

iM9 Multi-function Box

User Manual v3.0

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Cautions

To prevent personal injury and to protect the device from damage, read and follow these safety precautions.

· Do not disassemble the device

Only our technicians are allowed to disassemble the device.

Only use the power supply and accessories specified by the manufacturer The operating voltage of this product is DC 5V. Only use the power cord provided with the product or the power cord that meets the appropriate local rating standards.

Prevent function interfaces from contact with charged objects

This is an electric product. The circuit elements may be damaged if the function interfaces contact charged objects, thus affecting the normal use of the product.

Grounding

To avoid electrical shock, ensure that the product is well grounded.

Class A statement

Warning: Using the product in a residential environment may cause radio interference.

Environmental Condition

Use only at altitudes not more than 5000m above sea level.

Avoid Moisture

This product is not waterproof, so avoid contact with liquid or operating the product in a humid environment.

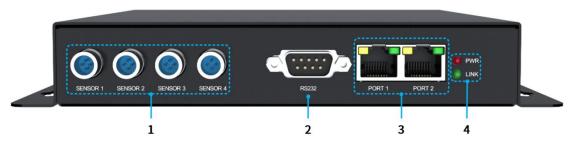
Keep the product away from flammable and explosive hazardous substances.

Unpacking and inspection

After unpacking, check the items according to the packing list in the box. Please contact the salesman in time if you find the accessories are incomplete.

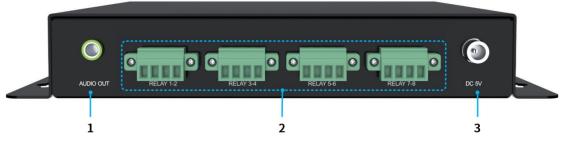
1 Appearance

Front panel



No.	Item	Function
1	SENSOR1~4	External sensor to monitor temperature/humidity/smoke/ brightness in real-time. ¹
2	RS232	Serial port for receiving commands of relay control and automatic brightness adjustment.
3	PORT1~2	2xRJ45 Gigabit Ethernet ports.Connected to a sender or a receiving card.Both ports support input and output.
4	Indicators	PWR: Power indicator. - Steady red: Normal power supply. LINK: Signal transmission status indicator. - Blinking green: Normal signal input.

Rear panel

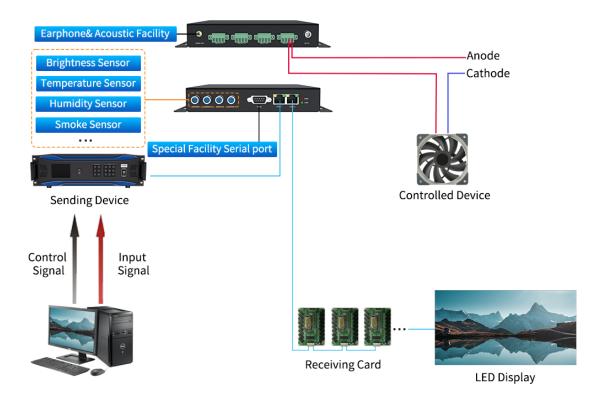


No.	Item	Function
1	AUDIO	Output the audio signal from the sending device.
2	RELAY 1-8 ²	Relay switch control for the auto time delay. - RELAY 1-4 are switches that delay the power on and off. - RELAY 5-8 are controlled switches for temperature and smoke.
3	DC 5V	DC 5V input.

 $^{^{\}rm 1}\,$ Sensor is optional. Please consult our technicians when using it.

² Current limit: 3A. Voltage limit: DC 30V, AC 42V.

2 Connection



3 Software configuration

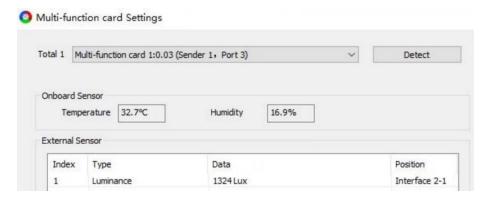
Please use the **LEDVISION** and **LEDSetting** software to configure the screen.

- Please make sure the LED screen was set up with the correct receiving card parameters.
- Before setting the parameters, ensure that the hardware is connected correctly, which means the sender and all receiving cards can be detected via software.
- **LEDVISION** is playback software, and **LEDSetting** is control software. Visit www.colorlightinside.com to download and install them.

3.1 Sensor information

You can get information about the on-board and external sensors of the Multi-function card automatically via the software. Click **Multi-function card Settings** on the **LEDSetting** main menu, select **Sensor Information**, then click **Detect**.

- On-board sensors, supporting temperature and humidity monitoring.
- Support external brightness sensor, temperature sensor, humidity sensor, noise sensor, smoke sensor, and air quality sensor.

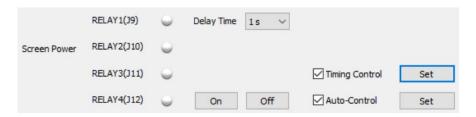


3.2 Relay control

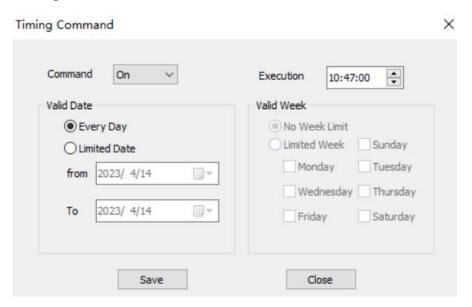
In order to control the multi-function box relays, click **Multi-function Card Settings** on the **LEDSetting** main menu and select **Relay Control**.

- The multi-function card time is used for timing control of the screen

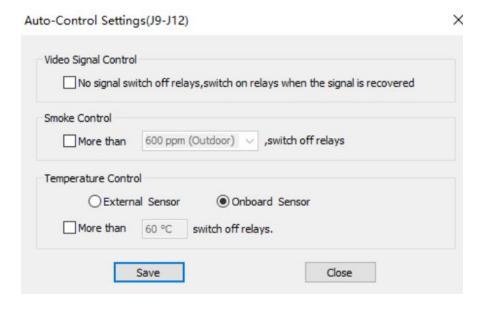
power supply (RELAY 1-2, RELAY 3-4). Click **On / Off** to manually control the **Screen Power**. Switch **Delay Time** to change the interval between the manual control of RELAY 1-2 and RELAY 3-4.



- To set timing command, select **Screen Power** (RELAY 1-2, RELAY 3-4) **Timing Control**, then click **Set**, and **Save** it.



- To set the auto-control command, select **Screen Power** (RELAY1-2, RELAY3-4) **Auto-Control**, then click **Set**, and **Save** it.



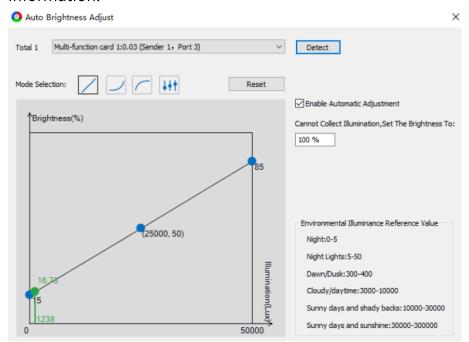
- To control the individual switches (RELAY 5-6, RELAY 7-8), click **On/Off** to manually control the relay switches.



- To set the auto-control command, select relay switches (RELAY 5-6, RELAY7-8) **Auto-Control**, then click **Set**, and **Save** it.

3.3 Auto brightness adjust

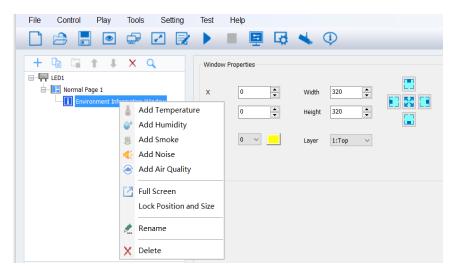
To adjust the brightness of the LED screen, click **Multi-function Card Settings** on the LEDSetting main menu > **Auto Brightness Adjust**, the software can automatically obtain the multi-function card information.



- To turn on the auto-adjustment brightness function, select Enable Automatic Adjust. You can switch the brightness adjustment Mode Selection as required.
- Drag the **blue dot** on the curve to change the shape of the **auto- brightness curve**.
- If you need to restore the initial curve, click Reset.

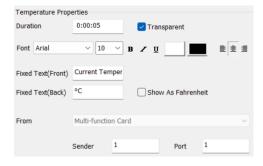
3.4 Environment information window

Right-click LED screen number > click Normal Page > click
Environment Information Window to add different monitoring
items, such as Add Temperature, Add Humidity, Add Smoke, Add
Noise, Add Air Quality, etc. All items will be displayed in a loop.



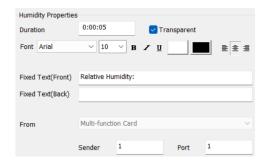
3.4.1 Add temperature information

Right click Environment Information Window > click Add Temperature.³



3.4.2 Add humidity information

Right click Environment Information Window > click Add Humidity.⁴



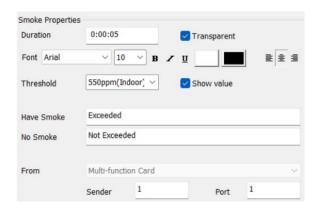
³ Priority display of external temperature sensor monitoring data.

⁴ Priority display of external humidity sensor monitoring data.

3.4.3 Add smoke information

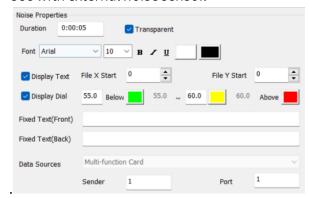
Right click Environment Information Window > click Add Smoke.

Use with external smoke sensor.



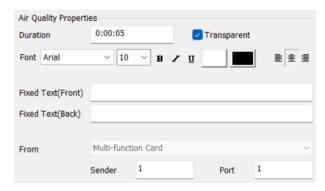
3.4.4 Add noise information

Right click Environment Information Window > click Add Noise.
Use with external noise sensor.



3.4.5 Add air quality information

Right click Environment Information Window > click Add Air Quality. Use with external air quality sensor.



Statement

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