# Introduction

Dear User,

Thank you for choosing Elitech refrigerant scale. To use the scale correctly, please read over the manual first, especially the "safety notice".

It is suggested to keep the manual properly with the scale or in a place where you can refer to it conveniently.

## Parameters

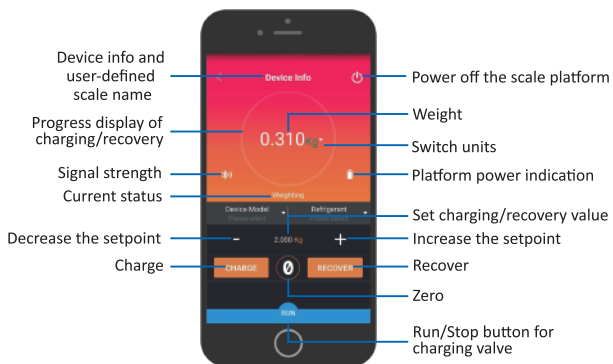| | |
|---|---|
| Max weighing：150kg (331 Lb) | Operating temperature：-10℃ ~ 40℃ |
| Resolution：5g | Storage temperature：-15℃ ~ 50℃ |
| Accuracy：±0.05% rdg+25g | Temperature fluctuation range：5℃/h |
| Power supply：Hand-held device：5 AAA batteries | Relative humidity：50-85% |
| Scale platform：5 AA batteries | Product size：271*271*74mm |
| Battery life：Hand-held device：50h | Scale platform: 60 h |
| View and control the scale via mobile APP：Support | |

# Mobile APP operation

## APP operation interface:
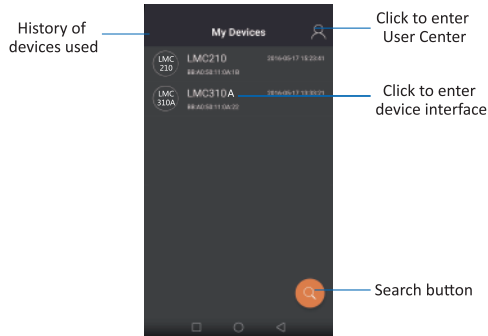
**0 key:** click it to deduct tare and zero out.

Charging/recovery process: set the charging/recovery weight and click charging/recover button, the current status switches to charging/recovering and the characters on the button turn to "Stop". Click "Stop" to return to normal weighing status, and charging valve stops.

**Run/Stop:** click it to start or stop charging valve instantly. (When the platform is in low battery, the charging valve is disabled to open. Please replace the batteries.)

Device info and user-defined scale name
Progress display of charging/recovery
Signal strength
Current status
Decrease the setpoint
Charge

Power off the scale platform
Weight
Switch units
Platform power indication
Set charging/recovery value
Increase the setpoint
Recover
Zero
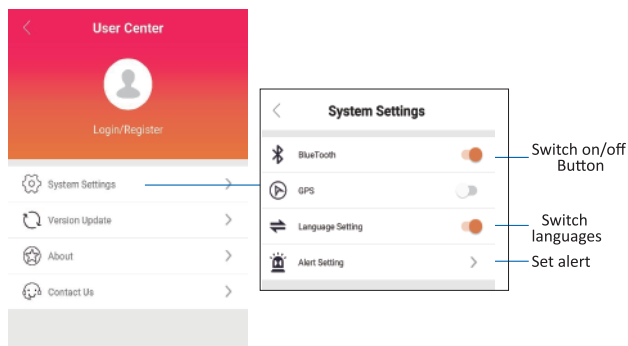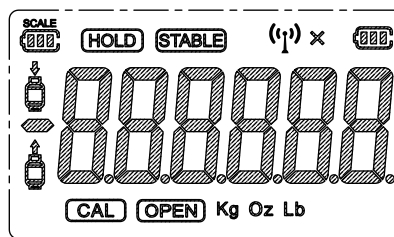Run/Stop button for charging valve

## Device list interface:

1. It displays the devices used. To connect with new device, please click "Search" button and enter search interface. The devices that can be connected will show in this interface.
2. Click "User Center" to view user info and other settings.

History of devices used

Click to enter User Center

Click to enter device interface

Search button

## User Center interface:

Switch on/off Button
Switch languages
Set alert

## Hand-held device:

STABLE：stable weight indication
：hand-held device power indication
SCALE：scale platform power indication
：Wireless signal indication
：charging icon
：recovery icon
HOLD：current weight is locked.
OPEN：charging valve is open

## Button functions:
### Hand-held device:

**CHARGE:** Press to set charging value.
**ZERO:** Press to deduct tare and zero out current reading on display.
**UNIT:** Press to switch between "Kg", "Oz" and "Lb".
**RECOVER:** Press to set recovery value.
**LAMP:** Press to lamp the blue backlight and it will last for 10s. Press and hold for 3s to keep the backlight on all the time. Press it again to turn off the backlight.
**RUN/STOP:** Press to stop or start the charging valve instantly.
**REPEAT:** Press to repeat last order of charging or recovery.
**HOLD:** Press to lock the current weight (the charging valve is disabled to open), the displayed weight does not change with the actual weight. Press again to unlock it.
**POWER:** Press to turn on the scale; press and hold for 3s to turn it off. Press and hold for 5s in charging or recovery status to turn it off.
**⏎ :** Enter button. After setting charging/recovery value, press this button to enter charging/recovery status. If the value set is wrong, press and hold this button for 3s to exit from the setting status and set it again. In charging/recovering refrigerant, press this button to end charging/recovery status and return to normal weighing status.

### The scale platform:

**⏻ :** Press to turn on/off the scale. When it alarms after charging/recovery is finished, press this button to cancel alert.
**📶 :** When the communication is normal, press this button, wireless module enters sleep status.wireless indicator turns red and flashes slowly, and communication breaks. Press this button again, wireless module communication connects.

## Quick start

1. Install 5 AAA batteries in the hand-held device and 5 AA batteries in the platform.
2. Place the platform on a firm and level surface.
3. Press "POWER" on the platform, the power indicator will flash once in red. The wireless indicator flashes in red quickly. The platform is being searched now.
4. Press the "POWER" button on the hand-held device. The device will search current devices automatically. When the wireless indicator flashes in green, the platform communicates with the device.
5. Press "UNIT" on the hand-held device to select desired unit.
6. Press "ZERO" to deduct tare.
7. Place the object to be weighed until STABLE appears stably. Read the LCD.
8. CHARGE: Press charge to set value and press ⏎ to start charging.
9. RECOVER: Press recover to set value and press ⏎ to start recovering.
10. Press "RUN/STOP" start the charging valve ( OPEN is normally on) or stop the charging valve ( OPEN is normally off) immediately.
11. Press "HOLD" to lock the current weight.

## Functions

### Weighing operation:
1. Take out the scale from the package and place it on a firm and level surface.
2. Press "POWER" on the hand-held device;
3. Press "UNIT" to switch between "Kg", "Oz" and "Lb".
4. Press "ZERO" to deduct tare.
5. Place the refrigerant tank in the center of the platform; zero it again to display the changing weight of refrigerant.
6. Press "HOLD" to lock the current value. It will not change with the weight on the platform.

### Charge/Recover:
1. Press CHARGE/RECOVER to set charge/recovery value, the screen will display "-" on the right, and charge icon 🔋/recovery icon 🔋 will flash.
2. Input the charging/recovery value to be set, confirm the value and press " ⏎ " to start charging/recovery. If the value is set wrong, press and hold " ⏎ " to exit the current status. Repeat the operation above to set charge (recovery) value.
3. In charge/recovery status, charge icon 🔋/recovery icon 🔋 is always on. When charging valve is opened,  is always on.
4. Charging status: The initial display is 0.000. When the detected weight drops, the screen displays the charged weight. The value increases slowly until it reaches the set-point; charging valve switches off automatically;  icon OPEN turns off; buzzer alarms. Press "POWER" on the platform to exit alert at this moment.
*When the detected weight rises, the screen will display "-" on the left. When the value is less than -0.2kg, error occurs in the charging process. Charging valve switches off automatically;* OPEN *icon turns off; charging status ends and the scale enters normal weighing status.*

Recovery status: The initial display is recovery set-point. When the detected weight rises, the screen displays the remaining recovery volume. The value decreases slowly until it becomes 0.000 (maximum permissible error). Charging valve switches off automatically; OPEN turns off; buzzer alarms. Press "POWER" on the platform to exit alert at this moment.
*When the detected weight drops, the value on the screen will increase. When the value is 0.2kg more than the recovery set-point, error occurs in the recovery process. Charging valve switches off automatically;* OPEN *turns off; recovery status ends and the scale enters normal weighing status.*
5. When one charge/recovery operation is finished, press REPEAT to directly carry out the last operation, saving your time to set the same value.
6. Press "RUN/STOP" to instantly turn charging valve on or off.

### Over range indication:
If the weight applied to the platform exceeds the maximum weight (150kg), characters "FULL" will appear on the LCD screen, buzzer beeps and red LED will flash to indicate alert.
**To prevent damage to the scale and sensor, please do not place objects over 150Kg on the scale platform for a long time.**

### Battery level indicator:
The battery power is indicated in segments, which reduce with power consumption until the frame of 🔲 flashes. Later on, the LCD will become unstable.
**Please change batteries before the LCD indicates unstable in case error message affects the normal use of the scale.**

### Other functions:
1. Power-on self-test lasts less than 2s.
2. Tare deduction in full weighing range (150kg).
3. The LCD displays numbers from high digit to low digit. The digit that exceeds the digit range will not be displayed.
4. Auto off: If the weight on the platform does not change for 10 minutes, the scale turns off automatically. When the hand-held device fails in communication with the platform for 2 minutes, the scale turns off automatically.
5. When the platform is in low battery, the charging valve is disabled to open. Please replace the batteries.

## Safety notice

1. Please use the scale in specified environment to avoid error or damage of the sensor.
2. Please do not use chemical solvent or corrosive liquid to clean the scale.
3. Please do not disassemble the scale body and inner device; otherwise, it may cause great weighing error.
4. Please do not pull hard the charging valve line to avoid damage.
5. Remove the batteries if the scale is not to be used for a long time in case the leakage corrodes the scale. The batteries included are not rechargeable. Please do not charge them.

## Packing list

| | |
|---|---|
| LMC-310A refrigerant scale | 1 piece |
| Charging valve | 1 piece |
| Nylon toolkit | 1 piece |
| AAA alkaline battery | 5 pieces |
| AA alkaline battery | 5 pieces |
| User manual | 1 piece |

## Download APP
Download Elitech Scales free mobile app for iOS$^{TM}$ on the Apple App Store or for Android$^{SM}$ on Google Play$^{TM}$.

Scan the QR code, Download the "Elitech Scales" from the Apple App Store or Google Play.

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APP Store

Version 4.4 or higher          Version 8.0 or higher

V2.1