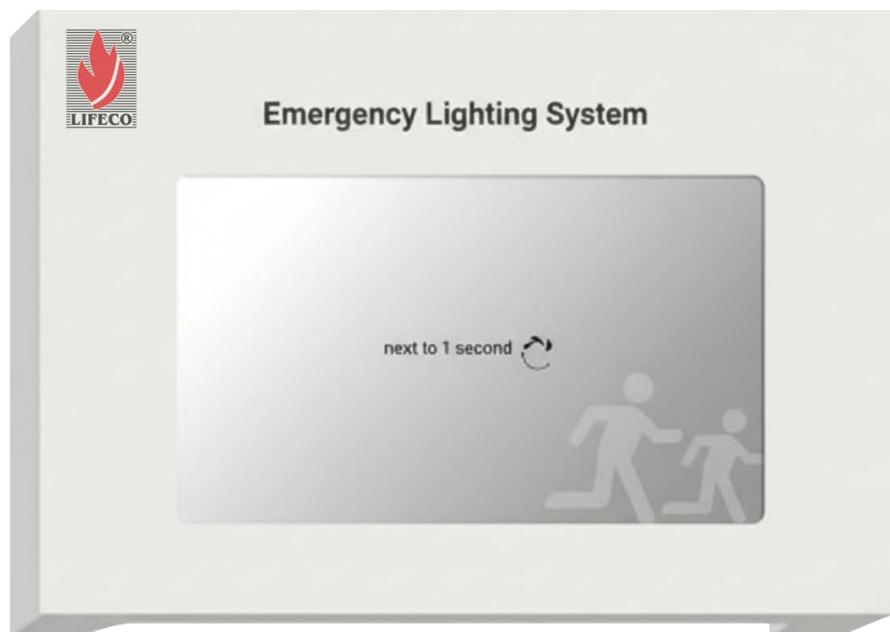


# LF-CMSP HOST DEVICE INSTRUCTION MANUAL



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## Main Technical Parameters

Model	LF-CMSP
Installation Method	Wall-mounted
Appearance Dimensions	252.6mm*155.6mm*33.8mm
Input Voltage	DC12V
Output Parameters	/
Communication Interfaces	1, Communicates with slave devices using CAN bus and serial transparent transmission mode, with a communication distance of up to 1500 meters; 2, RS232 interface and network interface are reserved.
Display Method	7 - inch capacitive touch screen
Operating Environment	Temperature: 0°C - 40°C, Humidity: ≤60%RH
Loading Capacity	Up to 250 lamps

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## Device Interfaces

As shown in Figure 2 - 1:

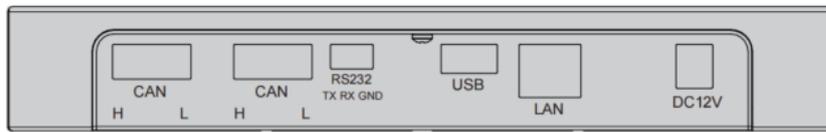


Figure 2-1:

## Display Screen Operation Instructions

After the host device is powered on, the login interface will appear (as shown in Figure 3 - 1). This device has two working modes: Visitor Mode and Administrator Mode.

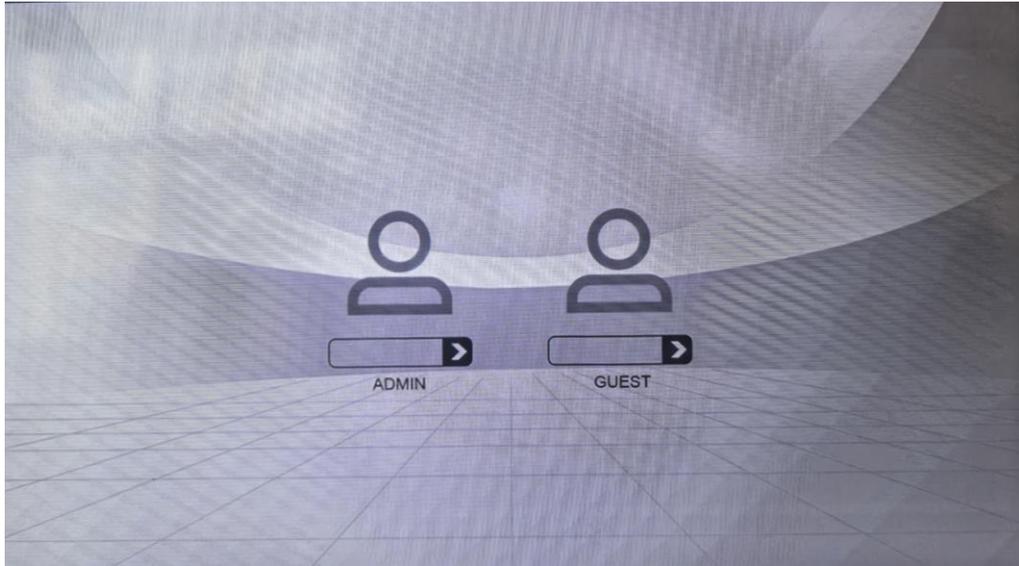


Figure 3 - 1

### 1.Visitor Mode

As shown in Figure 3 - 1, click the input dialog box on the right - hand side, and the interface shown in Figure 3 - 2 will pop up. Enter the password (the initial password is blank by default), click the OK button in the lower - left corner, return to the login interface, and click the user icon shown in Figure 3 - 1 to enter the Visitor Mode.

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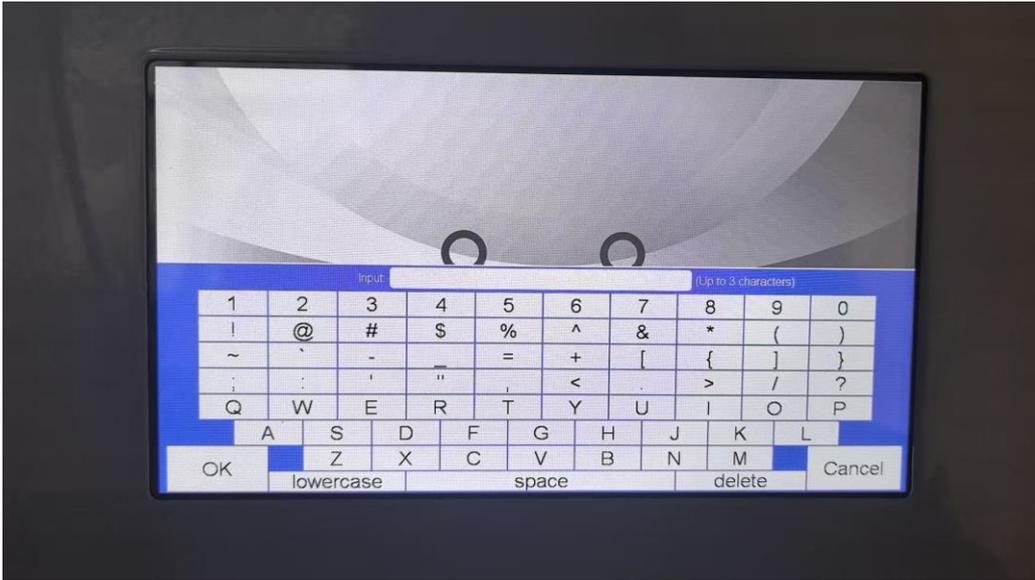


Figure 3 - 2

- In the user mode, the status of slave devices and the system time are displayed (as shown in Figure 3 - 3).

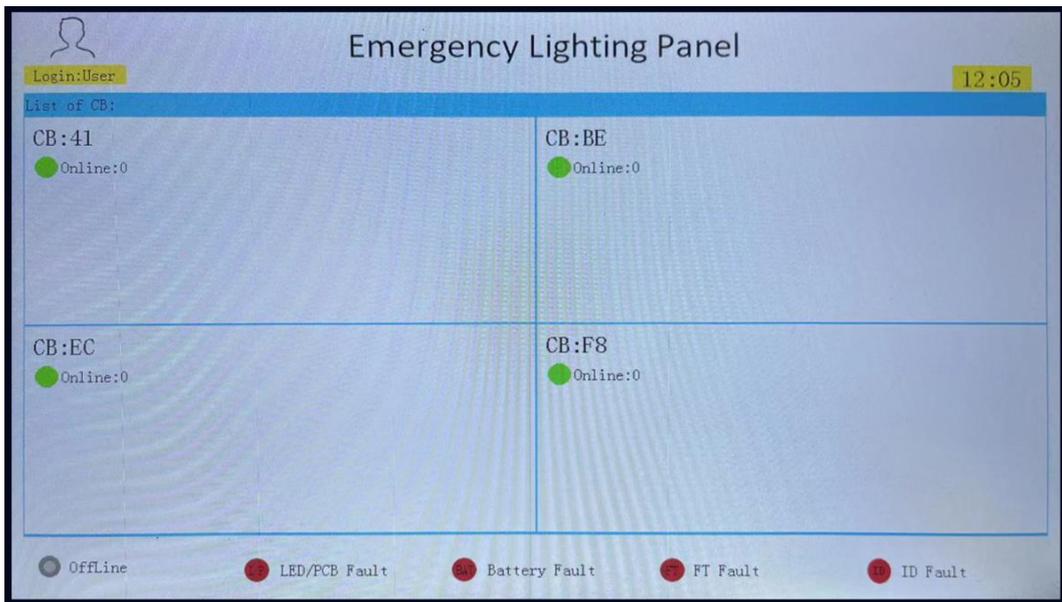


Figure 3-3

Click the visitor icon in the upper - left corner of Figure 3 - 3 to exit this mode.

## 2. Administrator Mode

As shown in Figure 3 - 1, click the input dialog box on the left - hand side, and the interface shown in Figure 3 - 4 will pop up. Enter the password (the

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initial password is blank by default), click the OK button in the lower -left corner to return to the login interface, and click the administrator icon shown in Figure 3 - 1 to enter the Administrator Mode.

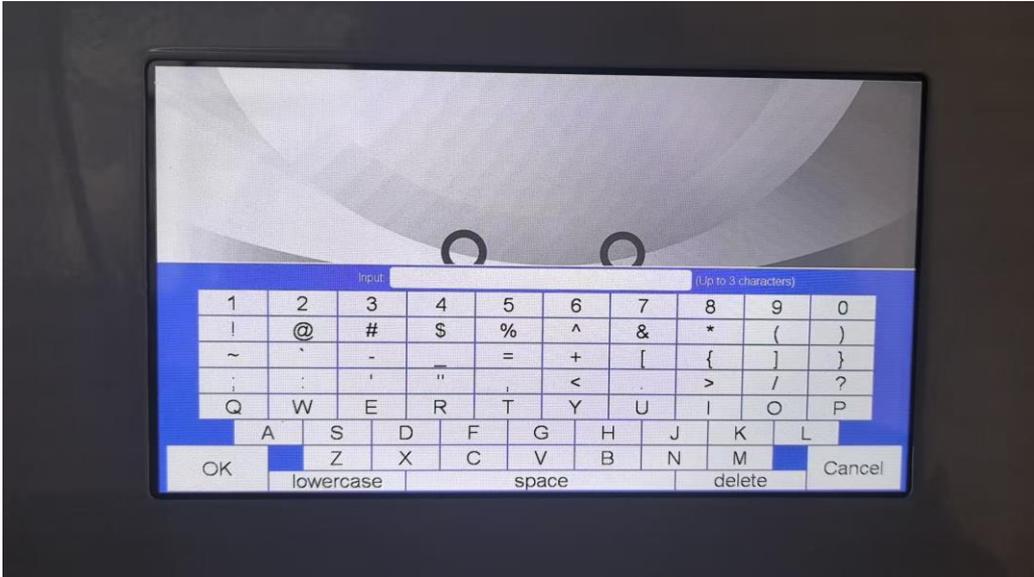


Figure 3 - 4

The HOME interface of the administrator mode is shown in Figure 3 - 5.

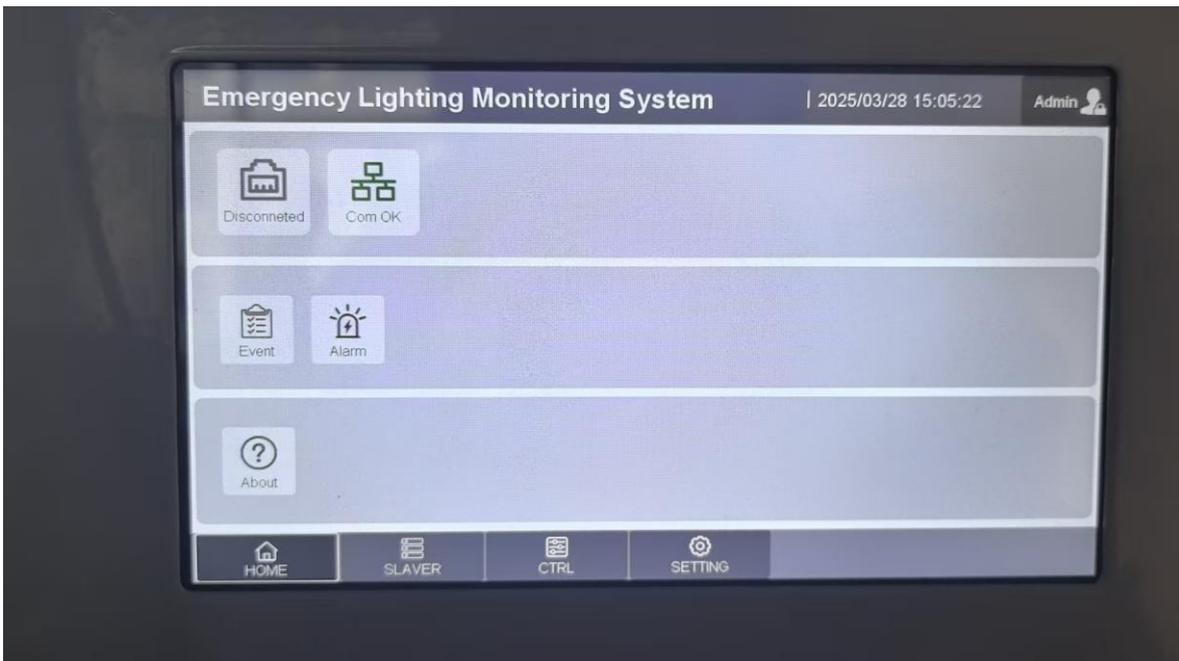


Figure 3-5

Buzzer ON/OFF:;

Buzzer ON/OFF: Drag to turn the buzzer on or off.

Disconneted/Conneted:;

Disconneted/Conneted: Network status display (this function is not available). Com OK

: CAN;

Com OK: CAN communication status is normal.

About: ;

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About: Host device information.

Alarm: ;

Alarm: Displays all alarm information of slave devices. Event

:

Event: Displays user operation history information.

Config:

Config: User configuration information.

List of CB:

List of CB: Displays information of all slave devices.

The SLAVER interface of the administrator mode is shown in Figure 3 - 6, which displays the status of connected slave devices. Click the corresponding slave device to view the detailed information of the slave device and the information of the lamps it loads.

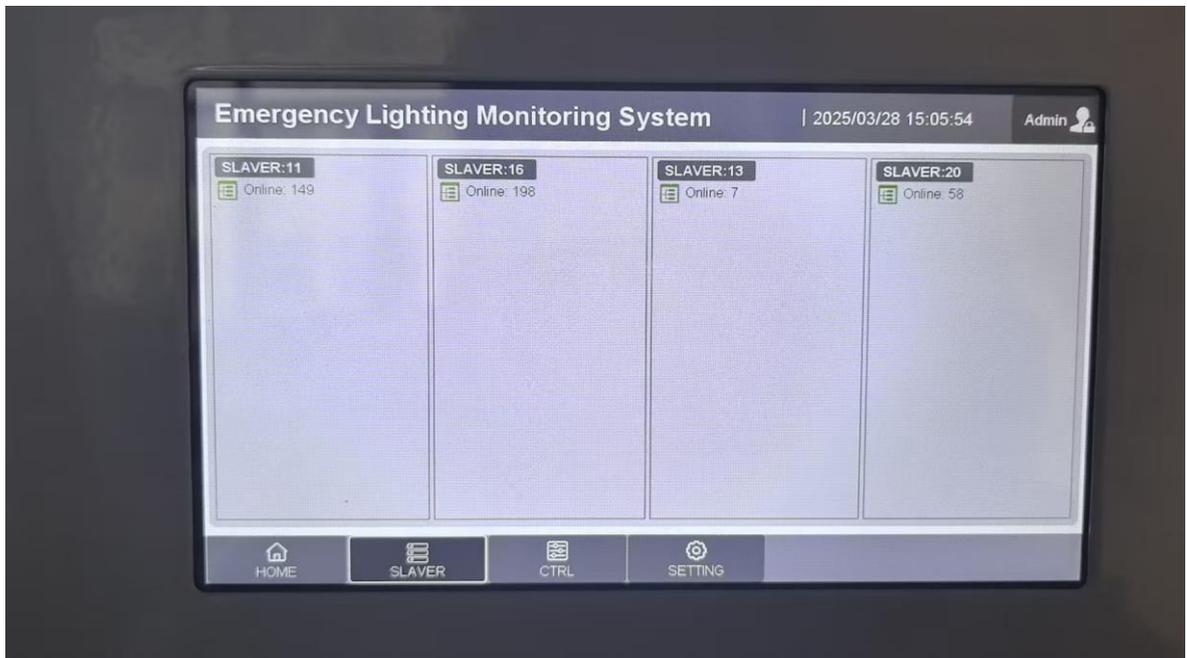


Figure 3-6

The CTRL interface of the administrator mode is shown in Figure 3 - 7.

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Figure 3-7

Search :

Search: Search for slave devices.

Reset :

Reset: Reset all slave devices and lamps.

Sound:

Sound: Turn the buzzer on and off.

Debug Mode:

Debug Mode: Reserved function.

[Figure 3 - 8: SETTING interface of administrator mode]

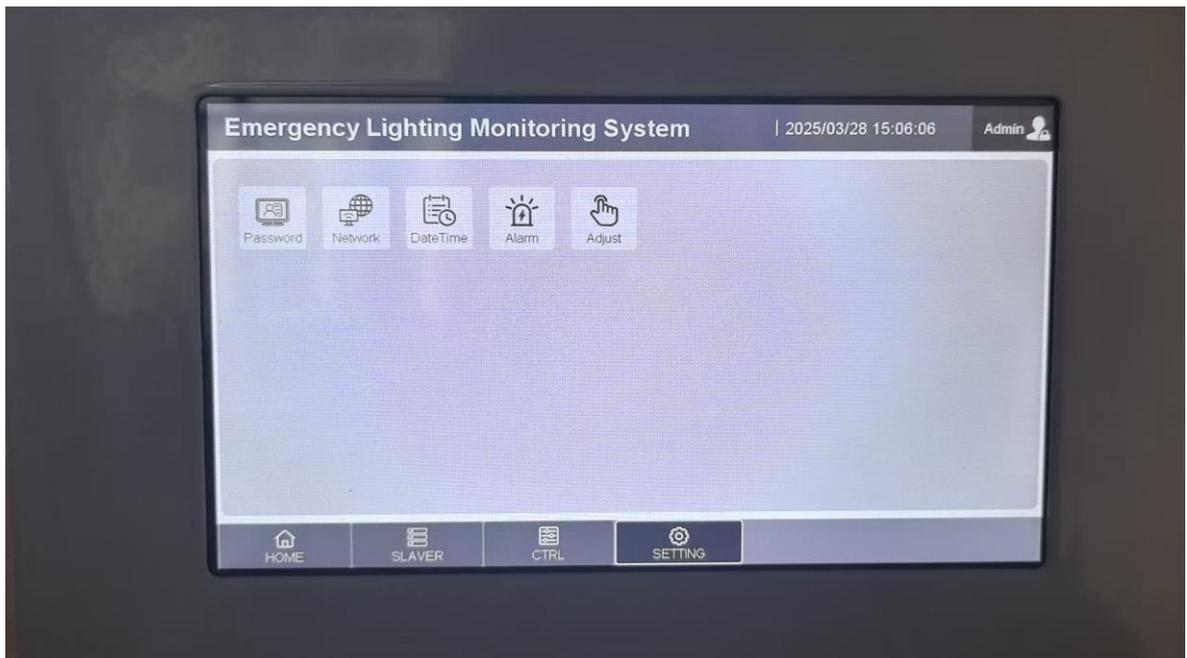


Figure 3-8

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Figure 3 - 8

Password :

Password: Login password setting.

Network :

Network: Network setting (reserved function).

DateTime:

DateTime: System time setting.

Alarm:

Alarm: Fault judgment setting (no need to set).

Adjus:

Adjus: Battery function setting (reserved function).

## 2.1 About (Host Device Information)



Figure 3-9

Version number of the host device.

Current number of connected slave devices.

Server IP address and port number.

Mac address and IP address of the host device.

## 2.2 Alarm (Lamp Fault Information)

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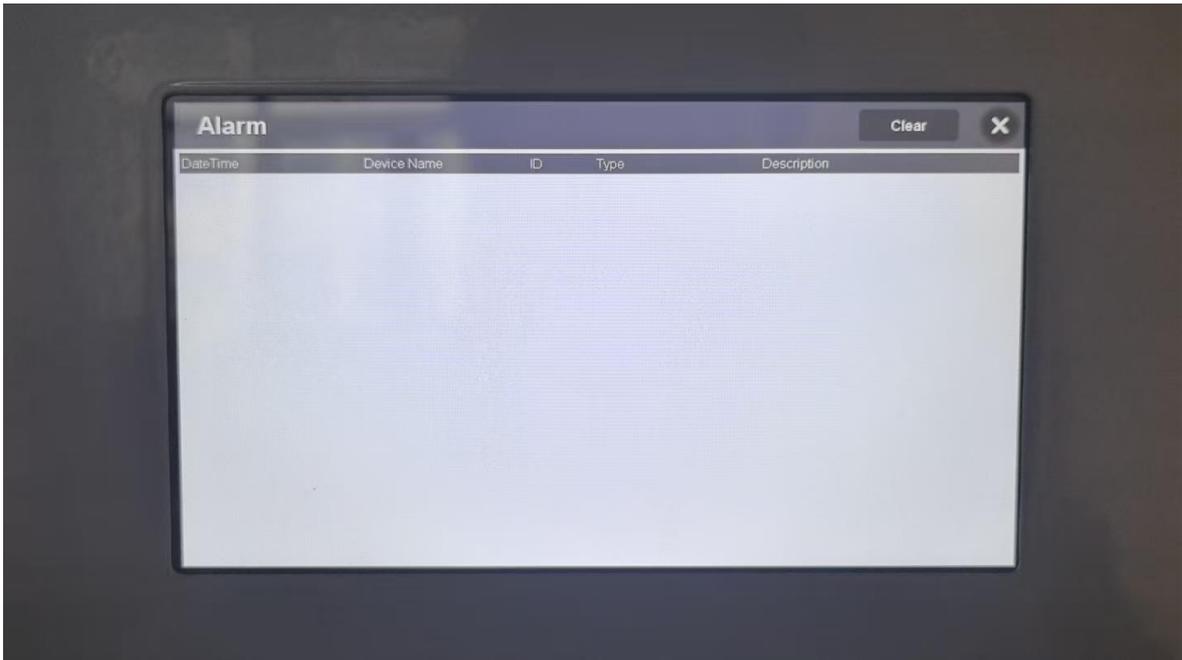


Figure 3 - 10

All lamp fault information will be displayed on the current interface. Click the Clear button to clear all fault information, and click the icon in the upper -right corner to exit the current interface.

Interface Introduction:

Date Time:

Date Time: Time when the fault occurred.

Device Name:

Device Name: Slave device ID.

ID:

ID: Lamp ID.

Type:

Type: Fault type.

Description:

Description: Fault description.

## 2.3 Event (User Operation Information)

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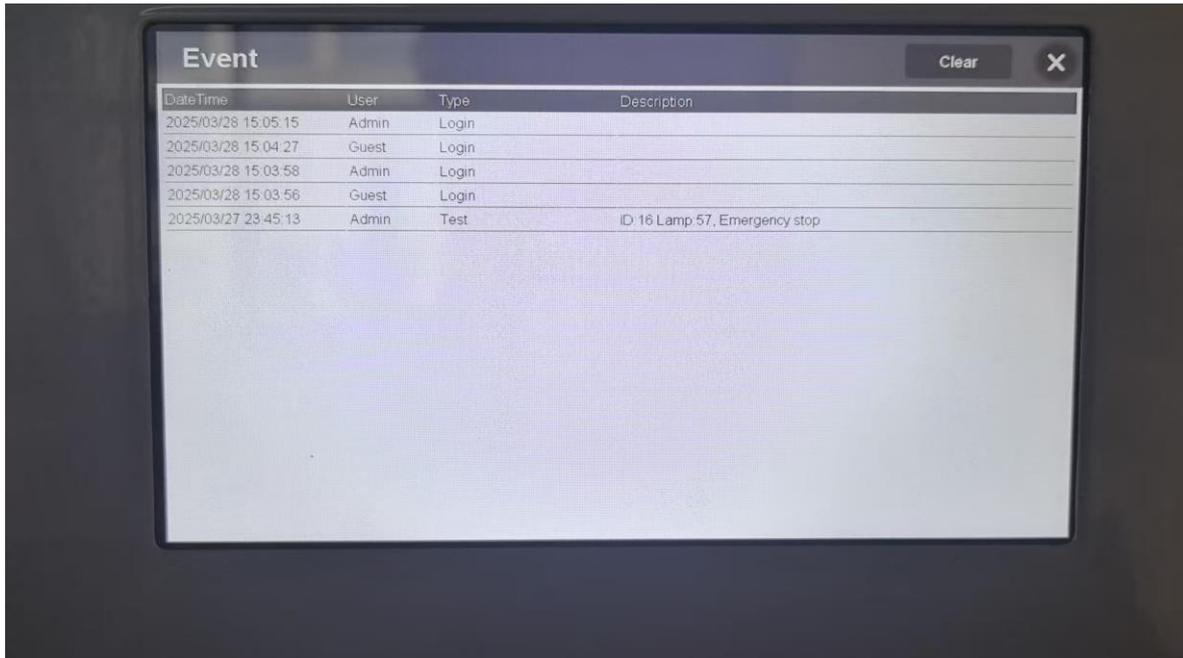


Figure 3-11

View the user operation history records in the Event interface. Click Clear to clear all historical records, and click the icon in the upper - right corner to exit the current interface.

#### Interface Introduction:

**DateTime:**

DateTime: Time when the event occurred.

**User:**

User: User who performed the event operation.

**Type:**

Type: Event type.

**Description:**

Description: Event description.

## 2.4 Search (Search for Slave Devices)

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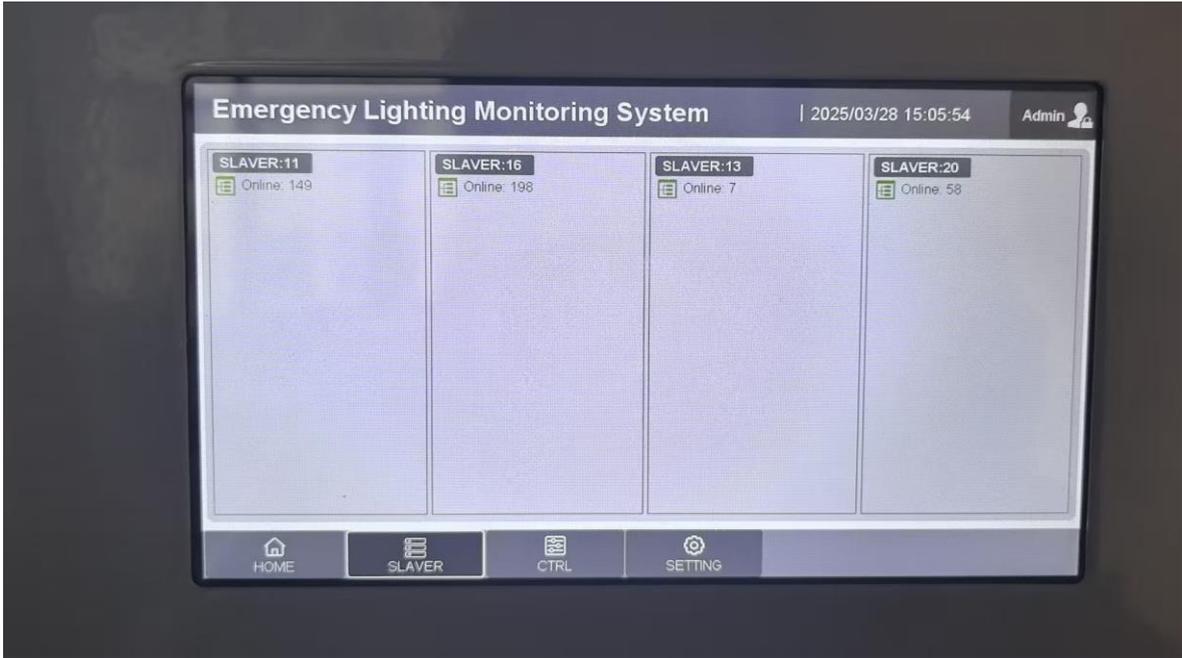


Figure 3-12

Click Search to search for slave devices. The slave device IDs will be displayed in the SLAVER section, with a maximum of 16 devices shown.

Note: Do not perform other operations during the search process. Observe the progress bar to determine the search progress.

## 2.5 DateTime: (System Time Setting)

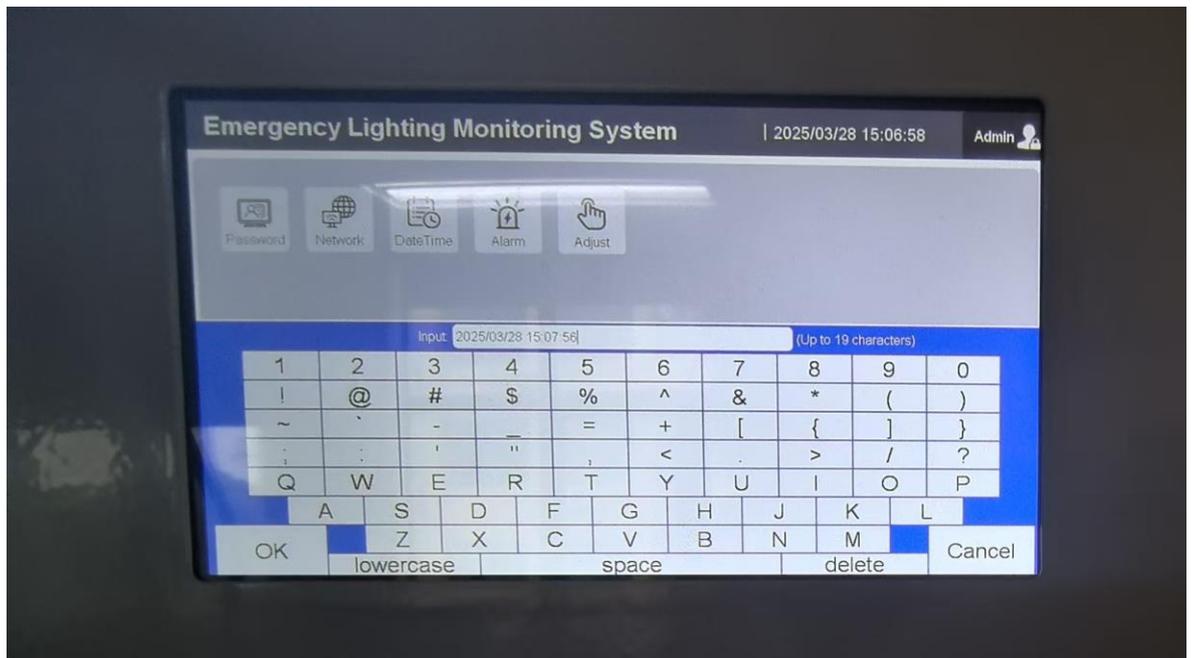


Figure 3 - 13

Click DateTime to set the system time. The format needs to be the same as the display. After entering, click OK.

## 2.6 Password: Login Password Setting



Figure 3-14

### Interface Introduction:

Login user needs password:

Login user needs password: Drag the slider to set the visitor password to on or off.

Login user password:

Login user password: Set the visitor password.

Login admin password:

Login admin password: Set the administrator password.

Note: After all operations are completed, click the Save button to save.

## 2.8 Lamp Control Interface

2.9

2.10

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Figure 3-15

Online:

Fault:

Offline:

Update:

SLAVER:

Version:

Name:

Pos:

Previous page:

Next page:

Offline: Number of offline lamps.

Update: Current update position.

SLAVER: Current slave device ID address.

Version: Current slave device version number.

Name: Current slave device name.

Pos: Current slave device installation location.

Previous page: Scroll up.

Next page: Scroll down.

Set button: As shown in Figure 3 - 15, it can be used to change the name of the slave device, the number of mounted lamps, and the installation location.

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Figure 3 - 15

Name: Set the name of the current slave device.

Lamp Count: Set the number of lamps mounted on the current slave device.

Pos: Set the installation location of the current slave device.

Note: After the above operations are completed, click the Save button to save.

Function Test: Monthly inspection, the lamps subordinate to the slave device are in an emergency state for 30S.

Duration Test: Annual inspection, the lamps subordinate to the slave device are in an emergency state for 3H.

Reset: Reset, the lamps subordinate to the slave device are reset.

- Click the lamp ID to enter the corresponding lamp control interface, as shown in Figure 3 - 17.

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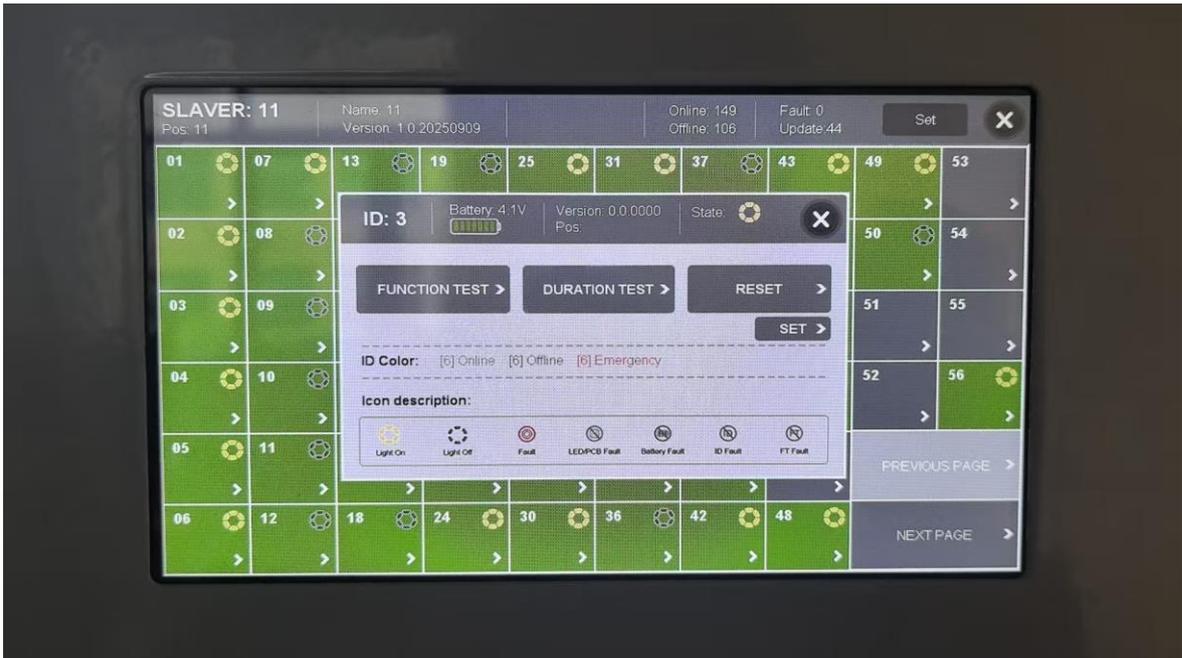


Figure 3 -16

ID: Lamp address.

Version: Lamp version.

State: Current lamp status.

Battery: Battery voltage.

Pos: Lamp installation location.

Function Test: Monthly inspection, the lamp is in an emergency state for 30S.

Duration Test: Annual inspection, the lamp is in an emergency state for 3H. Reset:

Reset, the lamp is reset.

ID color: Distinguish the current working state through font color.

Icon description: Description of the lamp status icon.

light on: The lamp is on.

light off: The lamp is off.

offline: The lamp is offline.

LED/PCB Fault: Lamp board fault.

FT Fault: Monthly/annual inspection fault.

Battery Fault: Battery fault.

ID Fault: ID fault.

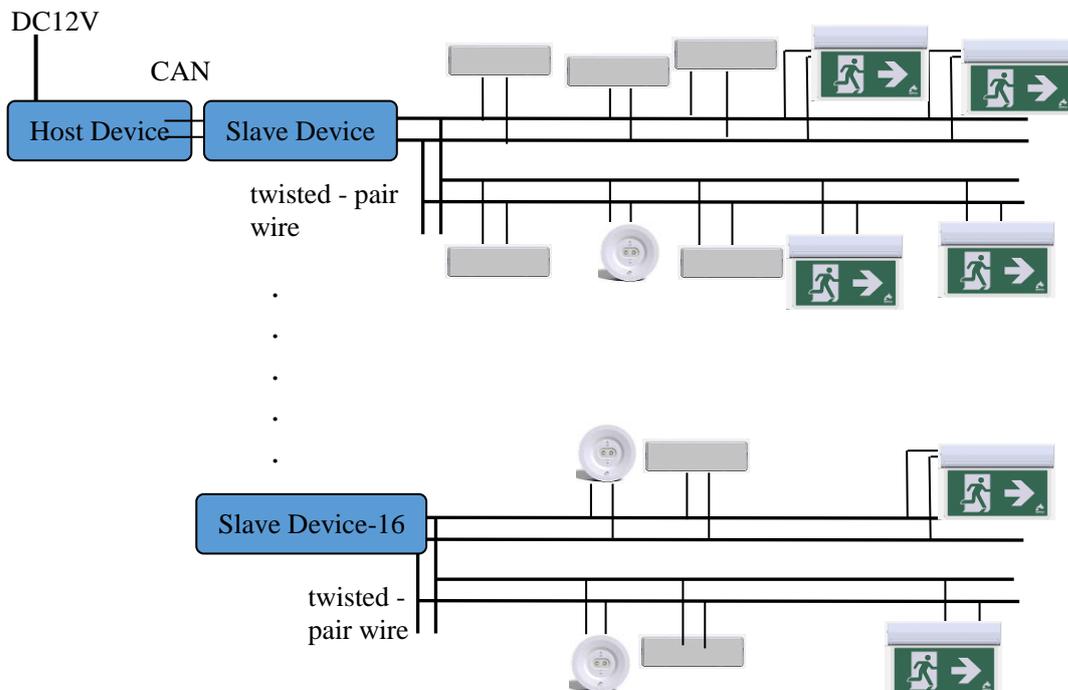
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## Precautions

1. One host device can be connected to a maximum of 16 slave devices, and one slave device can be connected to a maximum of 250 lamps.
2. The host and slave devices use CAN communication. The H and L ports cannot be reversed.
3. A CAN - dedicated cable must be used for communication between the host and slave devices, and the communication distance should not exceed 1500 meters. The CAN communication bus (must use shielded twisted - pair wire). If ordinary wires (without shielding) are used, the interference will be very large, resulting in poor communication or even no communication. Each controller device must be connected in series one by one, and there should be no star -shaped connection or bifurcation. If there is a star - shaped connection or bifurcation, the interference will be very large, resulting in poor communication or even no communication.
4. Twisted - pair wire must be used for communication between the slave device and the lamps, and the communication distance should not exceed 200 meters.
5. In case of a failure, please check according to the following steps:
  - o If the display screen cannot be displayed normally, the control board may be damaged. Please contact the supplier.
  - o If the slave device cannot be registered normally, first check in the alarm information to determine the problem. If there is no information about it, the slave device may be damaged. Please contact the supplier.
  - o If the bus voltage of a certain lamp device is lower than 22V, it may be due to over -loading or being too far from the slave device. It is recommended to use multiple slave devices for current sharing.

## NetworkingSchematicDiagram

- 1, Refer to the common lighting wiring method.
- 2, The distance between the farthest slave device and the host device is less than 1500 meters.
- 3、 The networking schematic diagram is as follows:



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Figure 5-1

## 1, Structural Features

6.1 Weight: 0.7Kg.

6.2 Installation Method: Fix it on the wall with a wall - mounted board. 6.3

Appearance and installation dimensions (unit: mm):

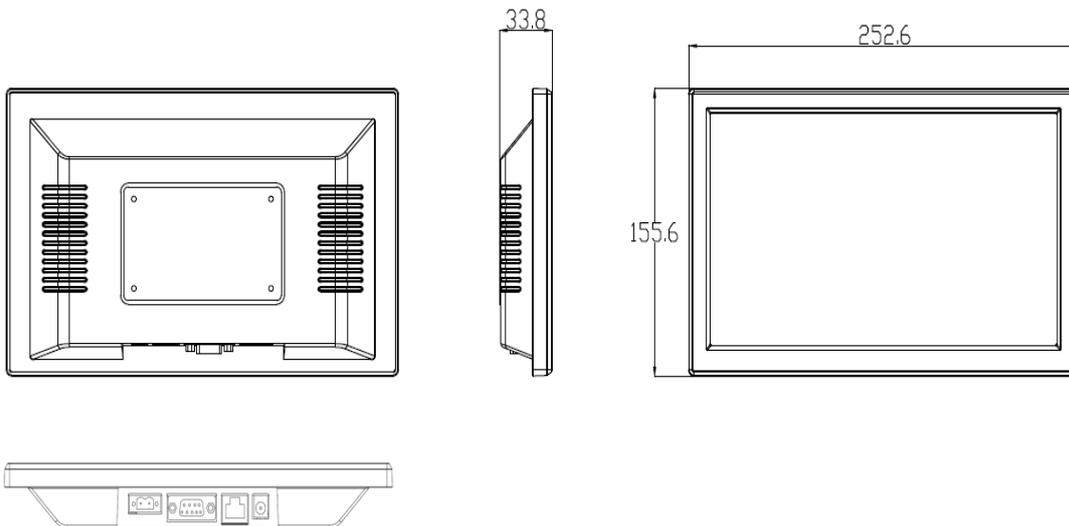


Figure 6-2

## Maintenance and Repair

When not in use for a long time, turn off the power switches of all devices in the system.

## Packaging and Storage

8.1 The packaging marks should include the graphic marks for packaging and storage of rain - proof, upward - placed, and fragile items.

8.2 The device should be packed in the packing box in the specified direction, and there should be shock - proof measures in the box.

8.3 This device should be stored in an environment with a temperature of 0 - +50°C, no condensation, and no corrosive gases.

## Unpacking and Inspection

9.1. When the device is taken out of the packing box, first check whether the appearance of the whole machine meets the following requirements:

1. There is no mechanical damage such as corrosion or cracks on the surface.
2. The fastening parts are not loose, and there is no foreign matter inside the machine.
3. All functions of the device are normal without abnormalities.
4. The text symbols and signs are clear.

9.2 Check the device accessories: All accessories are packaged separately, and there is a packing list inside. Please check item by item according to the list.

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## Annex A: Function Test Process

### 1. Device Connection

- 1.1 Connect the hardware devices according to the connection schematic diagram.
- 1.2 Click the password box on the right, enter the password, click OK to exit the password input interface, and click the Admin icon to enter the administrator mode interface.
- 1.3 Click the Search button to search for slave devices. The searched slave devices will be displayed in the device window.
- 1.4 Click the searched slave device to enter the lamp control interface. Click the Set button to set the number of lamps displayed on the interface.

## 2. Manual Monthly/Annual Inspection

### 1.1 Lamp Manual Monthly/Annual Inspection

- a、 Enter the lamp control interface, click the lamp to be operated, and a lamp information window will pop up.
- b、 Click Function Test or Duration Test to perform the monthly/annual inspection operation.

### 1.2 Monthly/Annual Inspection of All Lamps under the Slave Device

- a、 Enter the lamp control interface, click the Test button to enter the test interface. Click
- b、 Function Test or Duration Test to perform the monthly/annual inspection operation.

Note: All function tests will not affect the emergency operation of the lamps.