

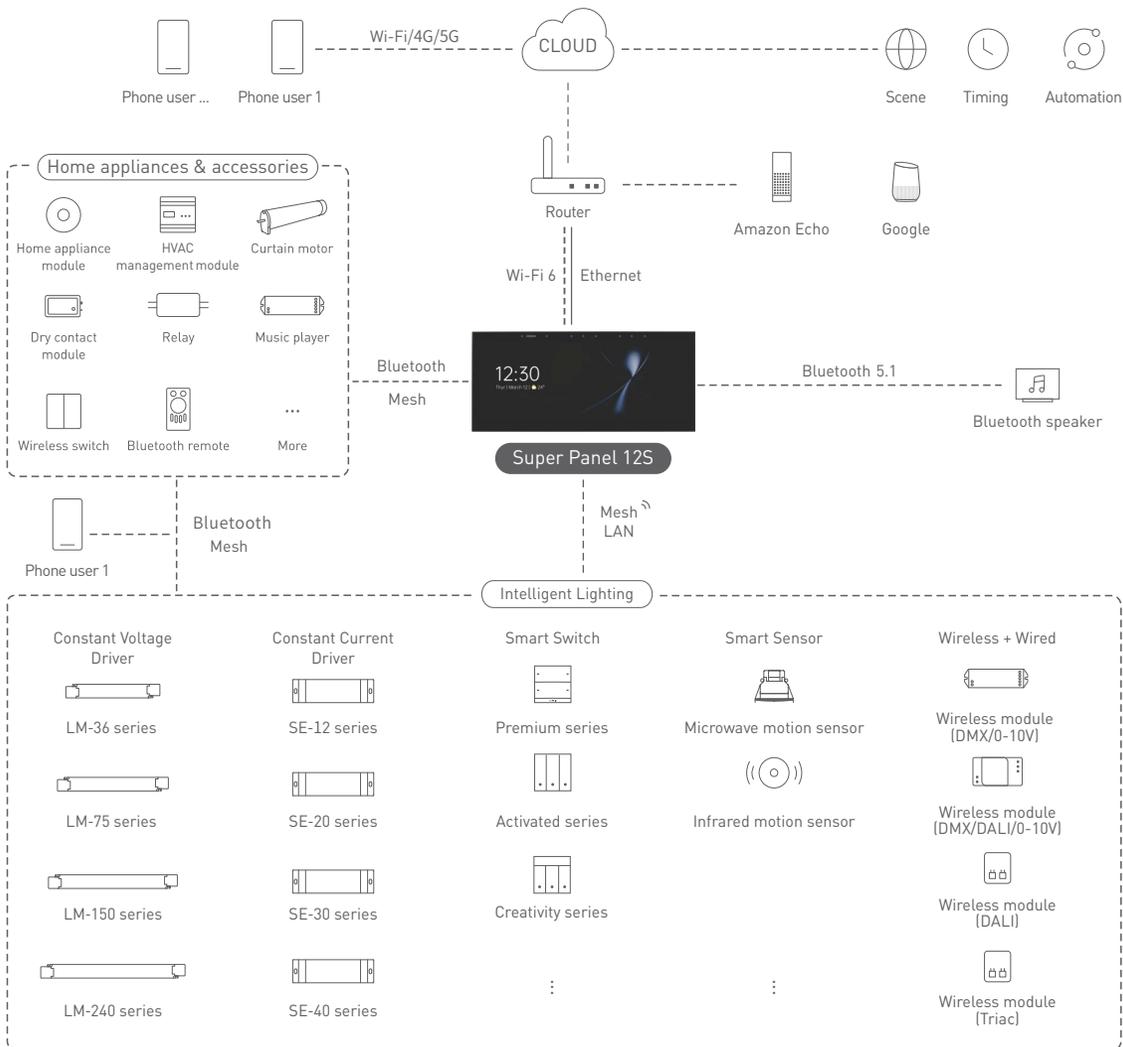
LTECH

Super Panel 12S

Manual

 Bluetooth®   RoHS

Application Diagram



Product Introduction

Super Panel 12S is a 12.3-inch central smart home control panel, featuring a large high-definition touch screen with 1920x720 resolution. It is compatible with dual-band Wi-Fi (2.4 GHz and 5.0 GHz Wi-Fi) that improves data transmission speed. Super Panel 12S can act as a 2 channel relay to directly control load lamps with max. 1200W in total. It supports connection with smart devices via Bluetooth 5.0 SIG Mesh, as well as with smart speakers via Bluetooth 5.1 protocol to achieve whole-house smart device linkage. Furthermore, it supports direct infrared home appliance connection and voice calls as well.

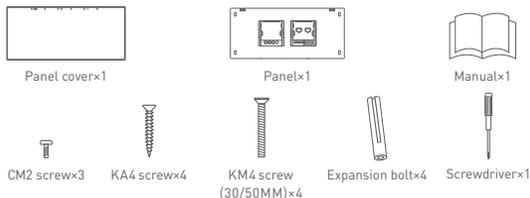
Super Panel 12S comes with a six omnidirectional microphone array and a built-in 2-in-1 light and proximity sensor that enables auto screen brightness adjustment, as well as auto screen wake up when nearby people approach it.

It combines touchscreen and App interaction. Preset multi-function scenes can be performed just by one tap. In addition to this, it supports local control without the network needed, which performs faster and more stably. It is installed in the 86 type junction box and three installation methods are optional to fit more application scenarios.

Technical Specs

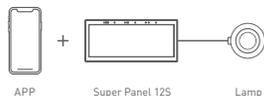
| | |
|-------------------------|--|
| Model | SP-GW-12S |
| Wireless network | Bluetooth 5.0 SIG Mesh, BLE 5.1, Wi-Fi 6 2.4G+5G |
| Wired network | Ethernet |
| Power supply | 100-240V~, 50/60Hz, Type-C cable powered, 12V=1.5A |
| Display | 12.3-inch FHD screen, 1920×720 resolution |
| Microphone | Six omnidirectional microphone array |
| Touchpad | Capacitive multi-touch screen |
| Speaker | AAC SLS speaker |
| Interface type | RS485, security ports |
| Materials | PC+V0 fireproof grade |
| Single load | LED$\leq 300W$, $\leq 600W</math>$ |
| Channel of load | 2Channels |
| Inrush current in loads | Max.65A@2ms |
| Working environment | -15°C-50°C, Humidity$\leq 85\%RH$ |
| Dimensions | L317×W141×H42.5(mm) |
| Package size | L360×W184×H65(mm) |
| Net Weight | 1100g |
| Junction box | 2-gang 86 type junction box |

Package Contents

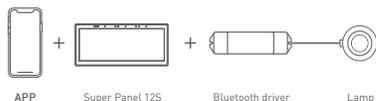


Recommended Applications

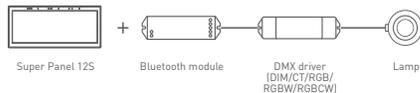
1. Connect Super Panel 12S to a traditional lamp and to the APP so as to intelligently control the lamp.



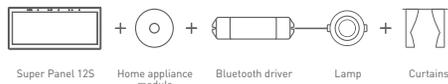
2. Connect Super Panel 12S to the APP to realize remote control (via 4G, 5G, Wi-Fi) + local control of the lamp.



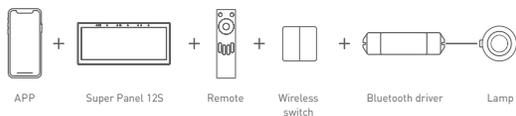
3. Super Panel 12S works with a Bluetooth LED module to realize wireless + wired control of the lamp.



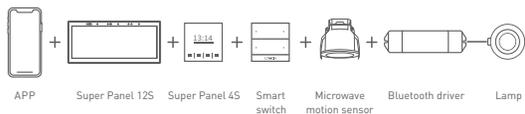
4. Super Panel 12S works with a home appliance module to control lamps, air conditioning, curtain motors and more devices, as well as to realize various automation.



5. Achieve multi-device control. The APP, Super Panel 12S, remote, and wireless switch can simultaneously control the lamp.

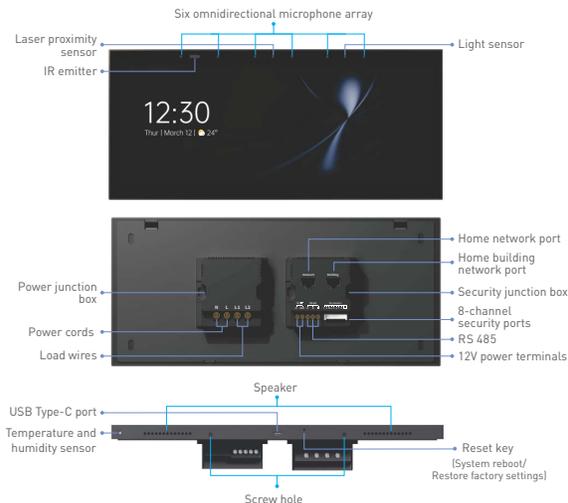


6. Whole house smart control system. Combine other smart gateways, smart switches, and microwave sensors to achieve voice intercoms, turning lights off when people leave, and other scene modes for whole house smart control.



7. More applications of smart control are waiting for you to set up.

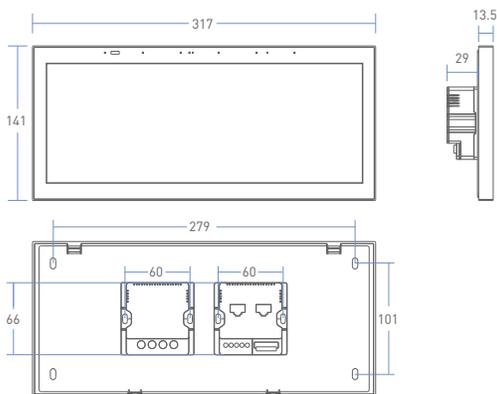
Product Overview



- * System reboot: Use an ejection pin to long press the reset key for 6s, and wait for the system to restart.
- Restore factory settings: Use an ejection pin to long press the reset key for 6s and release it until the LOGO is displayed on the screen. Within 30s, press the reset key again for 6s. When the system restarts, it means the device has been reset to factory defaults.

Product Size

Unit: mm



Installation Steps

1. AC -powered

- 1.1 Please be sure you're using a 2-gang junction box and the inner size of each junction box must be greater or equal to 72x72mm. Turn off the power at the circuit breaker first. Please ensure a flat wall surface to install and remove any concrete or corrosion that are inside the boxes. Trim each wire in the box to about 10cm. [If only one junction box is prepared for installation, you need to use a screwdriver to remove the security junction box on the right.]



1.2 Connect wires

Attach the live line to L socket of the panel, the null line to N socket and the load wires the lights to L1/L2 port. Make sure the wires are well connected to the switch terminals with no copper wire exposed. If necessary, insert a network cable into the network socket. [The protection device for the electronic switch cannot be greater than 35A]



Wire connection for 8-channel security ports

The 8-channel security ports [No.1-8] support connection to alarm devices and two ground ports are equipped. Note: When alarm devices are connected, there is no need to connect them in series.

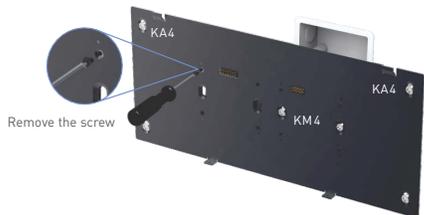
[For the specific power supply modes, please check the alarm device manuals]



3. Installation method

3.1 Install the power junction box

When your home doesn't need to connect with alarm devices or only one junction box is prepared in advance, please use a screwdriver to remove the security junction box first. Next mark the positions of the screw holes on the wall first and drill holes, then insert the expansion bolts into the screw holes. Place the KA4 screws into the bolts at the four corners of the panel frame, and secure the screws to the wall with a screwdriver. Next use KM4 screws to secure the power junction box to the wall box. Note: Make sure the panel frame is stable and won't appear crooked.



3.2 Install the power and security junction box

When you apartment or home supports connections to alarm devices or two junction boxes are prepared in advance, install the power and security bottom box. Mark the positions of the screw holes on the wall first and drill holes, then insert the expansion bolts into the screw holes. Place the KA4 screws into the bolts at the four corners of the panel frame, and secure the screws to fit the panel frame to the wall with a screwdriver; Next use KM4 screws to secure the power and security junction box to the wall boxes. Note: Make sure the panel frame is stable and won't appear crooked.



4. Snap on the panel cover

Slant the panel cover and snap the top cover to the panel frame. Then secure the panel cover to the frame from the bottom with CM2 screws.



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2. Type-C powered

Install on any desktop and power it with a power cord.



⚠ This product only supports the 12V $\bar{\bar{=}}$ 1.5A power cord and the PD power adapter.

Instructions to use Super Panel 12S

- ① Long press and drop the card widgets on the homepage to customize the combination the card widgets .
- ② Swipe down from the top of the screen to access the control center; swipe up to close it.



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App Operating Instructions

1. Register an account

1.1 Scan the QR code below with you mobile phone and follow the prompts to complete the app installation.



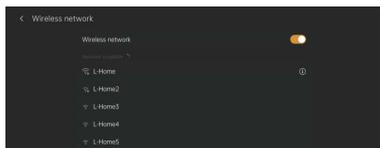
Scan and download the App

1.2 Open the App and log in or register an account.



2. Configure the Super Panel 12S

Power on the Super Panel 12S and wait for a while to start it up. Follow the page guidelines of the panel to connect it to the Wi-Fi. Once connected successfully, a QR code for the device will be displayed on the interface and you'll be able to complete the configuration.



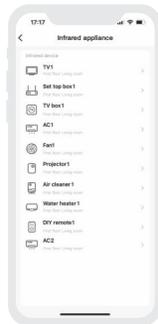
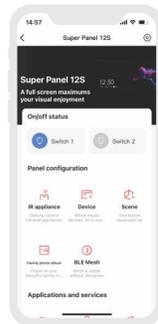
3. Bind your account

Create a home if you are a new user. Then click "+" icon in the upper right corner to access the "Add device" page. Pick "Smart gateway-Super Panel 12S" from the device list and follow the prompts to scan the QR code displayed on the Super Panel 12S screen, then complete your account binding.



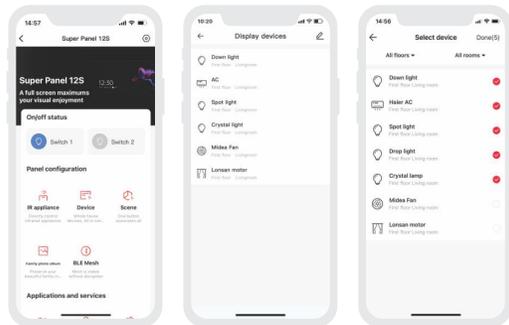
4. Add infrared devices

Go to the Super Panel 12S interface and click "Infrared appliance", then tap "+" icon in the upper right corner. Follow the prompts in APP to select your infrared home appliances according to the appliance type and brand. After completing the setting, you can directly control the infrared home appliances with the Super Panel 12S.



5. Control devices with the Super Panel 12S

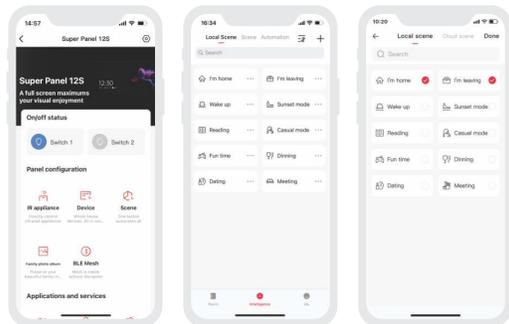
Please refer to manuals of related products. Follow the prompts to add the devices you want and access the Super Panel 12S interface. Click "Device" to go to "Displayed devices" interface. Then click the icon in the upper right corner to pick the devices you want to control with the Super Panel 12S and save them.



6. Control scenes with the Super Panel 12S

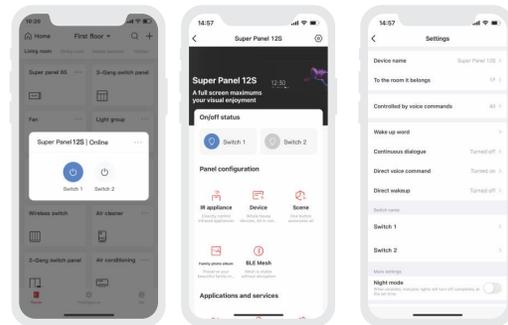
Create scenes: Get back to the homepage of the App. Switch to "Intelligence" menu and click "+" icon to add scenes. Follow prompts to modify names and icons for scenes, and click "Add action" to set up the action and delay time you want.

Displayed scenes: Go to the Super Panel 12S interface and click "Scene" to access "Displayed Scenes" interface. Click the icon in the upper right corner to add the scenes you want to control with the Super Panel 12S.



7. Set up the relay (Switch 1/Switch 2)

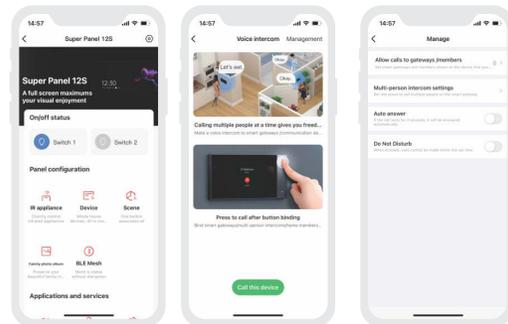
In the "Room" interface, click the blank area of the Super Panel 12S card to get a popup and control Switch 1/Switch 2 quickly. Or you can go to the Super Panel 12S interface to turn Switch 1/Switch 2 on or off by tapping them. Go to the Super Panel 12S settings and click them to name the relay (Switch 1/Switch 2).



8. How to set making voice intercoms on the panel

Voice intercom: Switch to the [Intelligence] menu and click "Voice intercom" to enter the interface of "Displayed device". At the top right, click "Manage", then follow the prompts to set up voice intercom.

Make voice intercoms to the APP on Super Panel 12S and vice versa. You can also make voice intercoms to or on other smart gateways/communication devices in your home. Calling multiple people at a time gives you freedom.



FAQs

1.How to change the user account ?

Super Panel 12S has one standard user account only. The Super Panel 12S that has been added needs to be deleted with the APP before your login.

2.How to restart the device?

Use an ejection pin to long press the reset key for 6s, and wait for the system to restart.

3.How to reset the device to factory defaults?

Use an ejection pin to long press the reset key for 6s and release it until the LOGO is displayed on the screen. Within 30s, press the reset key again for 6s.When the system restarts, it means the device has been reset to factory defaults.

Attentions

- Products shall be installed by qualified professionals.
- LTECH products are non-waterproof and not lightningproof (special models excepted). Please avoid the sun and rain. When installed outdoors, please ensure they are mounted in a water proof enclosure or in an area equipped with lightning protection devices.
- Good heat dissipation will extend the working life of products. Please ensure good ventilation.
- Please check if the working voltage used complies with the parameter requirements of products.
- The diameter of wire used must be able to load the light fixtures you connect and ensure the firm wiring.
- Before you power on products, please make sure all the wiring is correct in case of incorrect connection that causes damage to light fixtures.
- If a fault occurs, please do not attempt to fix products by yourself. If you have any question, please contact your suppliers.

* This manual is subject to changes without further notice. Product functions depend on the goods. Please feel free to contact our official distributors if you have any question.

Warranty Agreement

Warranty periods from the date of delivery : 2 years.

Free repair or replacement services for quality problems are provided within warranty periods.

Warranty exclusions below:

- Beyond warranty periods.
- Any artificial damage caused by high voltage, overload, or improper operations.
- Products with severe physical damage.
- Damage caused by natural disasters and force majeure.
- Warranty labels and barcodes have been damaged.
- No any contract signed by LTECH.

1. Repair or replacement provided is the only remedy for customers. LTECH is not liable for any incidental or consequential damage unless it is within the law.
2. LTECH has the right to amend or adjust the terms of this warranty, and release in written form shall prevail.



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