

LIERDA SCIENCE & TECHNOLOGY GTOUP CO.,LTD

Operation Manual of Lierda BLE Anti-Lost Device

LSD4BT-E74PME00

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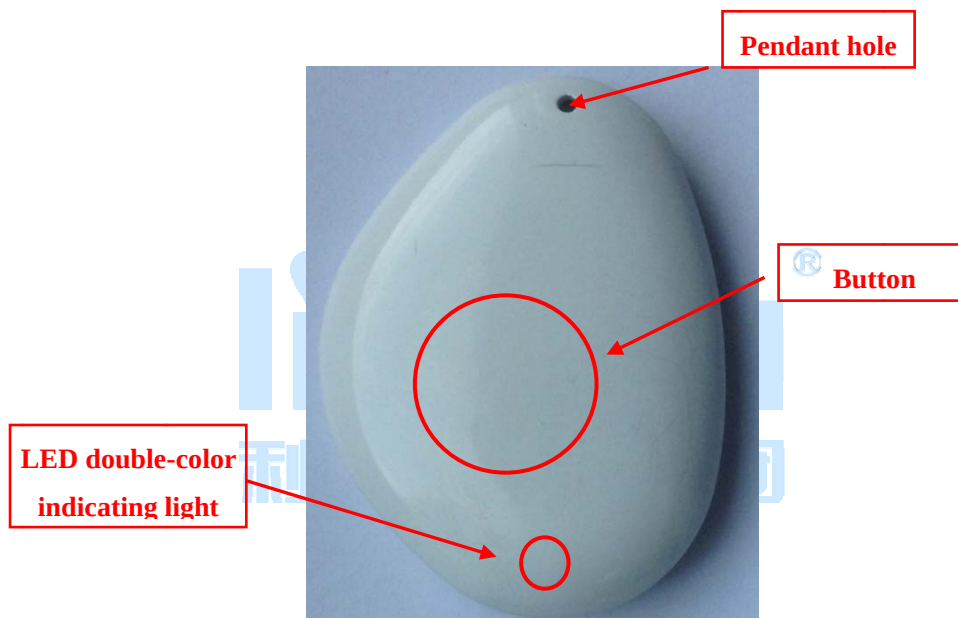
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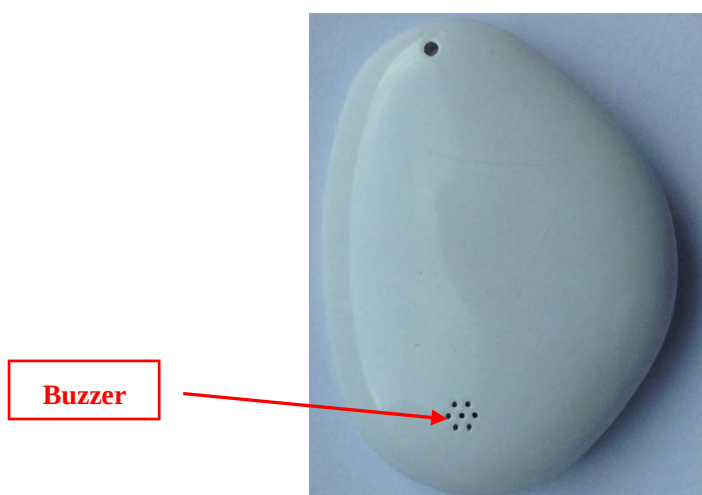
1. Characteristics

This is a anti lost device designed based on low power consumption blue-tooth 4.0. It is with anti-lost and seeking function for the valuables, pet, wallet and other personal effects. After pairing with the mobile phone and Pad, it can easily realizes the bidirectional searching and anti lost, for example, seeking mobile phone by this device or seeking the device by mobile phone or Pad. If you put the device together with pets, wallet, keys, you can search these things by mobile phone or Pad. Besides, you can use Device as wireless shutter which is convenient.

2. Hardware layout and interface description



Front View

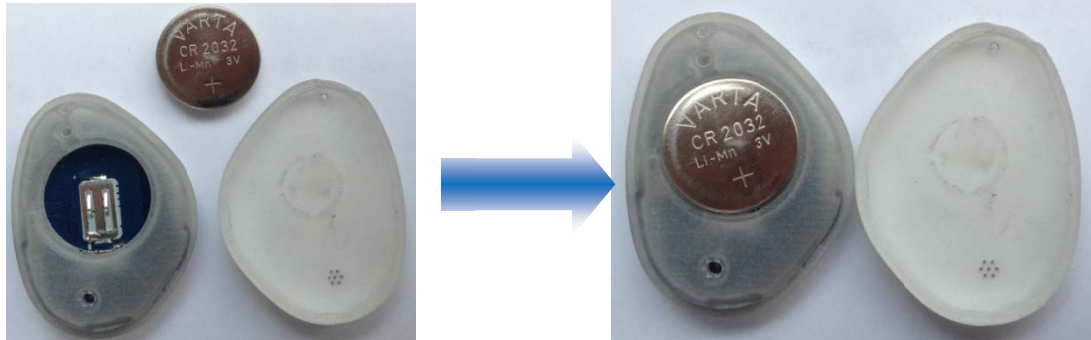


BackView

3. Basic operation

3.1 Product disassembly and battery installation

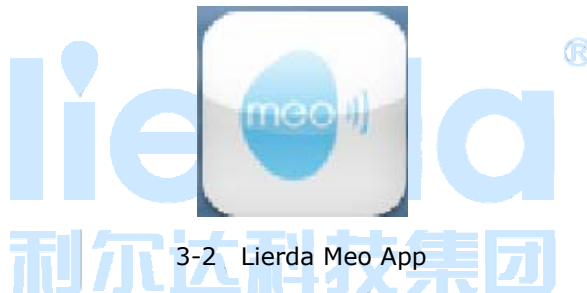
This product use changeable CR2032 button battery, the shell adopts Snap-fit form, easily disassembly. Refer to the following picture.



3-1 disassembly of the shell and battery

3.2 App installation of iOS system

Searching "Lierda Meo" in iOS App Store or Android Play store and downloading to install, the App icon is as the following.

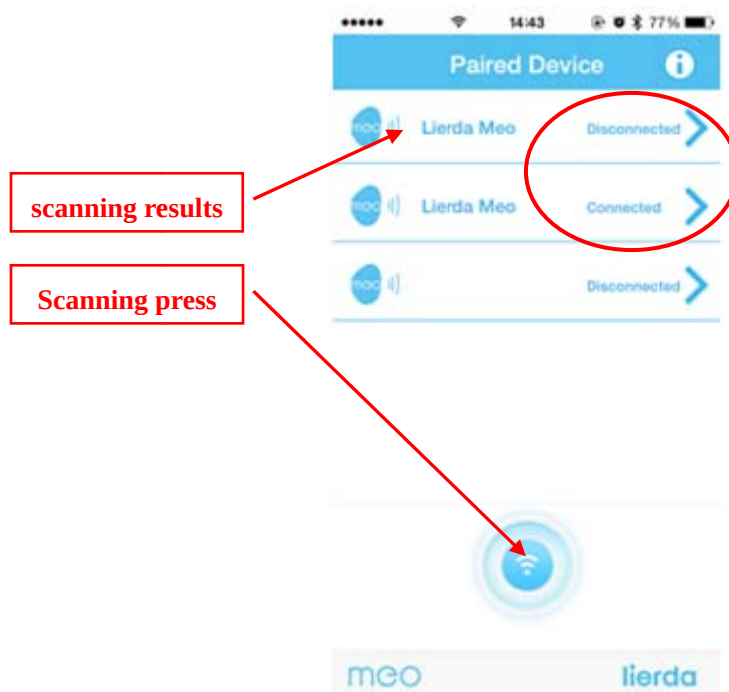


3-2 Lierda Meo App

3.3 Connection establishment

3.3.2 Host App connect to Device

Single click Device and it will enter fast broadcast status and keep 30 seconds. Broadcasting equipment information enables device to be discovered by the host, in which state the red indicating light of Device will twinkle continuously that clicking scanning button of App on iPhone and iPad can find this device. The host App will automatically establish the connection.



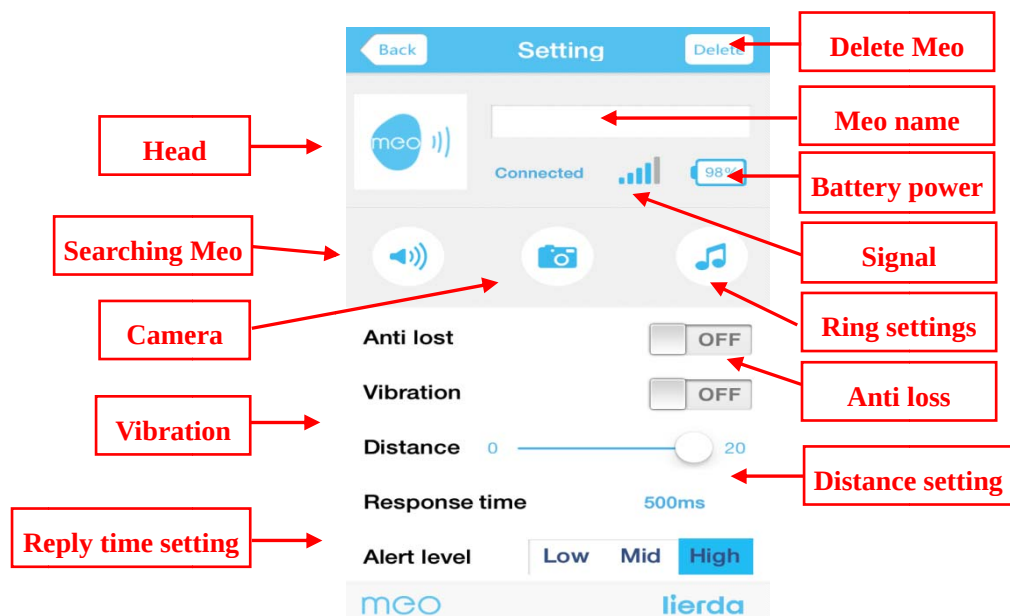
3-5 connection establishment

If the host end does not connect to device within 30 seconds, the device will automatically reduce broadcasting rate to slow broadcasting status and the red indicating light will be off, which will greatly lower consumption, moreover, the host end still can scan for device and establish the connection. One mobile equipment can connect no more than 8 devices simultaneously.

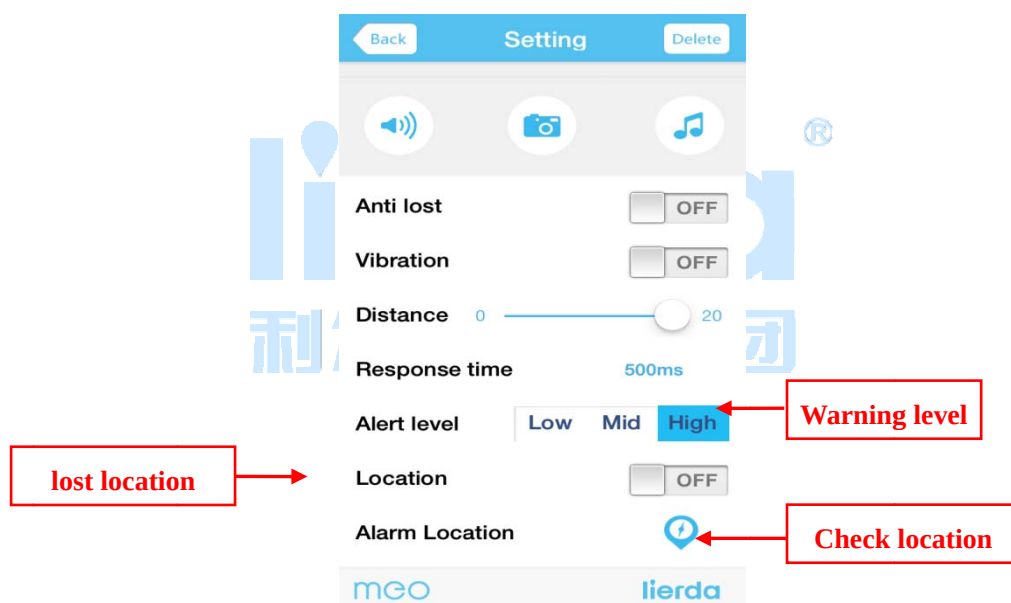
If you want to cut off the connection, you can click the connection button on the host App that cut off the connection between the host and the device. Thus it will enter fast broadcast status again, the red indicating light of it will twinkle continuously for 30 seconds. If the connection is not established within 30 seconds, the device will enter the slow broadcasting again and cut off the red LED indicating light.

3.4 Meo configuration

Click any one device, enter the setup interface of the APP. Refer to the following picture.



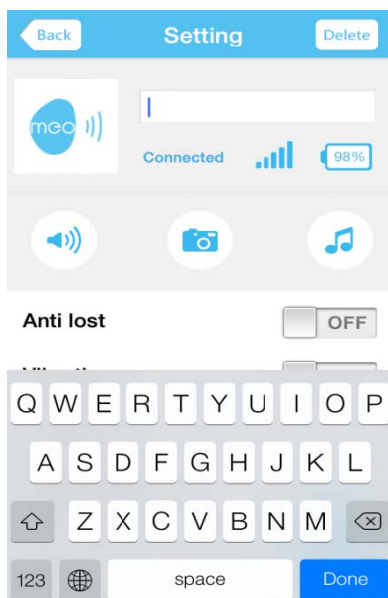
3-6 Meo setup interface



3-7 Meo setup interface

3.4.1 Name settings of Device

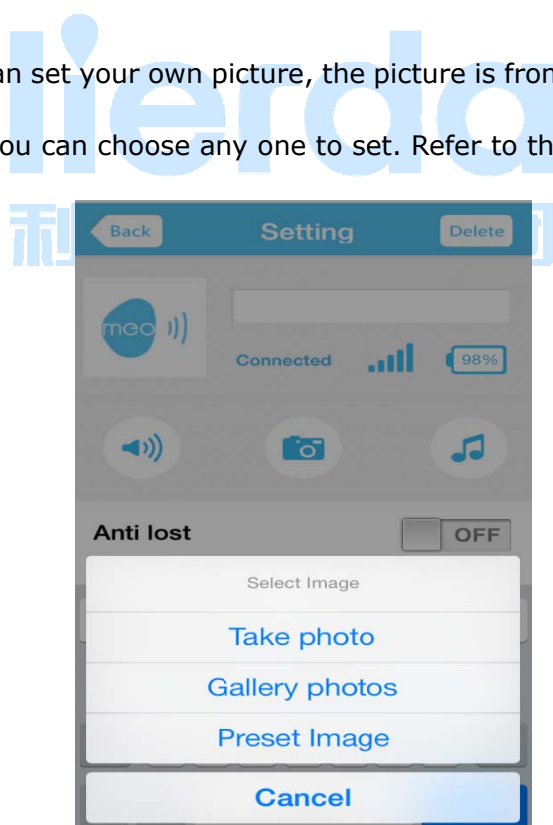
Click on name input field that can set the name for the difference. For example, if the the device is taken with your dog, you can set the name " My Dog," if with the keys, you can name "My Key" and the like.



3-8 Name settings

3.4.2 Picture settings

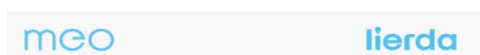
Click the head, you can set your own picture, the picture is from your camera album and the built-in pictures of App, you can choose any one to set. Refer to the following.



3.4.3 ringtone settings

Click the ring setting, you can set the warning ringtone, it can only be chosen from the built-in

rings of App, refer to the following.



3.4.4 Anti-lost parameter settings

- Anti-lost switch and anti-lost distance

Anti-lost switch setting is for anti-loss detection, anti-loss distance is to set the safe distance between the Device and the host end. Anti-lost distance can be set by sliding bar, the function of anti-loss takes effects when the anti-lost switch is open. The anti-lost distance can be set from 0-20m. Left to right is 0-20m.



3-11 sliding bar of anti-loss distance setting

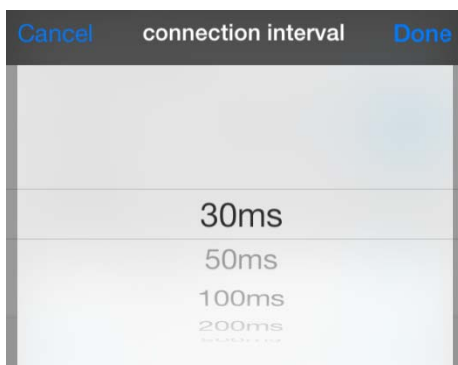
Note: the anti-lost distance is relative to the environment of the wireless communication, if strong interference, shorter distance than the value set.

- Vibration switch

If any warning information, vibration indication will appear on the iPhone. Slide the switch to the right to start the vibration function.

- Response time

Response time is used to set connecting interval parameters between the device and the host end, the smaller this parameter, the faster the response, but the more consumption of battery.



- Warning level settings

Warning level is used when the device is lost or connection loss and the host end seeking.

Three levels as follows:

3-1 warning level

Warning levels	Indication		Operation of canceling indication
	LED	Buzzer	
High	Alternately twinkle red and blue LED 10 times	high-frequency sound	Click button to cancel the warning
Mid	No indication	low-frequency sound	
Low	No indication	No indication	

Alert level

Low

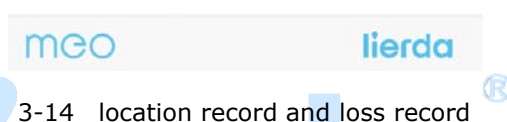
Mid

High

3-13 Warning level settings

- Loss location

Lost location takes effects only when anti-loss switch and loss location are open. Once loss happened, App will detect and record the current location, and search in the lost record.



- Active location

Active location is used to locate the current location of the host . For example, record the current location of your car, and you can visit freely that no worry about where your car parked; and if you want to record every place that you visit, you also can use this function.

Start active location when clicking the button three times in succession and inquiry in the location record.

3.5 The host searching for device and device for the host

Click "searching for Device" on the host App to start the seeking operation, the device will ring relative LED indication and buzzer warning according to warning levels. You can click device to cancel the warning.

If no warning from device, click the button, you can start to search for the host, the host will ring the sound and vibration warning according to the ring and the vibration you choose. Double click device can cancel the alarming of the host.

3.6 Wireless shutter

Click the camera button to enter the camera interface. Under this state, it can be used as the wireless shutter, click device can take once shutter picture.

3.7 Reset Meo

Click device button five times to reset the device.

4. Specifications and parameters

1. Power supply: CR2032 battery
2. Communication standard: bluetooth 4.0 (BLE)
3. Communication distance: 0-20m, set alarming distance through the host (mobile phone, Pad) App.
4. Several times click button(double, treble, five times) interval time: $\leq 0.5s$
5. Response time: 0.03-2.0s, set through the host (mobile phone, Pad) App.
6. Sleeping current: $\leq 3\mu A$
7. Peak current: 60mA(instant)
7. Average current of fast broadcasting: 500 μA
8. Average current of slow broadcasting: 30 μA
9. Average current of connection status: 50 μA (@connection interval = 500mS, no warning operation)
10. One host can connect to at most 8 Device.
11. Support host ends: iPhone4S, iPhone5, New iPad, iPad Mini, iPad4, iphone5s, 5cand so on.

5. Cautions for use

1. The faster the response time, the more current consumption, the shorter battery life.
2. Response time and anti-lost distance is the ideal value. When wireless communication environment become complicated that with strong interference, response time will be lengthened, anti-loss distance will be a little different. If you put device in the box or handbag and if your mobile phone is with protection shell, it will also influence the communication distance. Therefore,

users should set the anti-loss distance according to the practical environment.

3. If the host is in camera state, any loss or off connection warning happened or device double click for searching the host, the first click (shutter) of device means cancel warning operation, click after is the shutter again.

4. When long off connection, please close device broadcasting: click device button, no twinkling of LED.

6. To users

1. Thanks for using products of Lierda Science & Technology Group Co., Ltd. Please read this warning before using the products; if you have used the product represents you have read and accepted this warning.

2. Lierda is reserved for the final interpretation and right of revision of all the information equipped to the tool, which is subject to change without prior notice.

FCC Caution :

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user' s authority to operate the equipment.

FCC Radiation Exposure Statement

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

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