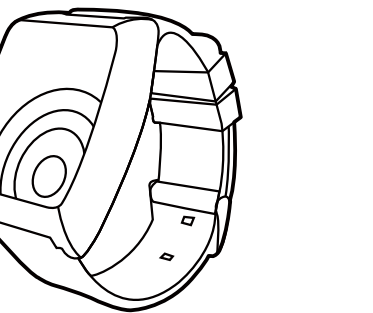


USER MANUAL
UWB TAG
Tb1000-w



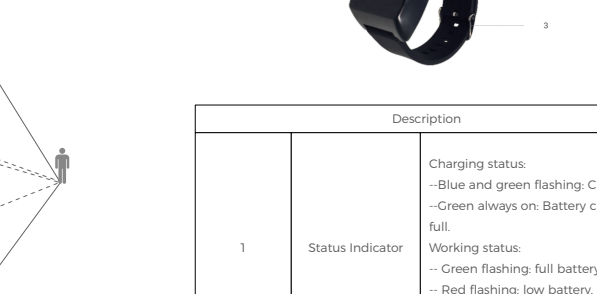
CONTENTS

PRODUCT INFORMATION 1
【General】 1
【Panels】 2
Get Started 3
【Turn On UWB Tag】 3
【wearing】 4
【Charging】 5
Basics 6
【Ranging】 6
【Alarming】 6
【Recording】 7
【Uploading】 7
【Data Privacy Consideration】 7
Operation Conditions 8
Trouble Shooting 10
Product Parameters 12
Safety Instructions 13
Disposal and Recycling Information 19
Statement Of Conformity 20
Limited Warranty 21
Statement On Intellectual Property Rights 24
Responsibility Statement 25

Product Introduction

【General】

Tb1000-w UWB Tag has the function of detecting the distance between each other. When it detects that the distance between itself and any other UWB Tag is less than the preset distance, it will record this event and alarm. Typical application scenario is shown in the figure below.



In addition, with the help of UWB Gateway, UWB Tag can upload this alarm record.

【Panels】

The front panel of the UWB Tag is shown in the following figure with descriptions in the table.

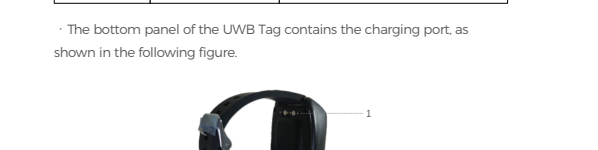


Table with 3 columns: ID, Description, and details. Row 1: ID 1, Status Indicator, Charging status: --Blue and green flashing: Charging; --Green always on: Battery charged full. Working status: -- Green flashing: full battery; -- Red flashing: low battery. Alarm status: --Red light flashing: Alarm.

Table with 3 columns: ID, Description, and details. Row 1: ID 3, Button, Used to temporarily mute the alert function. Row 2: ID 4, Beep Hole, Beeping when in alarm status.

The bottom panel of the UWB Tag contains the charging port, as shown in the following figure.



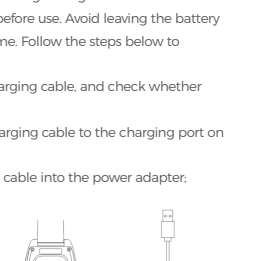
Table with 3 columns: ID, Description, and details. Row 1: ID 1, Charging Port, For 5V1A microUSB charging. Row 2: ID 2, ID Area, Area that shows ID number.

Get Started

【 Turn On UWB Tag 】

To use UWB Tag for the first time, press the front button for more than

3 seconds to turn it on. The Tag will vibrate and beep if successfully turned on.



After turning on, UWB Tag will remain in a working state, and the user cannot turn it off autonomously. If you need to turn off UWB Tag, please contact the system administrator to achieve it with the help of UWB Gateway and related software.

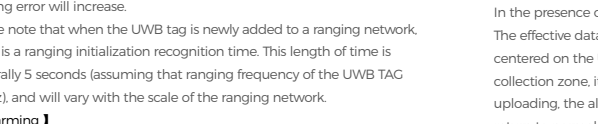
【Wearing】

Please refer to the figure: attach the bottom of the UWB Tag to the wrist to maintain a comfortable and fitting wearing status. In order to ensure comfort, please wear your watch normally, avoid joints, not too loose nor too tight.

【Charging】

UWB Tag needs to be charged in time to keep normal working status. You can check the battery level of UWB Tag through the status indicator. If the battery is low, please charge it before use. Avoid leaving the battery of the device uncharged for a long time. Follow the steps below to charge:

- Use original power adapter and charging cable, and check whether they are intact, clean and dry;
- Insert the Micro USB port of the charging cable to the charging port on bottom panel of the UWB Tag;
- Insert the USB port of the charging cable into the power adapter;



Switch on the power supply. Check the status indicator. If the status indicator flicks alternately in blue and green, then charging is normal. If the status indicator turns and remains in green, then the battery is charged full. (If the battery is completely empty before charging, then it will take some time to get enough power to let the indicator work.)

Basics

UWB TAG has four basic functions: ranging, alarming, recording and uploading.

【Ranging】

When turned on, the ranging function will start to run. UWB Tag will periodically try to measure the distance between itself and other UWB TAGs within a certain range. The general ranging period is once per second. In LOS environment, the effective ranging range of UWB Tag is about 5m. In the NLOS environment, due to the influence of occlusion, UWB tags may not be able to complete the ranging process, and the ranging error will increase.

Please note that when the UWB tag is newly added to a ranging network, there is a ranging initialization recognition time. This length of time is generally 5 seconds (assuming that ranging frequency of the UWB TAG is 1Hz), and will vary with the scale of the ranging network.

【Alarming】

The default alarm distance of UWB Tag is 2m. Once UWB Tag detects that the distance between itself and any other UWB Tag is less than the preset alarm distance, it will warn the wearer by vibrating, buzzing and LED flashing. Temporary mute function can be achieved by pressing the button on the UWB Tag. After a short press of the button, UWB Tag will pause vibration, beep and LED flashing for 10 seconds. But only the alarm is mute, the ranging, recording and uploading will not affected by this button. Please only use the mute function when it is absolutely necessary.

【Recording】

Alarm information will be recorded by UWB Tag, which includes Tag ID, duration, time stamps and contact distance etc. Only alarm information will be recorded. If a UWB Tag has not had an alarm, there will be no record. Data information will be recorded in the UWB Tag, and the oldest records will be removed once the maximum recording capacity is reached so that the new information can be recorded.

【Uploading】

In the presence of UWB Gateway, UWB Tag uploads its alarm records. The effective data collection zone is a circle with a radius of 3m and centered on the UWB Gateway. If the UWB Tag is far from the data collection zone, it may not be able to upload its alarm records. During uploading, the alarm function of UWB Tags may be interfered. It will return to normal when leaving the data collection zone.

【Data Privacy Consideration】

The UWB Tag is based on ranging technology, it doesn't do the positioning of the wearers, but rather calculating the distance among each other.

Please take into consideration local regulations related to data privacy while using the UWB Tag.

Operation Conditions

Exposure to liquid UWB Tag is water-resistant with IP65*. You may, for example, wear and use UWB Tag during exercise, in the rain, and while washing your hands. Please read carefully the instructions below in "Cleaning and care" section in case the above-mentioned situation happens.

*UWB Tag have a water resistance rating of IP65 under China standard GB/T4208-2008.

UWB Tag is water resistant, but submerging UWB Tag is not recommended. UWB Tag should not be used for scuba diving, water skiing, or other activities involving high velocity water or submersion below shallow depth. Water resistance is not a permanent condition and may diminish over time. UWB Tag cannot be rechecked or resealed for water resistance. T

he following may affect the water resistance performance of UWB Tag and should be avoided:

- Dropping UWB Tag or subjecting it to other impacts.
- Exposing UWB Tag to soap or soapy water, for example while showering or bathing.

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Attention: data collection or upload is only possible when corresponding gateway (a separate product from TSINGOAL) is used and it is uploaded to the user's own designated server. For details, please refer to user manual of the gateway (if also purchased).

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Product Parameters

Table with 2 columns: Parameter and Value. Parameters include Frequency Range (6.1GHz ~ 6.9GHz), Transmit Power Density (< -41.3dBm/Mhz), Communication Range (>5m (LOS)), Ranging Precision (Average LOS precision up to10cm), Refresh Rate (1Hz by default), Status Indication (LED / vibration / buzzer), Size (54.5mmx40mmx16.5mm), Weight (50g excluding accessories), Power Endurance (12 Hours on average (@1Hz)), IP Class (IP65(CN standard)), Battery Capacity (600mAh/Rechargeable lithium battery), Charging Interface (Micro USBMagnetic Type), Charging Voltage (5±0.1V, 1000mA), Charging Time (4 ~ 6 Hours).

Trouble Shooting

The UWB Tag will flash the status light once every 3 seconds. If the status light does not flash for a long time, please press the button and

hold it for 10 seconds. If the status light of UWB tag is still off, the battery power of your UWB Tag has been used up, or the UWB Tag is out of order. Please contact your system administrator in time.

The UWB Tag uses UWB wireless communication, and should be used only in LOS condition. The UWB Tag will generate buzz, light and vibration alarms within the pre-set alarm distance. If you are within the per-set alarm distance and there is no alarm, please contact your system administrator in time.

UWB wireless may penetrate some objects to establish connection, such as wooden box, shelf, hollow wall, etc. However, it may cause an increase in ranging error.

There might be cases that the alarm of the tag is triggered e.g. when you and the other wearer are within the pre-set alarm distance while there is a separator (wooden box, shelf, hollow wall) between you.

There might be cases that the alarm of the tag is not triggered e.g. when you and the other wearer are within the pre-set alarm distance but UWB Tags are separated by wearer's body. It's NLOS condition and in reality, this situation should be considered safe.

The vibration alarm of UWB Tag is only triggered within pre-set alarm distance. If you are far away from any other UWB Tag but the vibration alarm does not stop, it may be because the UWB Tag you are wearing is squeezed hard or entered with liquid, resulting in the short circuit of the vibration motor. Please contact the manager in time in this case.

Operating Temperature	-10 ~ 60°C
Storage Temperature	-20 ~ 70°C
Operating Humidity	10% ~ 90% Non-condensing
Storage Humidity	5% ~ 95% Non-condensing

Safety Instructions

Failure to follow these safety instructions could result in electric shock, fire, injury, or damage to UWB Tag or other properties. Read carefully all the information about safety below before using the UWB Tag. The seller shall not be liable for any damages caused by misuse or violation against the instructions contained herein.

【Safety】

- Do not use UWB Tags when you are close to gasoline or liquid. Strictly follow all the indicated instructions and tips when you are in the petrol station.
- The UWB Tag is an integrated equipment. Neither the battery nor the back cover can be removed. Removing the back cover of the UWB Tag may damage the battery and lead to material leakage that may cause allergic reactions.
- Please do not replace the original watchband of the UWB Tag. Some types of watchbands may cause skin allergies.
- This equipment and its accessories may contain some small parts. Please keep the equipment and its accessories including the small parts

- out of reach of children. Children may inadvertently damage the equipment and its accessories, or swallow small parts that causesuffocation or other dangers.
- Do not store or transport equipment and its accessories in the same box with flammable gases, liquids or explosives.
- When disinfecting the equipment, do not spray or wipe it directly with flammable liquid to avoid fire.
- Never disinfect the equipment during the charging process to avoid equipment damage or casualties.
- Keep the UWB Tag in a dust-free place when not using it, and do not leave it in an abandoned status. Please pay attention to the weather and environmental conditions (nature, dust, rain seeping, wet, rain, seawater etc.). The recommended operating temperature range is -10°C (14°F) to + 60°C (140°F) and the storage humidity range is 5%-95%. Damage might be caused when it is used in an environment exceeding + 60°C (140°F).
- The UWB Tag and the accessories comply with applicable surface temperature standards and limits. However, even within these limits, sustained contact with warm surfaces for long periods of time may cause discomfort or injury. Continuous alert of the UWB Tag may make the equipment feel warm. Remove the UWB Tag if it becomes uncomfortably warm.
- Please use the charger in the original package when charging. Usage of non-conforming third-party chargers may cause personal safety damage and/or battery damage.

【Battery】

- Never discard, replace or open the battery at will, nor try to penetrate the equipment with sharp tools, as the electrolyte inside the battery in the equipment may damage skin and clothes.
- Do not connect the metal conductor with the two poles of the battery or contact the endpoint of the battery, so that it won't cause short circuit of the battery and physical injury such as burning caused by heating of the battery.
- The equipment should be stopped from using if it is noticed to be hot, smelly, discolored, deformed or in any other abnormal status.
- If the battery leaks, do not expose the leaked liquid to your skin or eyes. If exposed to skin or eyes, rinse immediately with clear water and take medical treatment at the hospital.
- Do not expose the batteries to high temperature or place it close to any heating equipment, such as sunshine, heater, microwave oven, oven and water heater etc. Overheating batteries may cause explosion.
- Do not drill or incinerate the equipment or battery. Please consult the local waste treatment department in accordance with the applicable local regulations including laws and policies when disposing your equipment/battery. Batteries must be recycled or disposed of separately from household waste.

【Charging】

- Please charge the battery in accordance with the requirements of the instructions. Please use the provided (in the same product package)

- Do not open the UWB Tag and try to repair it yourself. Disassembling the UWB Tag may cause damage injury. If the UWB Tag is damaged or out of normal status, please contact your seller in time.
- **【Warning】**
- **Radio frequency interference** Observe signs and notices that prohibit or restrict the use of electronic equipment. Although UWB Tag is designed, tested, and manufactured to comply with regulations governing radio frequency emissions. Emissions from UWB Tag could potentially negatively affect the operation of other electronic equipment within certain distance.
- **Medical equipment interference** UWB Tag contains components and radios that emit electromagnetic fields. UWB Tag has certain coverage of radio frequency bands. These electromagnetic fields may interfere with medical equipments, such as pacemakers and defibrillators etc. Consult your physician and medical equipment distributor for specific information related to your medical equipment and confirm whether you need to maintain a safe distance between the medical equipment and the UWB Tag and the UWB Tag charging cable. Should you have any suspects or doubts, you are recommended not to use this product (including all parts and all accessories).
- **Explosive and other atmospheric conditions** Charging or using UWB Tag in any environment with explosive risk is strictly prohibited. UWB Tag functionalities might be damaged or impaired when exposed to environment with high concentrations of industrial chemicals. Obey all

- UWB Tag charging cable and power adapter. When charging, remember to place the UWB Tag. UWB Tag charging cable and power adapter in a well-ventilated environment. Using a damaged UWB Tag charging cable or charging when humidity is high may cause fire, electric shock, injury or damage to the UWB Tag and other properties.
- Always keep the ports of UWB Tag and power adapter clean.
- Without adult's monitoring, do not let children charge the UWB Tag.
- As long as the applicable surface temperature standards and limits are met, UWB Tags, UWB Tag charging cables, and power adapters will function normally. However, please still try to avoid continuous contact with hot surfaces even within the indicated limits as this may lead to discomfort or injury. After the power supply is plugged in, the UWB Tag, the UWB Tag charging cable and the power adapter will gradually heat up, but will not break the indicated limits.
- Avoid wearing a UWB Tag when charging, or allowing your skin to contact the UWB Tag, UWB Tag charging cable or power adapter during long time while charging. For example, when the UWB Tag is charging, or when the UWB Tag charging cable, or the power adapter is powered on, do not lie on it or place it under a blanket or pillow etc. Please be especially careful if your body has conditions that affect your ability to sense heat. If the temperature of the UWB Tag makes you uncomfortable, please remove it.
- **【Maintenance】**

- relevant signs, instructions and restrictions.
- **Choking hazard** Some UWB Tag accessories may present a choking hazard to babies or children. Keep them out of reach of babies and small children.
- **Skin sensitivities** Some people may experience allergies or reactions when their skin is touched by certain materials used in jewelry, watches or any other wearable items. This can be caused from allergies, environmental factors, extended exposure to irritants or other causes. If you have past experiences from skin sensitivities, please take special care when wearing UWB Tag. You might be more likely to experience irritations. Keeping UWB Tag clean and dry could reduce the possibility of skin irritations.
- **Equipment safety** The UWB Tag contains high-sensitivity electronic components. Falling, burning, puncturing or rolling could cause equipment damage.
- **Ultra-wideband (UWB) equipment** The use of ultra-wideband (UWB) equipment in aircraft is prohibited. Ultra-wideband (UWB) can be turned off through the corresponding software. The use of UWB has to be compliant with the relevant regulations from the national radio management authorities. If the national spectrum plan changes, the UWB function of the equipment may not continue to function.
- **Auxiliary ranging** This equipment is only used to assist social distancing. There could be some systematic errors in the actual use. Any output from usage of this equipment cannot be used as solid rationale for any

- medical assessment / evaluation or any other confirmation.
- **Not a medical equipment** The UWB Tag is NOT designed as a medical equipment and should not be used as a replacement for professional medical assessment or judgement. It is not intended for use in the diagnosis of disease or other medical conditions, or in the cure, mitigation, treatment, or prevention of any medical / health conditions or disease. Please consult your healthcare provider all questions related to your health before considering use the UWB Tag.
- **Avoid radio frequency conflicts** WiFi 6E uses the 5925MHz-7125MHz frequency band, which covers the frequency band for this equipment. Using together with WiFi 6E equipments may interfere with this equipment and may not work properly.

- Disposal and Recycling Information**
- **UWB Tag disposal and recycling.** Your UWB Tag should not be disposed of with household waste. Dispose of your UWB Tag in accordance with local environmental laws and guidelines.

- European Union—Disposal Information**
- The symbol above means that according to local laws and regulations your product and/or its battery shall be disposed of separately from household waste. When this product reaches its end of life, take it to a collection point designated by local authorities. The separate collection and recycling of your product and/or its battery at the time of disposal will help conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment.

- BRASIL – INFORMAÇÕES SOBRE DESCARTE E RECICLAGEM**
- O símbolo acima indica que este produto e/ou sua bateria não devem ser descartados no lixo doméstico. Quando decidir descartar este produto e/ou sua bateria, faça-o de acordo com as leis e diretrizes ambientais locais.

- NFORMACIÓN SOBRE ELIMINACIÓN DE RESIDUOS Y RECICLAJE**
- El símbolo de arriba indica que este producto y/o su batería no debe desecharse con los residuos domésticos. Cuando decidas desechar este producto y/o su batería, hazlo de conformidad con las leyes y directrices ambientales locales.

- Statement Of Conformity**
- **EU Compliance**
- Hereby declares that this wireless equipment is in compliance with Directive 2014/53/EU,2011/65/EU.

- **FCC compliance statement**
- Please take attention that changes or modification not expressly approved by the party responsible for compliance could void the user's authority to

- operate the equipment.
- This equipment complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
- (1) This equipment may not cause harmful interference, and (2) This equipment must accept any interference received, including interference that may cause undesired operation.

- Changes or modifications to this product not authorized by Seller could void the electromagnetic compatibility (EMC) and wireless compliance and negate your authority to operate the product.
- This equipment is approved under Part 15.519 for handheld use.
- The use of antennas mounted on outdoor structures, e.g., antennas mounted on the outside of a building or on a telephone pole, or any fixed outdoors infrastructure is prohibited. Antennas may be mounted only on the hand held UWB equipment.
- UWB equipments may not be employed for the operation of toys.
- Operation onboard an aircraft, a ship or a satellite is prohibited.

- Limited Warranty**
- **【Warranty information】**
- Hereby declares that this wireless equipment is in compliance with Directive 2014/53/EU,2011/65/EU.

- Warranty does not apply to:
- Surface damage, such as scratches, dents and depressions.

- medical assessment / evaluation or any other confirmation.
- **Not a medical equipment** The UWB Tag is NOT designed as a medical equipment and should not be used as a replacement for professional medical assessment or judgement. It is not intended for use in the diagnosis of disease or other medical conditions, or in the cure, mitigation, treatment, or prevention of any medical / health conditions or disease. Please consult your healthcare provider all questions related to your health before considering use the UWB Tag.
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- Consumables such as batteries, except if the product is damaged due to defects materials or manufacturing processes.
- Damage caused by accident, abuse, misuse, inflow, flooding, fire or external factors.
- Damage caused from repairing by non-tingoal authorized warranty personnel.
- Damage caused by modification or alteration of the Product without the seller's written consent.
- In addition, the seller reserves the right to refuse the warranty application for products or services obtained and/or used in violation of the laws of any country. This warranty provides you with specific legal rights, but this right may vary from region to region. The seller will not be responsible for any accidental, special, indirect or derivative damage (which may result from use, misuse, don't know how to use or product defects). The seller reserves the right to overhaul or replace (new products or newly overhauled replacement products) equipment or software. This is the sole and exclusive remedy for any breach of the warranty terms. Please consult your local seller's authorized seller when applying for warranty service.

- **【Warranty card】**
- Product name (including spare parts)
- Limited Warranty period
- UWB Tag (as entire product)
- 1 year
- Accessories (e.g. adapter, charging cable)
- 5% ~ 95% No warranty

- * Non-human factors, one-year warranty period; the cost of logistics (shipment) shall be borne by the users.
- 【Note】** If your equipment is purchased through a local seller, please contact the local seller for the warranty service acquisition method. If your equipment was purchased directly by the manufacturer, please get in touch via.

- Disclaimer: The UWB Tag is not intended to be used as a treatment for Covid 19 and also not as a protective equipment against contracting COVID-19. The UWB Tag is a social distancing equipment, can only be used in the context of social distancing and contact tracing between persons, any usage not related to social distancing are strictly prohibited. Depending on the design of usage location / environment and the way how it is used, there could be false positives due to tissue, walls, structures or other factors and false negatives due to bodily interference, electromagnetic interference, or other factors. Tingoal warranties that the UWB Tag performs to the requirements listed on the UWB Tag spec sheet. All sales are final.

- STATEMENT ON INTELLECTUAL PROPERTY RIGHTS**
- Copyright ©TSINGOAL (Beijing) Technology Co., Ltd. All rights reserved. All parts of the Manual belong to TSINGOAL (Beijing) Technology Co., Ltd., including text, pictures and graphs, etc. Without written permission, any organization or individual cannot extract, copy, translate or modify the Manual in whole or in part in any form. Unless otherwise agreed, the Company does not make any express or implied statement or guarantee on the Manual.

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- "清研讯科", "TSINGOAL", "LocalSense" and other trademarks, identifications and trademark combinations are registered trademarks of TSINGOAL (Beijing) Technology Co., Ltd.

- RESPONSIBILITY STATEMENT**
- The product is an auxiliary tool, which cannot replace any safety management system, measure and rescue solution for hazardous operation or supervision system and measure for operation management. Please do not reduce safety awareness while using the product, and timely charge the product and check its operation state when the power is low.

- Measurement data and results of this product are for reference only, shall not be served as the basis for diagnosis and treatment. Products described in the Manual (including hardware and software) are all provided in the "current situation" within the maximum range allowed by laws, and there may exist defects, errors or faults. The Company does not provide express or implied guarantee in any form, or compensate for any special, incidental, accidental or indirect damages caused by using the Manual or products of the Company.

- The Company does not undertake any responsibility for any damage to personal or property interests of one's own or third party caused by failing to use the product according to the Manual and warning statement.
- The Company does not undertake any responsibility for any product operation abnormality, information disclosure or other problems caused by network attack, hacker virus infection or other unknown risks due to Internet access during product use.
- The product promoting pictures and advertisements are used only for instruction and promotion. Physical products prevail in all cases.

- The data in the Manual are all theoretical values obtained by the internal lab of TSINGOAL in specific testing environments. However, there may exist differences due to individual product differences, software version, using conditions and different environmental factors, and actual using conditions shall prevail in all cases.
- The Company will not send special notice in the case of being necessary to modify and adjust the above. For more information , please contact Info@tsingoal.com.