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# Test Report

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Report No. : AGC16409240602SS01

**PRODUCT DESIGNATION** : PORTABLE LOCATOR DEVICE  
**BRAND NAME** : HUTHUR  
**MODEL NAME** : TX03  
**APPLICANT** : Shenzhen guo-link Technology Co., Ltd  
**DATE OF ISSUE** : Jun. 26, 2024  
**REPORT VERSION** : V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd



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<b>Test Report</b>	
<b>STANDARD FOR SAFETY</b>	
<b>Products Incorporating Button or Coin Cell Batteries of Lithium Technologies</b>	
Report Number.....	AGC16409240602SS01
Tested by (+ signature).....	Eden Luo <hr/>
Reviewed by (+ signature).....	Dylon Yan <hr/>
Approved by (+ signature).....	Byron Wang (Authorized Officer) <hr/>
Date of issue.....	Jun. 26, 2024
Total number of pages.....	Total 13 pages
<b>Testing laboratory</b>	
Name.....	Attestation of Global Compliance (Shenzhen) Co., Ltd.
Address.....	1-2/F, Building 19, Junfeng Industrial Park, Chongqing Road, Heping Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Testing location.....	Same as above.
<b>Applicant</b>	
Name.....	Shenzhen guo-link Technology Co., Ltd
Address.....	2nd Floor, Building 3, No. 222, Huating Road, Dalang Street, Longhua District, Shenzhen City, Guangdong Province, China
<b>Manufacturer</b>	
Name.....	Shenzhen guo-link Technology Co., Ltd
Address.....	2nd Floor, Building 3, No. 222, Huating Road, Dalang Street, Longhua District, Shenzhen City, Guangdong Province, China
Test specification.....	UL 4200A: 2023
Test result.....	The presented product is in compliance with the above listed test specifications

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## 1. Description of the product

### 1.1 Description of the product

Name: PORTABLE LOCATOR DEVICE  
 Brand name: HUTHUR  
 Model / Series models: TX03

### 1.2 Product Function

Anti-lost alarm

### 1.3 Technical Data

Rated input: 3.0Vdc  
 Number of button / coin battery: 1Pcs  
 Rated voltage of button / coin battery: 3.0Vdc  
 Button / coin battery dimension: CR2032  
 Type of button / coin battery:  lithium  alkaline  silver oxide  
 zinc-air  other: \_\_\_\_\_  
 Consumer Replaceable button / coin battery:  Yes  No


## 1.4 Warnings and information

### 1.4.1 Display type of Warning

- On instruction
- On package
- On goods

### 1.4.2 Copy of Warnings and information

On instruction


<b>⚠ WARNING</b>	
<ul style="list-style-type: none"> <li><b>INGESTION HAZARD:</b> This product contains a button cell or coin battery.</li> <li><b>DEATH</b> or serious injury can occur if ingested.</li> <li>A swallowed button cell or coin battery can cause <b>Internal Chemical Burns</b> in as little as <b>2 hours</b>.</li> <li><b>KEEP</b> new and used batteries <b>OUT OF REACH</b> of <b>CHILDREN</b></li> <li><b>Seek immediate medical attention</b> if a battery is suspected to be swallowed or inserted inside any part of the body.</li> </ul>	

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- a) Remove and immediately recycle or dispose of used batteries according to local regulations and keep away from children. Do NOT dispose of batteries in household trash or incinerate.
- b) Even used batteries may cause severe injury or death.
- c) Call a local poison control center for treatment information.
- d) The compatible battery type: CR2032.
- e) The nominal battery voltage: 3V.
- f) Non-rechargeable batteries are not to be recharged.
- g) Do not force discharge, recharge, disassemble, heat above (manufacturer's specified temperature rating) or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.
- h) Ensure the batteries are installed correctly according to polarity (+ and -).
- i) Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.
- j) Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time according to local regulations.
- k) Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.

On package

Battery type: CR2032; Nominal voltage: 3V.

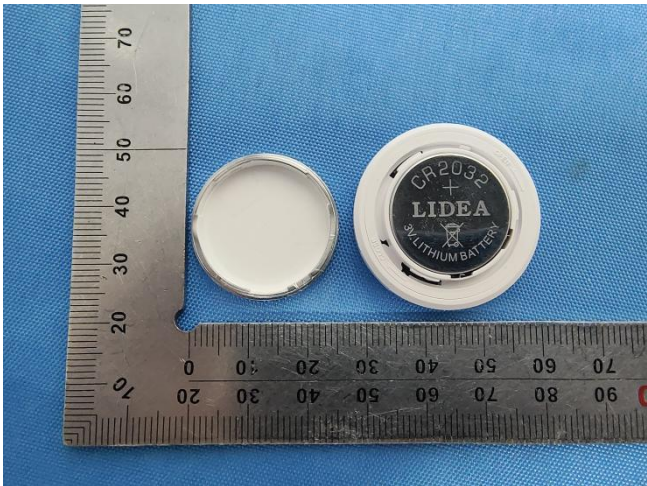
<b>⚠ WARNING</b>	
<ul style="list-style-type: none"> <li><b>INGESTION HAZARD:</b> This product contains a button cell or coin battery.</li> <li><b>DEATH</b> or serious injury can occur if ingested.</li> <li>A swallowed button cell or coin battery can cause <b>Internal Chemical Burns</b> in as little as <b>2 hours</b>.</li> <li><b>KEEP</b> new and used batteries <b>OUT OF REACH</b> of <b>CHILDREN</b></li> <li><b>Seek immediate medical attention</b> if a battery is suspected to be swallowed or inserted inside any part of the body.</li> </ul>	

On goods

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1.5 Picture(s) of goods



2. Testing information

2.1 Test Sample(s)

Date(s) of receipt Test item *Apr. 25, 2024*  
Date(s) of performance Testing *Apr. 25, 2024 - May 11, 2024*

2.2 Test case verdicts

Test case does not apply to the test object N (/A)  
Test item does meet the requirement P (ass)  
Test item does not meet the requirement F(ail)

3. Summary

The test product is met the requirements of UL 4200A: 2023.

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Test report			
Clause	Requirement – Test	Result - Remark	Verdict
<b>5</b>	<b>Products containing coin/button cell batteries</b>		P
5.1	Products that use button/coin cell batteries shall be designed to minimize the risk of children removing and ingesting or aspirating the batteries.		P
	Products that allow user removal or replacement of button/coin cells shall comply with the requirements of 5.2-5.6.		P
	Products with button/coin cells that are not intended to allow user removal/replacement of the cells shall comply with 5.7.		N
5.2	Products with removable or replaceable button/coin cell batteries shall not allow the button/coin cell to be contacted by Test Probe 11 of IEC 61032.		P
5.3	The probe shall be applied to any depth that the opening will permit and shall be rotated or angled before, during, and after insertion through the opening to any position that is necessary to examine the enclosure. The probe shall be used as a measuring instrument to judge the accessibility provided by an opening, and not as an instrument to judge the strength of a material.		P
5.4	During the examination of a product to determine whether it complies with the requirements in 5.3, a part of the enclosure that may be opened or removed by the user, either without using a tool or with less effort than two independent and simultaneous movements by hand, is to be opened or removed.		P
5.5	Products that locate removable or replaceable button/coin cell batteries inside a battery compartment shall be designed to prevent children from removing the battery by one of the following methods in (a) or(b) below. Compliance is checked by the tests of Section 6.	See clause 6	P
5.6	If screws or similar fasteners are used to secure the door or cover providing access to a battery compartment, the fasteners shall be captive to the door, cover, or device.		N
5.7	Products that incorporate button/coin cells that are not intended for user removal or replacement shall effectively prevent removal of the battery by the user or children. The button/coin cell shall be: a) Made inaccessible by an enclosure or similar	See cl.6.2 & 6.3	N

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Test report			
Clause	Requirement – Test	Result - Remark	Verdict
	means that passes the applicable tests of 6.2 and 6.3; or b) Held fully captive by the use of soldering, fasteners such as rivets, or equivalent means. These curement method shall pass the Secureness Test of 6.4.		
<b>6</b>	<b>Protection from Ingestion or Aspiration of Button/Coin Cell Batteries</b>		P
6.1	General		P
6.2	Pre-conditioning		P
	a) Stress Relief Test b) Battery Replacement Test		P
6.3	Abuse tests		P
6.3.1	General		P
6.3.2	Drop test for portable devices and hand-held products	(See appended table)	P
6.3.3	Impact test	(See appended table)	P
6.3.4	Crush test	(See appended table)	P
6.3.4 A	Torque test	(See appended table)	P
6.3.4 B	Tension test	(See appended table)	P
6.3.4 C	Compression test	(See appended table)	P
6.3.5	Compliance	Rigid test finger with 50N±1N force applied last for 10s, battery compartment door/cover not open and shall remain functional, and the battery can not be accessible.	P
6.4	Secureness test		N
	Button/coin cells that are not intended for user removal or replacement, and are accessible based on 5.3 and 5.4, shall checked by application of a test hook as shown in Figure 6.3, with a force of 20 ±2N, directed outwards, applied for 10 s at all points where this is possible. During the test, the button/coin cell shall not become separated from the product.		N
<b>7</b>	<b>MARKINGS</b>		P
7A	General		P
7A.1	All warning statements or icons shall be prominent, legible, easily discernable under normal lighting conditions, and permanently marked.		P

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7A.2	Unless otherwise specified, instructional safeguards do not have to be in multiple colors. If an instructional safeguard is present in more than one color to indicate hazard severity, the color shall be in accordance with the ISO 3864 series.		P
7A.3	Printed or screened markings shall also be permanent.		P
7A.4	Legibility of markings is determined by inspection. Permanency is determined by the tests of Section 7D, Permanence of Markings.		P
7A.5	Markings must be in the official language(s) of the country where the product is sold or in English if there is no official language(s).		P
7A.6	The safety alert symbol, an exclamation mark in a triangle, when used with the signal word, must precede the signal word. The base of the safety alert symbol must be on the same horizontal line as the base of the letters of the signal word. The height of the safety alert symbol must equal or exceed the signal word letter height.		P
7A.7	Certain text in the message panel must be in bold and in capital letters as shown in the example warning labels to get the attention of the reader.		P
7A.8	For labels that are provided on a sticker, hang tag, instructions or manual, the safety alert symbol and the signal word "WARNING" must be at least 0.2 in (5 mm) high. The remainder of the text must be in characters whose upper case must be at least 0.1 in (2.5 mm), except where otherwise specified.		P
7A.9	For labels that are required to be on the packaging of consumer products and directly on consumer products, text size shall be dependent on the area of the principal display panel. Text size shall be determined based on Table 7A.1.		P
7B	Packaging Markings		P
7B.1	Except as allowed in 7B.2 and 7B.3, the principal display panel shall contain the warning label in Figure 7B.1 or Figure 7B.2. The icon in Figure 7B.1 shall be at least 7 mm in width and 9 mm in height. The icon in Figure 7B.2 shall be at least 8 mm (0.31 in) in diameter.		P
7B.2	Consumer products that are not contained in packaging shall have the warning label in Figure		N

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	7B.1 or Figure 7B.2 affixed to the consumer product with a hang tag or a sticker label.		
7B.3	When space on the principal display panel of the consumer product packaging does not permit the warning label in Figure 7B.1 or Figure 7B.2, the principal display panel shall include the warning in Figure 7B.3 in a conspicuous location		N
7B.4	The principal display panel or secondary display panel of the consumer product packaging, or if there is no consumer product packaging, the accompanying hang tag or sticker label, shall include the following text: a) For products with non-replaceable batteries, include a statement indicating the product contains non-replaceable batteries; b) Battery type ( e.g., LR44, CR2032); and c) Nominal voltage.		P
7C	Product Markings		P
7C.1	Except as provided in 7C.2 and 7C.3, consumer products shall be marked with a warning label on the product display panel that alerts the consumer of the presence of a button cell or coin battery.		N
7C.2	When space on the product is limited, use the “Warning: contains coin battery” icon shown in Figure 7C.2, without text.		N
7C.3	When the product itself is too small to include the warning with text in Figure 7C.1 or the icon in Figure 7C.2, the product shall: a) Have packaging containing the warning label following the requirements in Section 7B, Packaging Markings; or b) Contain a hangtag or sticker label with the full warning label using requirements in Section 7B, Packaging Markings.		P
7D	Permanence of Markings		P
	Each required printed or screened marking shall be tested according to 7D.2 & 7D.3, After each test, the marking shall remain legible. If the marking is on a separable label, the label shall show no curling and shall not be removable by hand.	No curling and shall not be removable, the marking shall remain legible.	P
<b>9</b>	<b>INSTRUCTIONS</b>		<b>P</b>

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Clause	Requirement – Test	Result - Remark	Verdict
9.1	Instructions and manuals, if provided, shall include all of the applicable markings in Figure 7B.1 or Figure 7B.2 and the statements noted		P
	If instructions and manuals are not provided, the statements shall be present on the principal display panel or secondary display panel of the consumer product packaging, or if there is no consumer product packaging, the accompanying hang tag or sticker label.		N
9.2	Products with replaceable button/coin cell batteries shall additionally include: a) The statement “Ensure the batteries are installed correctly according to polarity (+ and -).” b) The statement “Do not mix old and new batteries, different brands or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.” c) The statement “Remove and immediately recycle or dispose of batteries from equipment not used for an extended period of time according to local regulations.” d) The statement “Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.”		P
9.3	Products with non-replaceable button/coin cell batteries shall additionally include a statement indicating the product contains non-replaceable batteries.		N

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<b>6</b>	<b>TABLE: Lithium coin/button cell batteries mechanical tests</b>			P
<b>6.2 Pre-conditioning</b>				
<b>6.2.1 a)</b>	<b>TABLE: Stress relief test</b>			P
Part	Material	Oven Temperature (°C)	Comments	
Enclosure	plastic	70	--	
<b>6.2.1 b)</b>	<b>TABLE: Battery replacement test</b>			P
Battery part no..... :	Battery compartment cover			—
Battery Installation/withdrawal	Battery Installation/Removal Cycle		Comments	
--	1		--	
	2		--	
	3		--	
	4		--	
	5		--	
	6		--	
	8		--	
	9		--	
	10		--	
<b>6.3.2</b>	<b>TABLE: Drop test</b>			P
Impact Area	Drop Distance	Drop No.	Observations	
Top surface	1m	1	No damage or hazard	
Side surface	1m	2	No damage or hazard	
Bottom surface	1m	3	No damage or hazard	
<b>6.3.3</b>	<b>TABLE: Impact</b>			P
Impacts per surface	Surface tested	Impact energy (J)	Comments	
Battery compartment cover	Top surface	2	No damage or hazard	
Battery compartment cover	Side surface	2	No damage or hazard	
Battery compartment cover	Bottom surface	2	No damage or hazard	
<b>6.3.4</b>	<b>TABLE: Crush test</b>			P
Test position	Surface tested	Crushing Force (N)	Duration force applied (s)	
Battery compartment	Top surface	330	10	

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cover			
Battery compartment cover	Side surface	330	10
Battery compartment cover	Bottom surface	330	10
<b>6.3.4A</b>	<b>TABLE: Torque test</b>		P
Test position	Surface tested	Torque (Nm)	Duration force applied (s)
Battery compartment	Children could touched	0.5	10
<b>6.3.4B</b>	<b>TABLE: Tension test</b>		P
Test position	Surface tested	Tension Force (N)	Duration force applied (s)
Battery compartment	Children could touched	72	10
<b>6.3.4C</b>	<b>TABLE: Compression test test</b>		P
Test position	Surface tested	Compression Force (N)	Duration force applied (s)
Battery compartment	Children could touched	136	10
Supplementary information:			

<b>6.4</b>	<b>TABLE: Secureness test</b>		N
Test position	Surface tested	Force (N)	Duration force applied (s)
--	--	--	--
--	--	--	--
Supplementary information:			

-----END OF REPORT-----

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## Conditions of Issuance of Test Reports

1. All samples and goods are accepted by the Attestation of Global Compliance (Shenzhen) Co., Ltd. (the “Company”) solely for testing and reporting in accordance with the following terms and conditions. The company provides its services on the basis that such terms and conditions constitute express agreement between the company and any person, firm or company requesting its services (the “Clients”).
2. Any report issued by Company as a result of this application for testing services (the “Report”) shall be issued in confidence to the Clients and the Report will be strictly treated as such by the Company. It may not be reproduced either in its entirety or in part and it may not be used for advertising or other unauthorized purposes without the written consent of the Company. The Clients to whom the Report is issued may, however, show or send it, or a certified copy thereof prepared by the Company to its customer, supplier or other persons directly concerned. The Company will not, without the consent of the Clients, enter into any discussion or correspondence with any third party concerning the contents of the Report, unless required by the relevant governmental authorities, laws or court orders.
3. The Company shall not be called or be liable to be called to give evidence or testimony on the Report in a court of law without its prior written consent, unless required by the relevant governmental authorities, laws or court orders.
4. In the event of the improper use of the report as determined by the Company, the Company reserves the right to withdraw it, and to adopt any other additional remedies which may be appropriate.
5. Samples submitted for testing are accepted on the understanding that the Report issued cannot form the basis of, or be the instrument for, any legal action against the Company.
6. The Company will not be liable for or accept responsibility for any loss or damage however arising from the use of information contained in any of its Reports or in any communication whatsoever about its said tests or investigations.
7. Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. The Company is not responsible for recalling the electronic version of the original report when any revision is made to them. The Client assumes the responsibility to providing the revised version to any interested party who uses them.
9. Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of six years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

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