ElderBOT

User Manual

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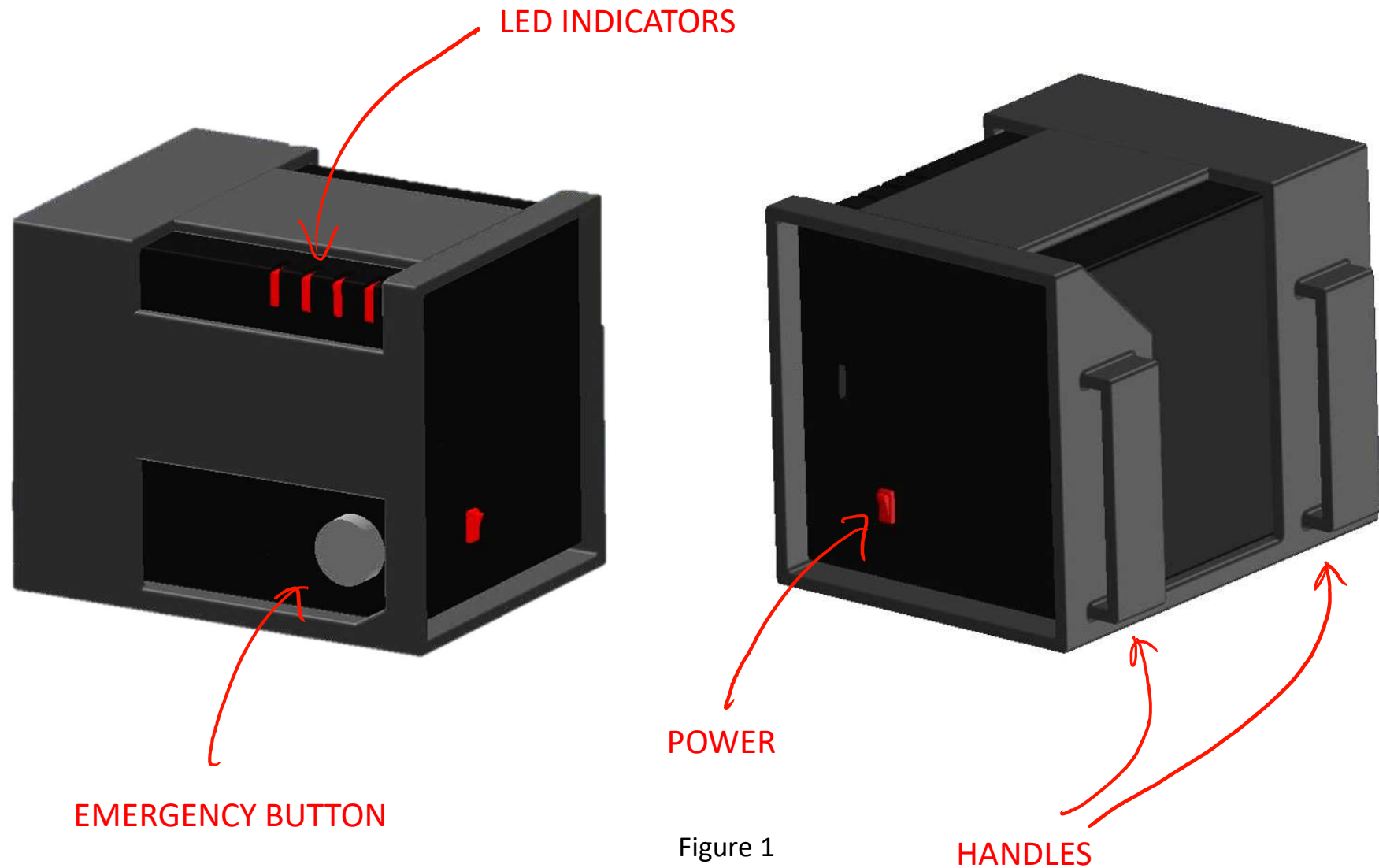
Warnings, care and use instructions

1. **Please, read the user manual carefully before using the device. Check that everything is correct before using the system.**
2. Use only accessories supplied and/or authorized by the manufacturer
3. The product must be repaired by authorized staff by the manufacturer
4. Equipment modifications must be done by authorized staff by manufacturer
5. **Do not** expose the system to liquids. Liquid exposure may permanently damage the system.
6. The box is closed and should only be opened by qualified personnel.
7. **Do not** use the system under 0ºC conditions or over 40ºC. Wait at least two hours for the system to return to room temperature before it is turned on. Operate system with room humidity between 45% and 85%.
8. **Do not** put metallic elements on the device.
9. **Do not** use with inflammable agents
10. Manufacturers recommend not to sleep with the sensor since it can be oppressive and might cause physiological discomfort.
11. **Do not** use the sensor in medical interventions (surgical procedures, X-ray sessions, magnetic resonances…).
12. Limited warranty covers any defect in the device under normal use during warranty period (2 years). Warranty does not cover any problem that is caused by conditions, malfunctioning or damage not resulting from normal use. It is not allowed to open the enclosure, otherwise, Limited warranty will not be applied

What's in the box?

The box contains this user guide, a fall detector device and a belt/holster

LED INDICATORS

EMERGENCY BUTTON

POWER

Figure 1

HANDLES

Intended use

There are 3 modes of our device, which will trigger different notifications.

Fall Mode

Fall When an user falls, the device will detect whether a fall occurred according to ElderBOT's algorithm. After confirmation, a message will be sent to the guardian informing the situation of the user.

"ElderBOT warning for User! Device has detected fall incident. No response from the user. Please try contacting them and see if they are safe."

Normal Mode

If the change in motion is not confirmed to be a fall either by the algorithm, or by the user by manually turning the alarm off ("Normal" mode), no message will be sent.

Emergency Mode

You can also trigger the device manually to alert your guardians by pressing the emergency button (see Figure 1).

"ElderBOT warning for User! User has manually started emergency mode. Please try contacting them and see if they are safe."

Quick start-
Registration

Please use the QR code or go to: http://3.137.154.119:8080/

If you are using the device for the first time, select the
Sign Up option on the homepage. If you already have
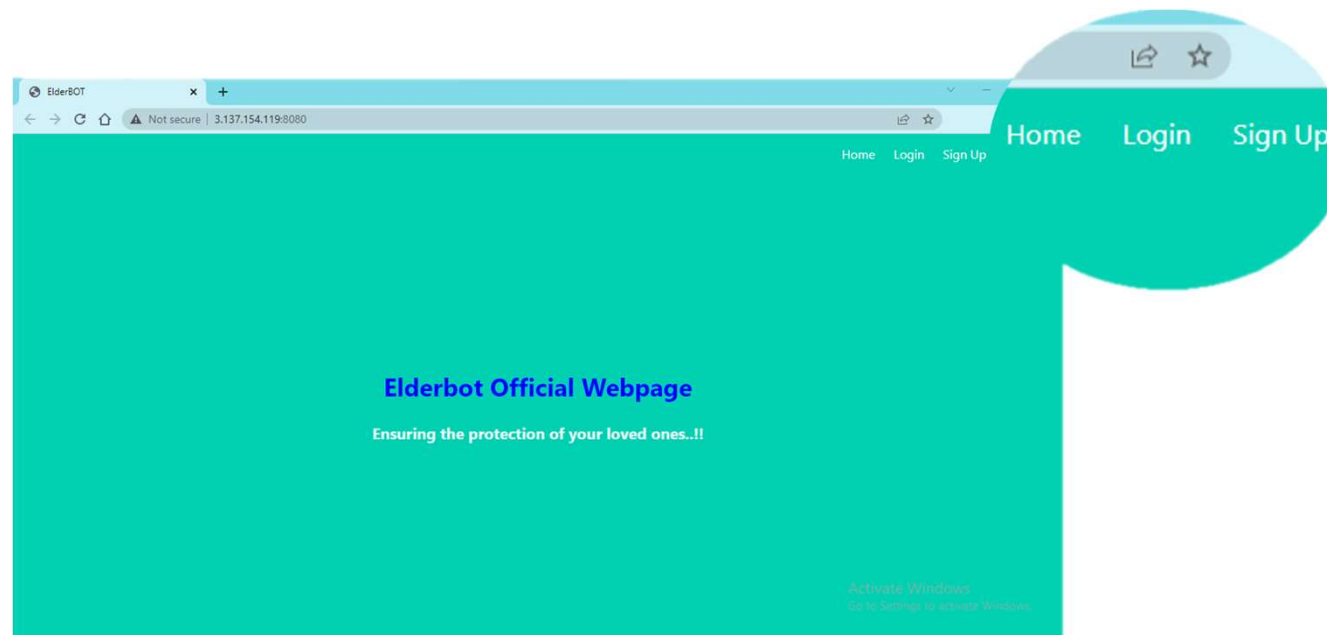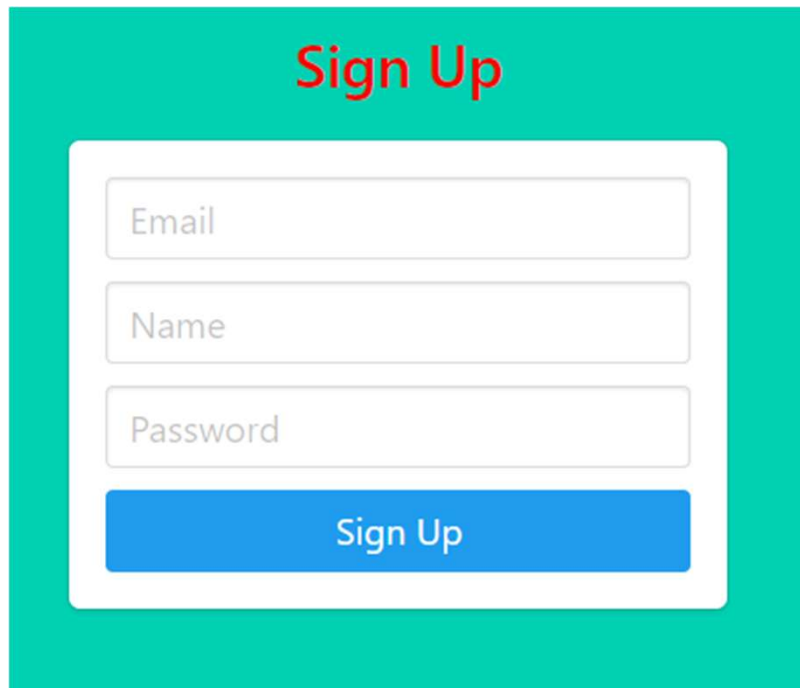an account, select the Login option to proceed.
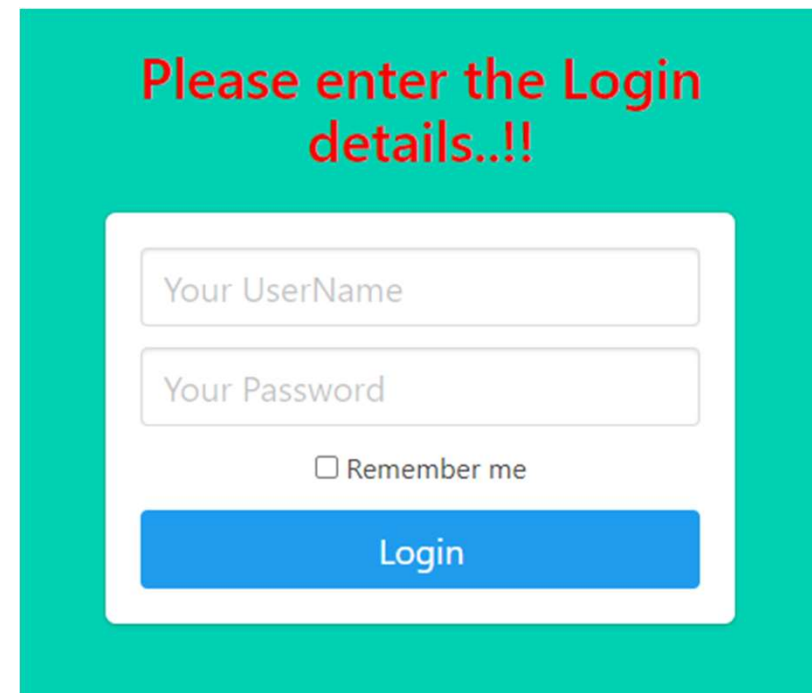

Figure 2

Quick start
Registration

If you are using the device for the first time
Enter your email, name and a password and click "Sign Up" to create your account.

If you already have an account
enter your credentials and click "Login"
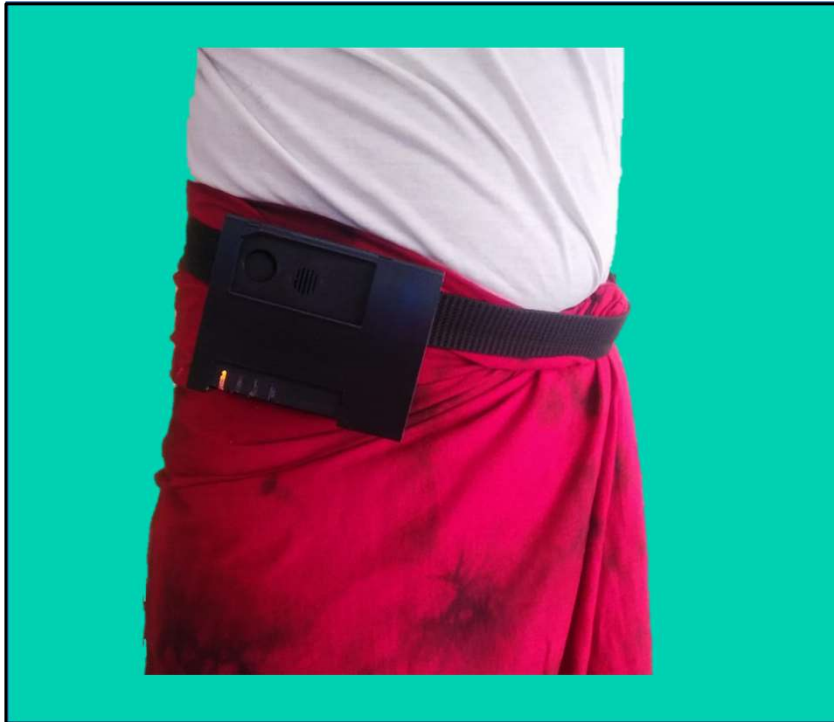
Quick start
Wearing the device

Figure 3

- Clip the device to your belt or clothing in the upright position as shown below.
- ElderBOT will only detect you falling if you are wearing it.
- The device must be worn at or above the waist, where it will detect the maximum number of falls.
- When removing the fall detector, handle carefully to avoid false notifications.
- Due to the complex dynamics of falling, all falls may not be detected. In the event of a fall not being detected the manual button can still be used to call for help
- It is not recommended that you wear the fall detector whilst in bed, as normal movement in bed may cause the fall detector to trigger

Quick start

Configuring the device

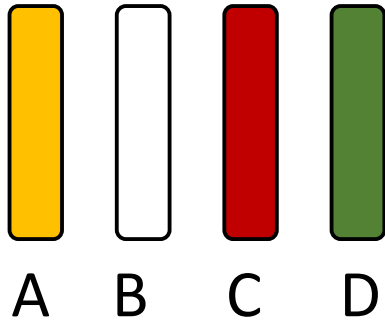If you are using the device for the first time:

Figure 4

- Check if the device is detected.
- Type in the SSID and Password of the WIFI network that the device is connected to. Afterwards, click 'Upload Wi-Fi settings'
- Fill in your ElderBOT account details: Username, email and password for login
- Then select a 'Create new user' to create your new account

Quick start
Modes of the device

A- Power Indicator
B- Status: Falling<--> Reset
C- Warning
D- WIFI connectivity

Power ON		With the power switch
Fall Detected		A buzzer sounds for 10 seconds. The state LED blinks and turns off
Emergency		A buzzer sounds continuously
WIFI connectivity		Green LED blinks while connecting

Technical information

Weight: 210g
Dimensions: 95 x 72 x 63 mm (WxHxD)
Battery: WZS 18650 3.7V Rechargeable Lithium Ion
Battery Life: 300 charge cycles
Radio frequency: 869.2125MHz, compliant with the European Social Alarm frequency band

Environmental Temperature: Operating temperature (to perform to full specification) = 10°C to 35°C, storage = 15°C to 40°C
Humidity: Operating relative humidity (non-condensing to perform to full specification) = 0 to 80%, storage relative humidity (non-condensing) = 0 to 93%

Standards We Strive to Achieve

Software and Firmware updates: IEC 62304:
Risk assessment and management: ISO 14971
Lifecycle design: ISO 14971
EMC: EN50130-4: 1995
Design and Manufacture: ISO9001:2008

Troubleshooting

- ElderBOT authentication is not successful.

Check if the device is properly detected by checking the device status in the authenticator window. (Figure 5). If the device is not detected, try turning the device OFF and turn back ON after a few minutes.
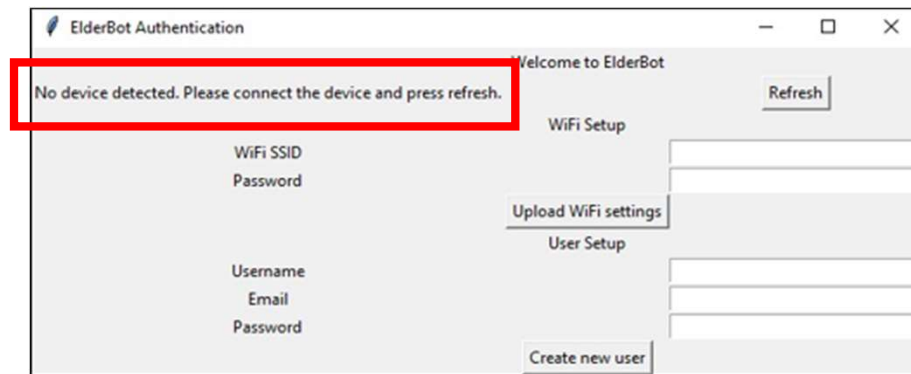

Figure 5

- The device does not turn ON.

Check the batteries and charge the device. If unsuccessful, contact the manufacturer or seek local technical support.

Disposal and Replacement:

- To replace the battery
1) To access the battery, remove the enclosure cover screw
2) Remove the battery cover by sliding it in the opposite direction of the

3) Remove the battery and replace it with the new battery (WZS 18650 3.7V Li-ion), remember to observe the correct orientation.

4) Replace the sliding cover and the screw. Test the fall detector by making a manual call. Inform the operator that you are making a battery test call.

Figure 6

5) If the device fails to make a test call, then check the orientation of the battery. If this is correct, then contact your supplier.
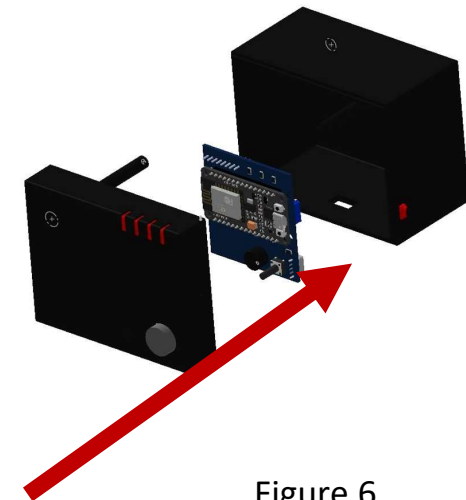
NOTE: Dispose of used batteries in accordance with the latest local legislation. Do **not** dispose of in household waste.

- To dispose the device:
Affixed to this device in accordance with Central Environmental Authority Directives. These directives call for the separate collection and disposal of electrical and electronic equipment. Sorting such waste and removing it from other forms of waste lessens the contribution of potentially toxic substances into municipal disposal systems and into the larger ecosystem. Please, return to ElderBOT INC. Or your local vendor at the end of its operating life.