647

ALIBUS Series intelligent lighting 10-inch touch screen

Installation instruction manual V1.0

Jiangsu Acrel Electric MFG. Co., Ltd

Declare

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1. summary

ALIBUS Series intelligent lighting 10-inch touch screen (hereinafter referred to as touch screen), is the control module of ALIBUS intelligent lighting control system, using 10-inch color TFT, resolution of 1200 * 1920 and 1024 * 600 pixels, capacitive touch screen design, with time display function. The touch screen is connected with other devices (such as switch drivers, smart panels, sensors, etc.) through the IP protocol converter to form a complete lighting control system and realize the intelligent management of the lighting system of large public buildings.

Touch screen is a high-performance industrial tablet computer based on Android platform, and it is equipped with the Android version of intelligent lighting control software. It is an intelligent control module with high stability and high reliability. After the touch screen is connected to the ALIBUS intelligent lighting control system, the IP network cable provides the communication of the touch screen through the Ethernet interface to realize a variety of control functions, such as switch control, dimming control, sensor enabling control, timing control, scene control and other functions.

2. product model

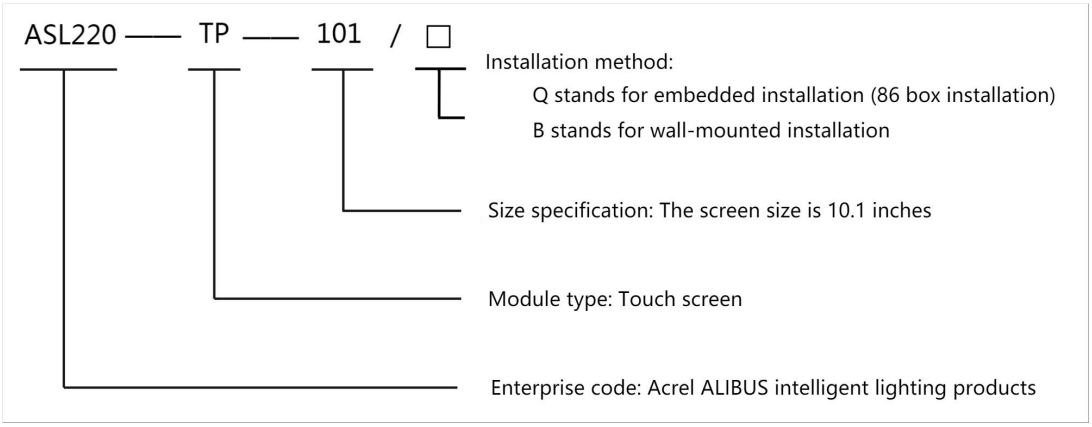


Table 1: Product Specification Table

name	function declaration
ASL220-TP-101/□	Switch control, dimming control, sensor enabling control, timing control, scene control function

3. Main technical parameters

Table 2: Technical parameters table

project		model	
		ASL220-TP-101/B	ASL220-TP-101/Q
Power power consumption	rated voltage	DC 9-24V	AC 220V±10%
	power dissipation	Normal operating condition of 20W	
product size		222.72×125.44（W*H）mm	27215538mm (including standard 86 base)

resolution ratio	1,024 * 600 pixels	1200 * 1920 pixels
communication	Ethernet	
way to install	Box wall installation	86 Box installation
service environment	Operating temperature: -10℃ ~ + 55℃; Relative humidity: 95% uncovered	
Storage temperature range	-20℃～+70℃	
function	CPU processor 8-core 2 GHZ, 1GB EMMC 8GB of memory	CPU processor 4-core 2 GHZ, 2GB EMMC 16GB of memory
duct pilot	Admidia 500 circuit	

4. Installation and wiring

4.1. Outline and installation dimensions (mm)

- ASL220-TP-101/B

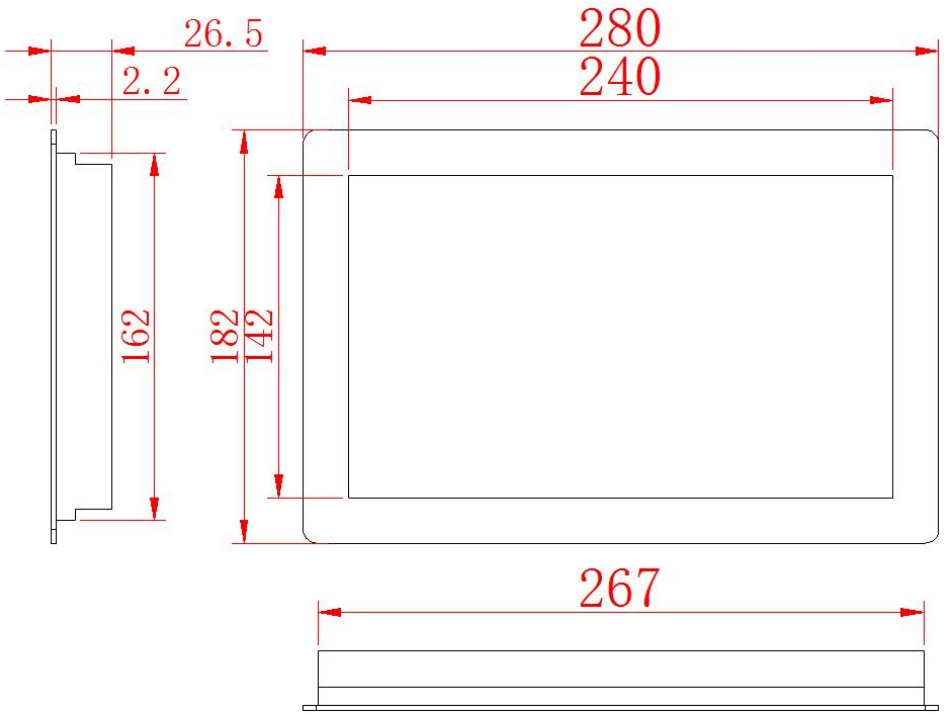


Figure 1. Outline dimensions

- ASL220-TP-101/Q

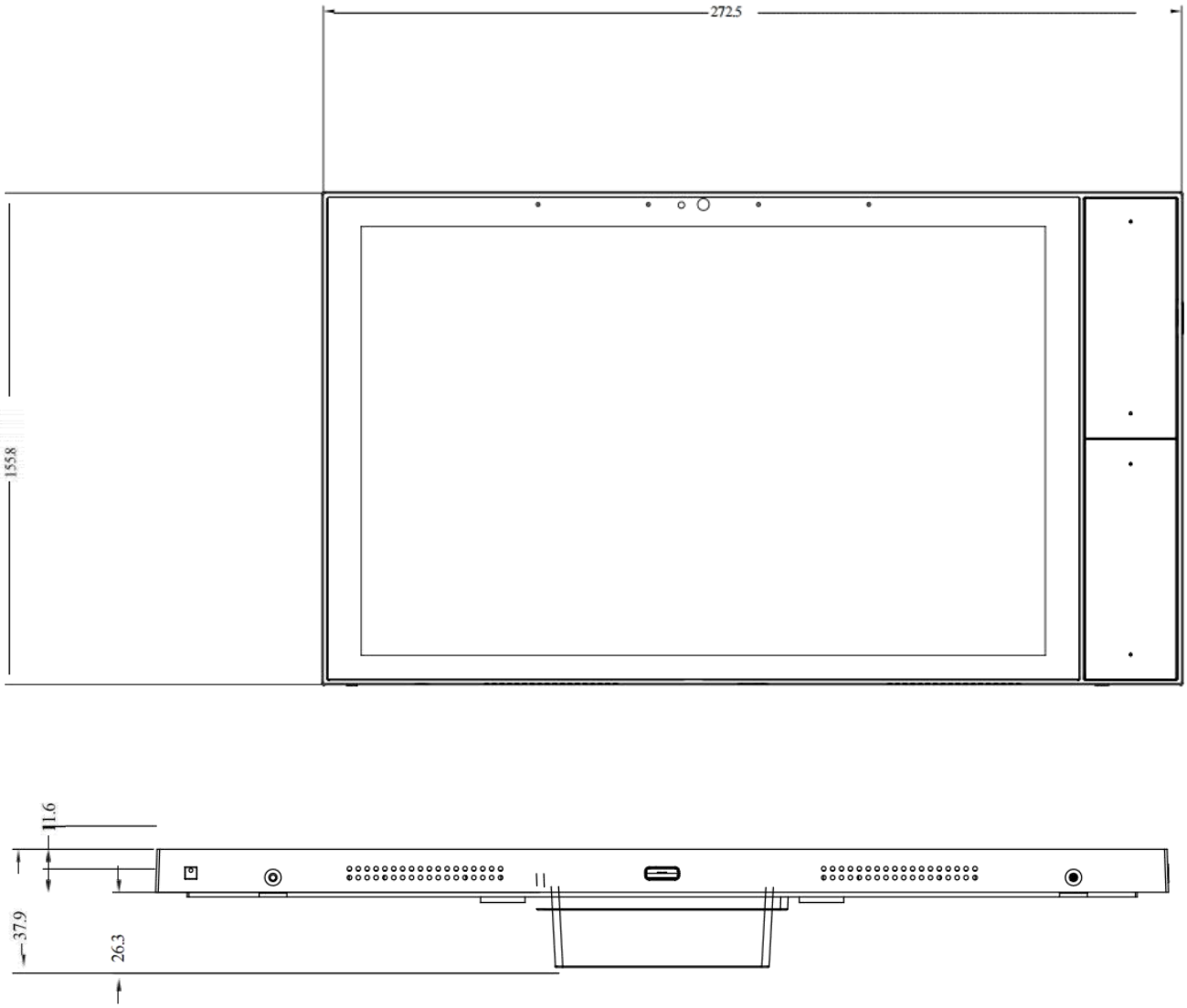


Figure 2. Outline dimensions

4.2. Installation method

- ASL220-TP-101/B

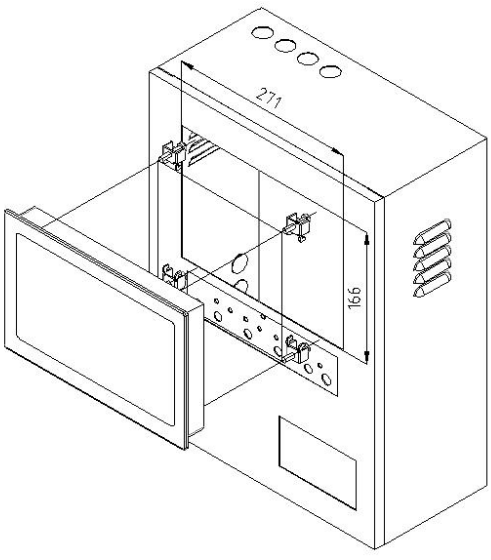
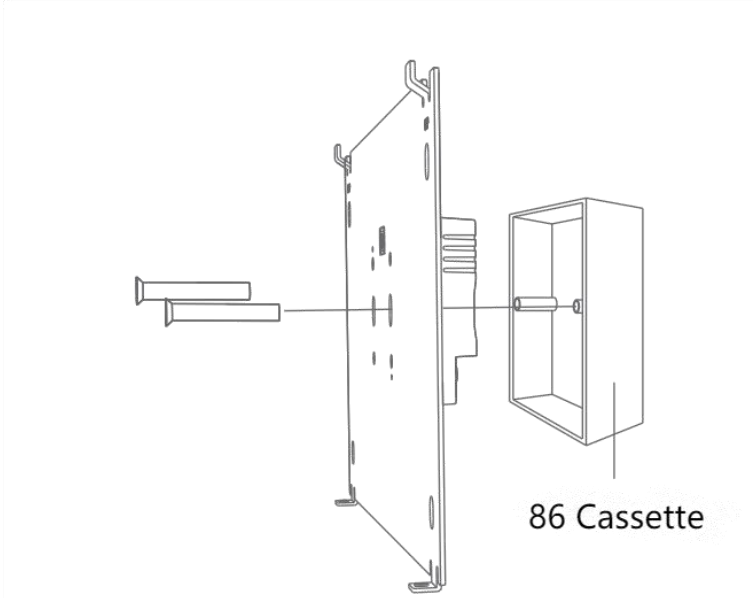


Figure 3. Installation dimension drawing

The installation mode of the touch screen is the embedded cabinet panel installation.(Opening size: 271 * 166mm)

- ASL220-TP-101/Q



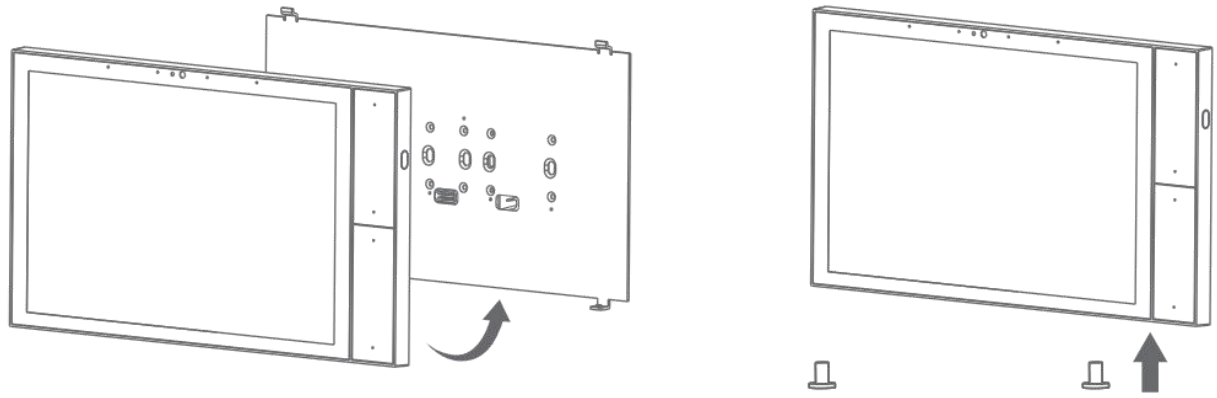


Figure 4. Installation diagram

Put the bottom box (fixed back plate) into the 86 dark box, fix with screws (M4x25 or M4x45), install the whole machine on the fixed back plane and fix with screws (M2x4).

4.3., wiring instructions

- ASL220-TP-101/B

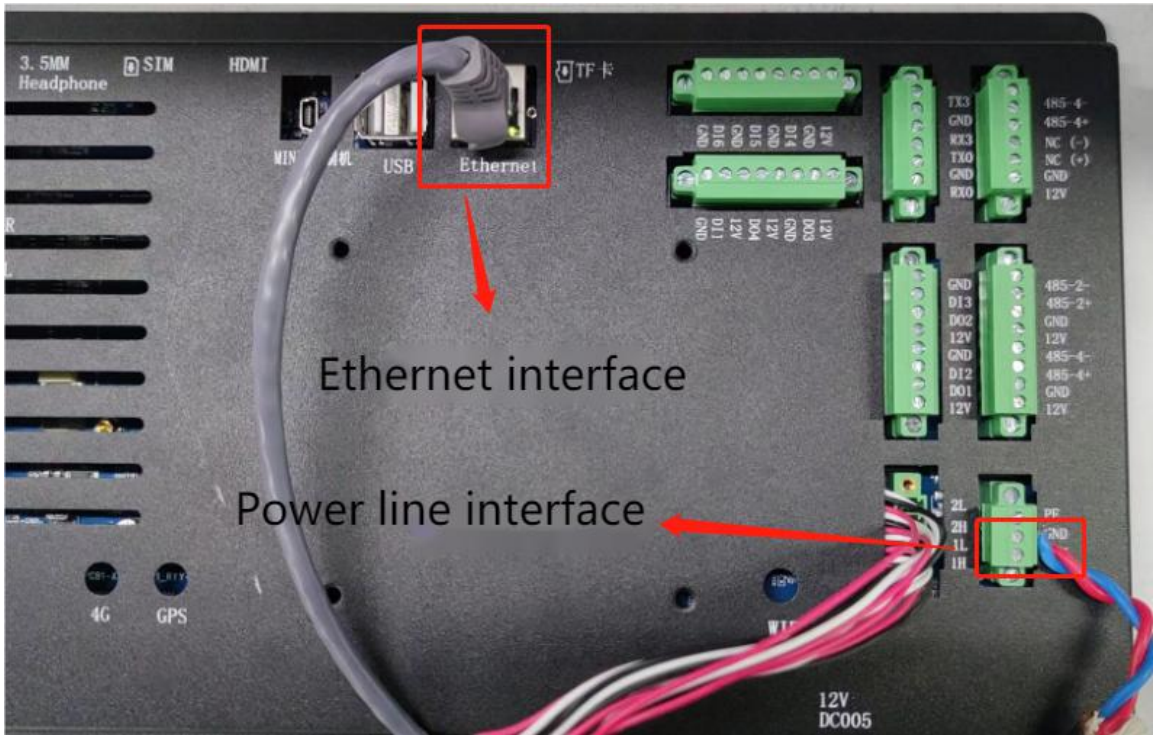


Figure 5 Wiring diagram

This product shall be supplied by DC 9-24V, which can be connected to Ethernet interface via standard network cable; Note: Please cut off the power supply before wiring, and construction is recommended by professional electrician.

- ASL220-TP-101/Q

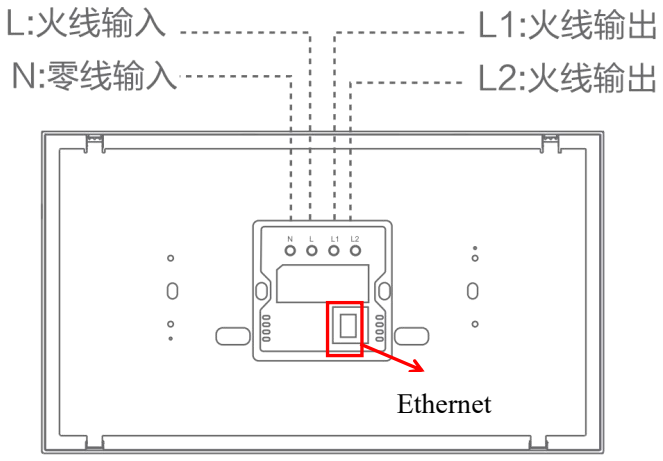


Figure 6 Wiring diagram

This product shall use AC 220V power supply, L connecting wire, N connecting zero line, reserved network cable and access port; note: please cut off the power supply before wiring, and it is recommended to construct by professional electrician.

5. Use the operational guidelines

The touch screen can realize a variety of control functions, specifically as follows:

- switches
- Tuning function
- Scene function
- Sensor enabling
- Timed function

5.1 Product characteristics

As a control module, the touch screen can be connected through the IP protocol converter and any control module conforming to the ALIBUS protocol, issuing control instructions in the system, and controlling the drive to perform the corresponding action.

ASL220 Series touch screen has a variety of functions optional, specific need to be set through the configuration software.

5.2 Enter the touch screen function page

5.2.1 ASL220-TP-101/B

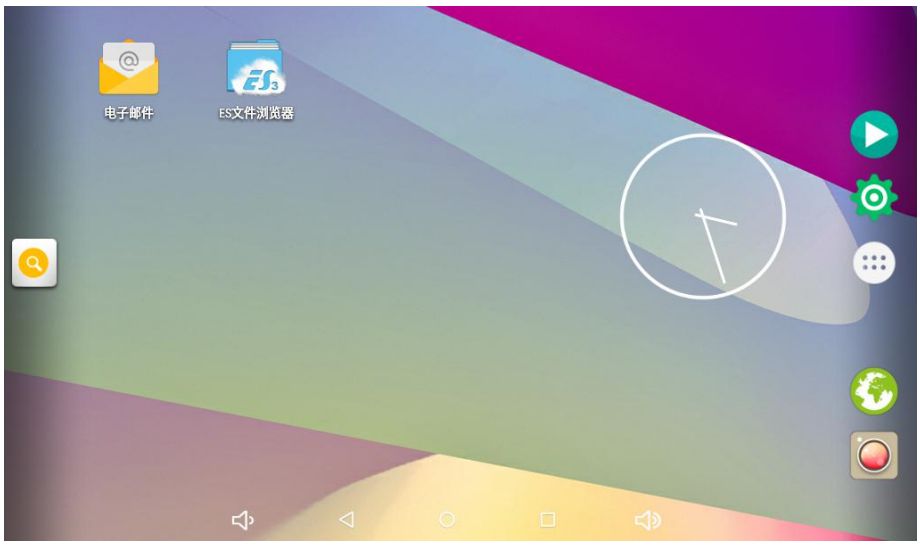


Figure 7. Main interface diagram of ASL220-TP-101 / B

Click the icon on the ASL-TP-101 / B main interface to display the application interface. As shown in the following figure:

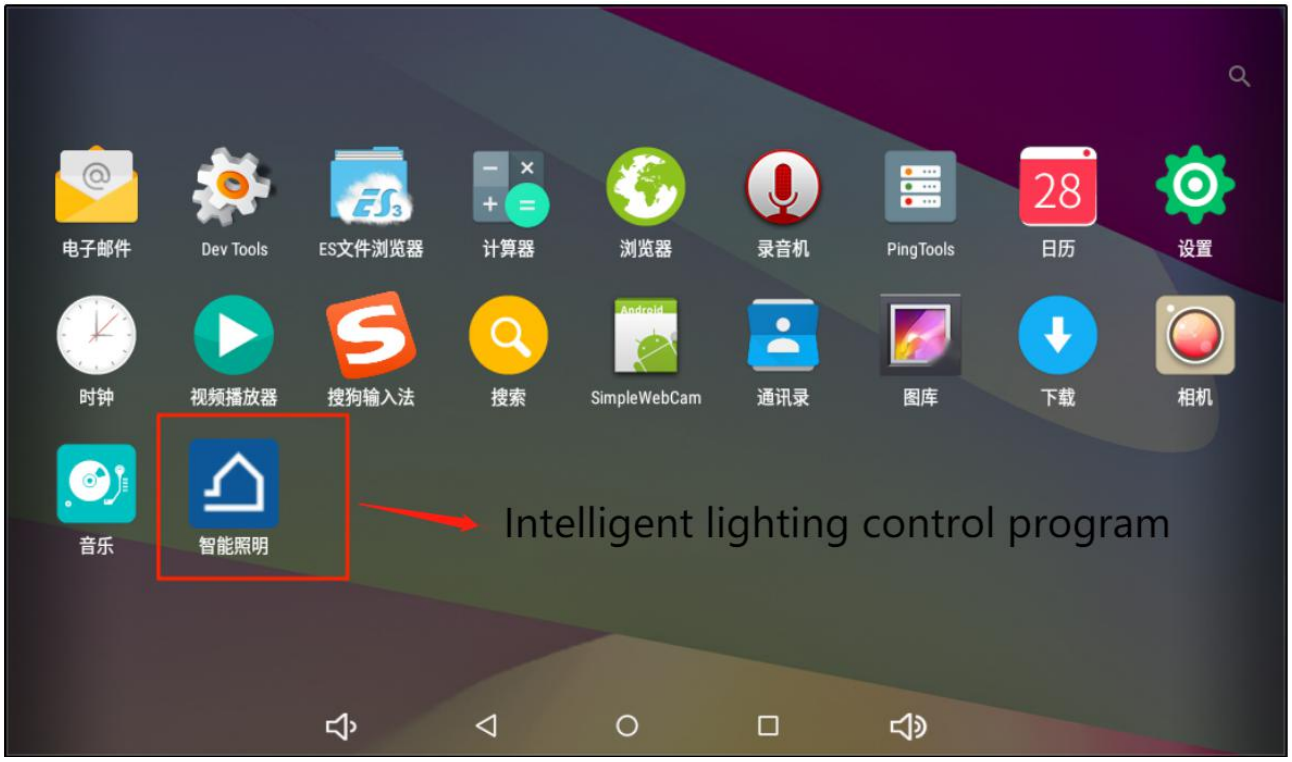


Figure 8 ASL220-TP-101 / B application interface

Click the "Intelligent Lighting" icon (intelligent lighting control program) to enter the touch screen function interface.

5.2.2 ASL220-TP-101/Q

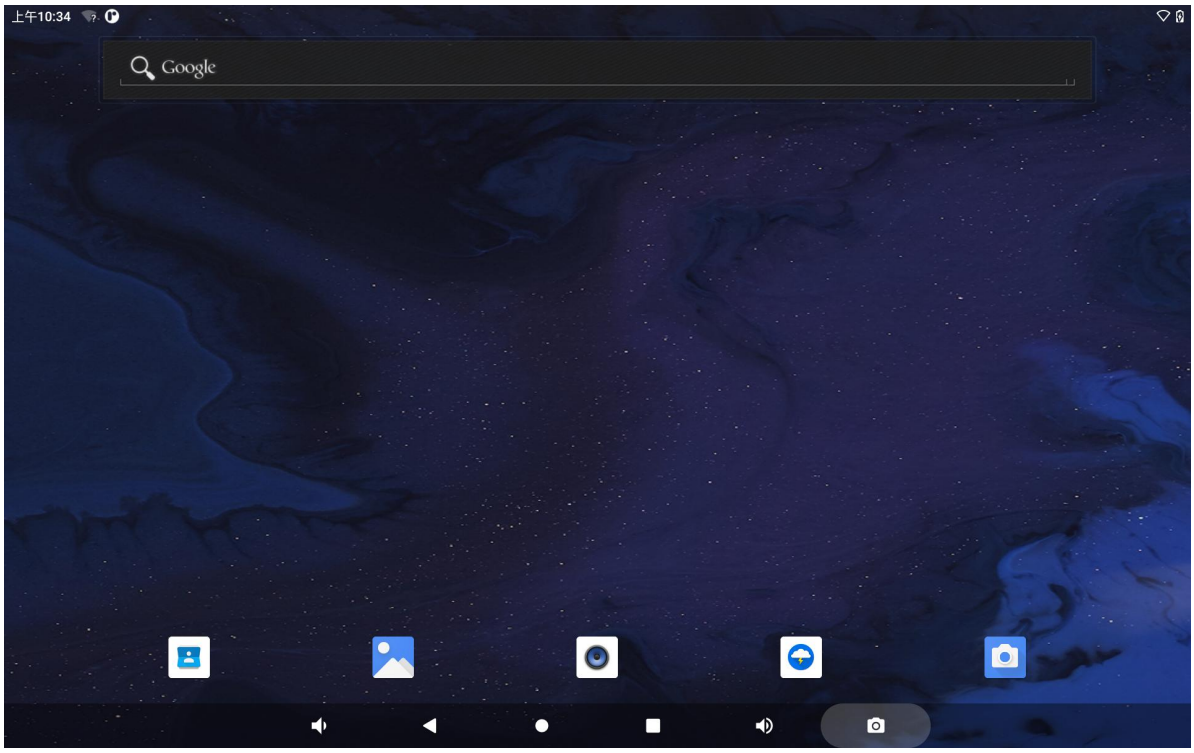


Figure 9. Main interface diagram of ASL220-TP-101 / Q

On the ASL-TP-101 / Q main interface to display the application interface.

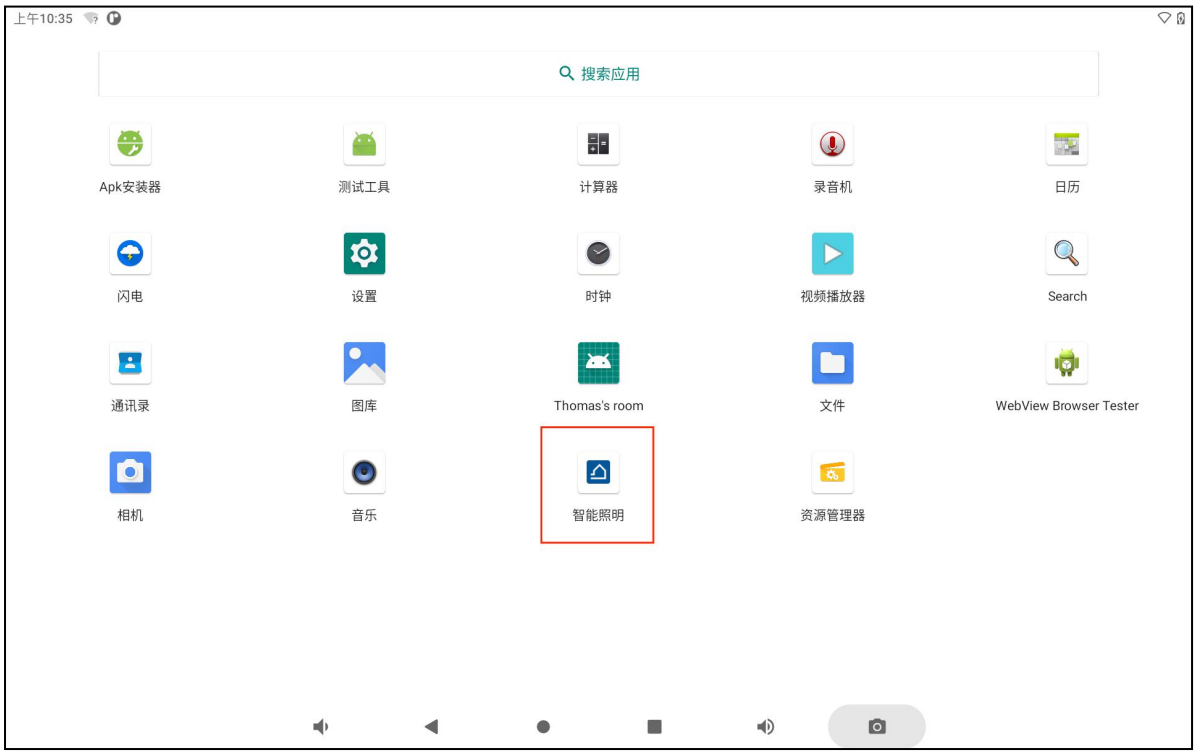


Figure 10 The ASL220-TP-101 / Q application interface

Click the "Intelligent Lighting" icon (intelligent lighting control program) to enter the touch screen function interface.

5.3 Touch-screen function page

5.3.1 Switch function

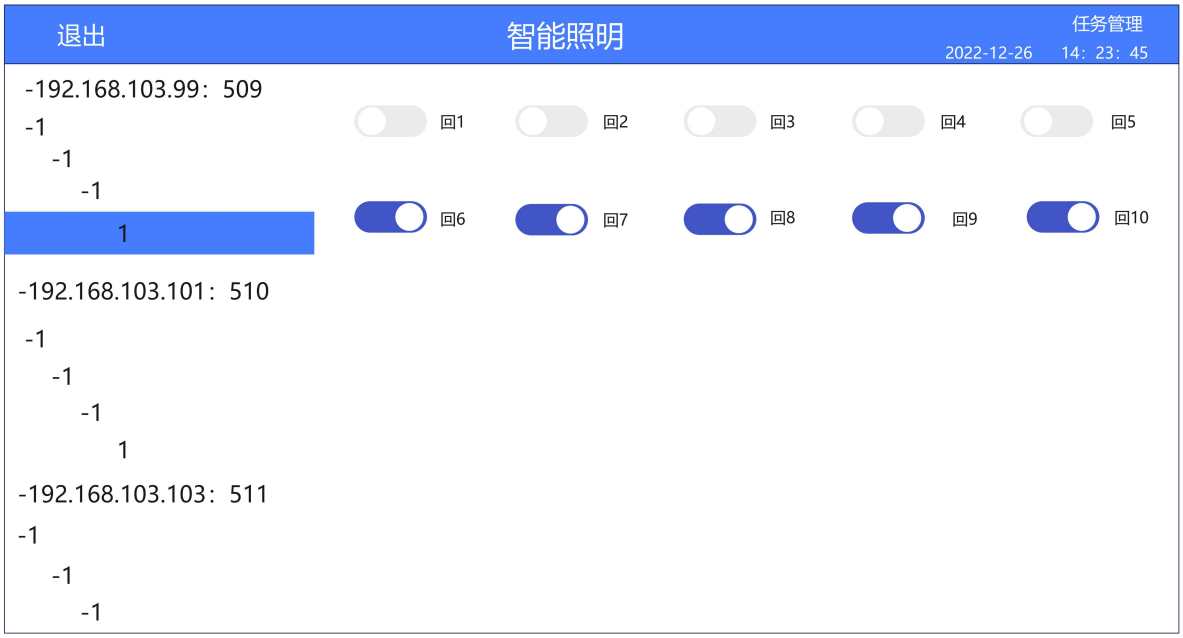


Figure 11 Switch function

control:

Click the touch screen icon, when the icon switch to, the corresponding loop is closed.

Click the touch screen icon, when the icon switches to, the corresponding loop points.

state feedback:

The switch status of the Switch icon is used to feedback the status of the actual loop switch.

5.3.2 Dimming function

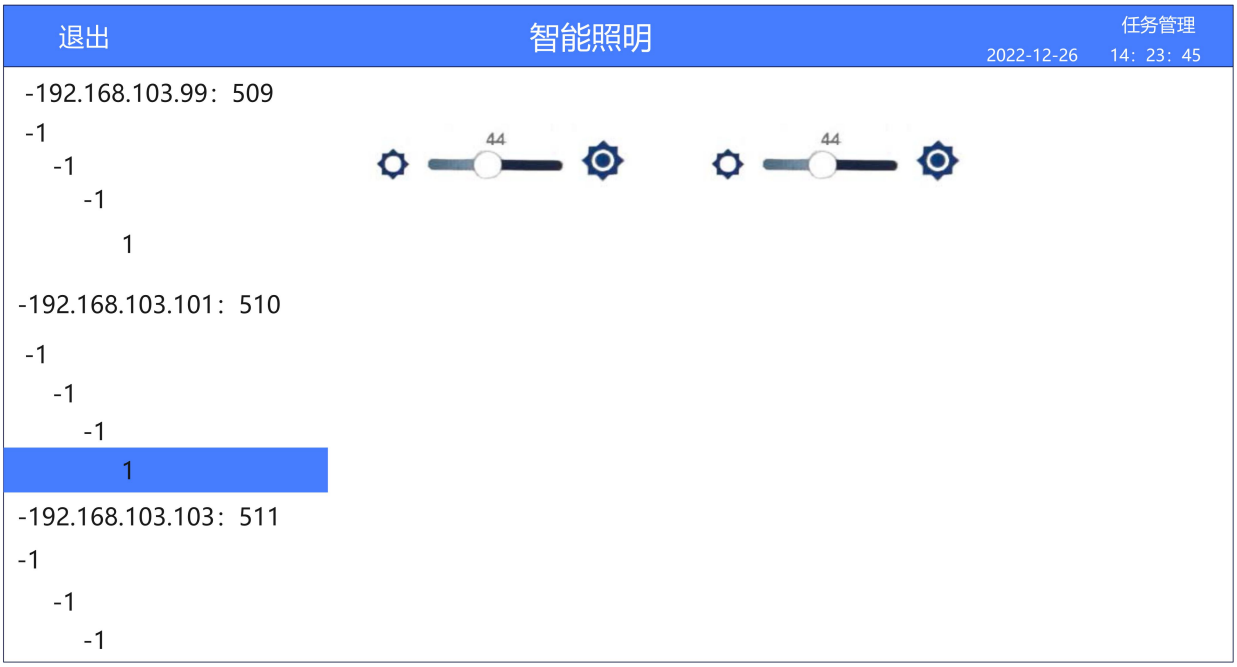


Figure 12 The dimming function

Tuning control:

Slide the slip, set the brightness value, and adjust the brightness will appear above the slip.

state feedback:

The values of the dimming icon are used to feedback the actual brightness output of the lamp.

5.3.3 Scene functions

Figure 13 Scene function

Scene control:

Each scene button corresponds to a scene mode. When clicking the "Scene Function" icon, this scene mode is opened. 场景6

state feedback:

场景6 The icon shows that this scene mode is turned on.

5.3.4, the sensor is enabled

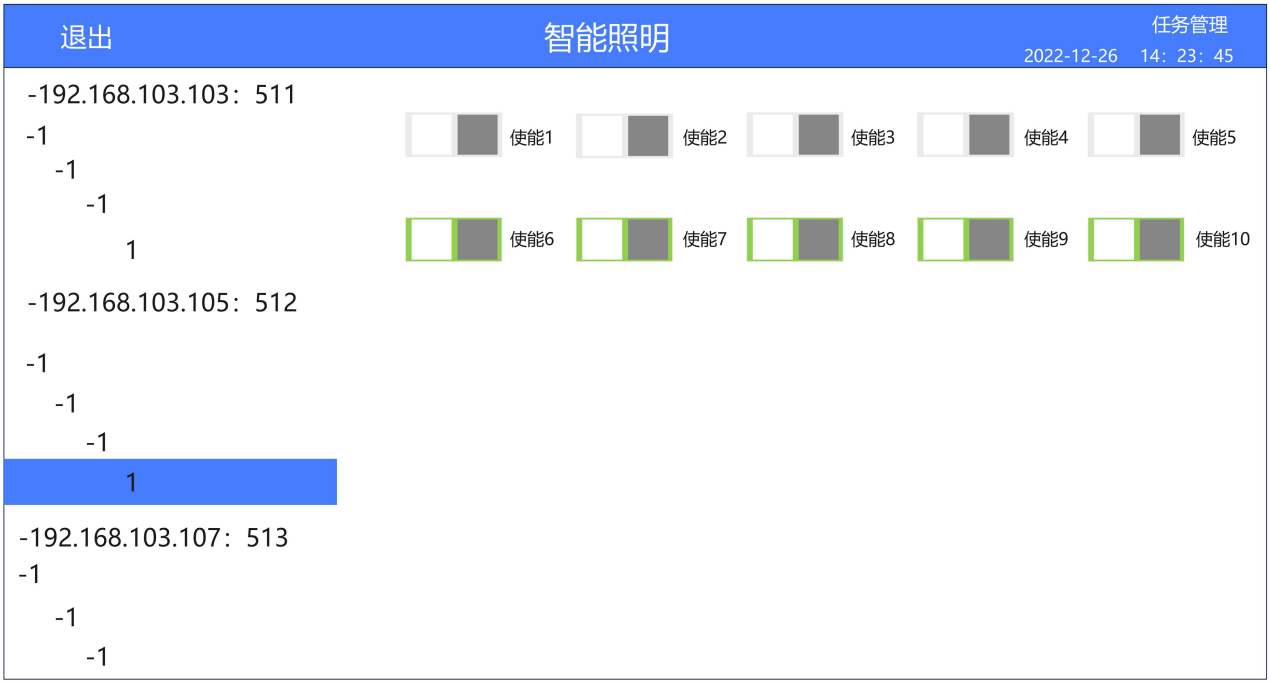


Figure 14 Sensor enabling function

Sensor enables control of:

Click the touch screen icon, when the icon switch to, open the corresponding sensor detection function.

Click the touch screen icon, when the icon switch to, close the corresponding sensor detection function.

6. Functional application

6.1 Function of the touch-screen system

The time of the intelligent lighting display page is consistent with the internal time of the touch screen system. If the modification time is needed, the system time can only be modified. The specific operation is as follows:

6.1.1 ASL220-TP-101/B

Click the Settings icon on the main page to enter the Settings page. As shown in the figure below.

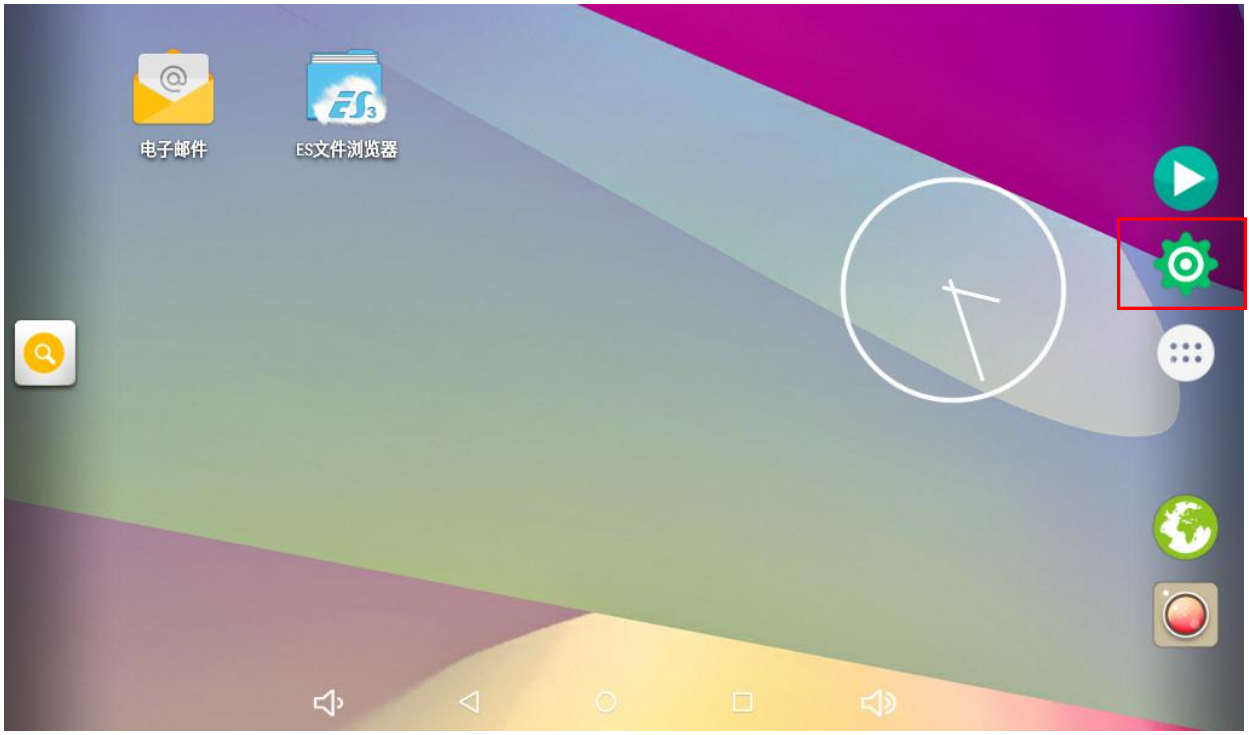


Figure 15 ASL220-TP-101 / B main interface

Click "Date and Time" in the Settings interface. As shown in the figure below.

Figure 16 ASL220-TP-101 / B setting page

On this page, the date and time can be modified as needed, and the time of the smart lighting page will change accordingly.

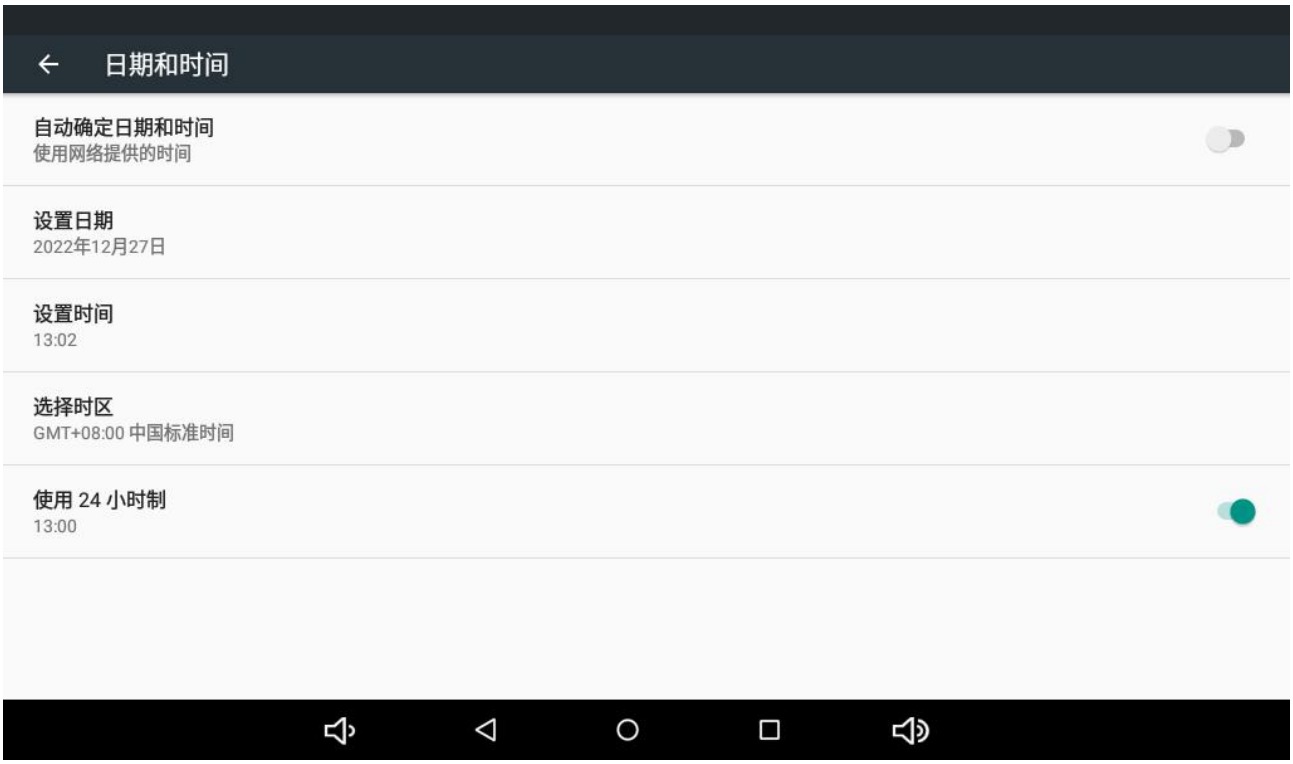


Figure 17 ASL220-TP-101 / B Date and time interface

6.1.2 ASL220-TP-101/Q

On the home page to enter the function interface and click the Settings icon. As shown in the figure below.

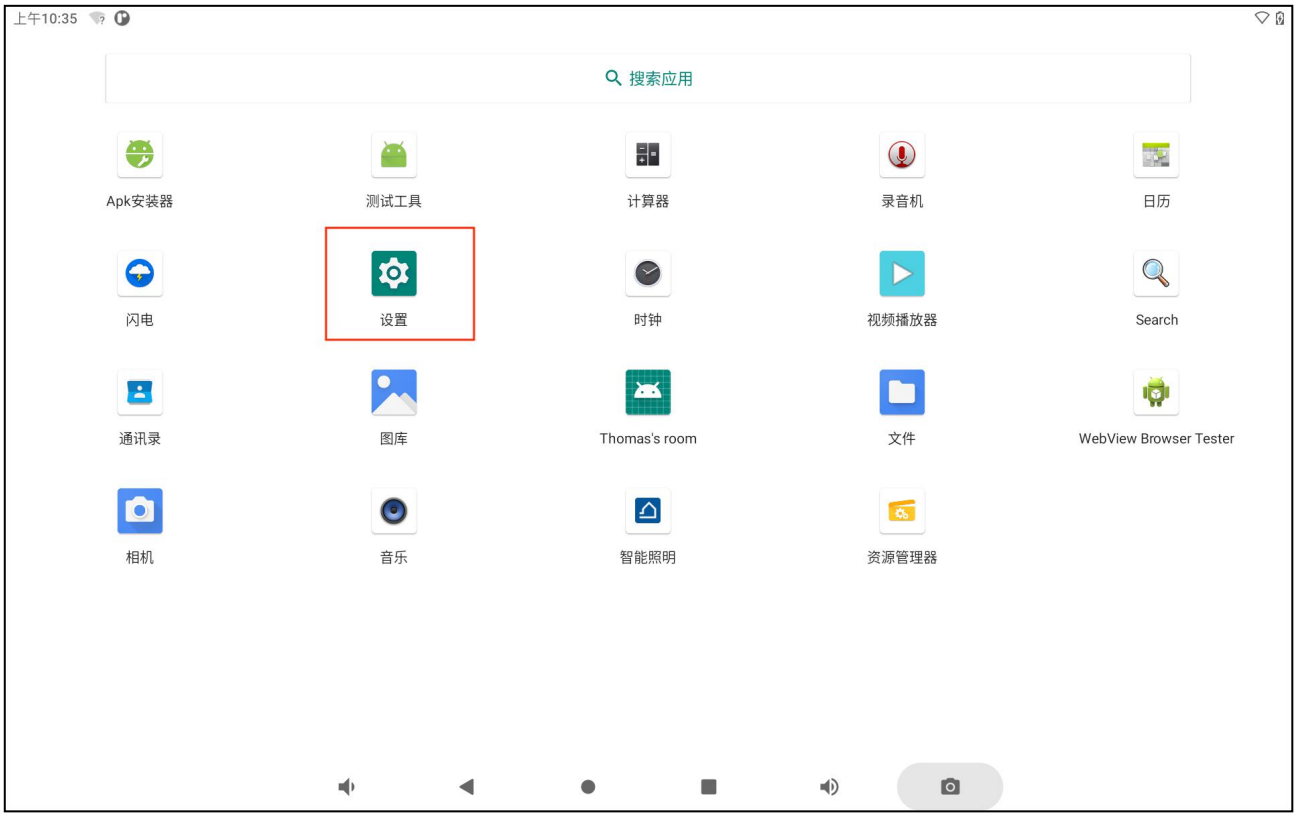


Figure 18 The ASL220-TP-101 / Q application interface

Click "System" in the setting interface. As shown in the figure below.

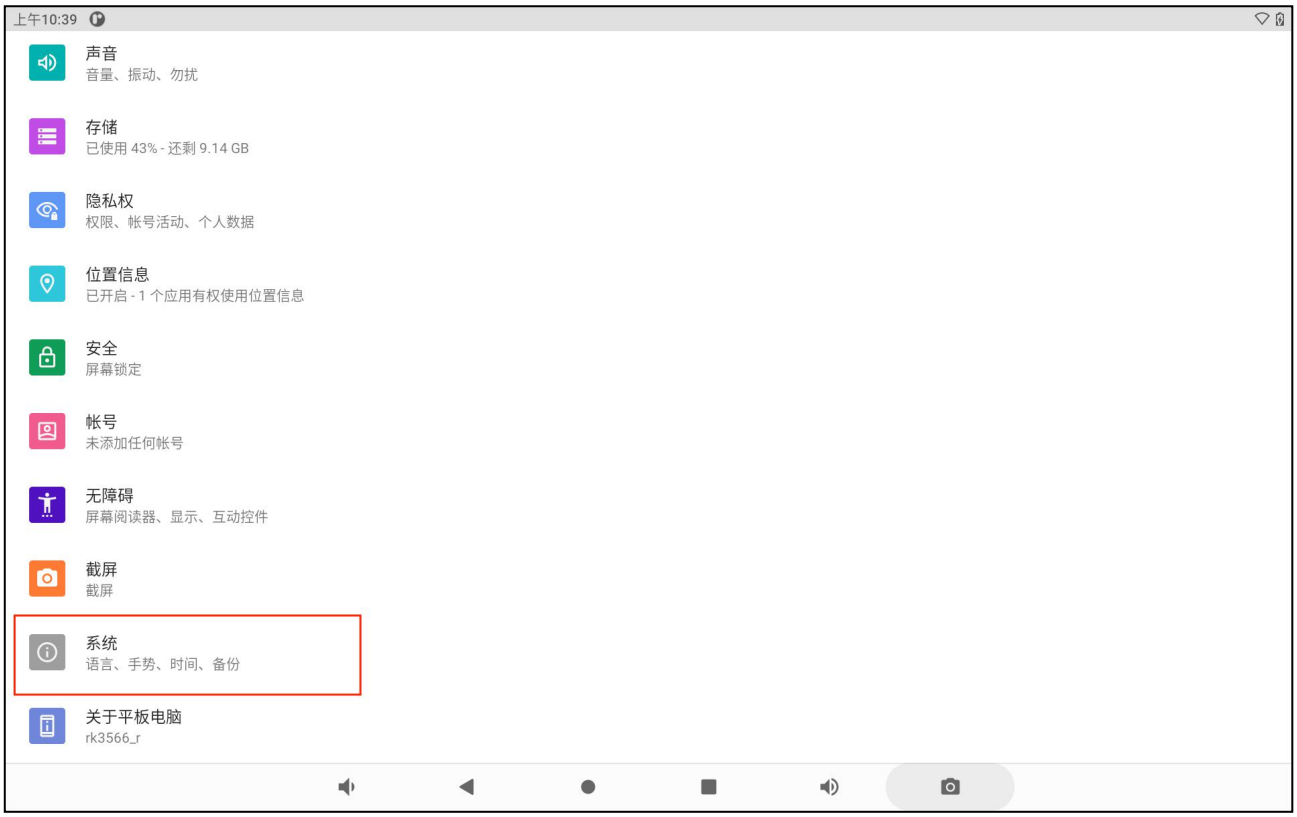


Figure 19 ASL220-TP-101 / Q setting interface

Click on "Date and Time". As shown in the figure below.

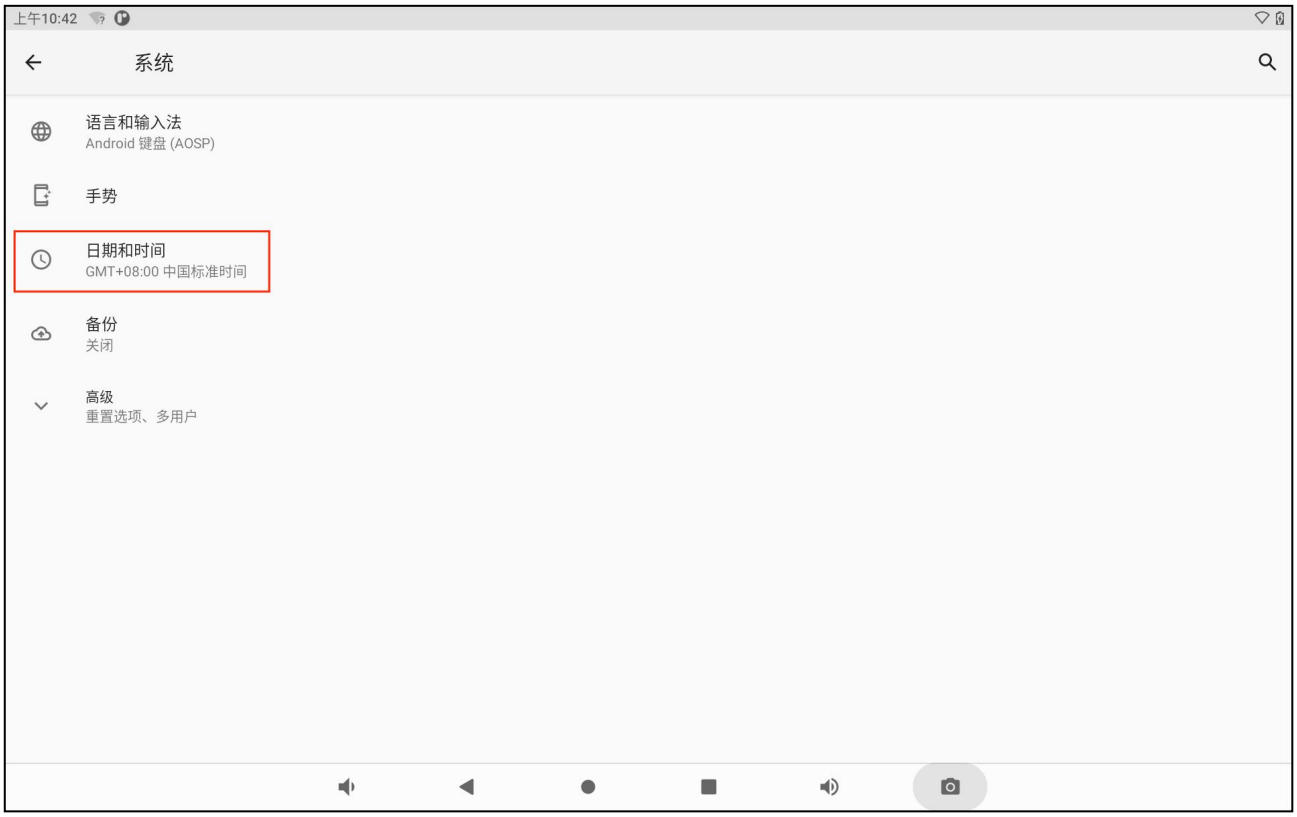


Figure 20 ASL220-TP-101 / Q system interface

On this page, the date and time can be modified as needed, and the time of the smart lighting page will change accordingly.

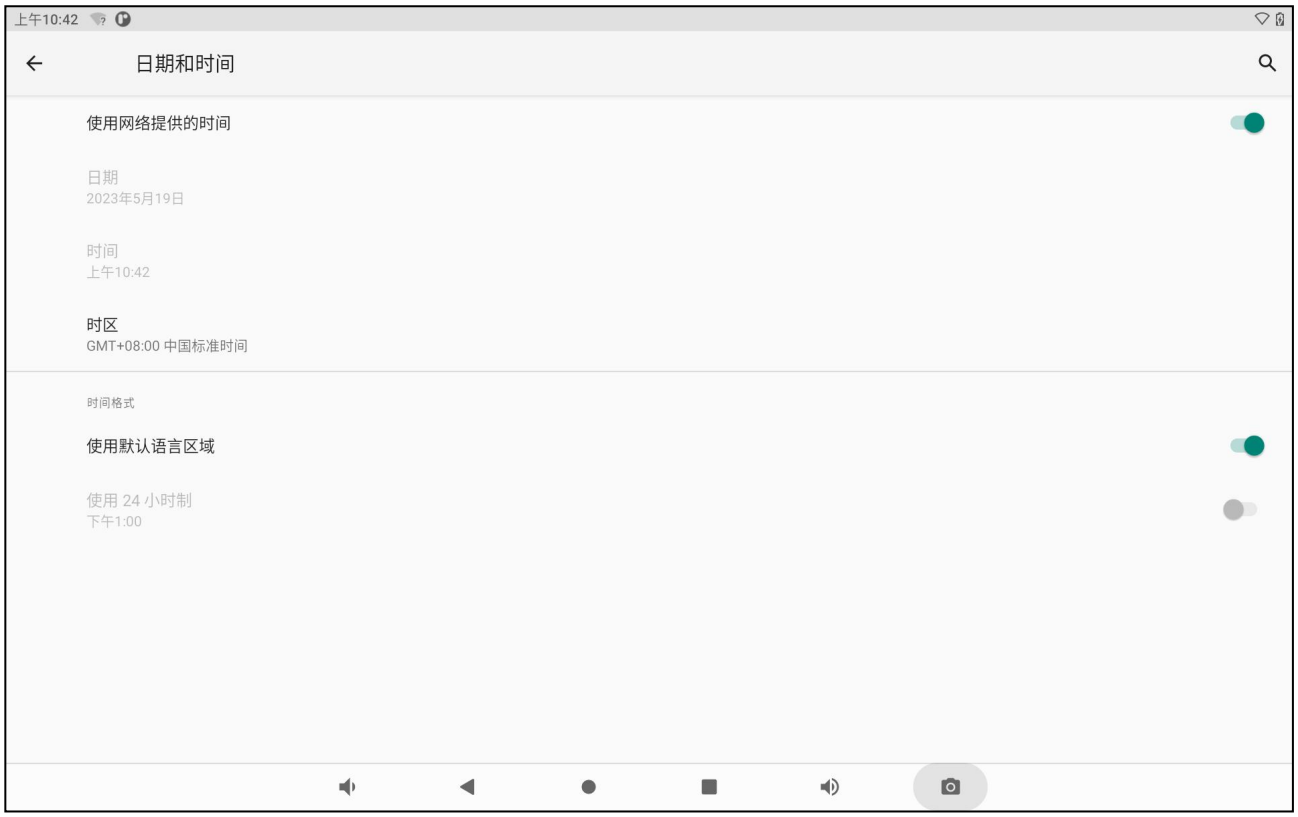


Figure Figure 21 ASL220-TP-101 / Q Date and time interface

6.2 Set the IP address of the touch screen

When establishing the communication between the touch screen and the IP protocol converter (gateway), the IP address is required to be set up for the touch screen, as shown in the figure below.

First, enter the setting.

6.2.1 ASL220-TP-101/B

Figure Figure 22 The ASL220-TP-101 / B application page

Enter the Ethernet option.

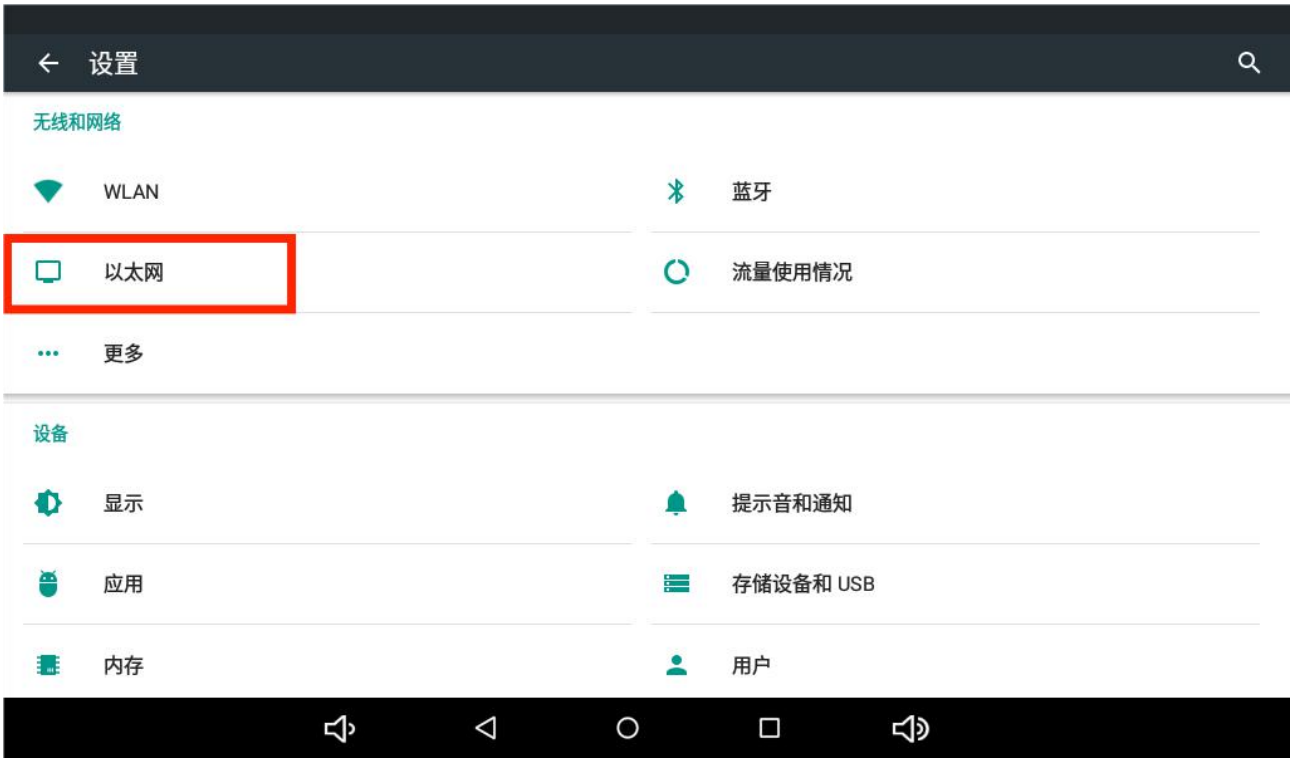


Figure 23 The ASL220-TP-101 / B setting page

Click on Ethernet, open the Ethernet switch, and then enter the Ethernet configuration, as shown in the figure below.

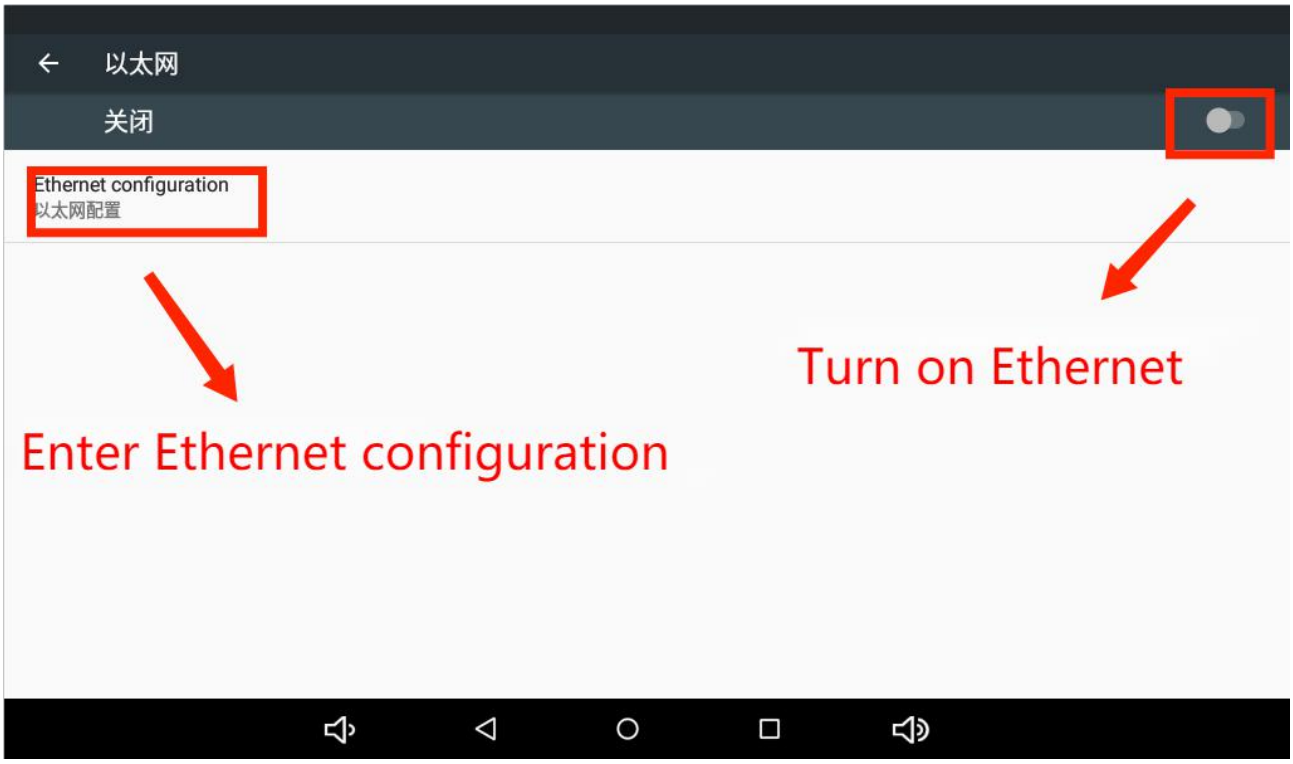


Figure 24 ASL220-TP-101 / B Ethernet page

Set the static mode according to the required type, and set the complete save.

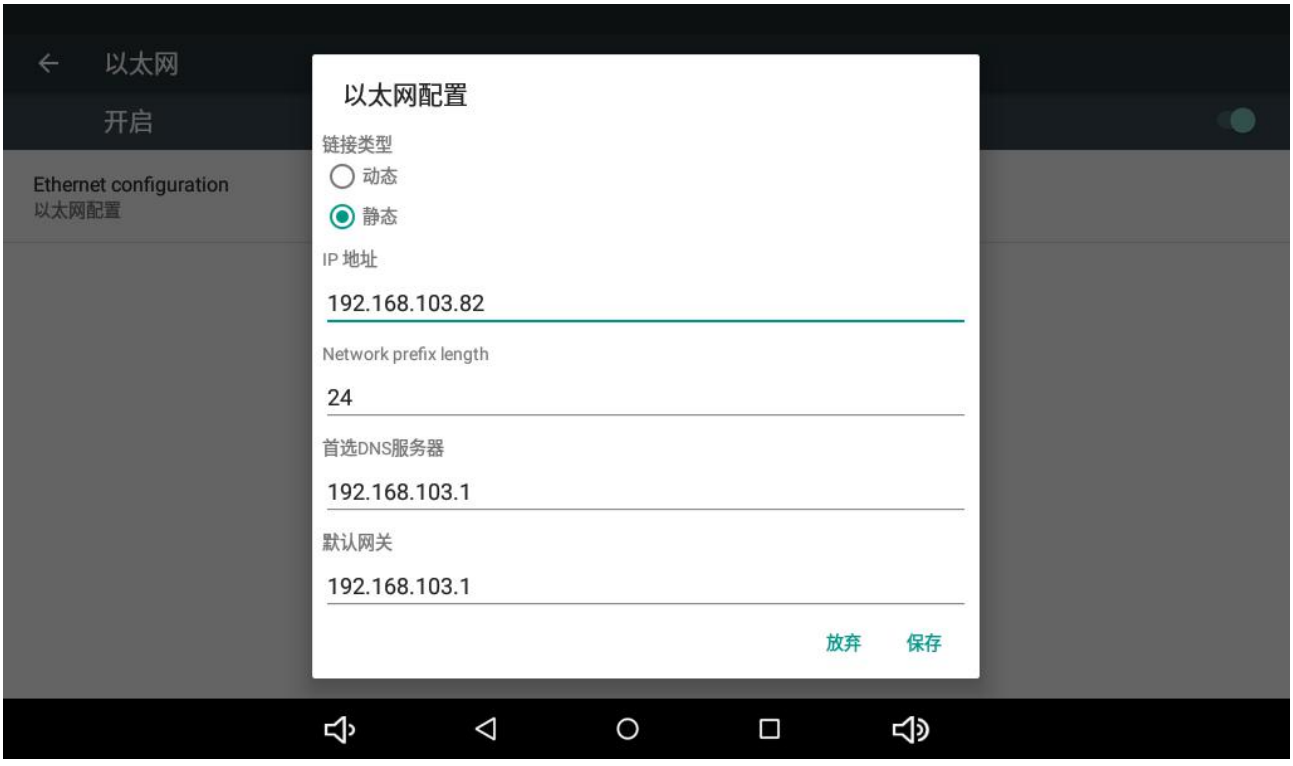


Figure 25 ASL220-TP-101 / BIP address setting page

6.2.2 ASL220-TP-101/Q

On the home page to enter the function interface and click the Settings icon. As shown in the figure below.

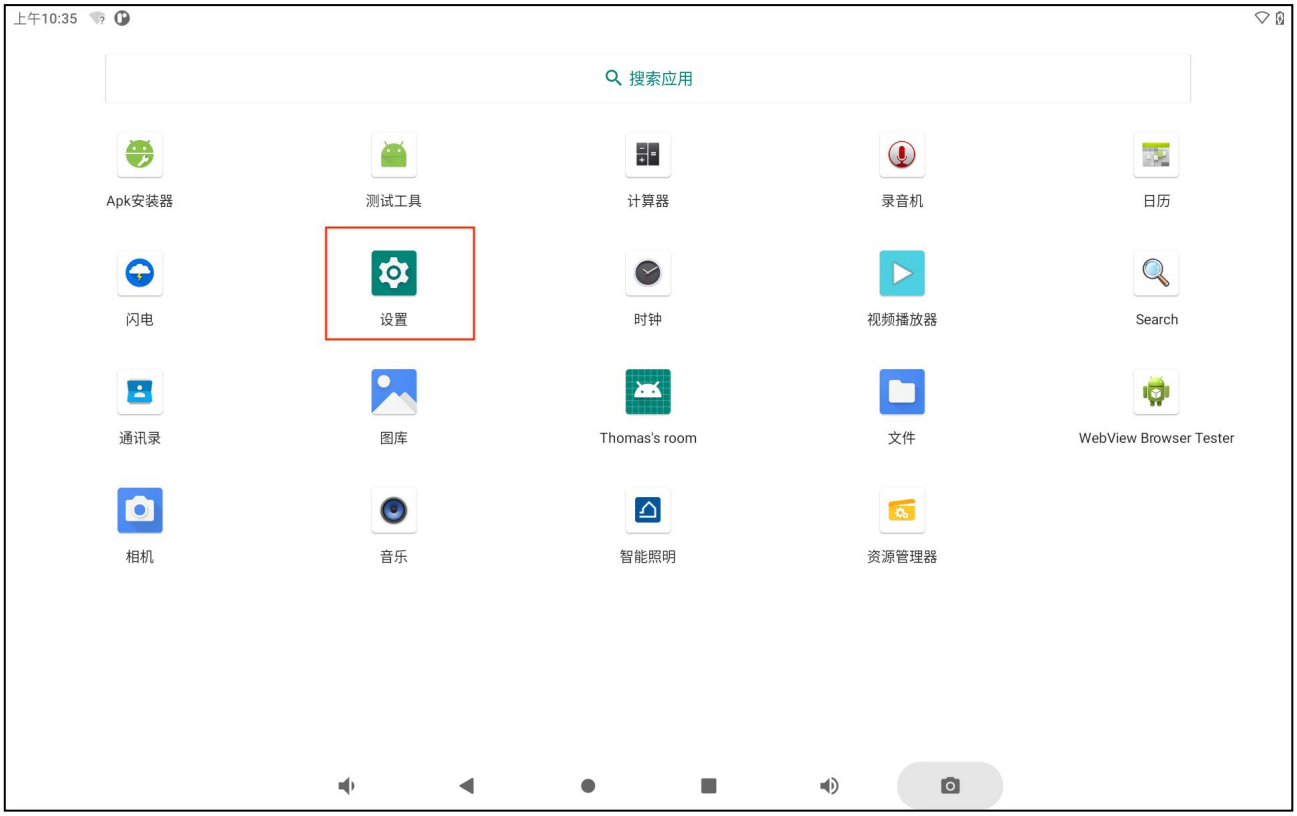


Figure Figure 26 The ASL220-TP-101 / Q application interface

Enter the network and internet options.

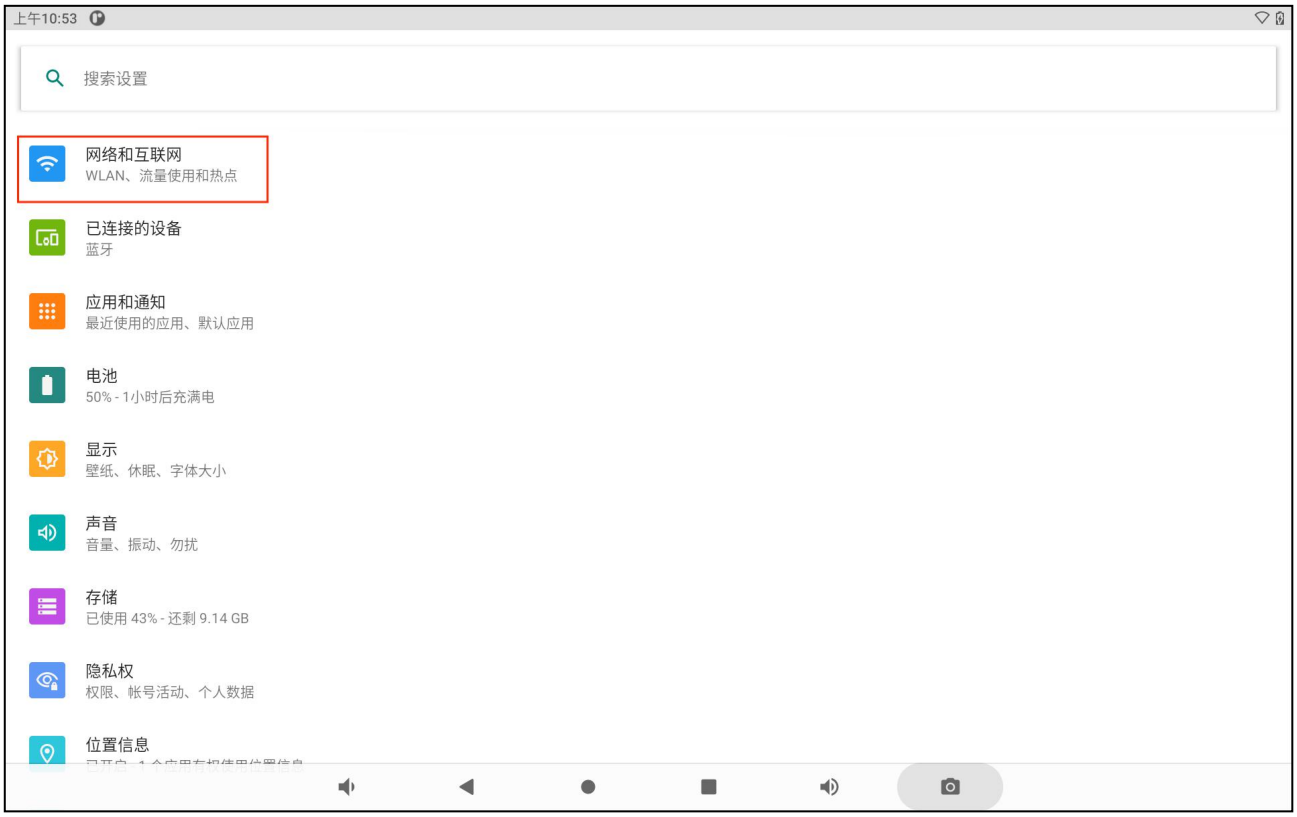


Figure 27 ASL220-TP-101 / Q setting interface

Then go to the Ethernet option.

Figure 28 ASL220-TP-101 / Q network and Internet interface

Then click Ethernet ip mode option and select static option in the popup interface.

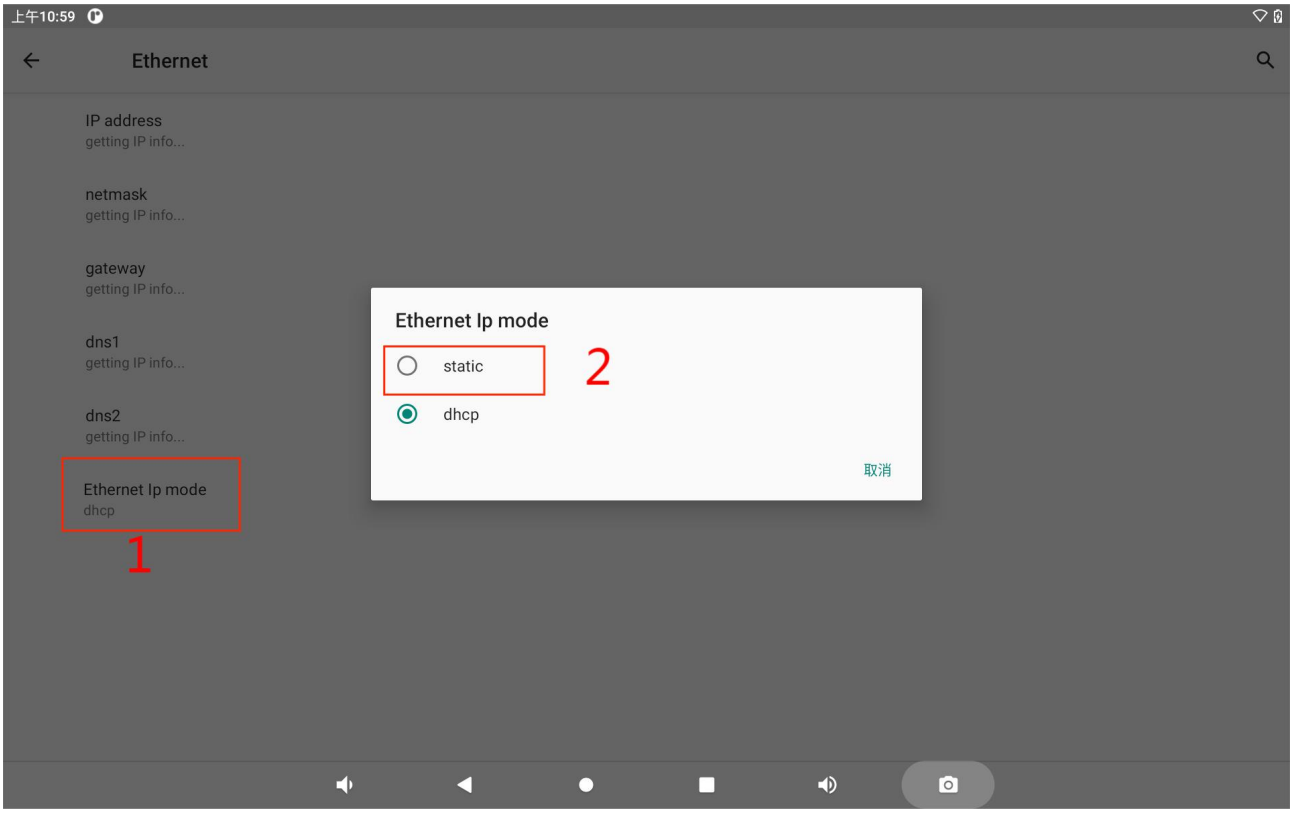


Figure Figure 29 The ASL220-TP-101 / Q Ethernet interface

Set as needed, save or click connect.

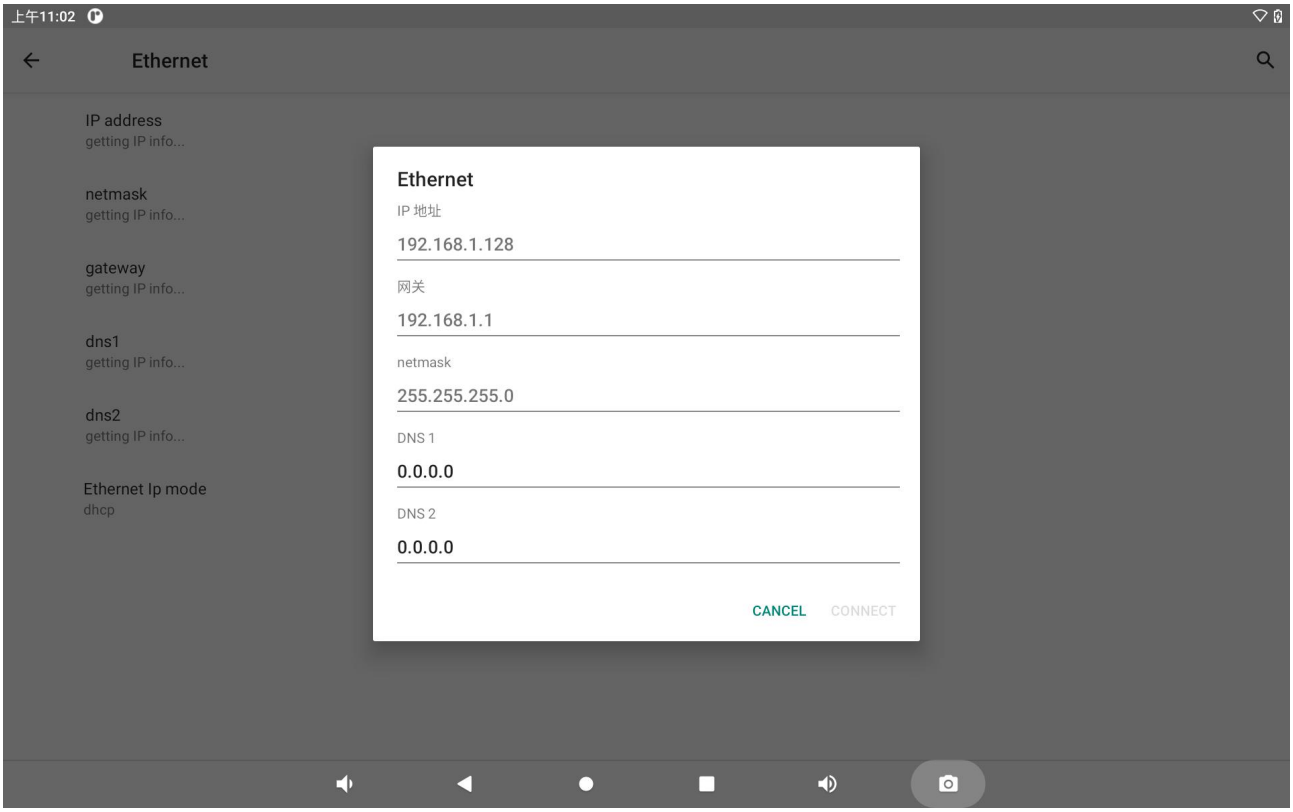


Figure 30 ASL220-TP-101 / QIP address setting interface

6.3 Set the timing task

The first step is task management, set the objects and actions of task execution. The second step is to enter the

timing schedule and set the time of task execution.

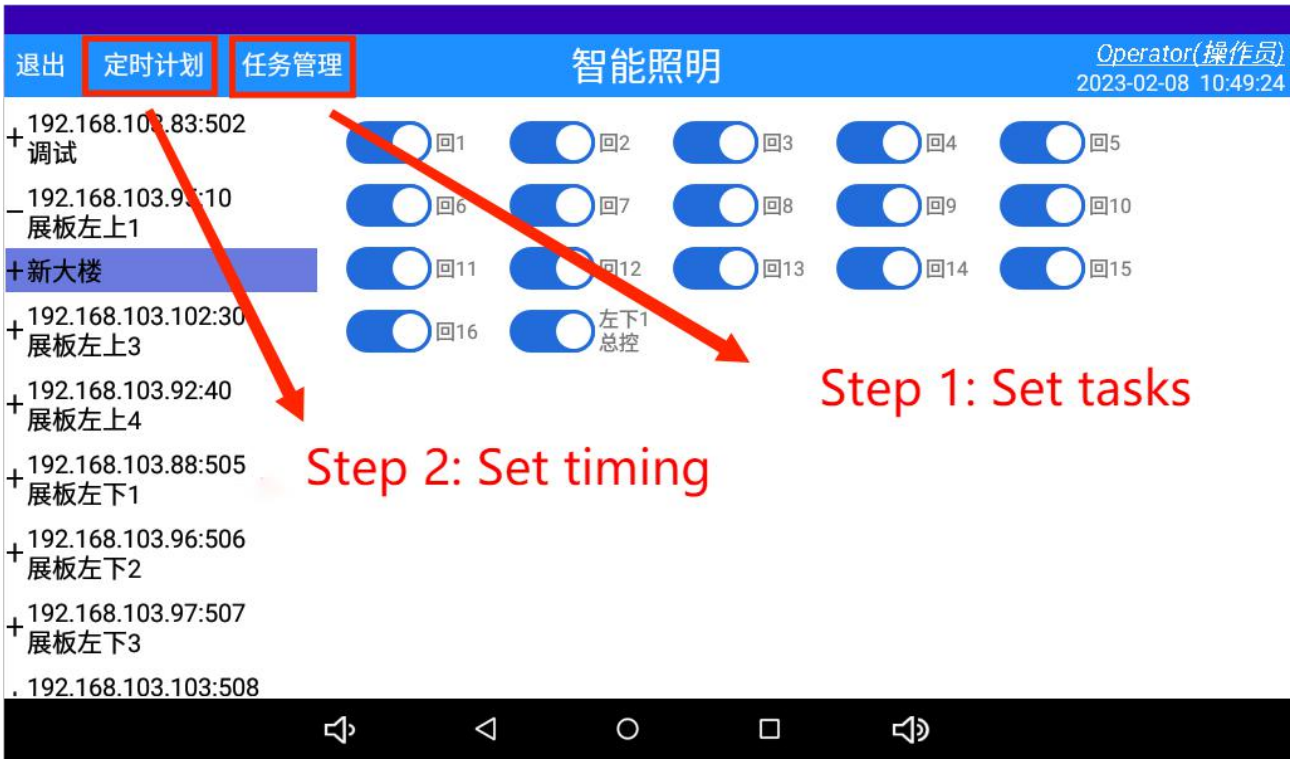


Figure 31 Setting the timing task steps

First add a task, then set the object and action values.

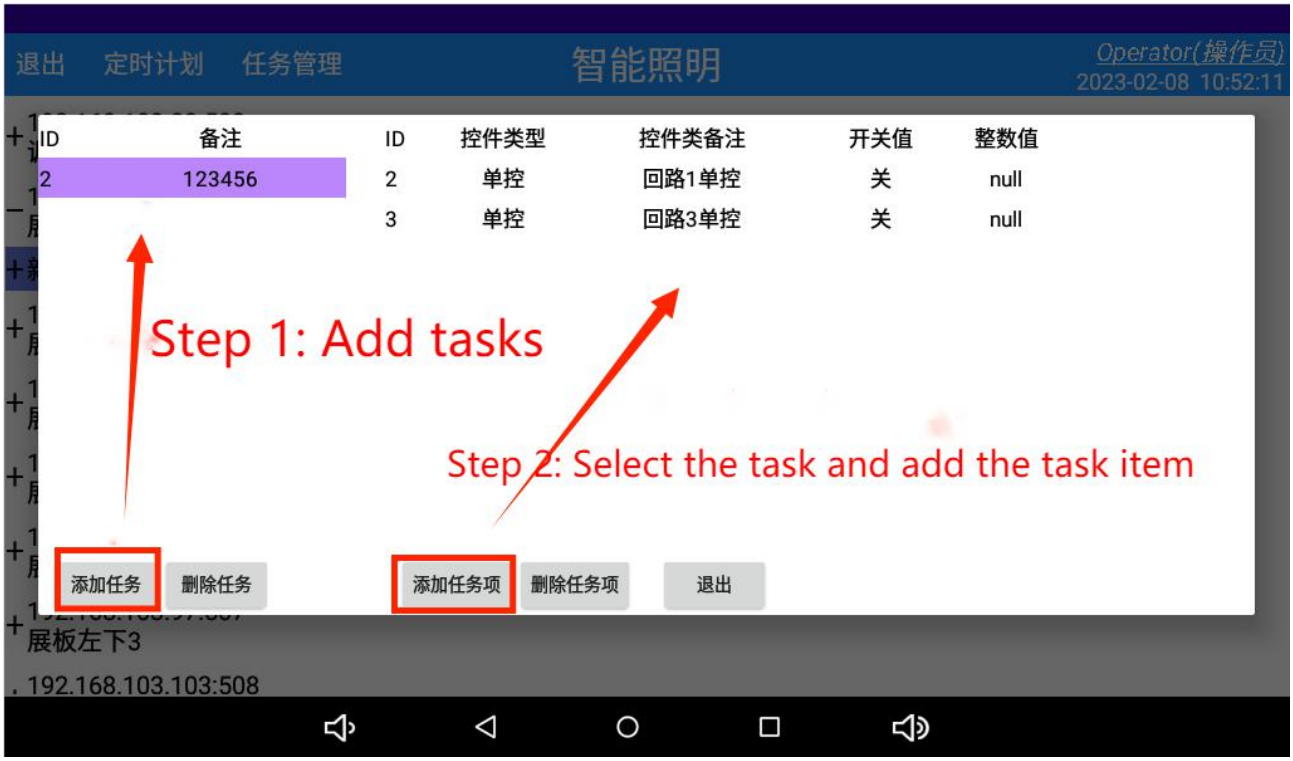


Figure Figure 32: The task management page

Long pressing the control object to modify the switch value of the object.

Figure 33 Modifies the switch value

After setting the task, return to the timing schedule and click Add timing task.

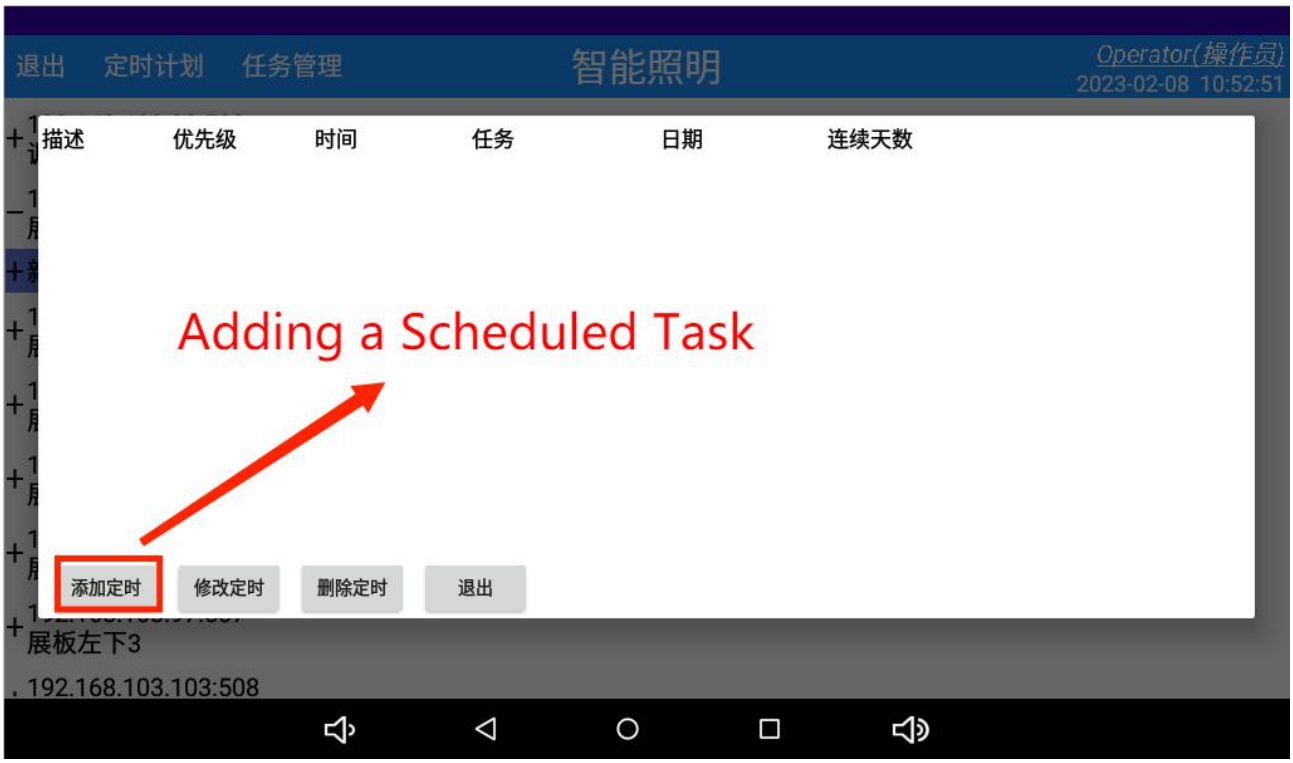


Figure 34 Time planning page

Check the enable button, set the name description of this timing task, set the priority, time, task performed and date, and determine after all the settings are completed.

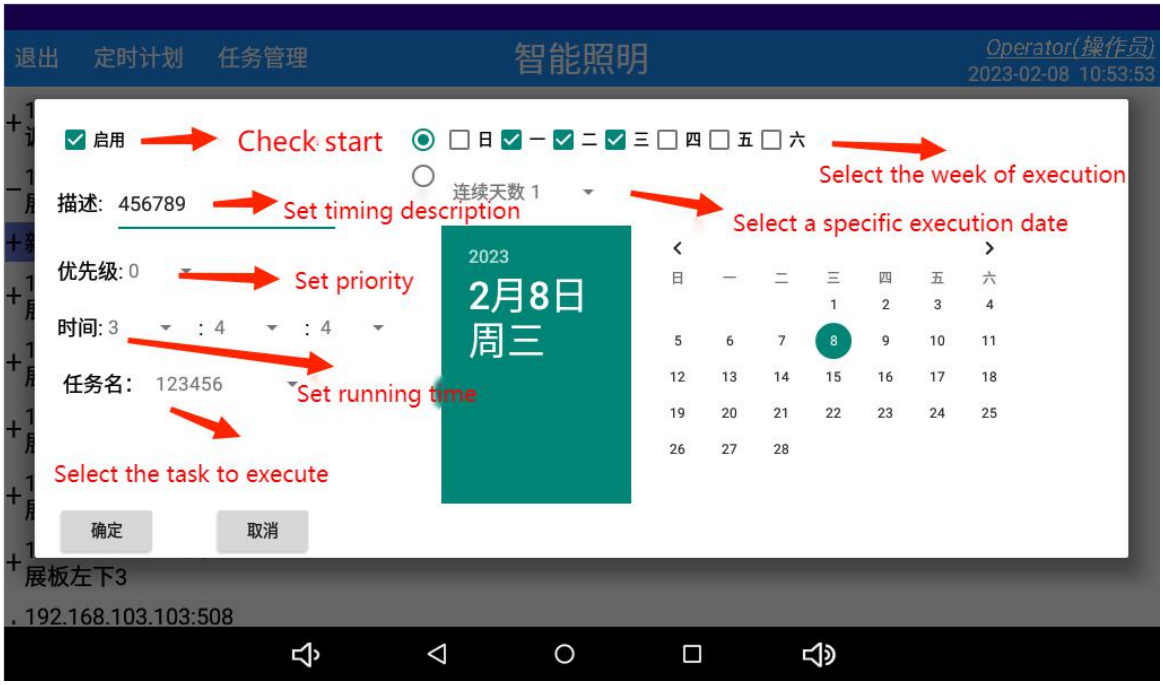


Figure 35 sets the timing schedule

7. Analysis and troubleshooting of common faults

1) The screen is not bright:

● Please check whether the power supply is well connected, whether the voltage is DC 9-24V or AV220V;

● If the wiring is normal and there are still the above problems, please contact the manufacturer and supplier for maintenance or replacement.

2）Communication failure: (no control)

● Please check whether the network cable is well connected, whether the IP address is normal, whether the ping tong IP protocol converter IP address;

● If the above is normal and there are still the above problems, please contact the manufacturer and the supplier for maintenance or replacement.

8. Installation requirements

● A professional installer must install the touch screen and read the instructions carefully before installing.

● When wiring, follow the wiring mode in the use instructions. After the wiring, carefully check whether the wiring is correct, so as not to damage the touch screen and cause dangerous accidents.

● When installing or removing the touch screen, please confirm that the working power supply, connected equipment and related parts of the power supply have been cut off to avoid electric shock and personnel injury.

● Cut off all power supply and detection control cables before inspection and maintenance.

● Wiring, wiring, please according to the relevant specifications, to avoid short circuit, open circuit and other accidents, but also convenient for future maintenance and repair.

● The normal operation of the touch screen depends on the correct installation, setting and operation. Before installation, please read the relevant content of the installation, setting and operation in detail to ensure the normal operation of the touch screen.

Amendment record

Revised edition	Revision time	Revised terms
V1.0	2023.11	The new version was released

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