Baby label B610+ instruction manual

1. Overview

1.1 background

Baby tag b610 + is an active electronic tag specially used in infant anti-theft system.It not only has the characteristics of waterproof, anti falling off and anti cutting, but also can realize the accurate positioning of the baby and the matching function with the nurse and the mother, so as to provide all-round protection for the baby and provide more efficient management for the hospital.

1.2 application fields and objects

This product is suitable for major hospitals, combined with Yihui baby anti-theft system, to provide a full range of anti-theft monitoring for newborn infants.

1.3 use environment

Serial number	index	parameter	
1	temperature	operation	-10℃ ～ +50℃
		Storage	-40℃ ～ +85℃
2	Shock / drop	10～55Hz　X,Y and Z axis	
3	humidity	operation	5% ～ 95%
		Storage	10% ～ 90%

1.4 technical features

◆　Exquisite ergonomic design

◆　Precise positioning, movement monitoring and mother infant matching

◆　Rechargeable, real-time voltage monitoring, low power automatic alarm

◆　Wristband cutting alarm, label falling off alarm

◆　Ipx7 waterproof, can be repeated cleaning, water can work normally

◆　Passed the high standard FDA certification, without any allergic reaction

◆　In line with gb9175-88, GB8702-88 national radiation safety standards

2. Main technical parameters and functions

2.1 technical indicators

Serial number	index	parameter
1	Communication frequency	433MHZ
2	Communication distance	>20M (sight distance)
3	Working current	<50uA
4	Battery life	Charging times ≥ 300 times Each charge can work for more than 7 days
5	Battery Specification	80mAh
6	Dimensions (L＊w＊h)	34.5mm＊27.5mm＊14.5mm

2.2 overall dimensions

Mechanical dimension (L * w * h): 34.5mm * 27.5mm * 14.5mm
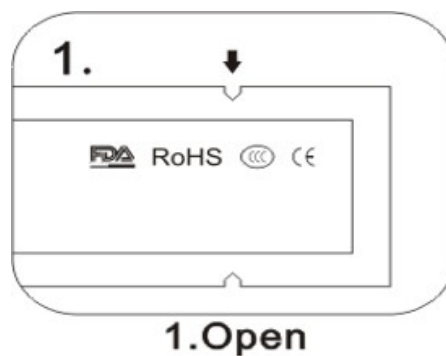

2.3 main function description

◆ Heartbeat signal: the label sends a heartbeat signal every certain time;

◆ Low voltage alarm: when the battery voltage is lower than the preset value, the background software will get the current battery voltage information of the tag and remind the user that the label is in the low voltage state;

◆ Cut alarm: when the wristband is connected, if the wristband is disconnected due to falling off or cutting, the label will send an alarm signal;

◆ Low frequency precise positioning: when the label is within the positioning range of the locator, the positioning signal will be sent continuously. When the label goes out of the designated access control range, the exit alarm will be triggered;

◆ Skin sensing: when wearing a label, the label itself can sense whether the label is in contact with the skin;

◆ Motion detection: it can detect whether the tag is still or moving;

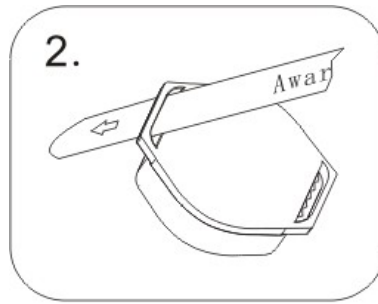◆ Mother infant pairing: with the use of mother label, mother infant pairing can be realized.

3.Use and operation

3.1 wearing steps and methods

Step 1: open the package and take out the wristband. The color of the wristband is optional (usually blue for boys and pink for girls)
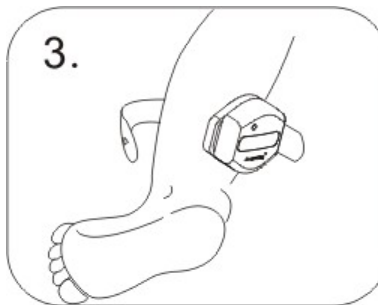

Step 2: insert one end of the wristband into the interface on one side of the label according to the direction shown by the arrow at one end of the wristband
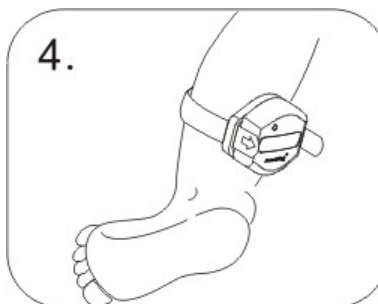
2.Insert
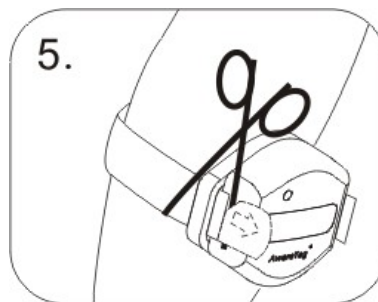
Step 3: put the baby label on the baby's ankle:

3.Wear

Step 4: insert the other end of the wristband into the interface on the other side of

the label, and adjust the length so that the bottom of the label just contacts the

skin

4.Tighten

Step 5: cut off the wristband beyond the interface with scissors

5.Clip

3.2 working state indication

◆ Heartbeat signal: the label sends heartbeat signal every 15 seconds, and the blue indicator light flashes once;

◆ Low voltage alarm: when the battery voltage of the label is lower than 2.4V, the red indicator light flashes continuously;

◆ Wearing instructions: when the label is worn, the red indicator light flashes once, and the buzzer sends out a sound;

◆ Cutting alarm: if the wrist strap falls off or is cut off, the blue indicator light of the label flashes continuously for 10 times (lasting for 5 s), and the buzzer sends out three beeps at the same time;

◆ Low frequency precise positioning: when the locator is within the positioning range, the blue indicator light of the label flashes continuously;

◆ Skin induction: after wearing the baby label, the label does not sense skin contact, the red indicator light flashes once every 3 seconds, and the red indicator light goes off when touching the skin;

◆ At the same time, press the mother's red label to indicate the mother's beep when matching a long label within 10 cm.

4.Common troubleshooting

Fault phenomenon	Cause analysis	resolvent
The indicator light doesn't work	Low Battery	Return to the factory and replace the battery
	Damage indicator	Return to original factory for maintenance
Red light flashing	Label not in contact with	Rewear to ensure skin contact

after wearing	skin	
	Internal hardware exception	Return to original factory for maintenance
There was no response to the infant label in the paired relationship test	The distance between the two labels is too far	Keep labels within 10 cm apart
	Abnormal operation of baby label	Replace the baby label with a new one
	Abnormal mother label work	Replace the mother label with a new one
The red indicator is flashing continuously	Low power	Return to the factory and replace the battery
The red and blue indicator lights are always on at the same time	Internal hardware exception	Return to original factory for maintenance
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5. Maintenance and precautions

◆ Keep the label surface dry, especially after the baby bath, remember to wipe the water clean;

◆ Do not repair, disassemble or transform by yourself;

◆ When not in use, do not place the label within the positioning range of the locator;

◆ When not in use, do not put the label near corrosive articles;

◆ Please use under normal temperature and humidity.

FCC ID: 2AX8K-B610

FCC Caution：

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.

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

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.

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