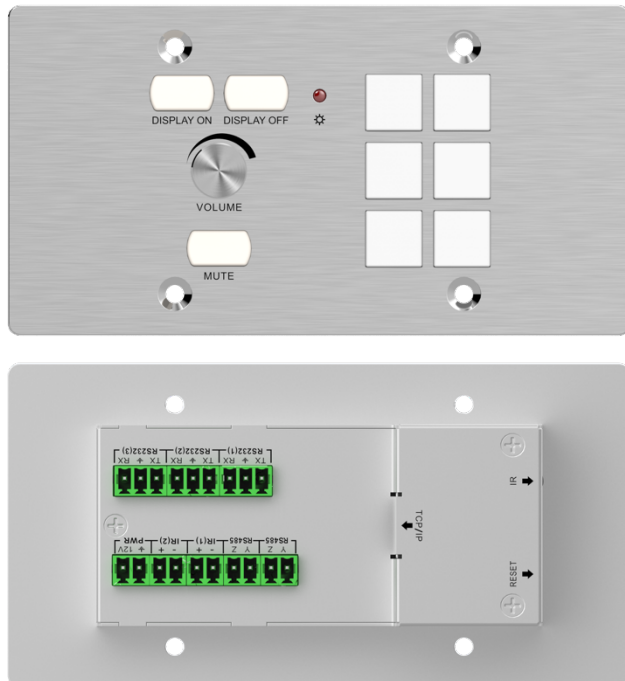


User Manual

WP9EU-IP

Wallplate Control Panel

8 programmable buttons plus 1 audio mute button, 3 built-in programmable RS232, 2 RS485 and 2 IR connectors.



All Rights Reserved

Version: WP9EU-IP_2018V1.0

Wallplate Control Panel

Preface

Read this user manual carefully before using the product. Pictures are shown in this manual for reference only, different models and specifications are subject to real product.

This manual is only for operation instruction, please contact the local distributor for maintenance assistance. In the constant effort to improve the product, we reserve the right to make functions or parameters changes without notice or obligation. Please refer to the dealers for the latest details.

FCC Statement

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. It has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a commercial installation.

Operation of this equipment in a residential area is likely to cause interference, in which case the user at their own expense will be required to take whatever measures may be necessary to correct the interference.

Any changes or modifications not expressly approved by the manufacture would void the user's authority to operate the equipment.

Wallplate Control Panel

SAFETY PRECAUTIONS

To ensure the best performance from the product, please read all instructions carefully before using the device. Save this manual for further reference.

- Unpack the equipment carefully and save the original box and packing material for possible future shipment
- Follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- Do not dismantle the housing or modify the module. It may result in electrical shock or burn.
- Using supplies or parts not meeting the products' specifications may cause damage, deterioration or malfunction.
- Refer all servicing to qualified service personnel.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Do not put any heavy items on the extension cable in case of extrusion.
- Do not remove the housing of the device as opening or removing housing may expose you to dangerous voltage or other hazards.
- Install the device in a place with fine ventilation to avoid damage caused by overheat.
- Keep the module away from liquids.
- Spillage into the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls or spills on to the housing, unplug the module immediately.
- Do not twist or pull by force ends of the optical cable. It can cause malfunction.
- Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.
- Unplug the power cord when left unused for a long period of time.
- Information on disposal for scrapped devices: do not burn or mix with general household waste, please treat them as normal electrical wastes.

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Wallplate Control Panel

1. Introduction

1.1 Introduction to WP9EU-IP

The WP9EU-IP is a wallplate control panel with 8 programmable buttons plus 1 audio mute button. It features 3 built-in programmable RS232, 2 RS485 and 2 IR connectors.

The programmable control panel can fully control the compatible device via TCP/IP, RS232, RS485 and IR, such as matrix switcher, scaler switcher, projectors, screens, etc. Use the device for presentations in showrooms, classrooms, and boardrooms.

1.2 Features

- Features 8 programmable buttons plus 1 audio mute button, 3 built-in programmable RS232, 2 RS485 and 2 IR connectors.
- Each button can be programmed to send RS232, RS485, IR or TCP/IP commands simultaneously to control third party devices.
- The unit can be easy configured using the supporting control panel via the ENTERNET port.
- The volume control buttons is specially designed for various applications.
- Crystal and backlit buttons with easy user-friendly customizable changeable labels.
- The backlit brightness is controllable.

1.3 Package List

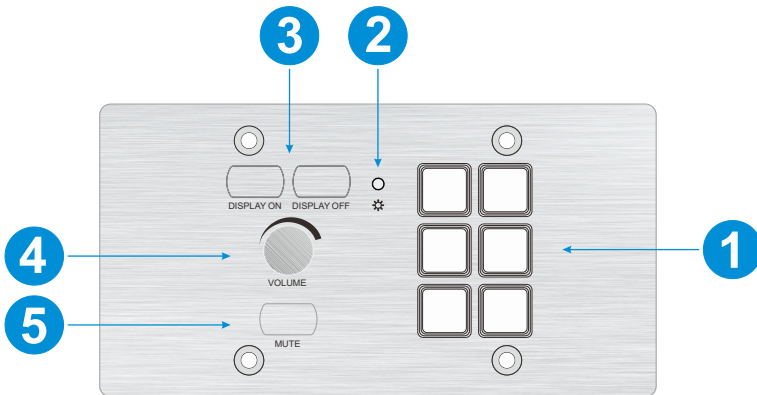
- 1 x WP9EU-IP
- 5 x 2-pin pluggable terminal blocks
- 6 x Button caps
- 1 x User manual
- 1 x Power adapter (12VDC 1A)
- 3 x 3-pin pluggable terminal blocks
- 1 x Button label

Note: Please confirm if the product and the accessories are all included, if not, please contact with the dealers.

Wallplate Control Panel

2. Panel Description

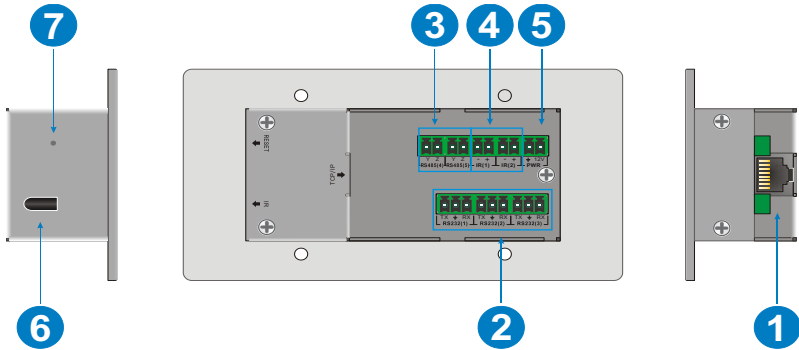
2.1 Front Panel



No.	Name	Description
1	Button	<p>6 crystal and luminescent buttons, programmable functions can be customized via the Control Software.</p> <p>Each label within a button can be easily changed. Simply select the label you need and change it as shown below:</p>
2	Power LED	The LED illuminates red when power is applied.
3	DISPLAY ON	The button can be customized to turn on the third-party device.
	DISPLAY OFF	The button can be customized to turn off the third-party device.
4	VOLUME	The rotary knob can be customized as Volume Up and Volume Down buttons for specific application.
5	MUTE	The button can be customized as Toggle Mute and Unmute buttons for specific application.

Wallplate Control Panel

2.2 Rear Panel



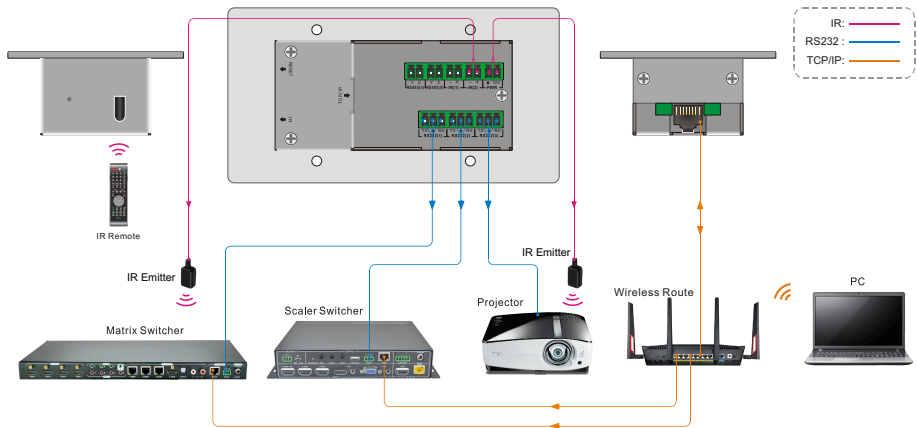
No.	Name	Description
1	ETHERNET	<p>RJ45 connector for connecting PC to run the Control Software to customize the programmable functions for all buttons.</p> <p>After buttons programming, the RJ45 connector should be connected to the third-party device which needs to be controlled via TCP/IP.</p> <p>Note: The wallplate control panel and third-party devices can connected to the LAN to facilitate remote control and simplify system connection.</p>
2	RS232 (1) ~ RS232 (3)	3-pin RS232 terminal blocks for connecting the third-party devices which need to be controlled via RS232.
3	RS485 (4) ~ RS485 (5)	2-pin RS485 terminal blocks for connecting the third-party devices which need to be controlled via RS485.
4	IR (1) ~ IR (2)	2-pin IR terminal blocks for connecting with IR emitters to control the third-party devices via IR.
5	PWR(12V)	2-pin terminal block for connecting 12V DC power adaptor.
6	IR Sensor	Built-in IR receiver for receiving IR code from IR remote to build the IR database.
7	RESET	Press and hold this button for 3 seconds until the power LED goes out. Then the LED will light up while the device is restored to factory defaults successfully.

Wallplate Control Panel

3. System Connection

The WP9EU-IP can active different ports at the same time. It means that every button can send RS232, RS485, TCP/IP and IR control signal synchronously.

The demo system diagram as below:



- 1) Connect the WP9EU-IP to a **LAN** port of Wireless Route.
- 2) Connect a control PC to the Wireless Route.
- 3) Connect the third-party devices (such as matrix switcher and scaler switcher) to the **LAN** port of Wireless Route.
- 4) Connect the third-party devices (such as matrix switcher, scaler switcher and projector) to **RS232 (1)**, **RS232 (2)** and **RS232 (3)** ports.
- 5) The third-party devices which support RS485 communication can be connected to **RS485 (4)** and **RS485 (5)** ports.
- 6) Connect the IR Emitters to **IR (1)** and **IR (2)** ports.
- 7) Plug in 12V DC power supply adapter.

Note: The control PC can be directly connected to the **TCP/IP** port of WP9EU-IP to customized button functions. After buttons programming, disconnect the PC, and then connect the third-party device to the **TCP/IP** port.

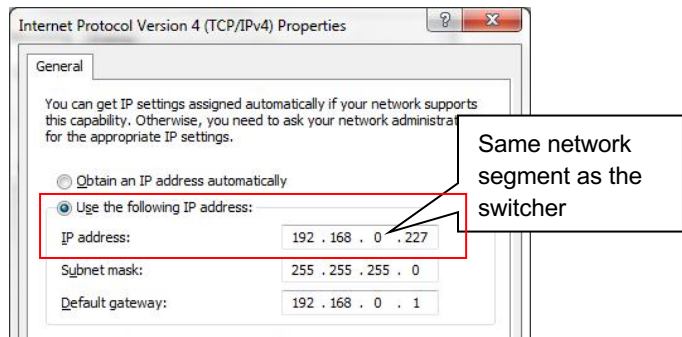
Wallplate Control Panel

4. Control Software

4.1 Basic Setting

The Control Software is used to easily set functions for every button.

- 1) According to the system diagram to establish system connection.
- 2) The default IP of WP9EU-IP is 192.168.0.178 (modifiable), the network segment of control PC must be set the same as the WP9EU-IP's.



3) Installation/uninstallation of Control Software:

- Installation: Copy the software package to the control PC.
- Uninstallation: Delete all the software files in corresponding file path.

Wallplate Control Panel

4) Double-click the below icon to run this software:



The below main window has five parts: Panel Set, TCP/IP, Action List, Event Set and Event List.

Panel Set: Click any key to set its action.

Show IP addresses of all connected wallplate control panels in LAN.

Show all key actions, and any action can be chosen for setting events.

The screenshot shows the main window of the Wallplate Control Panel software. The interface is divided into several sections:

- Panel Set:** Contains a grid of keys (1-6), AUDIO controls (KNOB, MUTE), and DISPLAY controls (ON, OFF). It also has fields for IP Address, Net Mask, Gateway, and Port.
- TCP/IP:** A table with columns 'Num' and 'Data' for listing connected panels. It includes a 'Clear All' button.
- Action List:** A table with columns 'Key', 'Type', and 'Data' for listing key actions. It includes a 'Clear All' button.
- Event Set:** A configuration panel for a selected key action. It includes fields for Lib name, Lib Function, Port, Delay Send, Baud Rate, Data Bit, Stop Bit, Parity, Format (ASCII/HEX), and End Char for ASCII. It also has 'Change Lib', 'Edit Lib', 'Clear', and 'Add' buttons.
- Event List:** A table with columns 'Num', 'Type', and 'Data' for listing events for the selected key action. It includes a 'Clear All' button.

At the bottom of the window, there is a status bar showing: 2018/1/25 14:00, Status: Disconnected, UDP Status: Activated, Local IP: 172.168.12.25.

Set events for the selected key action.

Show all events for the selected key action.

Wallplate Control Panel

Menu Options of Control Software:

The header of the main window features four titles including File, System, Connection and Help.

- Click “File” → “Open” to invoke an available configuration file.
- Click “File” → “Save” to save the current configuration data into the installation directory.
- Click “File” → “Save as” to export all configuration information and save as a file.

- Click “System” → “Version” to query the current software version.
- Click “System” → “Message” to query the Link Status, Machine Type, Software Version, IP Information, MAC address.
- Click “System” → “Software Update” → Open upgrade Web page (<http://192.168.0.178:4001/>) on IE → Type User ID (admin) and Password (123456) → upload update file → Click “Upload” → Click “Reset MCU”.
- Click “System” → “Factory Defaults” to restore factory defaults.

- Click “Connection” → “TCP/IP” → “Reconnect” to refresh all connected WP9EU-IP.
- Click “Connection” → “Read from Device” → to load the MCU data of the selected WP9EU-IP to control software.
- Click “Connection” → “Write to Device” → to download the current configuration data of control software to the selected WP9EU-IP.

Button Setting Procedure:

The nine programmable buttons should be set by the following steps:

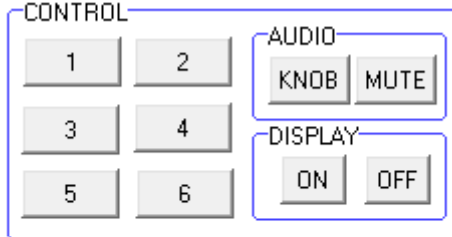
- 1) Click any button to set key actions, refer to **4.2 Panel Set**.
- 2) Select any key action, refer to **4.3 Action List**.
- 3) Set the button functions for the selected key action, refer to **4.4 Event Setting** and **4.5 Event List**.

Wallplate Control Panel

4.2 Panel Set

The below Panel Set part shows 9 customizable buttons can be programmed via the control software.

Panel Set

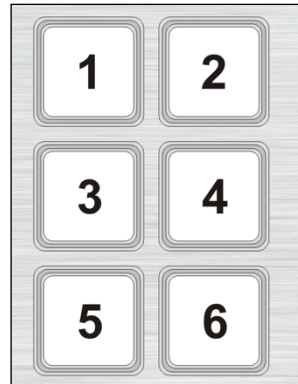


IP Address: . . .

Net Mask: . . .

Gateway: . . .

Port: 



Buttons 1-6, KNOB, MUTE, ON, OFF, correspond to the buttons on WP9EU-IP. For example, click the button 1 to set its key action as below:

Key Type:

- Press: Execute events when press button.
- Release: Execute events when release button.
- Toggle: The button can be regard as composite key, press and press again to execute different events.

Key Group	Key Name
Group 1	1

Built key group for LED setting.

Wallplate Control Panel

4.3 Action List

All key actions will be shown on the below action list.

Action List

The screenshot shows the Action List interface. At the top, there are three buttons: a delete button (orange square with a white 'x'), a trash button (red square with a white trash can icon), and a 'Clear All' button (grey rectangle). Below these buttons is a table with three columns: 'Key', 'Type', and 'Data'. The table contains three rows of data. Callouts with green boxes and arrows point to the buttons and table rows to explain their functions.

Key	Type	Data
1	Key1	Press
2	Key2	Press
3	Key3	Toggle

Callout 1 (Delete the selected action.): Points to the orange delete button.

Callout 2 (Delete all invalid actions which have no events.): Points to the red trash button.

Callout 3 (Empty all actions.): Points to the 'Clear All' button.

Wallplate Control Panel

4.4 Event setting

The Event Set part supports RS232, RS485, IR, TCP/IP, Delay, Compare, LED and Toggle setting. Before set events, at least one key action must be added first. The following introduction is about how to set events for each action.

4.4.1 RS232 Setting

This item is used for setting the events of the selected key action to control the third-party device through RS232 (1~3) and RS485 (4~5) ports.

-Event Set

The screenshot displays the 'Event Set' configuration window. On the left, a vertical list shows event types: RS232 (highlighted in blue), IR, TCP/IP, Delay, Compare, LED, and Toggle. The main configuration area is titled 'RS232/485' and contains the following fields and controls:

- Lib name:** A text input field.
- Lib Function:** A dropdown menu.
- Port:** A dropdown menu with 'Port1' selected.
- Baud Rate:** A dropdown menu with '9600' selected.
- Data Bit:** A dropdown menu with '8' selected.
- Stop Bit:** A dropdown menu with '1' selected.
- Parity:** A dropdown menu with 'None' selected.
- Format:** Radio buttons for 'ASCII' (selected) and 'HEX'.
- End Char for ASCII:** A dropdown menu with 'NULL' selected.
- Delay Send:** A dropdown menu with 'None' selected.
- Data:** A large text input field with 'Clear' and 'Add' buttons.
- Change Lib** and **Edit Lib** buttons are located to the right of the Lib name and Lib Function fields.

Operation procedure:

- 1) Select a key action in action list.
- 2) Set the "Lib Name" and "Lib Function" as needed.
- 3) Select the RS232/485 port.
- 4) Confirm and set the baud rate, data bit, stop bit and parity.
- 5) Type RS232 command in data box, and then press "add" to save.

Wallplate Control Panel

- 6) The RS232 data also can be selected from library. Click “Change Lib” to select an available library file, or click “Edit Lib” to create a new library file as below:

Open/create a library

Create/delete the function name of the command.

Type RS232 command for device control.

Note: Once set up, please press “Save” to save the setting or press “Save as” to save the setting as a file, and then press “OK”.

- 7) The number of transmission strings and the delay time between strings can be set.

Event Set

RS232/485 IR TCP/IP Delay Compare LED Toggle

Lib name:

Lib Function:

Port:

Baud Rate:

Data Bit:

Stop Bit:

Parity:

Format
 ASCII HEX

End Char for ASCII

Change Lib Edit Lib

Delay Send:

Send no. of transmission strings

Delay time between string

Data:

Clear Add

Wallplate Control Panel

4.4.2 IR Setting

This item is used for setting the events of the selected key action to control the third-party device through IR (1~2) ports.

Event Set

RS232	RS232/485	IR	TCP/IP	Delay	Compare	LED	Toggle
IR							
TCP/IP							
Delay							
Compare							
LED							
Toggle							

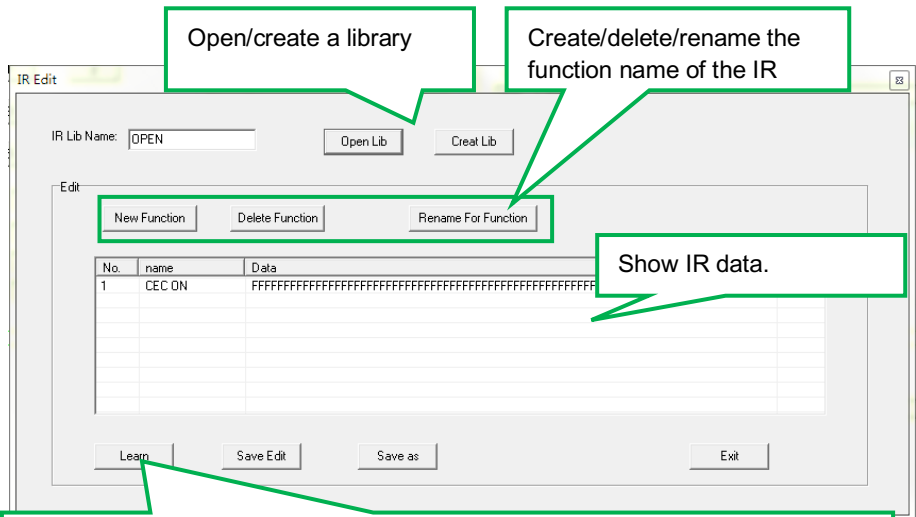
Lib name:	<input type="text" value="Open"/>	Delay Send:	<input type="text" value="None"/>
Lib Function:	<input type="text" value="CEC ON"/>		
Port:	<input type="text" value="Port1"/>		
Carrier:	<input type="text" value="On"/>		

<input type="button" value="Change Lib"/>	<input type="button" value="Edit Lib"/>	<input type="button" value="Add"/>
---	---	------------------------------------

Wallplate Control Panel

Operation procedure:

- 1) Select the key action in action list.
- 2) Set the “Lib name” and “Lib Function” as needed.
- 3) Select the IR port.
- 4) Set the IR carrier mode: On/Off.
- 5) Click “Change Lib” to select an available library file or click “Edit Lib” to create or edit a library file as below:



IR leaning procedure:

- 1) Click “Learn” to enter IR learning mode.
- 2) Put the IR Remote close to the IR sensor of wallplate control panel.
- 3) Press any button on the IR Remote to send the IR code to the IR sensor, and the IR edit box will refresh the IR data.
- 4) Follow the above steps can learn other function of the remote buttons.

Note: The IR learning mode will be exit automatically while if no operation within 3 seconds.

Note: Once set up, please press “Save Edit” to save the setting or “Save as” to save as a file, and then press “OK”.

Wallplate Control Panel

- 8) The number of transmission strings and the delay time between strings can be set.

-Event Set

RS232	RS232/485	IR	TCP/IP	Delay	Compare	LED	Toggle
IR	Lib name:	Open	Delay Send:	Set	Send no.of transmission strings		
TCP/IP	Lib Function:				1		
Delay	Port:	Port1			Delay time between string		
Compare	Carrier:	On			1		
LED	Change Lib		Edit Lib		Add		
Toggle							

Wallplate Control Panel

4.4.3 TCP/IP Setting

This item is used for setting the events of the selected key action to control the third-party device through TCP/IP port.

Event Set

- RS232
- IR
- TCP/IP**
- Delay
- Compare
- LED
- Toggle

Type the IP address of third-party device.

RS232/485 IR TCP/IP Compare LED Toggle

IP: 192.168.0.178

Port: 4001

Format: ASCII HEX

End Char for ASCII: NULL

Data:

Clear

Add

Type the control command.

Wallplate Control Panel

4.4.4 Delay Setting

This item is used for setting the delay time between two events. If set the delay time to be 3 seconds, it means that the first event starts executing at 12:00:00, followed by the second event executing at 12:00:00:03.

The delay time setting showed as below:

Event Set

- RS232
- IR
- TCP/IP
- Delay
- Compare
- LED
- Toggle

Hour: 0~23
Minute: 0~59
Second: 0~59

Hour: 1
Minute: 11
Second: 18

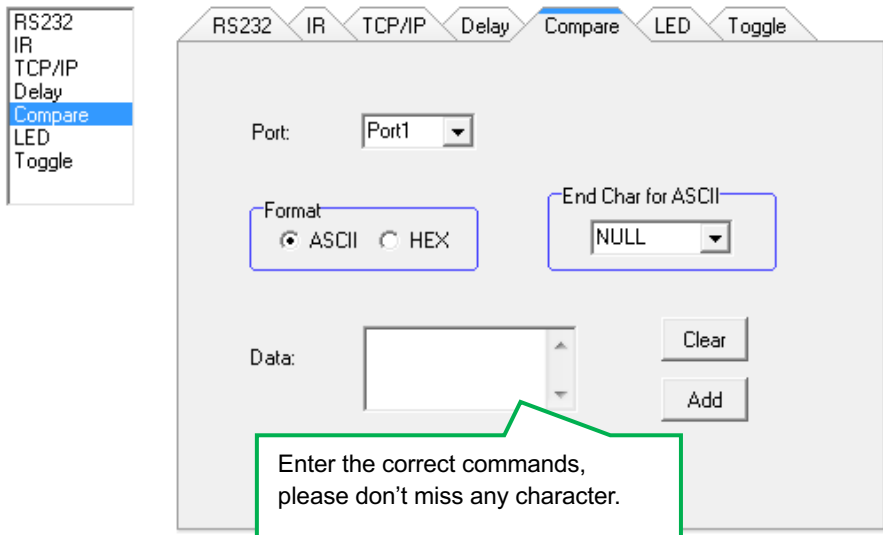
Reset Add

Wallplate Control Panel

4.4.5 Compare Setting

This item is used for comparing the RS232 feedback commands. When trigger button to send RS232 command to the third-party device, the device will send back a feedback command. If we add the correct command in the data box, the WP9EU-IP will compare it with the received feedback command to verify the availability of sending command. The compare setting showed as below:

Event Set



The screenshot shows the 'Compare' configuration window. On the left, a vertical menu lists event types: RS232, IR, TCP/IP, Delay, Compare (highlighted in blue), LED, and Toggle. The main window has tabs for each type, with 'Compare' selected. The 'Port' dropdown is set to 'Port1'. The 'Format' section has two radio buttons: 'ASCII' (selected) and 'HEX'. The 'End Char for ASCII' dropdown is set to 'NULL'. Below these is a 'Data' text input field, currently empty, with 'Clear' and 'Add' buttons to its right. A green callout box with a pointer to the 'Data' field contains the text: 'Enter the correct commands, please don't miss any character.'

Operation procedure:

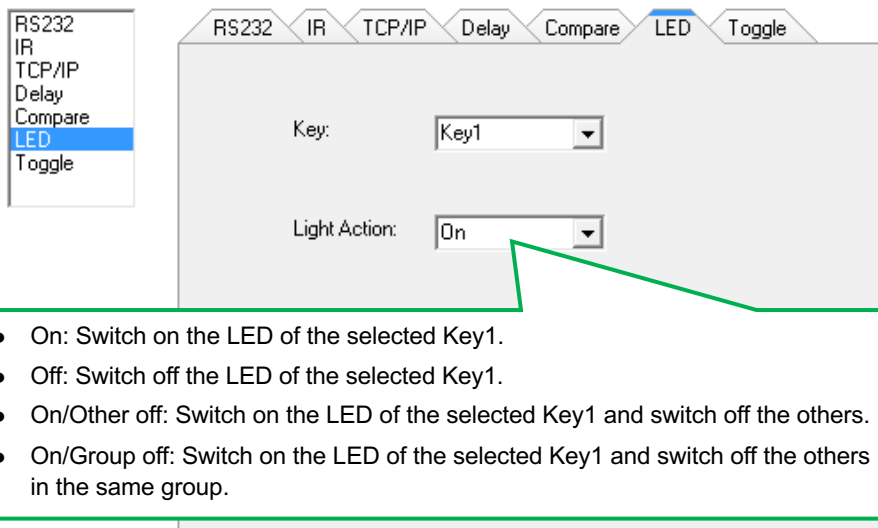
- 1) Select the key action in action list.
- 2) Select the RS232 port.
- 3) Set the command format ASCII or Hex, and then set the terminator for ASCII.
- 4) Type the correct RS232 command in data box, and then press "add" to save the command.
- 5) Add an event that the LED lights up to indicate the comparison result.
- 6) The executing priority of events in event list is from top to bottom, so that the comparing function can be used for the key action which with three or more events.

Wallplate Control Panel

4.4.6 LED Setting

This item is used for setting the LEDs status of programmable buttons to indicate the results of executing event.

Event Set



The screenshot shows the 'Event Set' configuration interface. On the left, a list of event types includes RS232, IR, TCP/IP, Delay, Compare, LED (highlighted), and Toggle. The main panel has tabs for RS232, IR, TCP/IP, Delay, Compare, LED (selected), and Toggle. Under the LED tab, there are two dropdown menus: 'Key:' set to 'Key1' and 'Light Action:' set to 'On'. A green callout box points to the 'Light Action:' dropdown and contains the following list:

- On: Switch on the LED of the selected Key1.
- Off: Switch off the LED of the selected Key1.
- On/Other off: Switch on the LED of the selected Key1 and switch off the others.
- On/Group off: Switch on the LED of the selected Key1 and switch off the others in the same group.

Wallplate Control Panel

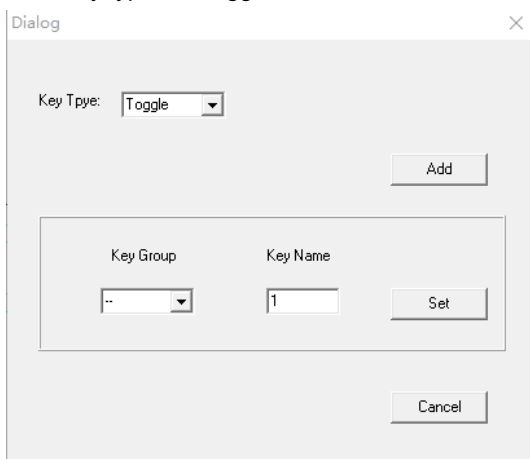
4.4.7 Toggle Setting

The key action type can be set as “Toggle” that enable the button to be a composite key.

Here take Key1 as an example to introduce the “Toggle Setting”.

Operation procedure:

- 1) Click “1” and set its key type as “Toggle”.



The screenshot shows a dialog box titled "Dialog" with a close button (X) in the top right corner. The dialog contains the following elements:

- A label "Key Type:" followed by a dropdown menu showing "Toggle".
- An "Add" button to the right of the "Key Type" dropdown.
- A table with two columns: "Key Group" and "Key Name".
- Under "Key Group", there is a dropdown menu showing "--".
- Under "Key Name", there is a text input field containing the number "1".
- A "Set" button to the right of the "Key Name" input field.
- A "Cancel" button at the bottom right of the dialog.

Wallplate Control Panel

Action List



Clear All

Key	Type	Data	
1	Key1	Toggle	

Wallplate Control Panel

- 2) Add toggle & RS232 events for the key action.

Event Set

RS232
IR
TCP/IP
Delay
Compare
LED
Toggle

RS232/485
IR
TCP/IP
Delay
Compare
LED
Toggle

Key:

Toggle Start: ▼

Event List



Num	Type	Data
1	Toggle	Key1,Toggle Start No.1
2	RS232	Lib name:123 Function:Open Port:1,9600bps 8 1,Send No....
3	Toggle	Key1,Toggle Start No.2
4	RS232	Lib name:456 Function:Open Port:1,9600bps 8 1,Send No....

- 3) Press the button 1 to execute the second event, and then press again to execute the fourth event.

Wallplate Control Panel

4.5 Event List

The event list shows all events of the selected key action. The executing priority of events is from top to bottom, see the picture below. If there is an event execute incorrectly, all subsequent events will not be executed.

The screenshot shows the 'Event List' interface. At the top, there are four controls: a delete icon (trash can), two arrow icons (up and down), and a 'Clear All' button. Callouts provide the following descriptions:

- Delete the selected event.** (points to the delete icon)
- Adjust the execution order for events.** (points to the up and down arrow icons)
- Empty all events.** (points to the 'Clear All' button)

Below the controls is a table with the following data:

Num	Type	Data
1	Toggle	Key1,Toggle Start No.1
2	RS232	Lib name:123 Function:Open Port:1,9600bps 8 1,Send No....
3	Toggle	Key1,Toggle Start No.2
4	RS232	Lib name:456 Function:Open Port:1,9600bps 8 1,Send No....

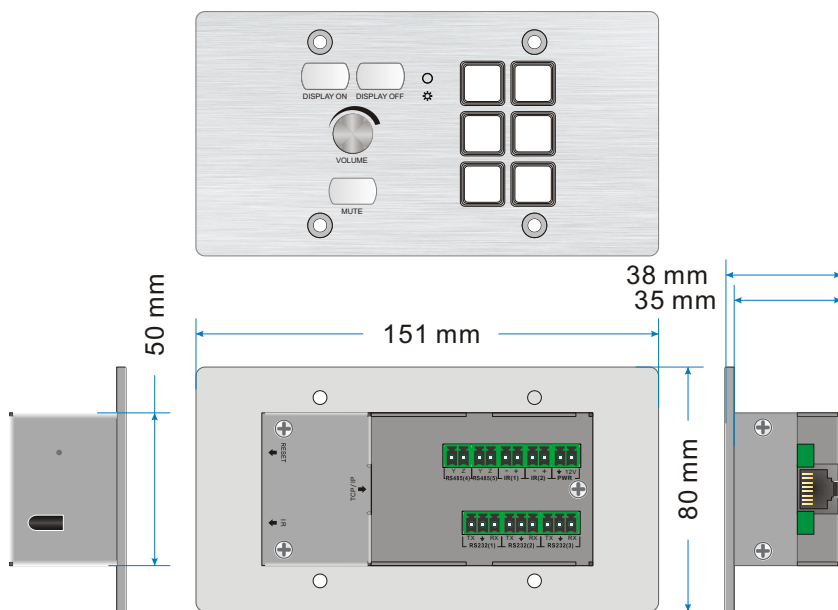
Wallplate Control Panel

5. Specification

Control Port	(1) TCP/IP, (3) RS232, (2) RS485 and (2) IR out
Control Port Connector	(1) RJ45 (3) 3-pin pluggable terminal blocks (4) 2 pin pluggable terminal blocks
Control Buttons	(6) Programmable buttons (2) Programmable display control buttons (1) Programmable volume knob (1) Programmable MUTE button
Other	(1) Built-in IR sensor
Baud Rate	Supports 2400, 4800, 9600, 19200, 38400, 56000, 57600, 115200.
Software	WP9EU-IP
Power Consumption	1W (Max)
Operation Temperature	-10 ~ +55°C
Storage Temperature	-25~ +70°C
Relative Humidity	10% ~ 90%
Power Supply	Input: 100VAC~240VAC, 50/60 Hz; Output: 12VDC 1A
Net Weight	About 300g
Dimension (W*H*D)	151mm x 80mm x 38mm

Wallplate Control Panel

6. Panel Drawing



Wallplate Control Panel

7. Troubleshooting & Maintenance

- 1) When WP9EU-IP cannot work, please check and make sure the power cord connection is well, power connector cannot be mixed or connect wrong. Then restart, if still not work, the WP9EU-IP may be broken. Please send it to the dealer for repairing.
- 2) When connect unsuccessfully, please make sure the network segment of control PC and the WP9EU-IP is same.
- 3) When the LED of a button cannot be lighted, please check if there is a compare event in this button. If yes, delete the compare and try again. If still not work, the LED may be broken. Please send the unit to dealer for repairing.
- 4) When serial commands sending without function executed, please check the baud rate and make sure is correct, and the serial connection is well.
- 5) If the controlling queue is confused when use loop function, please reboot the WP9EU-IP.

If your problem still remaining after following the above troubleshooting steps, please contact your local dealer or distributor for further assistance.

Wallplate Control Panel

8. Customer Service

The return of a product to our Customer Service implies the full agreement of the terms and conditions hereinafter. These terms and conditions may be changed without prior notice.

1) Warranty

The limited warranty period of the product is fixed three years.

2) Scope

These terms and conditions of Customer Service apply to the customer service provided for the products or any other items sold by authorized distributor only.

3) Warranty Exclusions:

- Warranty expiration.
- Factory applied serial number has been altered or removed from the product.
- Damage, deterioration or malfunction caused by:
 - ✓ Normal wear and tear.
 - ✓ Use of supplies or parts not meeting our specifications.
 - ✓ No certificate or invoice as the proof of warranty.
 - ✓ The product model showed on the warranty card does not match with the model of the product for repairing or had been altered.
 - ✓ Damage caused by force majeure.
 - ✓ Servicing not authorized by distributor.
 - ✓ Any other causes which does not relate to a product defect.
- Shipping fees, installation or labor charges for installation or setup of the product.

4) Documentation:

Customer Service will accept defective product(s) in the scope of warranty coverage at the sole condition that the defeat has been clearly defined, and upon reception of the documents or copy of invoice, indicating the date of purchase, the type of product, the serial number, and the name of distributor.

Remarks: For further assistance or solutions, please contact your local distributor.