



Make Enterprise Material Management Simpler, Smarter, and More Efficient



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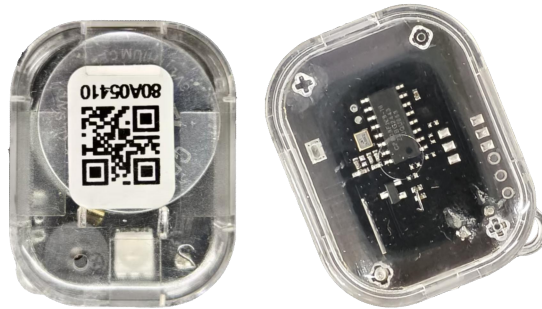
Smart Colorful LED Location Label

Model: ZSL-PT01

Version: V3.0

Date: June 02, 2026

Product Image



Product Overview

The ZSL-PT01 Smart Colorful LED Location Label is a 2.4G wireless smart sound and light indicator label. It features an integrated transparent housing with a high-brightness RGB integrated light source, offering 6 standard light colors. The device provides high brightness, clear color rendering, and responsive performance. It supports wireless signal networking and parameter customization, and can interface with various warehouse management and sample management systems, receiving remote commands and triggering light alerts.

Relying on stable 2.4G wireless transmission technology, it offers strong anti-interference capability and low transmission delay, maintaining stable linkage even with dense label deployment. With visual light indication, it can complete location guidance, material retrieval, status alerts, inventory reminders and other tasks, significantly improving material search efficiency and management standardization. Suitable for industrial warehouses, automated dense storage, scientific laboratory sample cabinets, reagent cabinets, archive cabinets and other intelligent management scenarios requiring material positioning and status alerts.

Key Features

- Adopts 2.4G low-power design, standby current: 63 μ A
- Equipped with transparent housing, multi-color LED display is clear and eye-catching



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- Uses special sealing adhesive, protection level reaches IP54 waterproof standard
- Label surface can be affixed with QR codes, physical address (MAC) and other identifiers
- Total weight only 20g
- Equipped with low-temperature button cell battery, capacity 1000 mAh; based on daily lighting of 10+ times, 5 seconds each, battery life up to 18 months
- Supports battery replacement

Technical Specifications

Item	Specification
Product Name	Smart Colorful LED Location Label - Mini
Model	ZSL-PT01
Dimensions	38(L) × 30(W) × 13mm(H)
Weight	20g
Battery	CR2477
Communication Protocol	AES Encrypted Private Protocol
Frequency	2.4GHz
Transmit Power	Default 0dBm
Mounting Method	Adhesive / Clip / Magnetic
Housing Material	PC
Communication Range	20-50m (depending on environment)
Operating Time	18 months (actual battery life depends on lighting frequency)
Storage Temperature	0 ~ 65℃
Color	White Transparent (Customizable)

Notes

For safe and effective use of this product, please read the following before use.

- Non-professionals are strictly prohibited from disassembling the enclosure to prevent product damage.
- This product contains batteries. Do not dispose of in fire or use in explosive environments to prevent battery explosion.