

# Pick To Light System

## ---SETP\_Label\_V24

Pick to Light

E-commerce  
Warehouse



Intelligent  
Manufacturing



Intelligent  
Warehousing



Dalian Sertag Technology Co.,Ltd

# Innovation Point



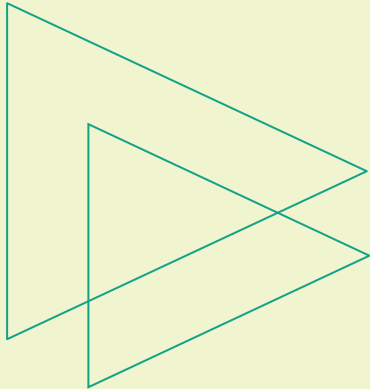
- 4.2 inch e-ink screen display
- Wireless communication
- Key and three-color high-lighted LED indicator
- 400\*300 dot matrix screen
- Built-in battery powered, rechargeable (TypeC interface)
- DIY interface supports text/barcode/QR code
- Ultra-low power consumption

# Summary of picking system

The electronic label picking system is a logistics auxiliary operation system developed using advanced electronic technology and communication technology. It is usually used in the sorting process of warehousing or modern logistics centers. It has the characteristics of fast picking speed, high efficiency, low error rate and paperless , standardized operating characteristics. As an advanced operating method, the electronic label-assisted picking system is more efficient when used in conjunction with a warehouse management system (WMS) or other logistics management systems.

The electronic label picking system is a set of electronic equipment installed on the shelf storage space. It is controlled by computers and software, and uses indicator lights or digital displays as auxiliary tools to guide pickers to complete their work correctly, quickly and easily.

# Characteristics and benefits



Improve operation speed and quality



Easy and fast deployment



Achieve paperless standardized operations



Reduce operator training time



Reduce labor costs, management costs, etc.

# Electronic Pick Tag

Receive and analyze the data information sent by the router, make corresponding instructions, and click the button to complete the picking.

- 4.2 inch e-ink screen
- Comes with 3 buttons
- The label ID code is displayed on the back
- Wireless communication 868M, frequency hopping communication
- Communication rate 200K/50K
- Covering a communication radius of more than 30 meters
- Multi-color LED highlight indicator
- Resolution 400\*300, support character, bar code, two-dimensional code display
- Dimensions: 124\*90\*12mm
- Two power supply options: Built-in battery power, rechargeable (TypeC interface)
- Custom two-way communication protocol, safe and reliable
- Screen display area: 84.8\*63.6mm
- Interface protocol: HTTP & Json



Model: SETP\_Label\_V24

# Electronic Pick Tag

## SETP\_Label\_V24

<b>Model</b>	SETP_Label_V24
<b>Dimension</b>	124x90x12mm (without mounting support)
<b>Screen Size</b>	4.2 inch
<b>Display technology</b>	E ink
<b>Active display area (mm)</b>	84.8(H) x 63.6(V)
<b>Resolution</b>	400*300
<b>Pixel Density</b>	120dpi
<b>Display Technology</b>	Full Graphic E ink Display
<b>Pixel Color</b>	Black & White
<b>Case Color</b>	White & gray
<b>Button</b>	3
<b>Indicator Light</b>	3
<b>Working Temperature</b>	0~50°C
<b>Operating Frequency</b>	868MHz
<b>Viewing Angle</b>	Nearly 180°
<b>Displayable content</b>	Text/Picture/Barcode/QRcode
<b>Power</b>	Battery Power
<b>Battery</b>	3000mAh(CR2450*4),Rechargeable(Type C)
<b>Battery Lifetime</b>	1-2year (20 times per day)
<b>Communication Mode</b>	Wireless
<b>Compliance</b>	CE, RoHS
<b>Wireless Firmware Update</b>	Yes
<b>Template design DIY</b>	Yes
<b>Communication equipment</b>	Controller: SETP_Router_V1.4/ SETP_Router_V1.2

# Button Description

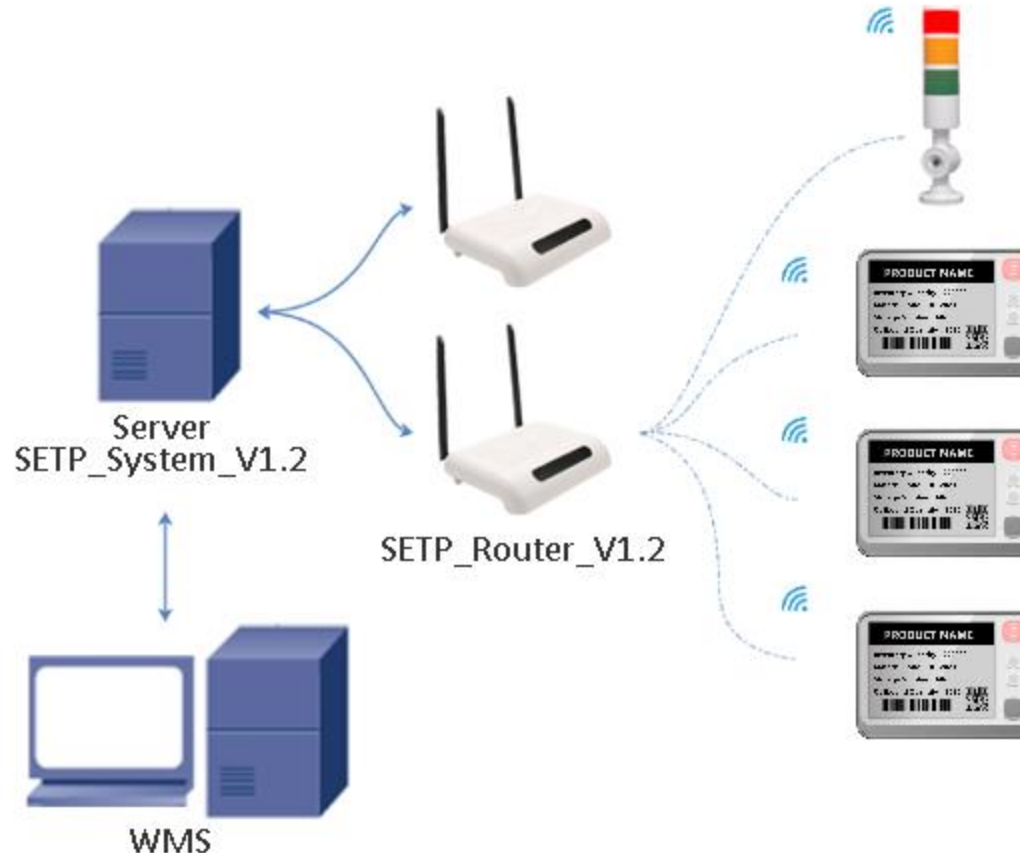
**Registration is successful:** the indicator blinks green to red, and rssi: -xxdB is displayed, xx is greater than 0

**Registration failure:** The green light does not turn red, indicating rssi: 0dB



Bottom right + top right  
Combination key  
Trigger registration

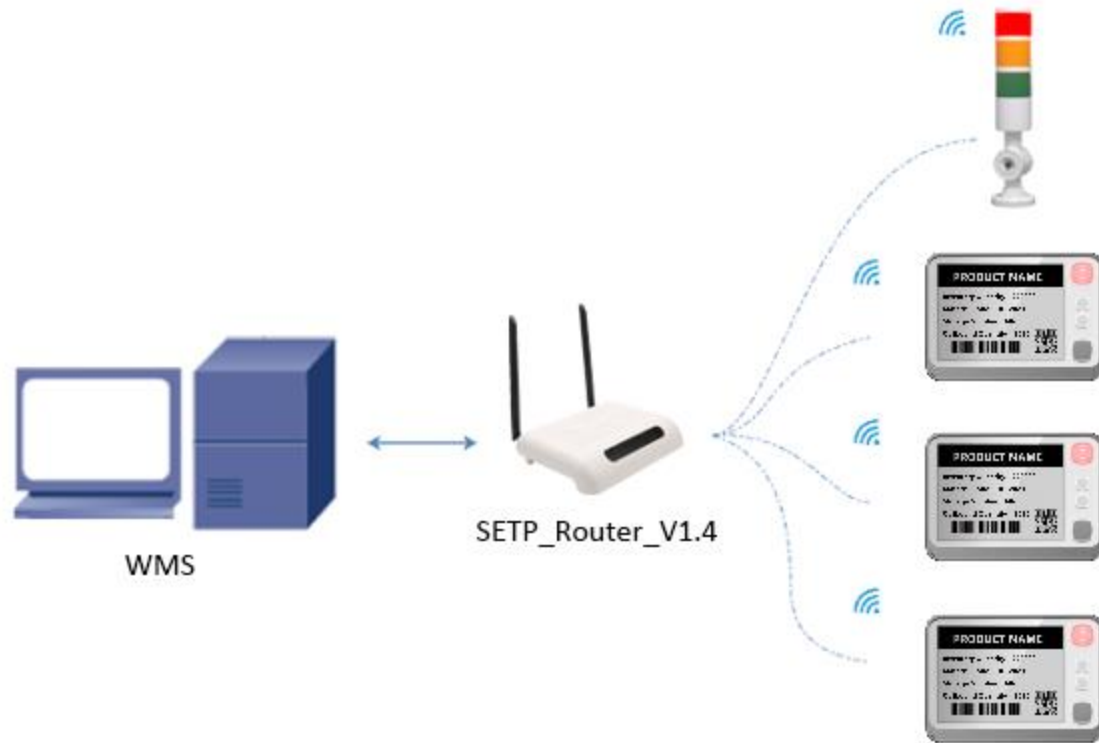
# System Structure V1.2



The electronic label picking system sends instructions through a PC or scanner, forwards them through a router, and controls the LED lights or screens on the electronic labels to guide the pickers to accurately and quickly pick the corresponding goods at the designated location.



# System Structure V1.4



Note: The V1.4 version of the base station has a built-in server program. Users only need to send operating instructions to the base station to realize data transfer, making it easier to use.

# Power Supply Type

Built-in battery powered, rechargeable (TypeC interface) :



# Installation Method

Magnetic fixed installation:



# Physical Display



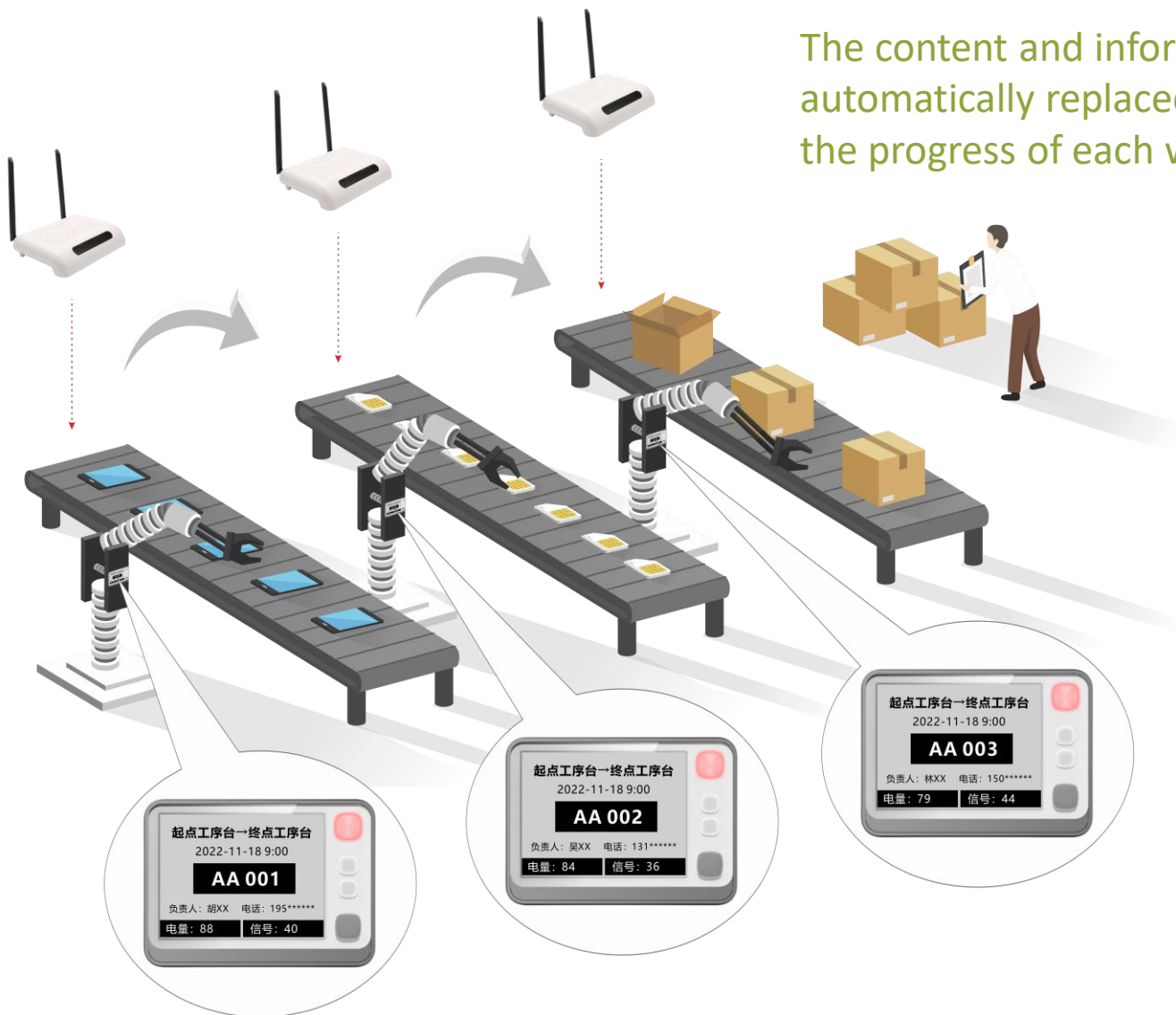
Front



Reverse side

# Industry Kanban

The content and information can be automatically replaced according to the progress of each workbench.



# Router

Receive the operation instructions issued by the PC, analyze them and then send them to the electronic tag through RF.

- Wireless communication distance 30m
- Wireless communication rate 200kbps
- Network communication rate 10/100 Mbps
- Custom two-way data communication protocol to ensure data transmission speed and accuracy
- There is no upper limit for covering electronic labels
- Supports synchronization of multiple routers
- Parallel communication, safe and fast
- Omnidirectional transmission, no dead ends
- Support online software upgrade
- Operating system: linux
- Supports POE power supply or external DC12V power supply



Tag controller

**Model: SETP\_Router\_V1.2**

The V1.2 base station has an independent routing function and needs to cooperate with the label server.

**Model: SETP\_Router\_V1.4**

The V1.4 version base station comes with its own server program and can directly accept instructions.

# Tower Light with Buzzer

Wirelessly receive the data information sent by the router and analyze it, make corresponding instructions and cooperate with the picking lane prompts.

- Used with label picking
- All three lights (red, yellow and green) can be controlled independently
- Wireless communication 868M, frequency hopping communication
- Communication rate 50K
- Covering a communication radius of more than 30 meters
- Multi-color LED highlight indicator light
- 24V external DC power supply, maximum current <0.2A
- Built-in buzzer, controllable by command

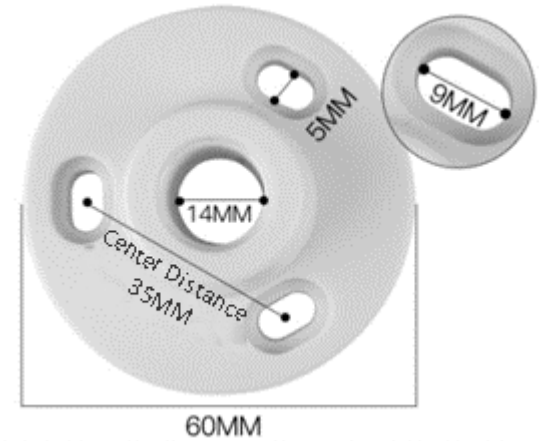
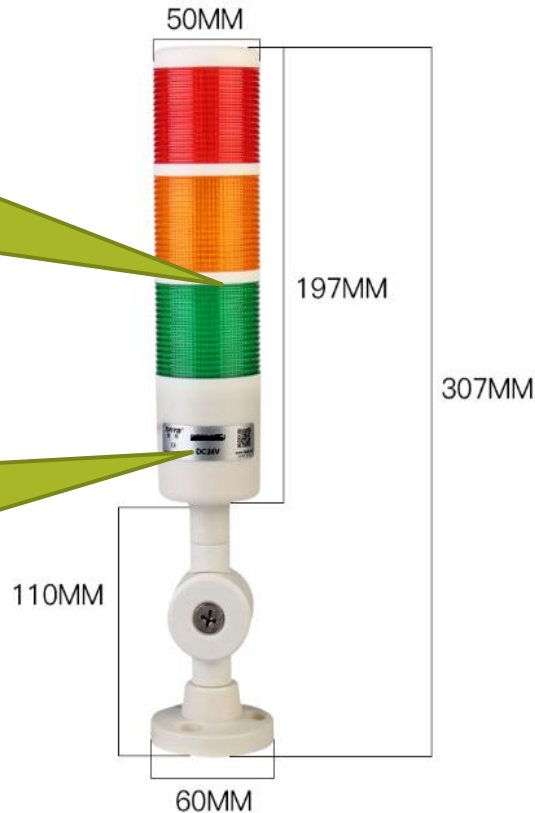


**Tower Light with Buzzer**  
**Model: SETP\_Label\_V9**

# Tower Light with Buzzer

All three lights can  
be controlled  
independently

Magnetic  
proximity  
triggers  
registration



**DC5.5 \* 2.1**  
**Power supply DC24V, <0.2A**



# Manual

**Initial:** Set the server and label parameters

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**Step 1:** The customer sends the picking information to the label server

**Step 2:** The server parses the command requirements and wirelessly lights up the tunnel lights and tags

**Step 3:** Pick items according to the illuminated label and press the confirmation button to turn off the light, and the screen content is updated with the result after the operation.

# System Functions

- Supports tag registration usage
- Single light lighting interface
- Light up in batches
- Light up result query
- Button feedback
- Tag inspection
- Tag inspection result query
- Support online software upgrade
- Large coverage radius, unlimited number of nodes
- Intelligent routing and transmission, sufficient communication tolerance
- Rich and complete management background, the status of each device is under control

# Multifunctional Operation Interface

Through the background management interface, comprehensive management, control and operation of information are achieved.

- Multi-account management background
- Web-based software, you can remotely control tags by entering the URL
- Real-time viewing of base station and tag status
- Label display style template customization
- Import user product data table
- Quick screen refresh and lighting operations
- Simple docking interface (HTTP & Json)
- System software supports cloud and local private server deployment

## Contact information

# Dalian Sertag Technology Co., Ltd

*Experience the power of a solution that's uniquely yours. Let's collaborate and create a tailor-made pick to light system that transforms the way you work.*

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