

IVF-BT23 LED Bluetooth Light



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Catalogu

1. Product Overview	3
2. Product Features	3
3. Product specifications	3
4. System application block diagram	4
5. Product power consumption	5
6. Agreement	5
7. Notes	5
8. Environmental protection instructions	6
9. Warranty Service Terms	6
10. Product discontinuation notice	7
11. Contact Information	7
Frequently Asked Questions and Answers:	8

1. Product Overview

IVF-BT23 colorful guide light is a 2.4G custom electronic reminder light with colorful light reminder. It has 6 colors, multiple RGB headlight combinations, transparent shell or red shell, high brightness, and can quickly find items in item management (the items being found have luminous prompts). It is suitable for application areas such as Cainiao Station shelves, supermarket warehouse search, and large warehouse cargo search.

2. Product Features

Product application design

- ◆2.4G low power consumption design, standby power consumption: 49.3uA;
- ◆Adopt transparent shell, multiple colors are clearly visible
- ◆Adopt special sealing glue, waterproof level reaches IP64;
- ◆Overall weight is 88 grams;
- ◆2 No. 7 batteries, capacity 1000mA, can work for 24 months (light up more than 10 times a day/5 seconds each time);
- ◆Battery can be replaced (it is recommended to use Nanfu battery, large capacity);

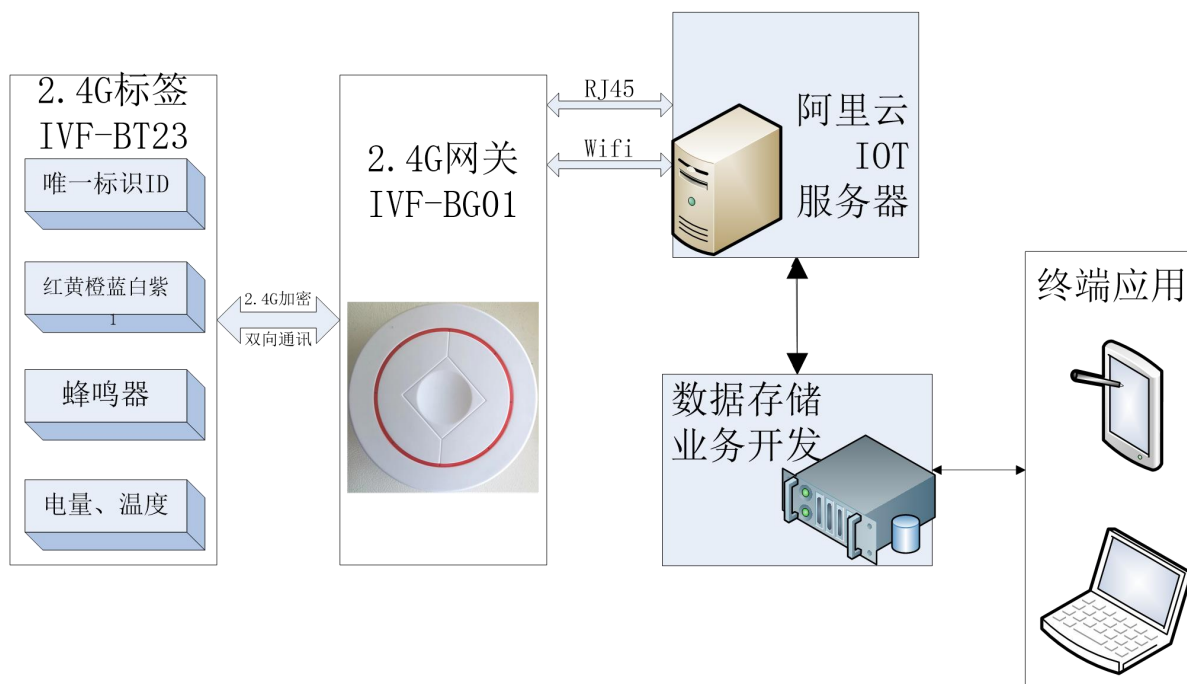
3. Product specifications

Product Name	2.4G Bluetooth Light
Product Model	IVF-BT23
Product Size	φ 70mm*44mm(H)
Product Weight	88g
Battery	2 AA batteries
Communication Protocol	AES encryption private
Frequency	2.4035GHz
Transmit power	Default 0dBm
Installation	keyhole
Housing Material	PC
Communication range	20-50m(Depending on the environment)
Working hours	24 months (battery life is calculated based on the frequency of

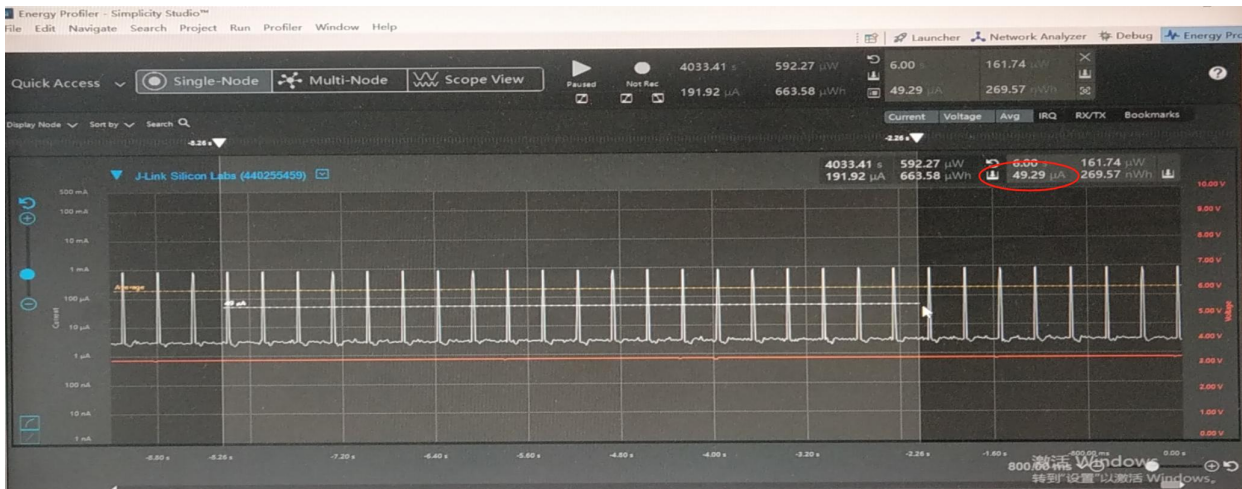
	lighting by the customer)
Storage temperature	0~65℃
color	White and transparent (customizable)

4. System application block diagram

感知层 ———▶ 传输层 ———▶ 服务层 ———▶ 应用层



5. Product power consumption



Standby power consumption	49.3uA
Red light on	12.38mA
Buzzer (optional)	15mA

Example: Assuming the red light is on 20 times a day, 5 seconds each time, its lifespan is calculated as follows

Daily standby power consumption: $49.3\mu A * 24h = 1183\mu A$

Daily power consumption when the light is on: $12.38mA * (5 * 20 / 3600)h = 344\mu A$

Battery life: $1000mA / (1183 + 344)\mu A = 654$ days

6. Agreement

This agreement is for users who want to develop their own platform by their R&D team. If you want to get the agreement for this product, please contact our sales team. This agreement can only be disclosed after the confidentiality agreement is signed and the order is placed. If the user does not want (or cannot) sign a confidentiality agreement, then only use a third-party platform or product, please consider it seriously.

7. Notes

In order to use this product safely and effectively, please read the following before use.

- Non-professionals are strictly prohibited from disassembling the shell to prevent product damage.
- The product contains batteries, which are strictly prohibited from being thrown into fire or used in flammable and explosive environments to prevent battery explosion.

8. Environmental protection instructions

◆ Please do not put discarded batteries together with general household garbage. In areas where there are corresponding regulations for the disposal of used batteries, please follow the relevant regulations of the local management department and contribute to environmental protection.



9. Warranty Service Terms

1. Warranty Service Scope

● Warranty products:

In order to comply with the relevant laws and administrative rules of the People's Republic of China, this warranty service is a limited warranty and is only applicable to products sold by Xiamen Innov Information Technology Co., Ltd. (hereinafter referred to as Innov) or authorized dealers.

● Warranty period:

From the date of purchase to the date of shipment, the product can enjoy warranty service if it fails under normal use within the following period. If the customer needs warranty service, he/she needs to provide the purchase contract, receipt, SN number of the faulty machine, and description of the fault problem to prove that the product enjoys a one-year warranty from the date of purchase.

● Non-warranty scope:

- a. Failure to provide a valid purchase contract, receipt or certificate (including the content of the purchase contract, receipt has been altered, or does not match the actual product, etc.)
- b. Surface damage, such as scratches, dents or depressions.
- c. Batteries and other consumables, except for those caused by material or workmanship defects.
- d. Damage caused by accident, abuse, misuse, fire or other natural disasters or due to improper use or unreasonable maintenance (including damage caused by external force)
- e. Repair, modification or change by maintenance personnel not authorized by Innov may cause permanent damage to the product.

2. Description

● This warranty clause provides you with specific legal rights, but its rights may vary due to different national regulations, and Innov does not exclude, restrict or suspend other legal rights stipulated by national laws, so some of the following restrictions may not apply to you.

● To the extent permitted by law, this warranty clause is exclusive and replaces all other

express or implied or statutory warranty conditions, including for a special purpose, statutory provisions or any other circumstances, including but not limited to any liability derived from the merchantability or fitness for a particular purpose of the product. In addition, Innov will not be responsible for any accidental, special, indirect or consequential damages (which may arise from use, misuse, lack of use or product defects).

● For products or services obtained and/or used in violation of any national law, Innov reserves the right to refuse warranty applications.

● If the product is sold through auction websites or other products not sold by Innov or authorized dealers, it is not covered by this warranty service.

● If the product is not covered by the warranty after testing, Innov will repair it after obtaining the customer's consent and quoting the fee. For the repaired fault, Innov provides a 90-day warranty for the same functional fault.

● Innov reserves the right to repair/replace products or software. Innov will use original spare parts for repairs in accordance with standard procedures; in the event of unrepairable conditions, some products will be repaired by module replacement or whole machine replacement. In the event of a shortage of repair materials or product discontinuation, the same product of equal value will be provided for replacement during the warranty period according to the depreciation of the product, or an upgrade will be provided with the customer's consent and the price difference will be charged; outside the warranty period, no repair service will be provided. The replaced faulty parts belong to Innov.

3. Notes

● Before applying for product warranty, customers should back up all important personal data in advance and only provide products that need warranty. During the repair process, the data in the product may be lost and cannot be restored. Innov does not provide data backup nor guarantee the consistency of related settings before and after repair.

10. Product discontinuation notice

◆ First of all, thank you very much, dear customer, for your long-term patronage and support for the products of Xiamen Innov Information Technology Co., Ltd. Innov would like to express our most sincere gratitude! It may be due to the upgrade or discontinuation of the model of the spare parts supplier, or the company may upgrade and update the product normally to better adapt to the development of the market and technology and provide you with better products or services. Therefore, the original old model products will be discontinued. Before the discontinuation of production, Innov will send a discontinuation letter one year in advance to notify Innov's customers by email, except for force majeure (such as natural disasters, chip crisis, epidemic, etc.).

11. Contact Information

Email: sales@rfidtagworld.com

Tel: +86 592 3136888

Address: Xminnov IOT Industrial Park, No.943, Tonglong second road, Tong'an District, Xiamen

Frequently Asked Questions and Answers:

<p>1.How many concurrent luminescence can be supported?</p>	<p>The server sends 40 luminous tags at a time. If there are more than 40, the server will send the instructions twice separately, or deploy multiple gateways to achieve more concurrency.</p>
<p>2.What is the farthest luminous distance?</p>	<p>The straight line unobstructed distance between the gateway and the tag is 20 to 50 meters, and the visual distance of the tag light is 10 to 30 meters (light yellow, strong red)</p>
<p>3.Does the illumination of multiple tags affect the reading distance?</p>	<p>The reading distance of the tag is mainly affected by the environment and has nothing to do with the number of tags.</p>
<p>4.How long does it take to light up a lamp? How much power does it consume?</p>	<p>The average time it takes to light a lamp is 330mS, the standby power consumption is 63uA, and the power consumption when the lamp is on is about 15mA</p>
<p>5.How is battery life calculated? Is it based on the number of times the light is turned on?</p>	<p>It can be calculated based on standby power consumption * time + lighting power consumption * lighting duration</p>
<p>6.What should I do if the light is missing?</p>	<p>If the light is turned on successfully, the server will be informed. If it is not turned on successfully, the server will resend the failed light-up.</p>