

EH100606A01-J Social Distancing ID Card User Manual

1. Introduction.....	3
1.1 Product Introduction	3
1.2 Apperance.....	3
1.3 Dimension.....	4
1.4 Product List	4
1.5 Card Component.....	5
1.6 Specifications.....	7
2. Card Usage.....	9
2.1 Way to Wear	9
2.2 RFID Introduction.....	9
2.3 Charging Instruction	10
2.4 Interactive Instructions.....	11
3. FCC Statement	11

1. Introduction

1.1 Product Introduction

System is a set of ranging system based on Ultra-Wideband Technology, which has the characteristics of high precision, large capacity, strong multi-path resistance and low power consumption.

Cards worn on the person consistently monitor the distance to the surrounding cards. When the distance is less than the safe value, an alarm signal will be generated immediately. The sound and light alarm reminds to prevent the person from being too close and reduce the risk of virus spreading.

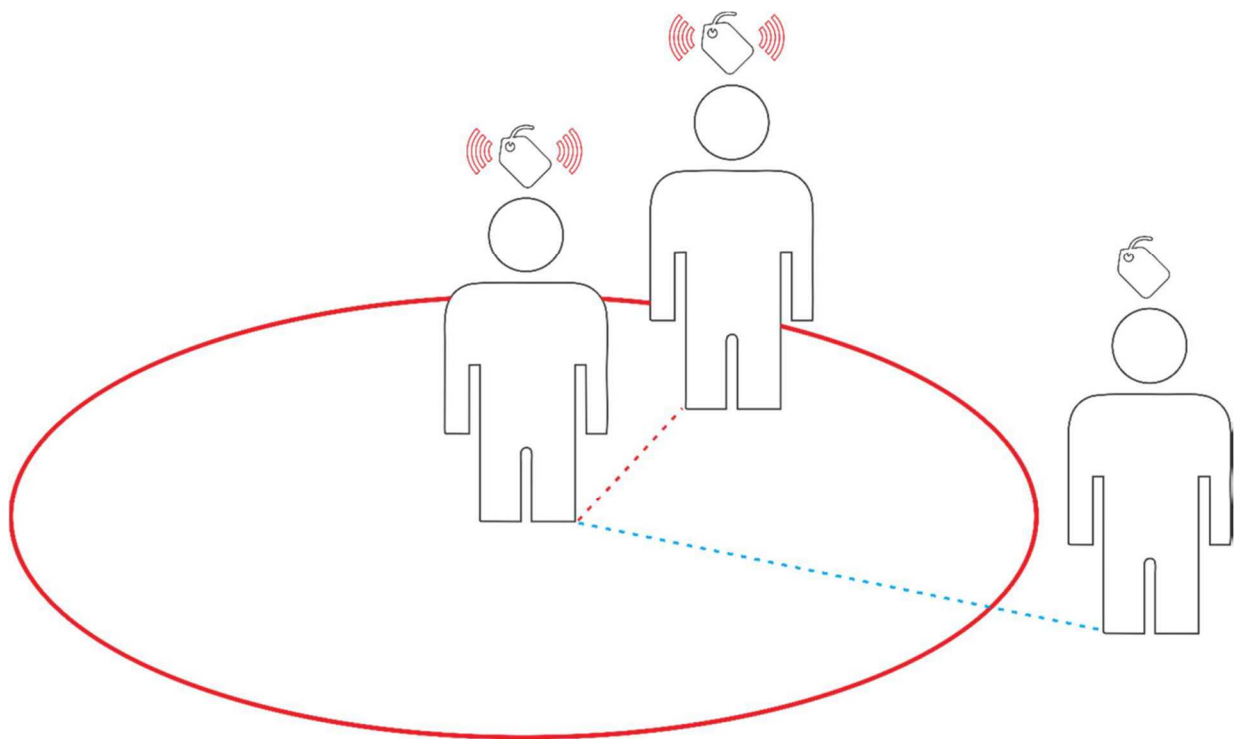
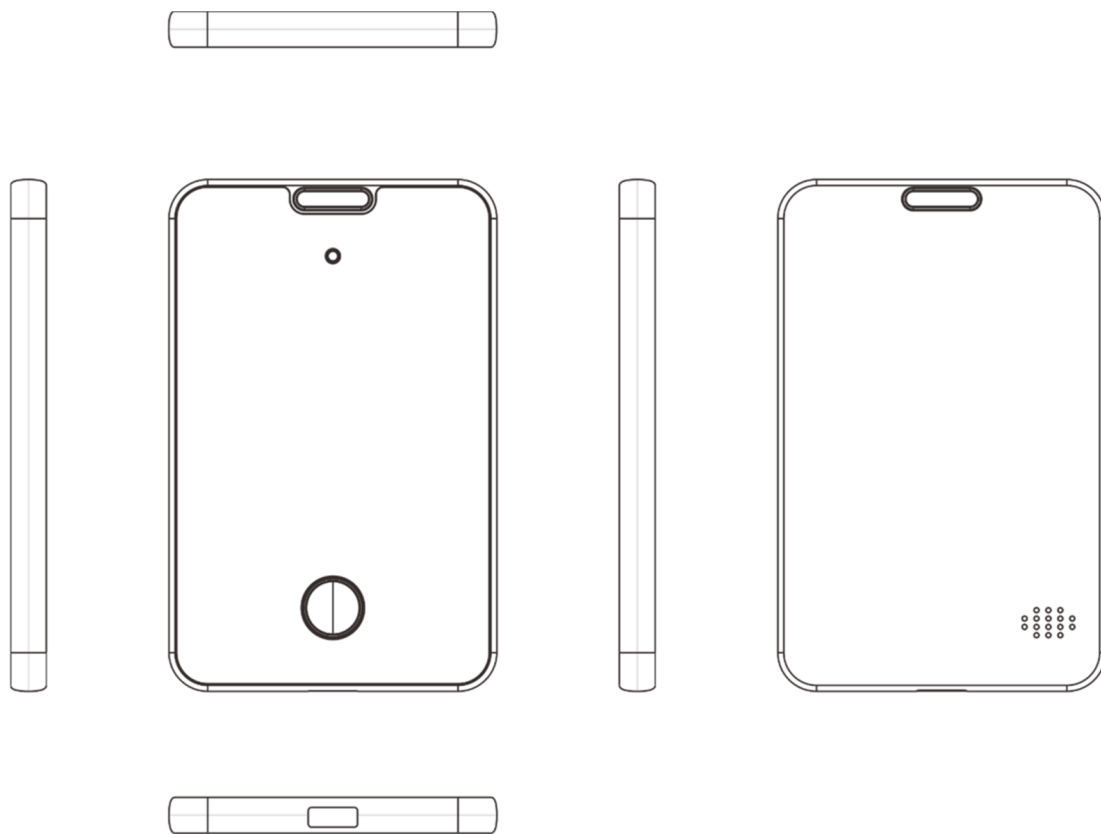


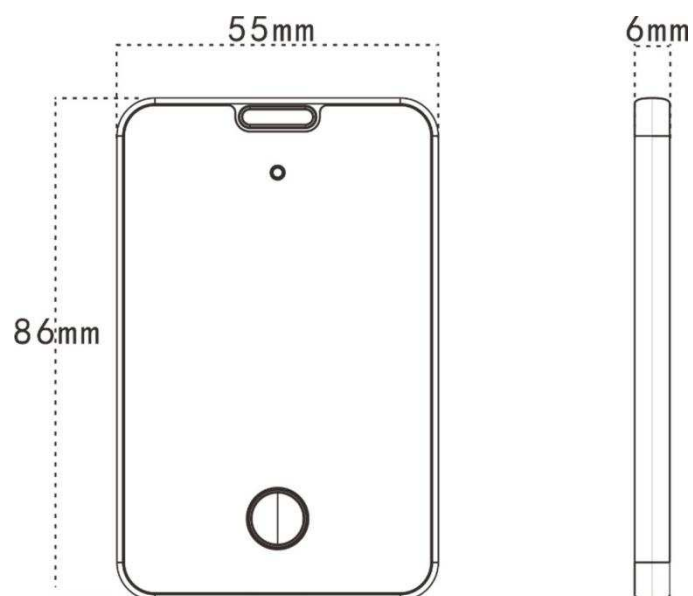
Figure 1-1 Schematic diagram of application

1.2 Apperance

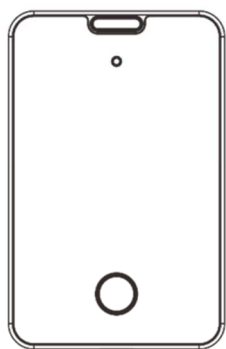


Six View

1.3 Dimension



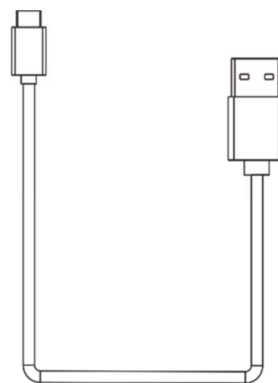
1.4 Product List



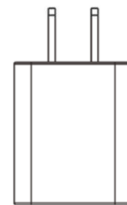
Card



Lanyard (Optional)



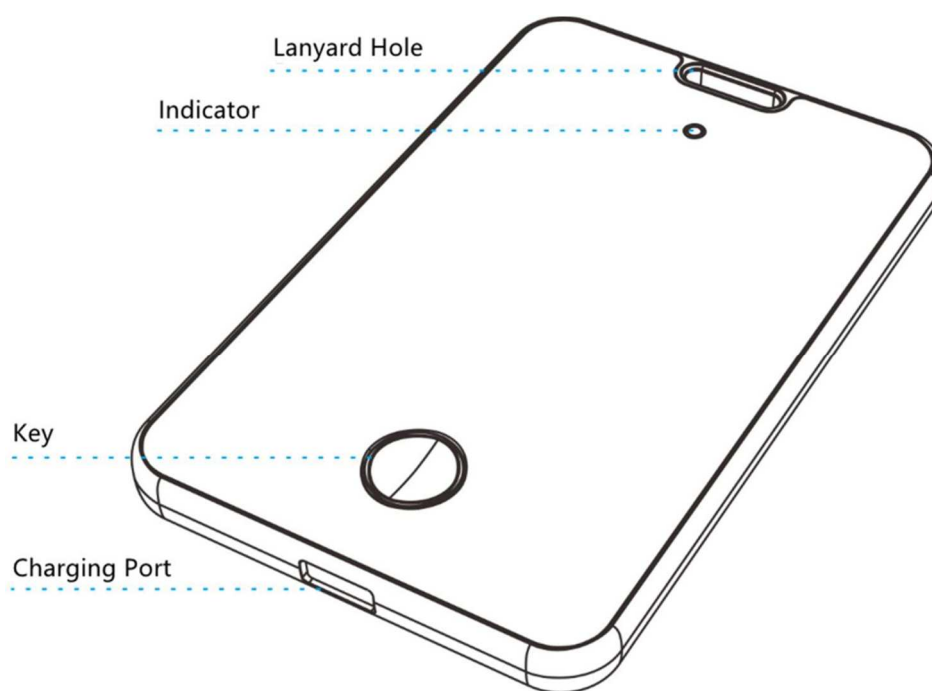
Charging Cable

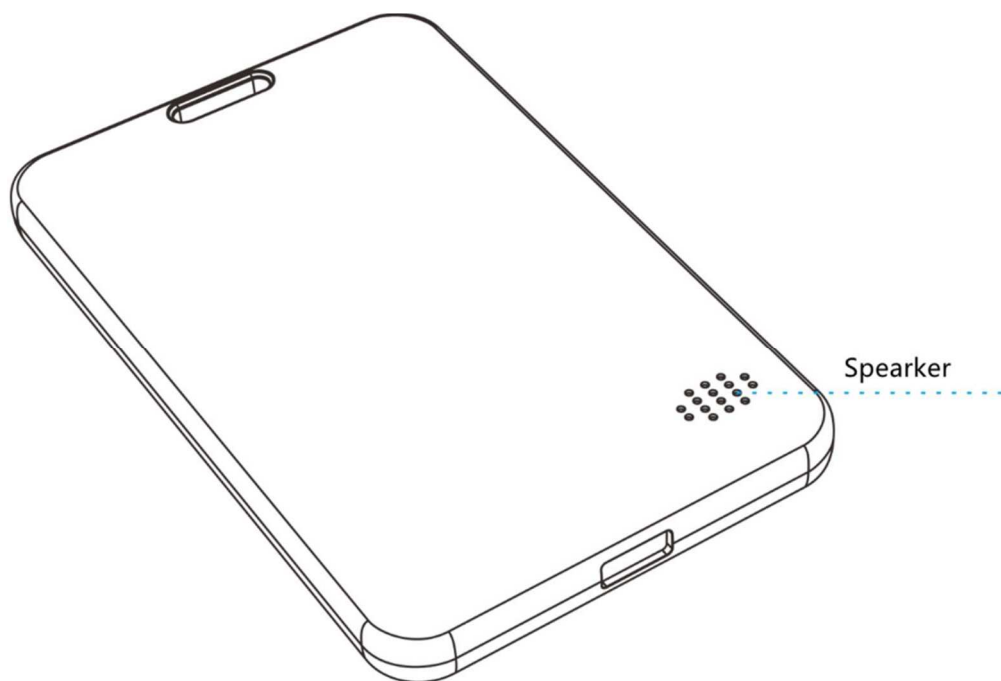


Charging Plug(Optional)

1.5 Card Component

As is shown below:





1.6 Specifications

Specification

Model: EH100606A01-J

Dimensions: 86×55×6mm

Power Supply Port: micro-USB

Charging Time: ≤2h

Duration: ≥10h

Low Battery Reminder: YES

Key Interaction: YES

Sound: YES

Vibration: YES

LED: YES

Built-in RFID: ISO14443A 13.56M IC Card

Protection Level: IP65

Working Temperature: -20°C~60°C

Storage Temperature: -20°C~85°C

Working Humidity: 0~95% No condensation

Materials: PC+ABS

Battery Type: Lithium Polymer Battery

Battery Capacity: 500mAh

Charge/Supply Voltage/Current: 5V/270mA

Location wireless system: 802.15.4_2011UWB

Positioning Antenna Gain: **with 2.6dBi gain**

Ranging Method: TOF

Location Typical Transmit Power: -41.3dbm/MHz

Wireless Communication System: 802.15.4_2.4GHz

Communication Frequency Band: IEEE802.15.4 11~26

Communication Antenna Gain: **2.2dBi Gain**

Typical Transmission Power of Communication: 6.10dbm 4.074mW

Line-of-Sight Project Coverage Distance: 30m

Acceleration sensor: Triaxial

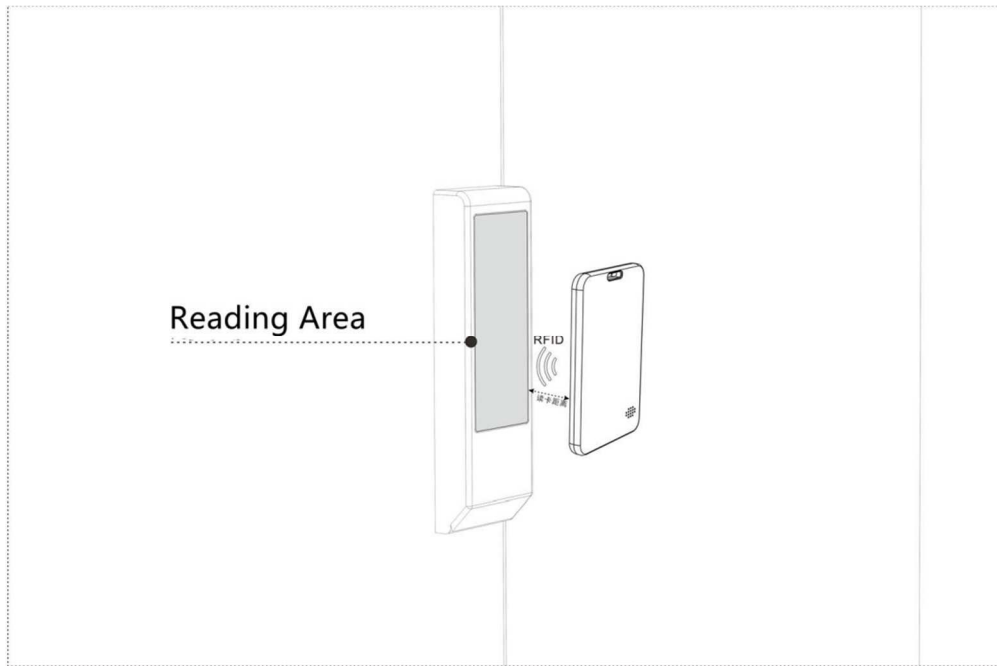
2. Card Usage

2.1 Way to Wear



2.2 RFID Introduction

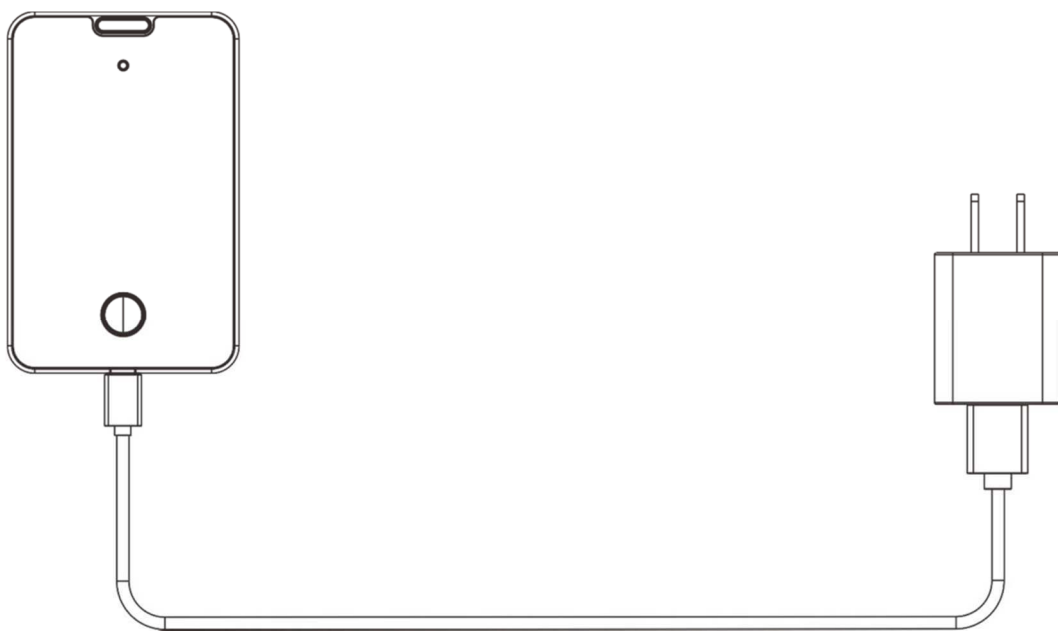
The card (with built-in ISO14443A 13.56m IC card) has only front-facing card reading function. Place the card's front face to align with the card reader's reading area, with a reading distance of less than 1cm, as shown in the figure below:



2.3 Charging Instruction

2.3.1 Charging by Charger

Use the charger and charging cable to complete the charge, as shown in the figure below:



2.4 Interactive Instructions

2.4.1 Operating Instructions

- Power On: If product is in the power-off state, press and hold the button for more than 3 seconds. When you hear the buzzer and see the LED flash, it means product is power-on successfully.
- Power Off: If product is in the power-on state, press and hold the button for more than 3 seconds. When you hear the buzzer and see the LED flash, it means product is power-off successfully.
- Power Test: Press the button (less than 1s) and release. If the product still has power, the buzzer will work and the LED flash; If there is no power left, there will be no response.

2.4.2 Alarm Instructions

- Warning: When the distance between the cards is less than the safe distance, the cards will continue buzzing and the red LED will flash until the distance between the cards is greater than the safe distance.
- Working Status Indicator: When the card is working normally, the LED flashes twice every 2s.
- Low Power Indicator: When the card is in low power, the LED flashes twice every 5s.
- Charging: The LED flashes when the card is charging, and the LED light is always on when it is fully charged.

3. FCC Statement

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.

FCC ID: 2AWQO-EH100606A01-J

NOTE: 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.

The device 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.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction

According to regulatory requirements: technical requirements applicable to all UWB devices

Do not use UWB devices for toy operations, and do not operate on airplanes, ships, or satellites.

Power Off: If product is in the power-on state, press and hold the button for more than 3 seconds. When you hear the buzzer and see the LED flash, it means product is power-off successfully

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