RFID Asset tag

User manual

Dear customer:

Hello!

Thanks for choosing Enjoyor technology products and services.   To ensure your satisfied use, please read the user manual carefully before using this product, And please keep the manual properly for future reference.

Whenever you need our service and support, Please be freely to let us know.

Before using

- ➢ **This product Must be used by medical personnel who had received training by the manufacturer.**
- ➢ **If there are any problems when you using the product, please contact with our technician.**
- ➢ **Our company could provide the material for the devices which could be repaired.**

Basic Information

Registrant / Manufacturer/ After-sales service unit,

Zhejiang Zhier Informatin Technology Co., Ltd.

Address,

2F, Building 4, No. 2 West Park Road 8, West Lake Science and Technology Park, Sandun Town, Xihu District, Hangzhou

Production address,

2F, Building 4, No. 2 West Park Road 8, West Lake Science and Technology Park, Sandun Town, Xihu District, Hangzhou

Telephone/ Fax,

(86)0571-8993 0386

The company has all the right to interpret this manual

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1.Application

Application, It is used for asset location management system, which is convenient for the location and search and statistics of equipment on the floor, and improves the effective utilization rate of equipment. The asset tag has a unique device ID number, When the tag passes through the locator, the tag senses the area number of the locator and sends a positioning number signal to the server. The server software draws the corresponding trajectory map according to the positioning number. When the asset tag is removed illegally, an alarm message is automatically generated and sent to the server. An alarm message will also be generated when reaching the forbidden area.

2. Product composition

The asset tag is mainly composed of a plastic shell, a circuit board, a touch button, and a lithium battery. As shown in Figure 1 below.
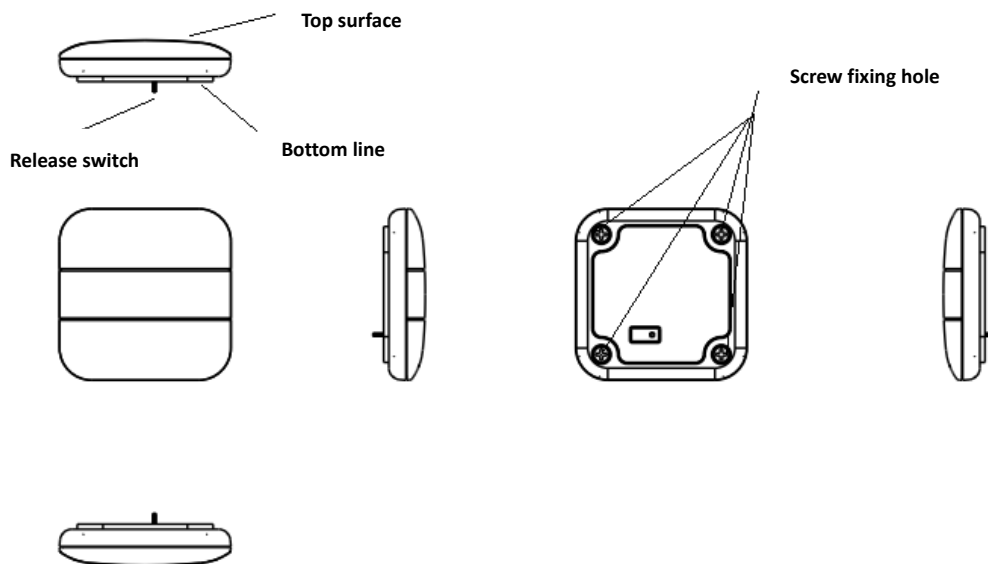Auxiliary material: 3M double-sided tape.

Figure 1， Appearance structure diagram of asset tag

3. Specifications

1. Frequency: Support 433MHz, 125KHz reception.

2. Working voltage: 3VDC.

3. Working temperature and humidity: 5 ℃ -40 ℃, 0-90% RH.

4. Atmospheric pressure: 860hPa-1060hPa

5. Size: length * width * thickness = 40mm * 40mm * 8mm

6. Equipment battery capacity: 3.2VDC, 200mAh

4. Installation

This product is bound to the equipment that needs to be tracked. The bottom of the label can be placed with our 3M back adhesive. According to the control space of the device, it can be placed in the empty space of it. At this time, the binding information will be uploaded, and the software will be bound to the device according to the uniqueness of the ID of the asset tag, and the online status of the device can be checked through the software later. The device will automatically upload positioning information to the server in the area where the locator is deployed.

The asset tag has a fixed heartbeat signal sent. The heartbeat signal is received by the reader and then transmitted to the service system software. It can detect whether the asset tag is online, that is, whether the device is in this area.

1. Alarm function in the forbidden area, when the device bound with the asset tag is illegally transferred to the forbidden area, the tag will send an alarm message, and the software will also have an alarm prompt.

2. Illegal dismantling alarm function, when the asset tag is deliberately destroyed and dismantled, the tag will send a dismantling alarm signal, and the system software will give an alarm message and a prompt voice.

3. Positioning function, the asset tag automatically sends a positioning signal to the server according to the locator, and the server draws a trajectory map according to the positioning signal.

5. Precautions

1. When installing and using, please notice that the label cannot be placed inside the metal of the device, and it should be placed in a metal-free space, which will not affect the operation of the device.

2. This product is with a built-in battery. If it is damaged and unavailable, do not discard it freely. Please placed them together and contact with us.

3. This product is not waterproof, so pay attention not to place it nearby the water area.

4. When disassembling and replacing the asset tag, be careful not to dismantle it forced. You can heat the equipment, such as use a hot air blower, and heat the 3M glue to easily remove the tag.

6. Maintenance

1. This product is with a button lithium battery, and the label needs to be replaced in time after the battery is used up.

2. The battery power status needs to be checked through the software, and the power information of the label needs to be checked regularly to prepare for replacement in advance.

7. Transportation

The packaged products can be transported by ordinary transportation ways. The ambient temperature during transportation should be within the range of -10 ℃ -55 ℃, the relative humidity need to be less than 95%, and strong shock, vibration, extrusion and moisture should be prevented during transportation.

8.Storage

1. Avoid water splash, rain and direct sunlight;

2. Dry, well-ventilated room without corrosive substances. The required ambient temperature is -10 ℃ -55 ℃, and the relative humidity is ≤95%.

4. Avoid strong electric or magnetic fields;

5. There is no strong vibration and impact in the storage place.

6. The packing box need to be longer than 10cm from the ground and 50cm from the wall;

9. Basic Troubleshooting

Table 1, Troubleshooting list

SN	Problem	Solution
1	No positioning signal send out from the Tag to the locator area.	1. Check the battery status of the asset tag in the software to see if there is power. 2. Whether the tag is added in the asset management system and the positioning function is enabled. 3. Check whether the Tag is well pasted with the device. 4. If there is no response after the previous test, Please return to our company for repair.
2	Illegal removal alarm triggered by mistake.	1. Check whether the tag has a low battery alarm. When the battery is in low status, the alarm may be triggered by mistake. At this situation, the tag should be replaced. 2. Check whether the tag is not firmly attached to the surface of the device, if necessary, replace the adhesive and attach it firmly. 3.If there is no response after the previous test, please return to our company for repair.

10. Packing list

Table 2, packing list

SN	Name	Quantity	Unit
1	Asset tag	10	Pc.
2	Instructions	1	Pc.

CE Caution:

Use the Product in the environment with the temperature Between -10℃ and 40℃; Otherwise, it may damage your product. Products can only be used below 2000m altitude

For the following equipment:

Product Name: RFID Asset Tag

Brand Name: --

Model No.: E-AL01

Zhejiang Zhier Information Technology Co., Ltd.

E-mail: qiliping@enjoyor.net

This product is intended for sale and application in a business environment.

RED Article 10 2

-This product can be used across EU member states

RED Article 10 10

-The product is class 1 product, No restrictions

Frequency Range: 433.8MHz

RF Output Power: 5.717dBm(ERP)

Frequency Range: 125kHz(Receiver Only)

FCC Warning

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.

NOTE 1: This equipment 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 a residential installation. 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 communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

NOTE 2: Any 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.