



AllBe1 User manual



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1. Introduction

The allabe1 is a multi-sensor with extended BLE range, the user can defined many feature via the Smart phone app.

The AllBe1 has the following features:

- Human detection- by passive infra-red detector.
- Tilt alarm by 3D accelerometer.
- UV sensing monitoring.
- Temperature sensing and monitoring.
- Out of range detection
- Assets tracking.

2. CAUTIONS

- **Use only certified USB charger.**
- **Do not mount it on human body during charging**
- **Keep it away from water and other liquids.**
- **Keep the passwords if you are using them, forgoing the AllBe1 lock password can't be restored!!!**
- **Most use power supply with current limit of maximum 200ma**



3. Using the AllBe1 application – first steps

Before start the app please put the AllBe1 device in charging for 2 hours or more.

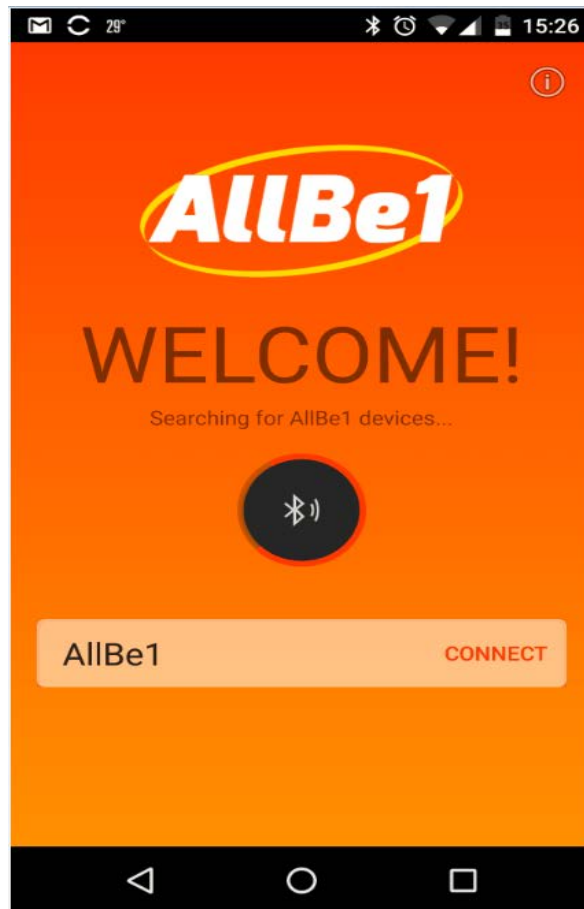
Most use power supply with current limit of maximum 200ma

Step 2 – Install the ALLbe1 app' – go to Google Play or to Apple appstore and search for Allbe1 app'

Step 2 – Turn on the AllBe1 by short pressing on the AllBe1 button, the blue LED should flash fast – this the sign that the Allbe1 is on BT advertising mode (searching for devices to pair with).

Step 3 –Turn on the GPS and the BT on your phone.

Step 4 – you will see the following screen:

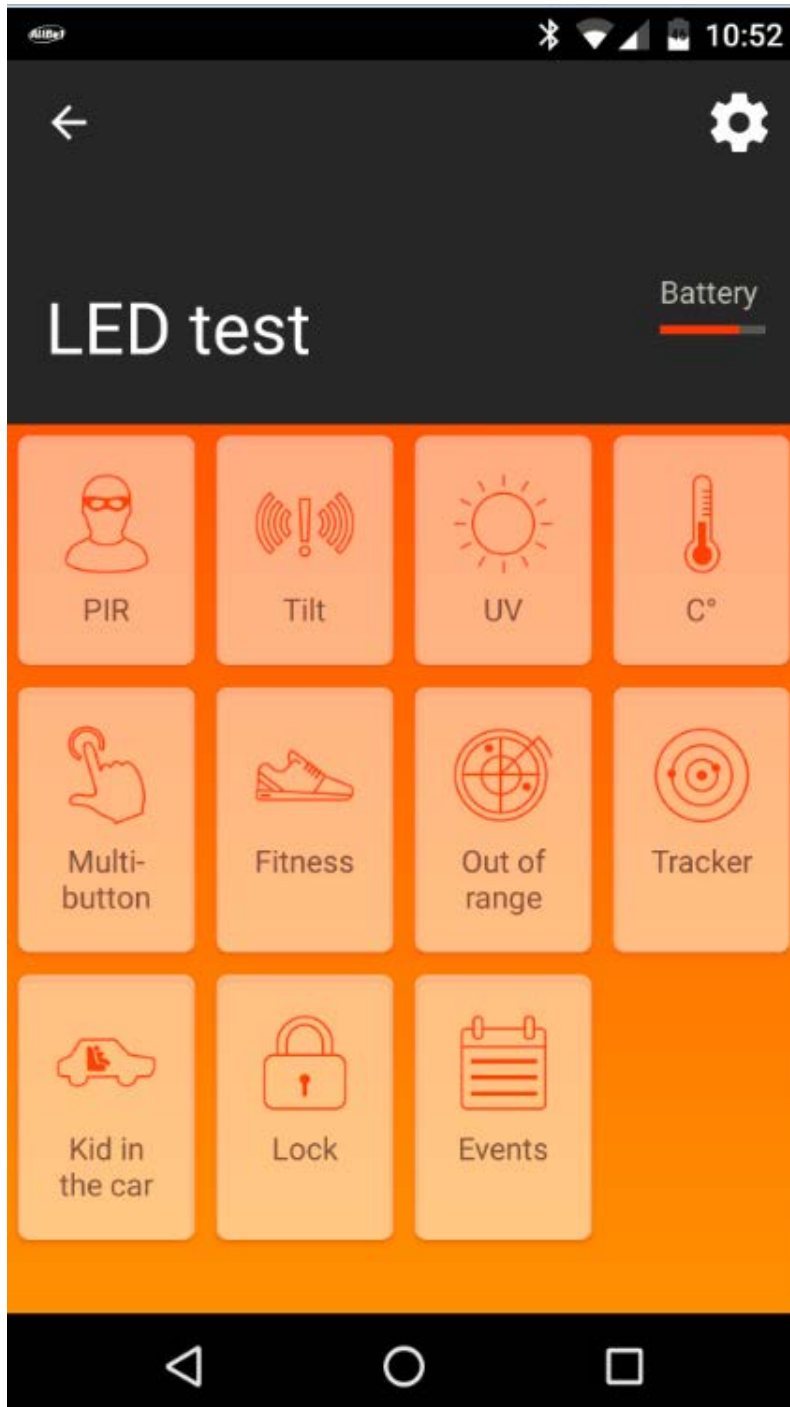


By pressing on the black button the app will search for AllBe1 devices and show them.

In case that there are some AllBe1 devices you will see all of them.



After click on the AllBe1 device that you want to connect it you will see the following screen:



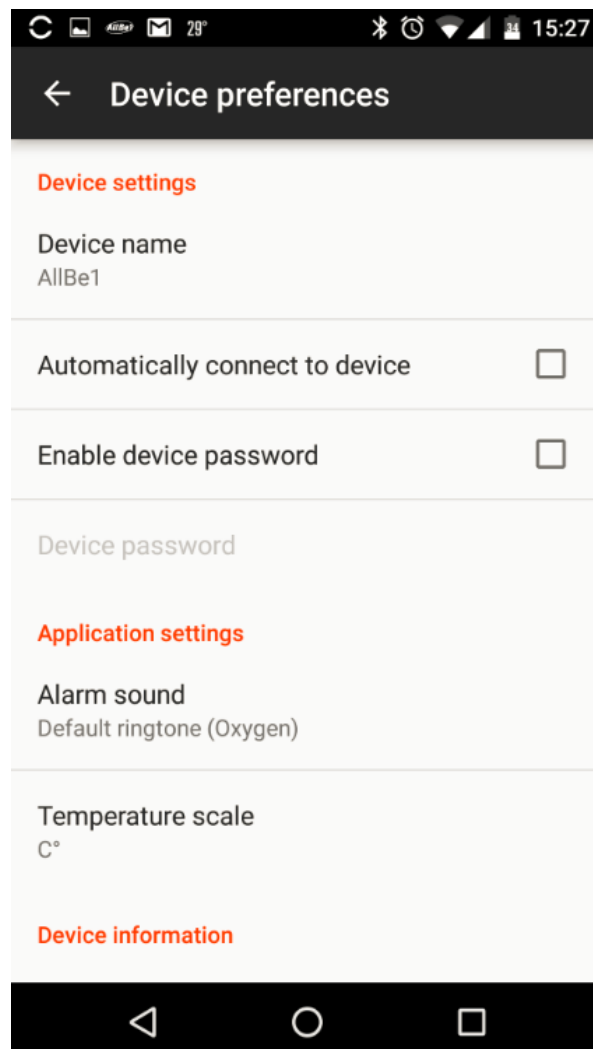
Features selecting icons grid screen



Now you can choose the feature you want, note that some features can work on the same time and some not, for example there is no sense that the step counting will work on the same time with the human detection feature, and on this cases the app will show a pop up message.

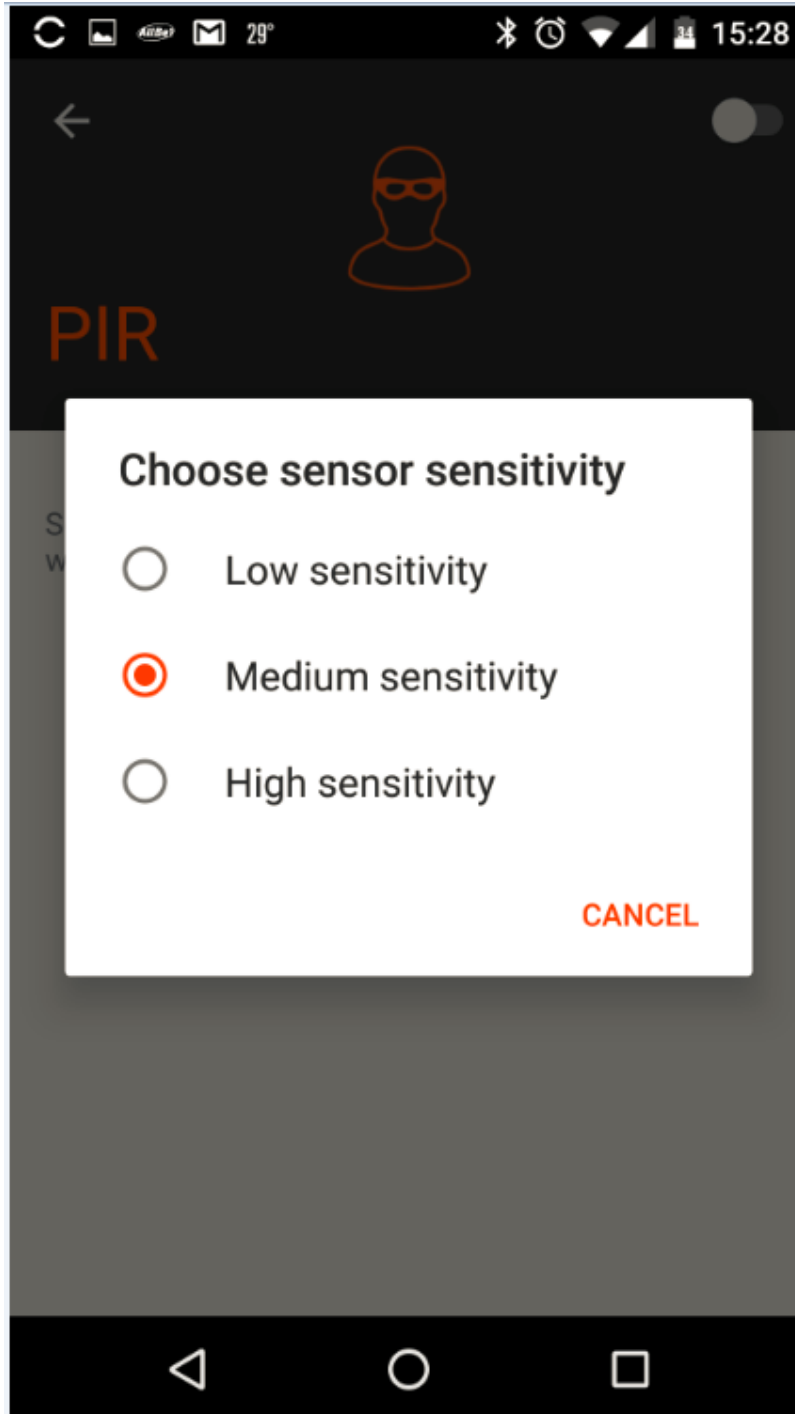
5. App General Settings:

By press the tooth wheel on the top left of the Icons grid app screen you can set some generals options like choosing the alarm ringtone, choose to protect the AllBe1 with password, automatic, giving a name for a device, Choosing the temperature units, .Automatic connection option and some general information about the AllBe1 like MAC address

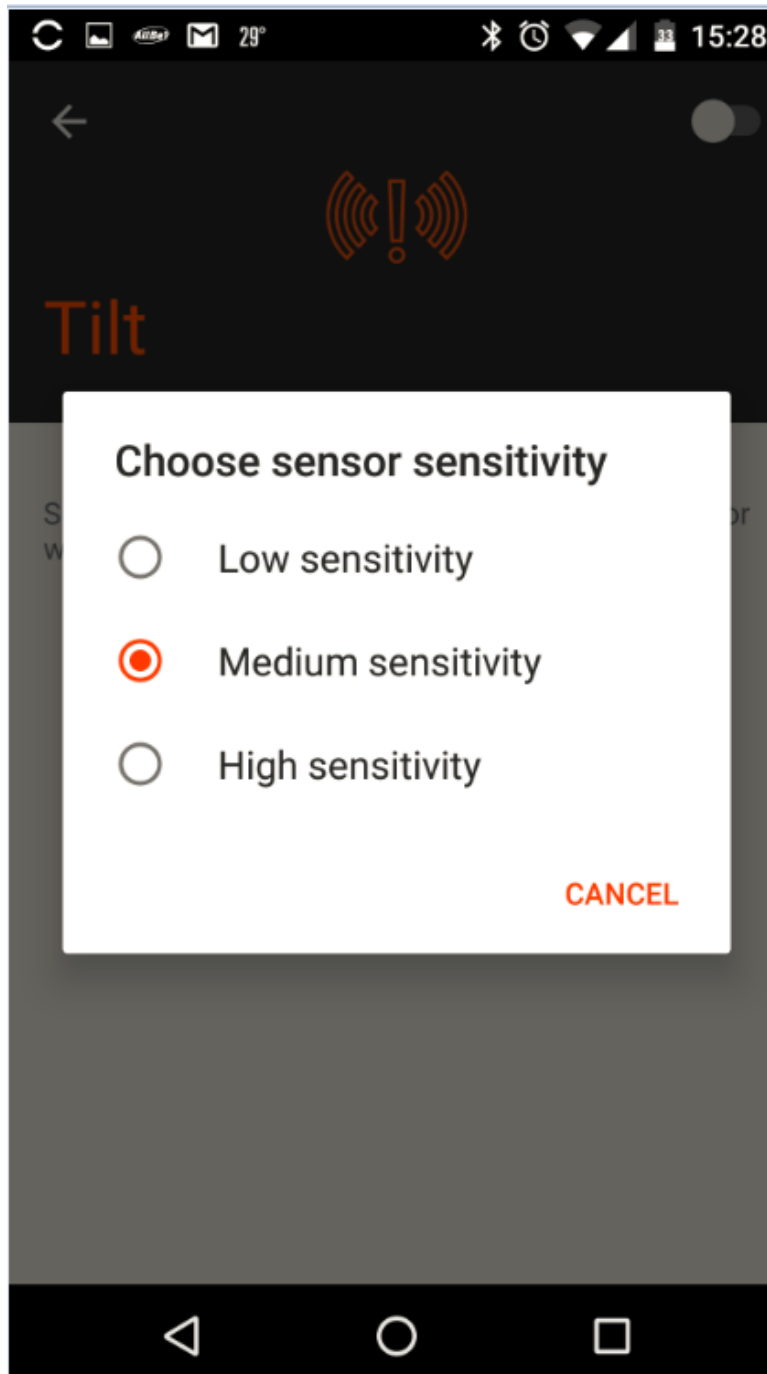


General app settings screen.

- By long press on feature icon you can enable or disable it, by short press you will enter to feature sub menu:



For example - Human detection sub menu



"Tilt" sensor sub menu



Once you turn on a feature –feature background will lit on.

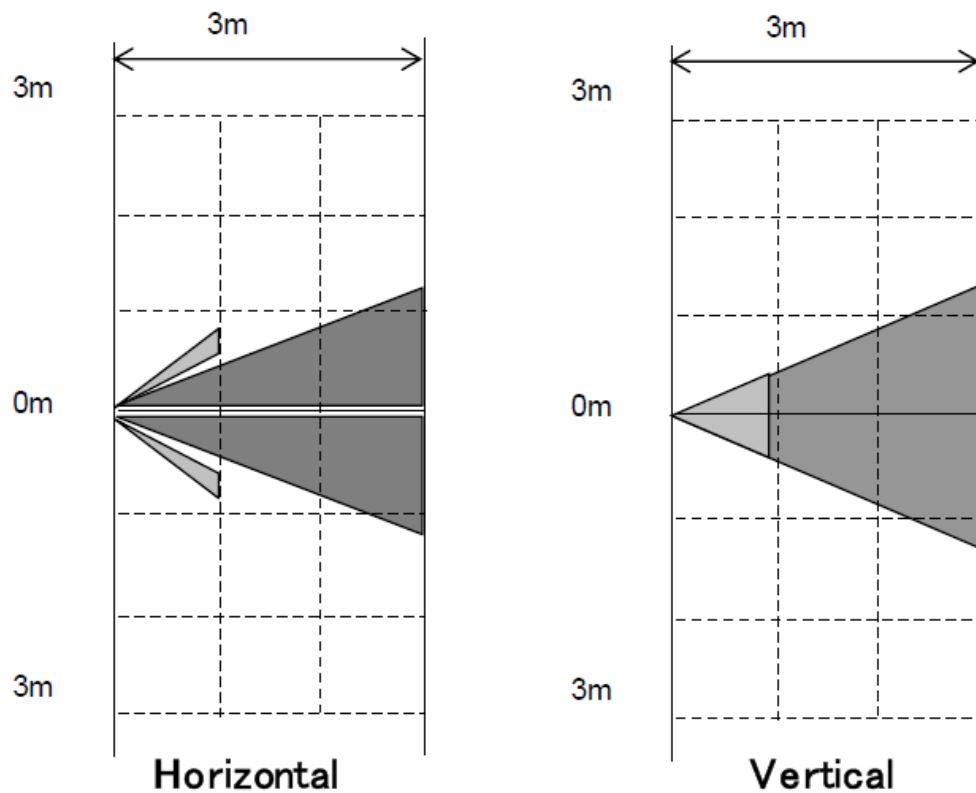
Example: PIR (Human detection) feature on

6. Human detection feature

The AllBe1 include PIR (passive infra-red) sensor,

This sensor can sense the Infra-Red radiation that cause by human presence,

The PIR sensor is covered by Fresnel lens in order to collect the IR radiation and improve the detection performance.



PIR sensor Fresnel lens detection pattern

In order to achieve the best performance with the PIR sensor, the AllBe1 should be mounted with the PIR sensor special bracket, see picture below:



AllBe1 PIR sensor special bracket for human detection

The Fresnel lens should be aimed to the desired detection area,

The AllBe1 with the bracket should be placed on a shelf or similar object on 1.5-1.8 meters height.

The target (human) should move 2 meters inside the detection pattern.

Set "high sensitivity" for desired detection range of 4 meters.

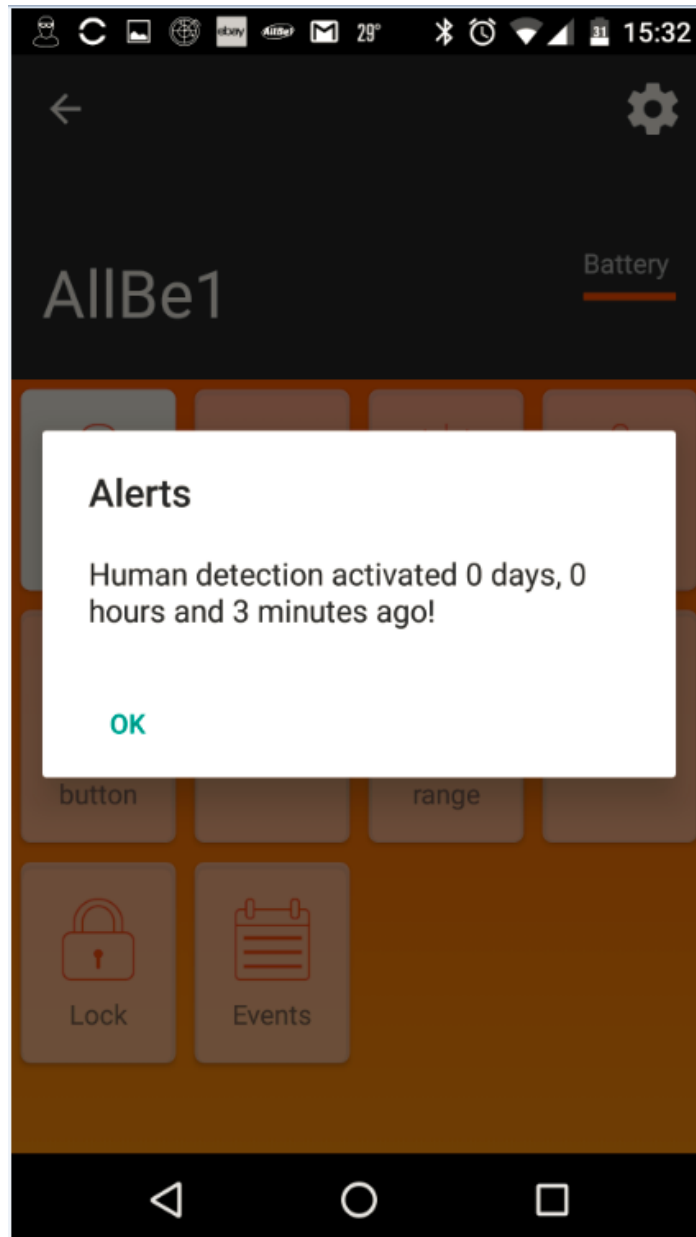
Set "Medium sensitivity" for desired detection range of 2~3 meters.

Set "Low sensitivity" for desired detection range of 1 meters or less.



7. Events logging:

If the PIR or TILT features are on, the Allbe1 will "stay awake" all the time even if the BT link will disconnect and log the events, once you will connect again to the AllBe1, the Events icon will be lite on and by press on it you will see the event and time stamp:





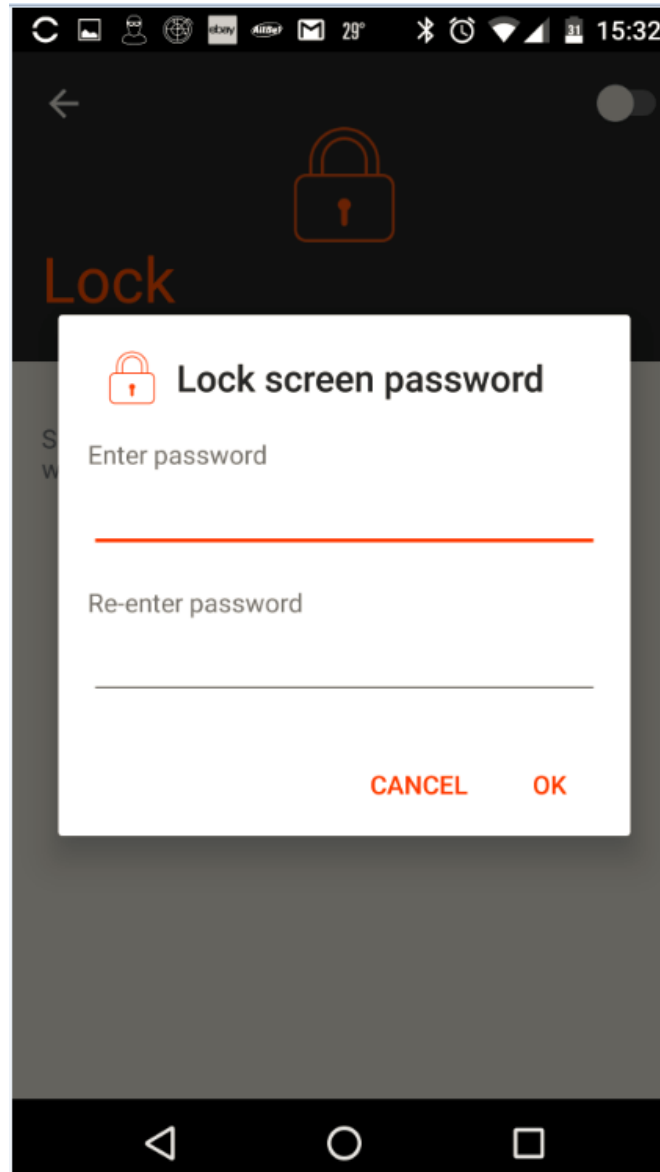
Event log example

8. Lock screen feature:

By pressing the LOCK feature Icon the app will ask you to add password and confirm it again.

This feature will lock the phone screen when the AllBe1 is not connected to the phone,

Caution: Be careful if you get lost the AllBe1 and forgot the password you will not be able to open your phone!!!



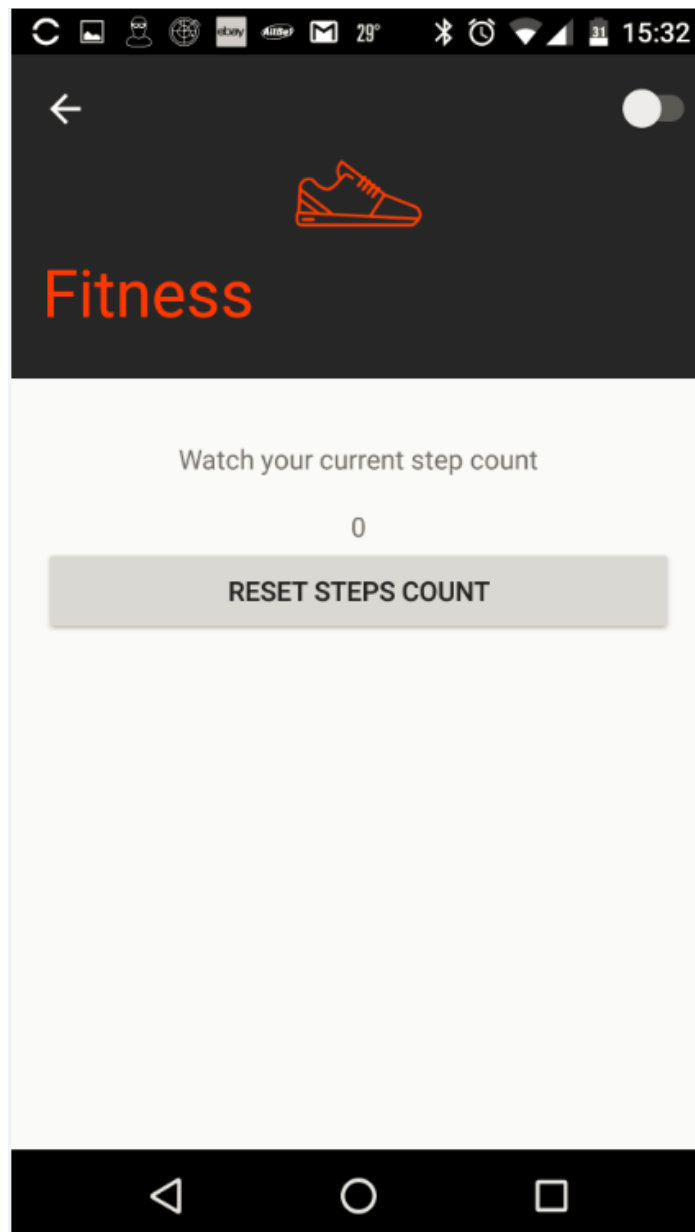


9. Step counting.

The AllBe1 has a step counting feature based on 3D accelerometer.

By enable this feature the AllBe1 will start counting your steps, you can reset the counting by pressing the reset icon on the step counting feature,

Note that you can disconnect the AllBe1 from the phone and he will continue to count your steps and on midnight the counting will reset automatically.



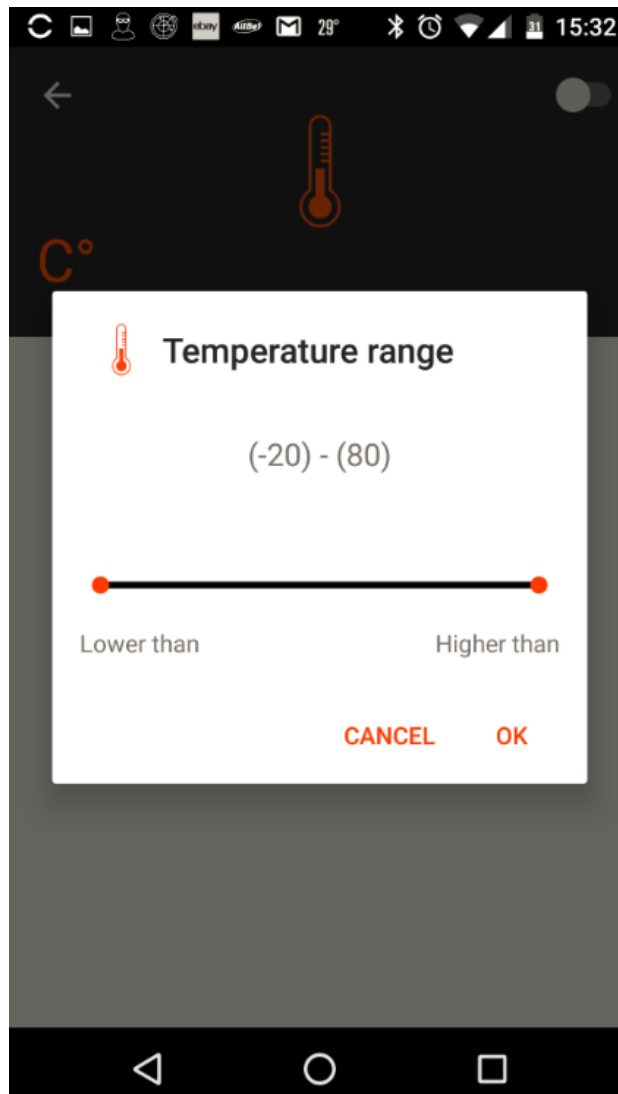


10. Temperature and UV feature:

By enable this features the AllB1 will show the current temperature /UV index (0.5c accuracy, measuring the temperature on board, not accurate during charging)

You can set a range for the normal desired temperature; beyond this range you will get an alarm.

Note – when the AllBe1 disconnected from the phone this features will not continue to work on background.



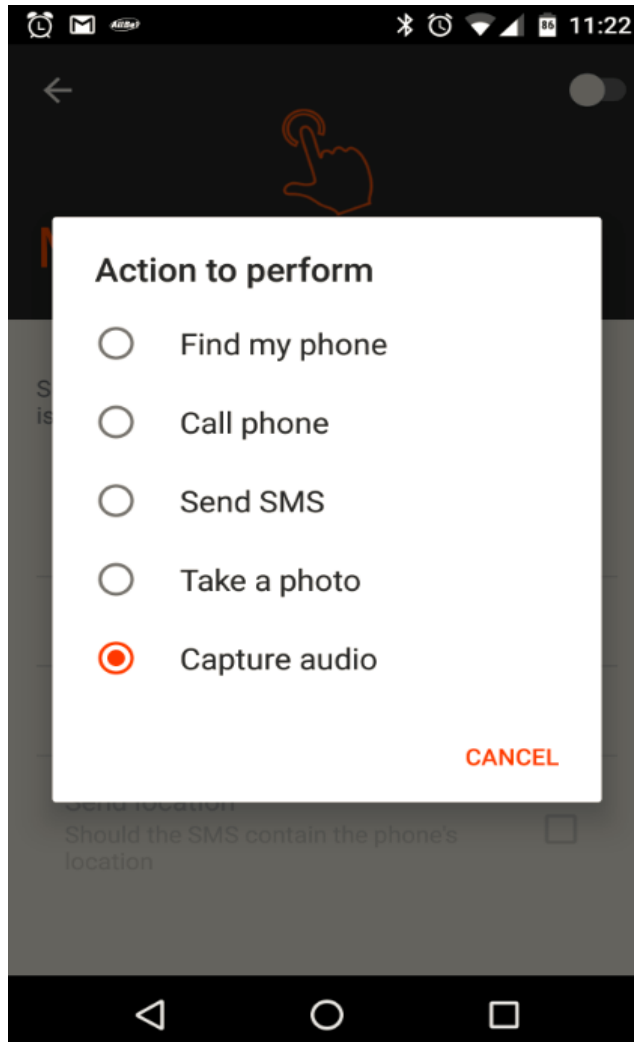


11. Multi button:

The AllBe1 have a multi-functional button on board,

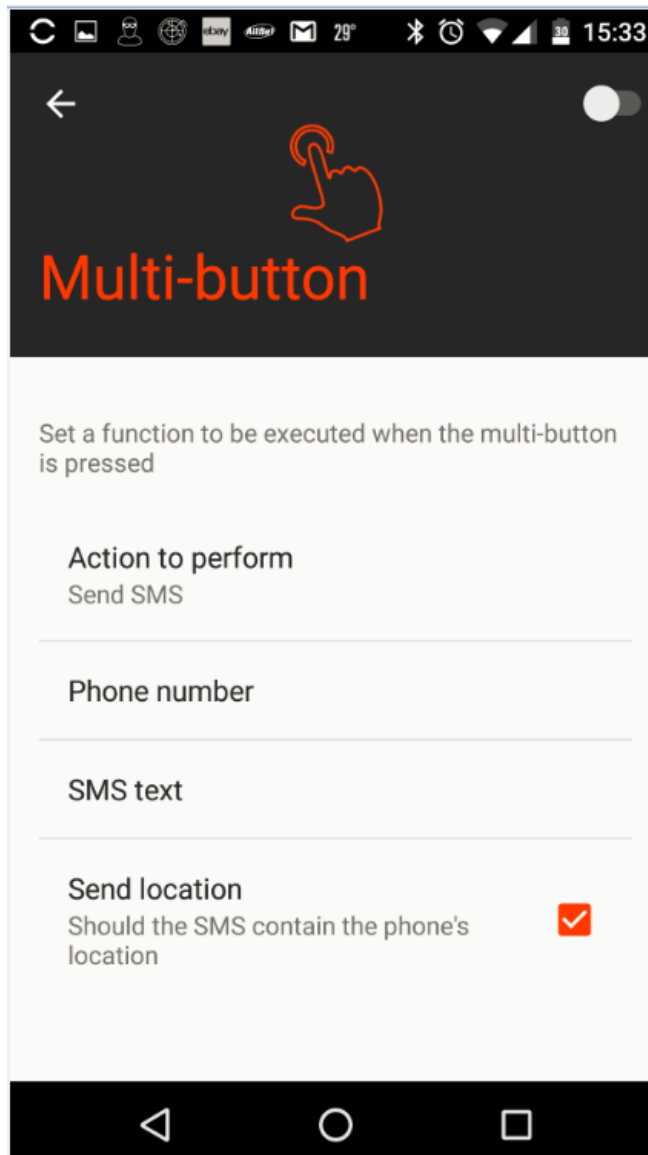
When you enter this feature you should also choose what a button push will do,

Find my phone alert, send SMS message with user define text and google maps location, call to emergency number, audio capturing or take a picture.



Note: the audio recording files will save on a folder called AllBe1 that you can find on your device Downloads folder.

If you click on a feature – a sub menu will open, for example:



Choosing SMS feature +sending google maps location



12. Out of range alarm

You can use the Allbe1 for "out of range detection" as well.

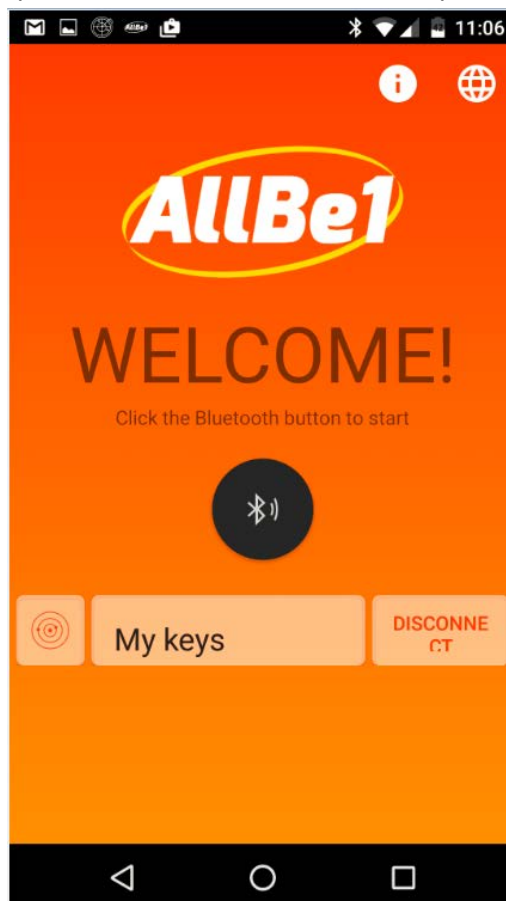
When you choose this feature the allbe1 will alert you once the AllBe1 device is away from the phone, you can choose from this feature sub menu long or short range when the long range is alert when the BT link between the AllBe1 and phone is disconnected.

13. Tracker

This feature will let the user to locate assets that connect to the AllBe1 like key chain for example.

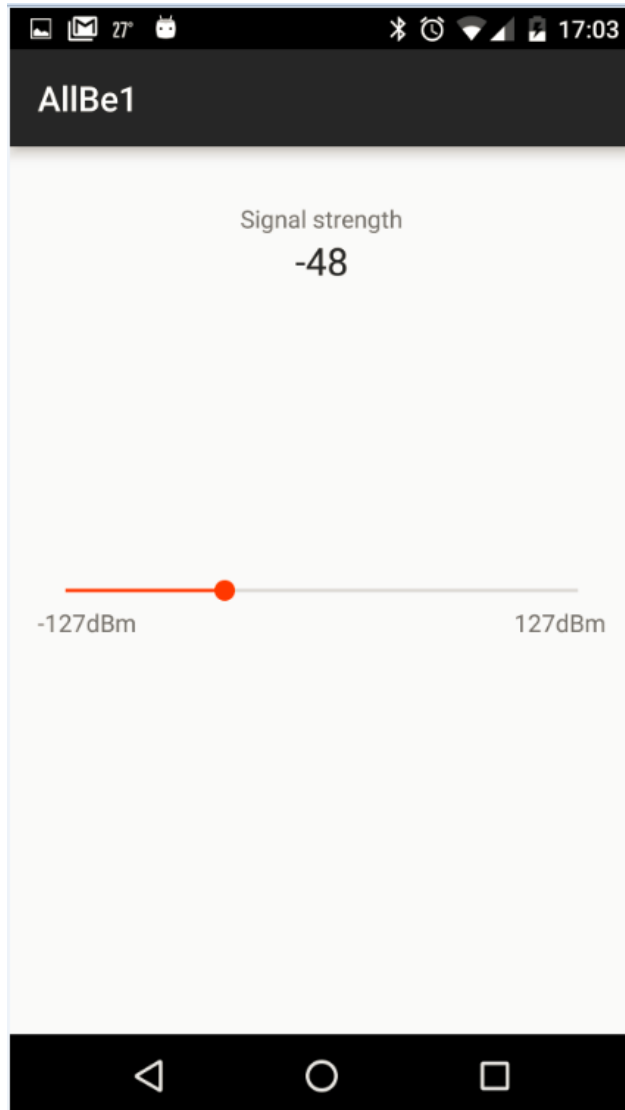
When you choose this feature the Allbe1 will disconnect from the phone and the BT status will change to advertising mode and you will be able tracking your AllBe1 for longer distances.

On the first app screen you will see near the AllBe1 list a tracker icon, by pushing this icon the app start to show you notification and sound relatively to the AllBe1 location.





Devices list with tracker enabled device



Tracker in action screen



14. Kid in the car reminder

Using this feature will help you to don't forget your kid in the car,

Once you get away few meters from the AllBe1 device you will get an alarm,

Note – you will get this alarm too if the BT link will disconnect.





15. Trouble shooting

15.1 *Connection problems*

Most of the first connection problems occurred due to some issues with the BT API on the Android device, try to off the BT and turn it on again, if it doesn't help try to shut down the Android device and turn it on again,

15.2 *Shutting down the AllBe1 device*

Long continues press of 5~8 seconds on the AllBe1 device will shut it down automatically.

15.3 *The AllBe1 doesn't turning on*

Try to connect it to U USB charger port and try again after few minutes.

For any other problems please contact us via our website: www.allbe1.com



16. What in the package

v



Key chain



Belt clip



Human detection stand



AllBe1

17. Electrical characteristics:

Supply voltage: 3 ~4.v – Supplied by on board DC to DC converter.

Supply by USB connector: 4.5~5.5v (According to USB standard).

Sleep current: 30ua

Maximum current (TX) 35ma

BLE transmit power: 12.5dbm maximum.

BLE frequency: 3 Advertising Channels, 37 Data Channels, FN = 2402 + 2n MHz,

Data rate: 260 kbps maximum

Modulation: GFSK.

Weight: 10 grams



18. Certification:

FCC ID: 2AJWE-ALLBE

Canada: IC: 22019-ALLBE, HVIN: AB001

FCC Compliance Statement

This device 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 residential installations. 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 and television reception.

However, there is no guarantee that interference will not occur in a particular installation. If this device does cause such interference, which can be verified by turning the device off and on, the user is encouraged to eliminate the interference by one or more of the following measures:

- Re-orient or re-locate the receiving antenna.
- Increase the distance between the device and the receiver.
- Connect the device to an outlet on a circuit different from the one that supplies power to the receiver.
- Consult the dealer or an experienced radio/TV technician.

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.

This device complies with FCC Rules Part 15: Operation is subject to two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference that may be received or that may cause undesired operation.

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference that may be received or that may cause undesired operation.

Le present appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

A distance of at least 0.2 cm. between the equipment and all persons should be maintained during the operation of the equipment.



Label:

