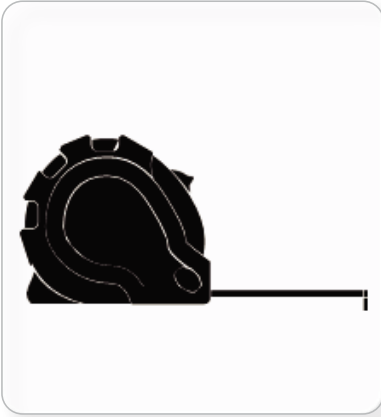


Network Cable

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

Pre-Installation

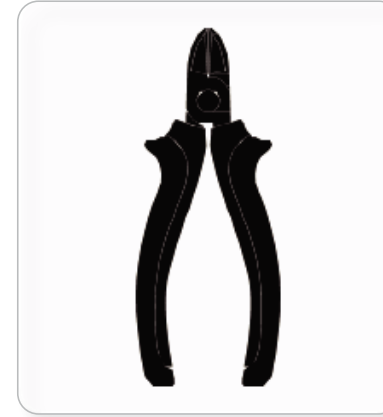
Recommended Tools for the Installation



Measuring Tape



Level



Wire Cutter



Screwdrivers



Drywall Knife



Power Drill

Note: Because of the small size of certain screws, we recommend that you use small screwdrivers with magnetic tips.



Location

- Ultima 5 is designed for any internal environment. In rare cases, user sites may contain elements that can corrode the electronics assemblies in these devices. In the event of this situation, users must move the devices to a suitable environment
- Install the Ultima 5 in an area where the screen is not exposed to direct sunlight or other high-intensity lighting that could make the screen difficult to read

Lux References Guide

Recommended Locations

The device should only be installed indoors. The illuminance of the external light source is 0-800LUX. Direct sunlight should be avoided. Install the device at least 10 feet (3m) away from windows, and 6.5 feet (2m) away from light fixtures.

Avoid these situations

Direct sunlight outdoors Direct sunlight through windows Sunlight reflection off an object Too close to light fixtures

Avoid direct sunlight, indirect sunlight reflected off mirrors, or bright artificial light.



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



Warning

Relay is rated for **12V only** and **should not exceed the recommended voltage**.



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 5 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 5



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 5 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 5 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

Notes :

- A licensed electrician must install the AC outlet and associated wiring before you install the Ultima 5
- Do not connect the Ultima 5 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



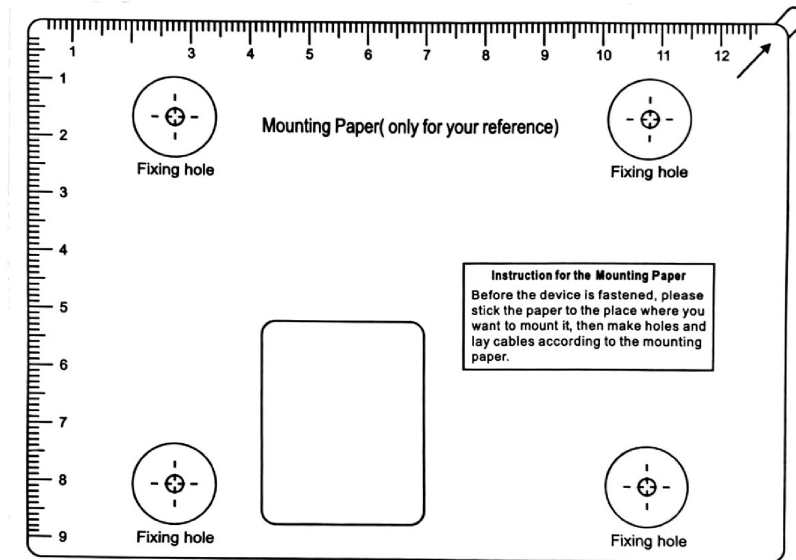
Mark insertion points for the base

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 5.

Mark the wall

1. Tape the mounting template at the optimal height and location for the Ultima 5
 - a. The baseline is recommended 1.2m 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 5 from the back or through the top, use the template to mark the area of entry
4. If you are installing the Ultima 5 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

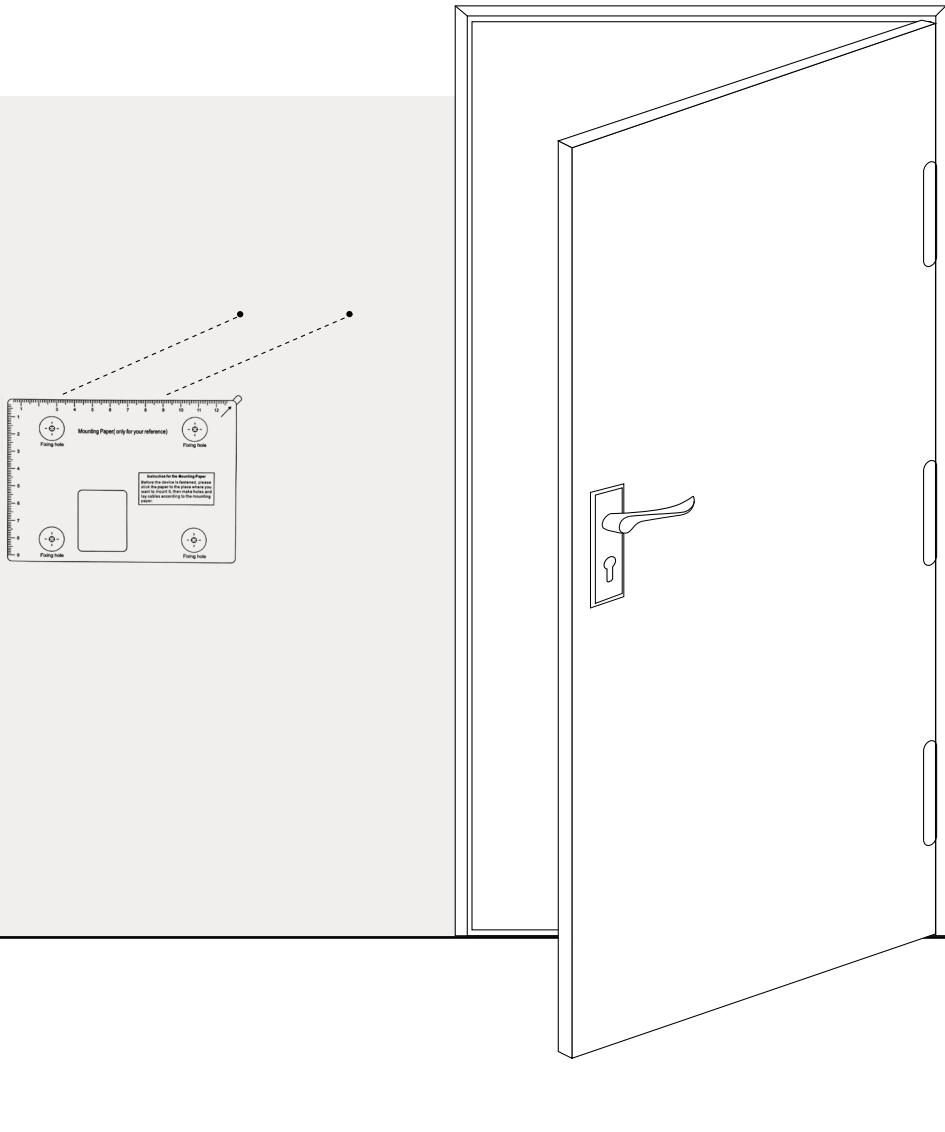
Note: The mounting template contains four fixing holes for the Ultima 5 Time Clock.



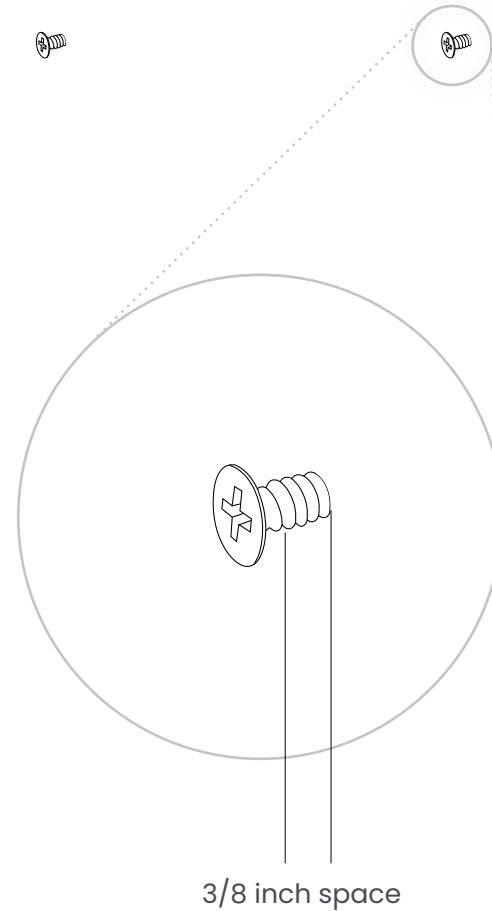
Drilling holes and fixing plastic anchors and upper screws



Drill 1/4 inch holes and insert plastic anchors flush with the wall surface.



Fix the upper 2 screws (base only installation) on the wall.

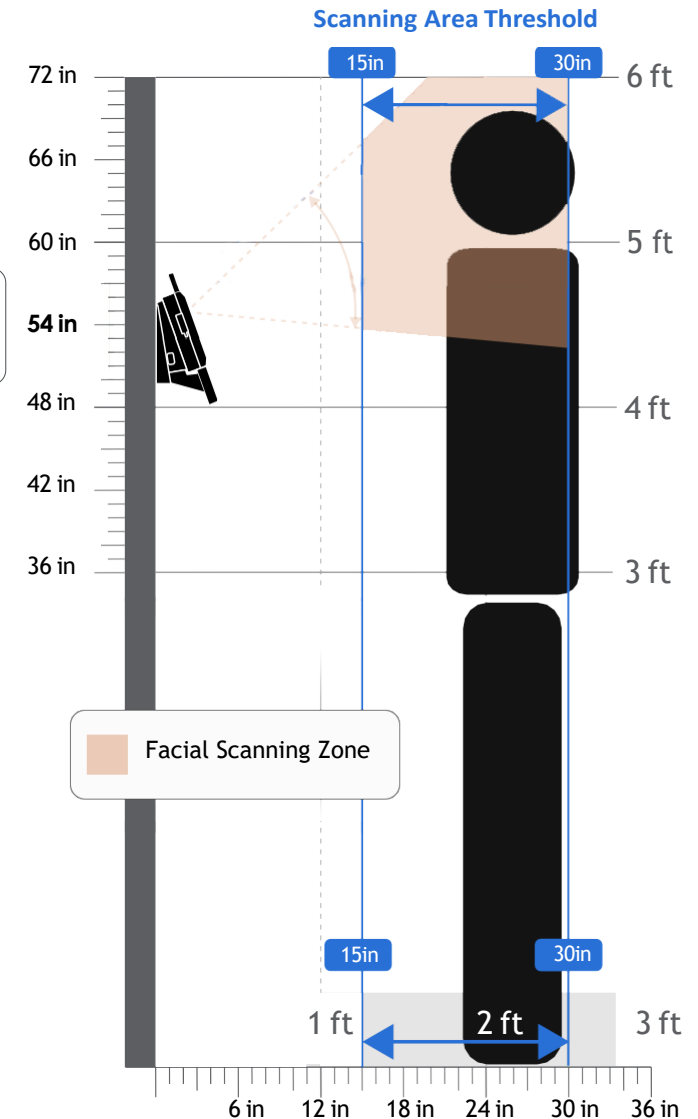




FOV (Field of view) for the combined facial sensors:

1. Per ADA regulations, ZKTeco WFM recommends installing the Ultima 5 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

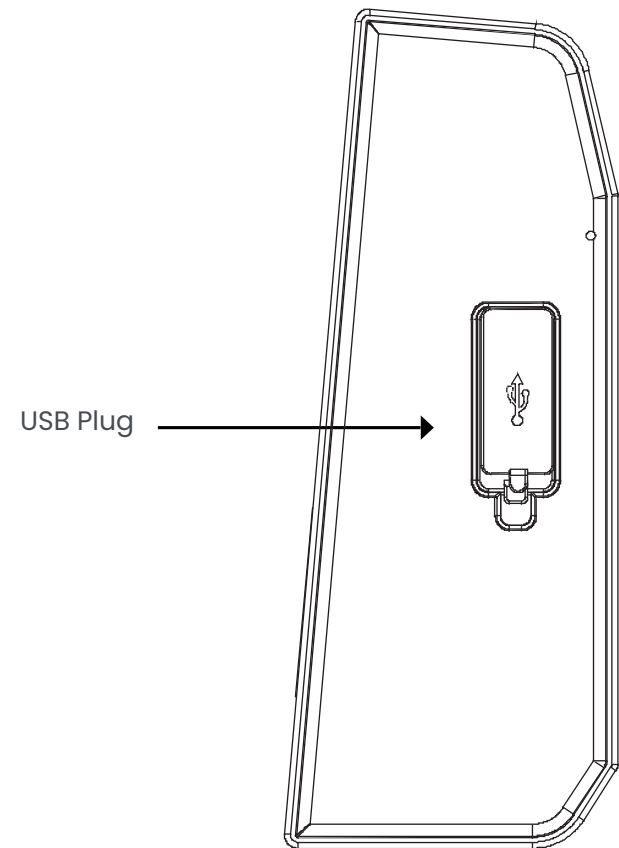
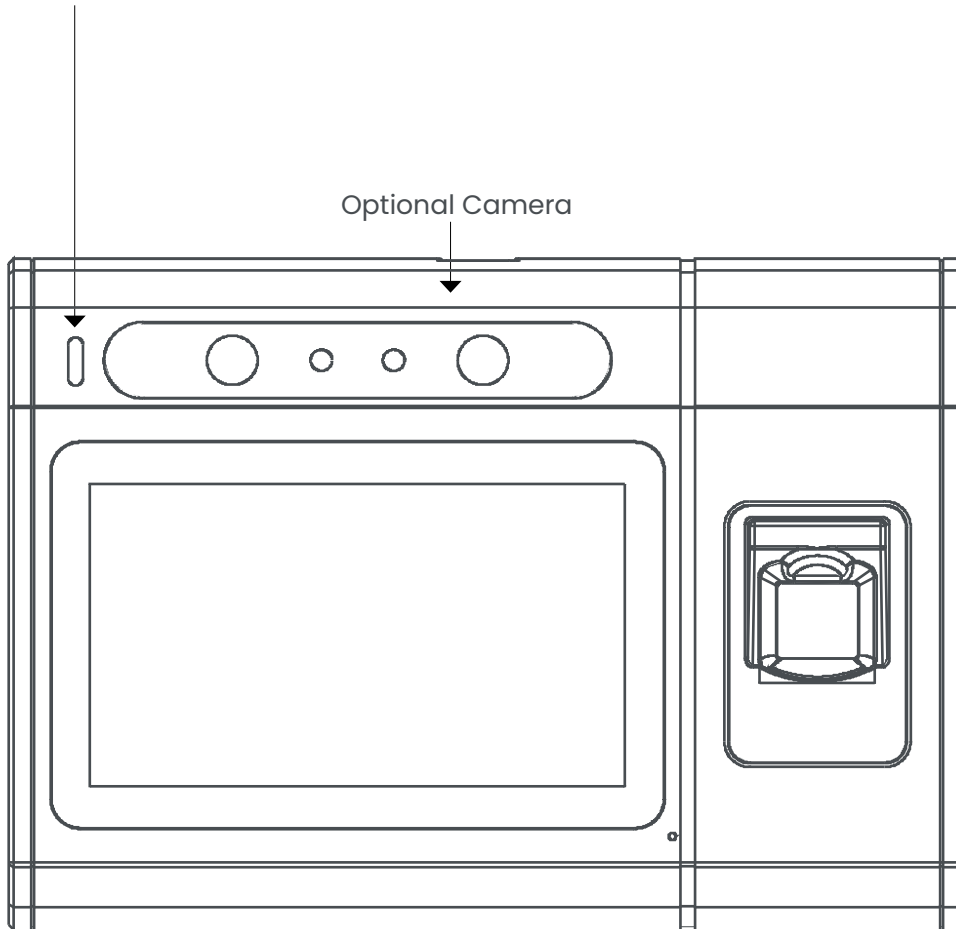
Align the template top screw holes at 54 inch from the floor surface.



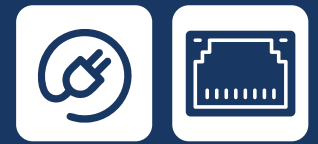
External plug and indicators

LED Indicators

AC Power

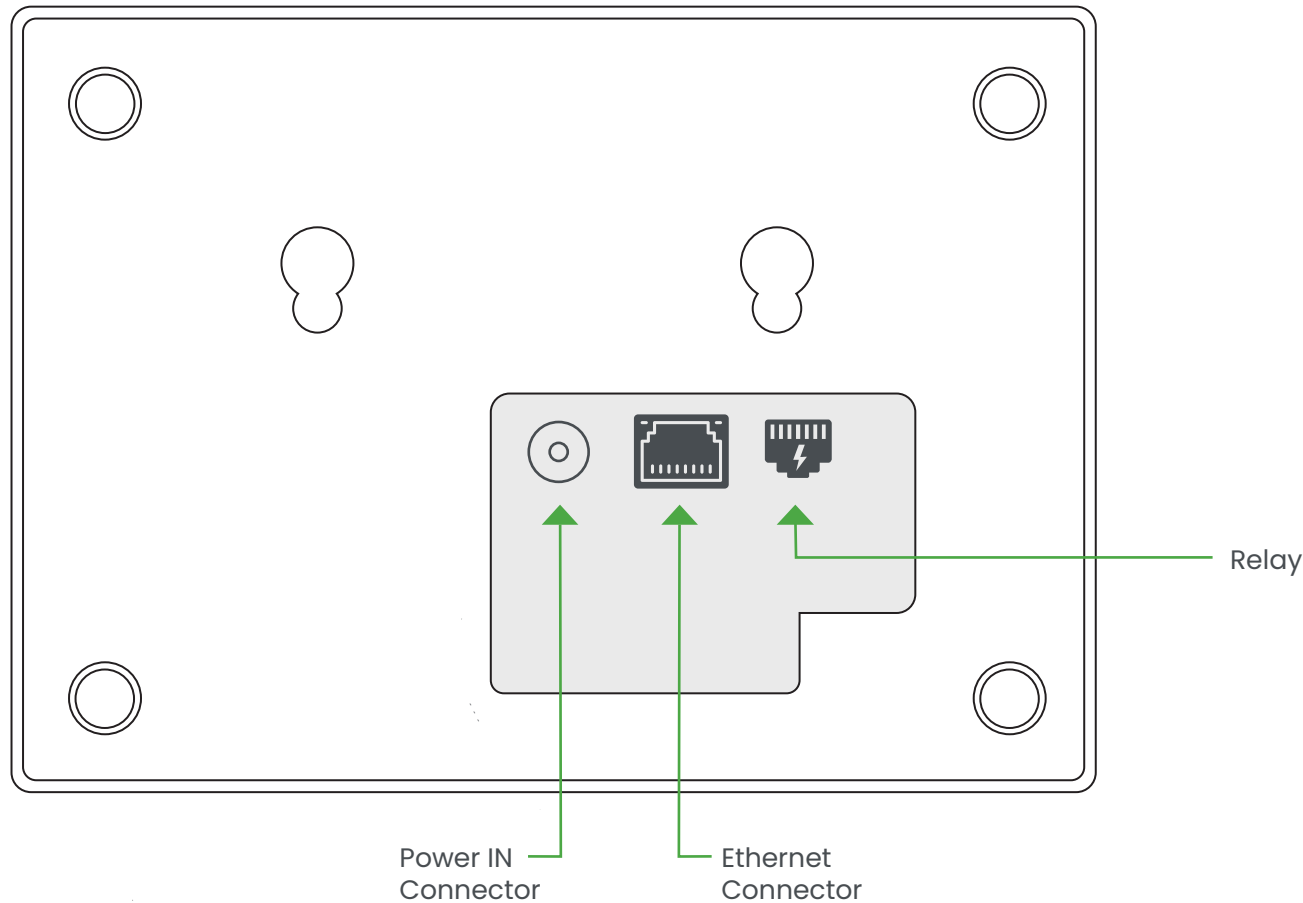


Connecting Ethernet Cable & AC Power Supply



WARNING Power up your device AC Adapter **OR** Power-over-Ethernet+ (PoE+)

DO NOT Connect simultaneously (It may damage the device)





Issue	Probable Causes	Corrective Action
There is no power in the Ultima 5	If the Ultima 5 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 5 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 5 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 5 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 5 or with the host server	Check and, if necessary, correct the device IP Address, Netmask, Gateway and DNS
	Communications cable is connected incorrectly	Ensure that all communications cables are routed correctly and connected properly



Fingerprint Enrollment
Matching Information



Datasheet



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