# Pick To Light System ---SETP\_Label\_V75

Pick to Light

E-commerce Warehouse



Intelligent Manufacturing



Intelligent Warehousing







## **Innovation Point**

- 7.5 inch e-ink screen display
- Wireless communication
- 800x480 dot matrix screen
- Polymer batteries last a year on a single charge
- 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.



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## **Electronic Pick Tag**

Receive and analyze the data information sent by the router, make corresponding

instructions, and click the button to complete the picking.

	7.5	inch	E-ink	screen	(black	and	white)
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- 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

Support character, bar code, two-dimensional code display

Dimensions: 180\*130\*13mm

Resolution: 800\*480

Power supply: Polymer battery 3000mAh(Type-C interface charging)

Custom two-way communication protocol, safe and reliable

Screen display area: 163.2(H) \* 97.92(V)

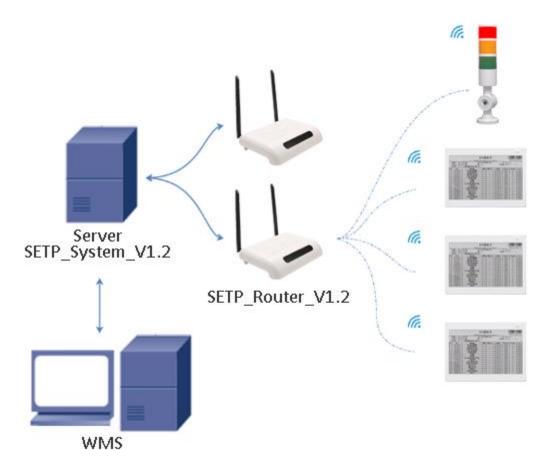
Interface protocol: HTTP & Json

831689	LW221104	III.	Notice	配单 () Picking		SF SFS(Set-Par		
11	8922 2-14 11:31:	CSN: FA23028 村间: 2023-03	\$1¢08	HH318866			混单号 RLM22110 斜区域 前内饰右 型+保置: TBL11A2	Ħ
VIE.	料车地址	线边T位	库位地址	推改工位	数型	学件名称	零件号	序号
318866	16	TBIIR	TB-R-A1-02	1	1	安全带高度调整器	3090650386	1
318866	24	TB60L	TB-R-A1-03	1	1	风窗洗涤壶加注管	3090708603	2
318866	21	TB46E	TB-R-A1-06	1	1	前排右侧安全带总成	3090708613	3
318866	3	TB48E	TB-R-A1-08	1	1	空调右8柱地板风道	3092068543	4
318866	15	TB48E	TB-R-A2-02	1	1	风道温度传感器	3090575402	5
318866	9	TB52L	TB-R-A2-03	1	1	高音喇叭	3090678218	6
318866	33	TB54B	TB-R-A2-04	1	1	音频模块	2330325968	7
318866	21	TB46E	TB-R-A2-05	1	1	第二排连椅右侧安全带总成	2330325228	8
318866	19	TB17E	TB-R-A2-06	1	1	空调支撑架	3090648128	9
318866	4-1	TB29E	TB-R-A2-08	1	1	天窗右前排水管总成	3090734015	10
318866	31	TB16E	TB-R-A2-09	1	1	隔热垫安装支架本体	3092183271	11
318866	32	TB46L	TB-R-B1-01	1	1	職风水管支架	3090688669	12
318866	28	TB49E	TB-R-B1-02	1	1	膨胀水壶支架	3090703463	13
318866	36	TB52E	TB-R-B1-08	-1	1	变速箱垫片	3092081426	14
318866	3-2	TB48R	TB-R-B1-09	1	1	空调右时对接风道	3092068545	15
318866	15	TBISL	TB-R-B2-03	1	1	推地。纸	3090663119	16.

Model: SETP Label V75



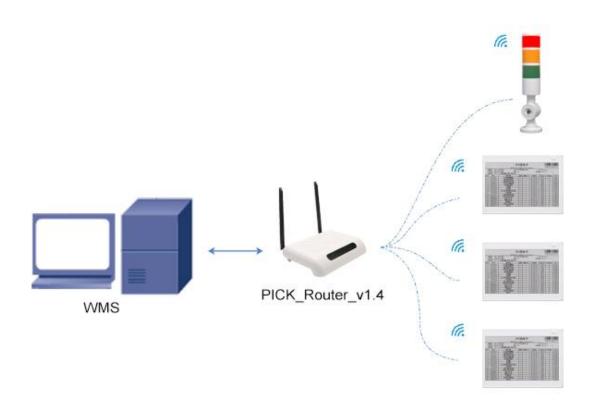
## **System Structure V1.2**



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 polymer lithium battery, capacity 3000mAh

Charging current: 5V 1A





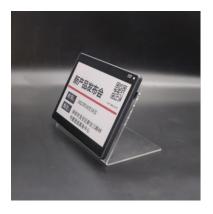
## **Installation Method**

Attach the support
 Desktop stand













# **Physical Display**

	SPS拣配单					RL#221104831689			
SFS(Set-Part-Supply) Ficki 基理學号: RLE221104831689					CSM: FA23028922 打印財司: 2023-02-14 11:31:11				
序号	零件号	<b>季件名称</b>	数型	排配工位	库位地址	维边T位	料车地址	VINC	
1	3090650386	安全带高度调整器	1	1	TB-R-A1-02	TBIIR	16	318866	
2	3090708603	风窗洗澡壶加注管	1	1	TB-R-A1-03	TB60L	24	318866	
3	3090708613	前排右侧安全带总成	1	1	TB-R-A1-06	TB46E	21	318866	
4	3092068543	空调右8柱地板风道	1	1	TB-R-A1-08	TB48E	3	318866	
5	3090575402	风道温度传感器	1	1	TB-R-A2-02	TB48E	15	318866	
6	3090678218	高音喇叭	1	1	TB-R-A2-03	TB52L	9	318866	
7	2330325968	音频模块	1	1	TB-R-A2-04	TB54B	33	318866	
8	2338325228	第二排座椅右侧安全带总成	1	1	TB-R-A2-05	TB46E	21	318866	
9	3090648128	空调支撑架	1	1	TB-R-A2-06	TB17E	19	318866	
10	3090734015	天窗右前排水管总成	1	1	TB-R-A2-08	TB29K	4-1	318866	
11	3092183271	隔热垫安装支架本体	1	1	TB-R-A2-09	TB16E	31	318866	
12	3090688669	暖风水管支架	1	1	TB-R-B1-01	TB46L	32	318866	
13	3090703463	緊胀水臺支架	1	1	TB-R-B1-02	TB49E	28	318866	
14	3092081426	变速箱垫片	1	1	TB-R-B1-08	TB52R	36	318866	
15	3092068545	空调右B柱对接风道	1	1	TB-R-B1-09	TB48E	3-2	318866	
16.	3090663119	接地c线	1	-1	TB-R-B2-03	TB18L	15	31886	



Front Reverse side



## 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.

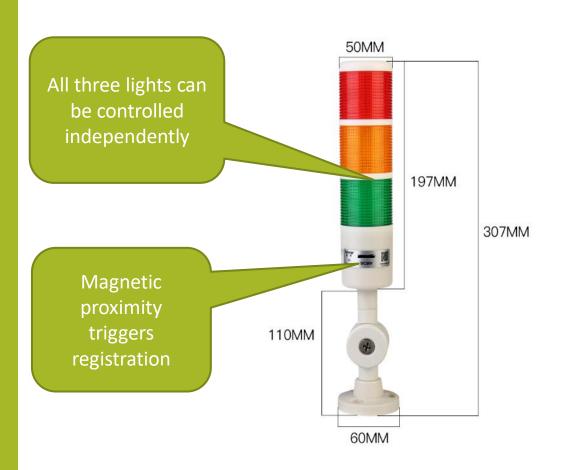
- Used with label picking
- All three lights (red, yellow and green) can be controlled independently
- Wireless communication 868M, frequency hopping communication
- Communication rate 50K
- Covering a communication radius of more than 30 meters
- Multi-color LED highlight indicator light
- 24V external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

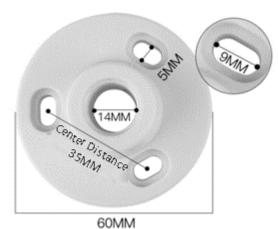


Tower Light with Buzzer Model: SETP\_Label\_V9



## **Tower Light with Buzzer**







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



### Manual

Initial: Set the server and label parameters

**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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