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Operating Instructions

J-Tech Digital® 8-Button Control Panel

JTECH-P8



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. The functions described in this version were updated till April, 2018. 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.



SAFETY PRECAUTIONS

To ensure the best 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.

Table of Contents

1. Product Introduction.....	1
1.1 Features	1
1.2 Package List	1
1.3 Installation	2
2. Panel Descriptions.....	3
2.1 Front Panel.....	3
2.2 Side Panel	4
2.3 Rear Panel.....	4
3. Connection Introduction.....	6
3.1 System Diagram	6
3.2 Connection of Programming and Looping	7
4. System Operations	9
4.1 USB Driver Installation.....	9
4.2 Software Programming	9
4.2.1 Main Menu.....	10
4.2.2 Panel/Key setting.....	12
4.2.3 Action list	15
4.2.4 Event setting.....	15
4.2.5 Event List.....	24
5. Specification	25
6. Panel Drawing	26
7. Troubleshooting & Maintenance	27
8. Customer Service	28

1. Product Introduction

The programmable control panel JTECH-P8 is a Wall Control Panel. Every button is programmable and works either individually or together. The programmable control panel is built in the programmable 3 RS232, 1 RS485, 3 Infrared & 2 Relay, and 1 mini USB for programming.

Please notice, RS232 (1) and IR2 share the same port, cannot be used at the same time. Also, RS232 (2) and IR3 share the same port, cannot be used at the same time.

It can fully control our products (you can download pre-configured drivers from our website www.jtechdigital.com), as well as third party devices such as projectors, screens etc. It is an easy-to-use control device for presentation show rooms, classrooms and boardrooms.

1.1 Features

- Every button can be programmed to send the bi-direction RS232 and RS485 commands simultaneously to control third party devices.
- Every button can be programmed to send the infrared code, control the relay, to let them work simultaneously to control the third party devices.
- Every button is built in the infrared code and RS232 code learning function, and baud-rate setting.
- ID looping function. 99pcs programmable control panels can be looped and controlled together, by ID identifying.
- Programmed by USB or RS232, working with the PC software (JTD-Control).
- Crystal and backlit buttons with easy user-friendly customizable changeable labels.
- The backlit brightness is controllable.
- Dimension: 11.4cm long and 7cm wide.

1.2 Package List

- 1 x Programmable Control Panel
- 3 x 2-pin Captive Screw Connector
- 8 x Button Caps
- 1 x USB Converting Cable
- 1 x Power Adapter (DC 12V)
- 2 x IR Emitter
- 1 x Button Label
- 1 x User Manual

Note: Please contact your distributor immediately if any damage or defect in the components is found.

1.3 Installation

Follow the steps to install the device:

Firstly, dig a hole on the desk to the size marked on the aperture paper (shown in Figure 1-1).

Secondly, put the device into the hole and adjust it to flush with the table (shown in Figure 1-2).

Then, plug a set screw into the fixing mounting and screw the nuts tightly.

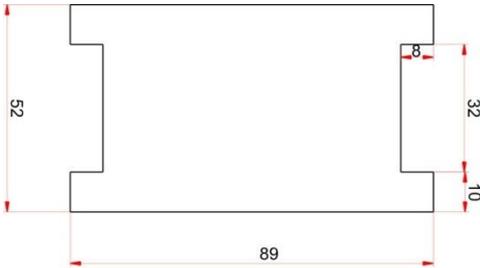


Figure 1- 1 Aperture paper

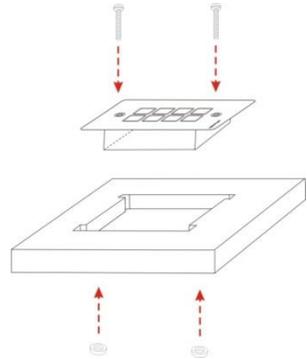
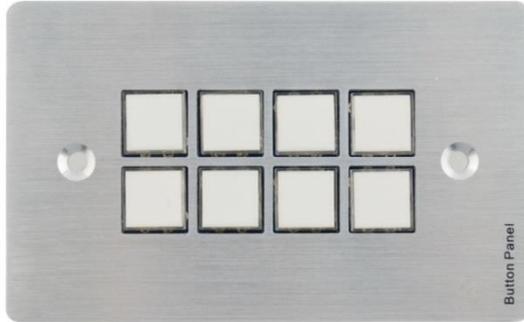


Figure 1- 2 Installation Guide

2. Panel Descriptions

2.1 Front Panel



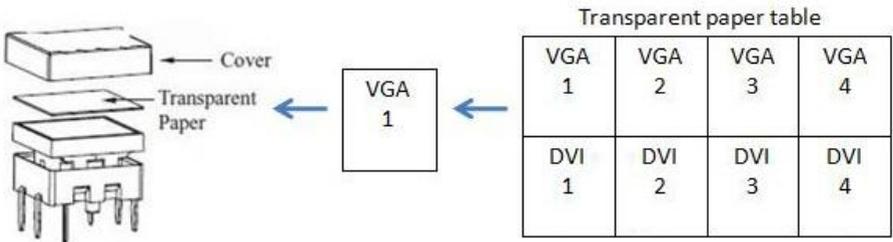
Crystal and luminescent, programmable buttons:

Every button can be programmable with the software JTD-Control.

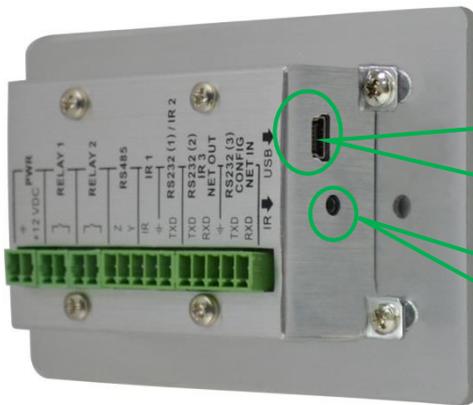
Connect the PC via USB or RS232.

And every label inside the button can be changeable. You can choose the label you need and change it very easily like below:

(For the specific transparent paper table, please contact the local distributor or reseller for it)



2.2 Side Panel



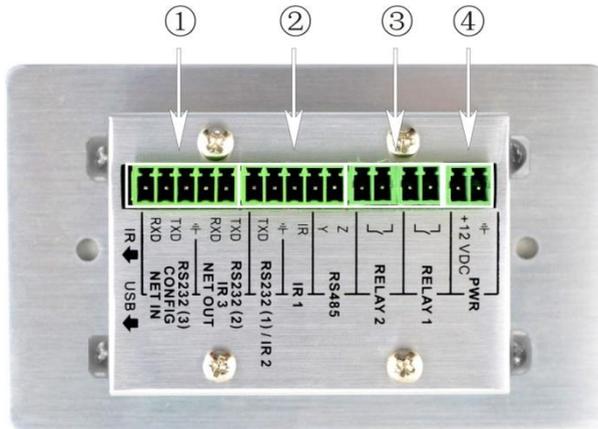
Mini USB Connector:

1. Communicate with PC which uses JTD-Control to program the buttons.
2. Transmit the infrared data when learning IR

Infrared sensor port: receive and learn the IR code, to build the IR database.

Note: When use this USB port to program the control panel's buttons, the available COM port number should not be more than 10.

2.3 Rear Panel



The programmable control panel has various ports in the rear panel, including Lopping port, RS232 port, RS485 port, IR port, Relay port and Power port. Below is the introduction:

- ① This port includes two parts:
One part is RS232 (2)/IR3, it can be used for control other devices or looping

Programmable Control Panel

output. RS232 (2) and IR3 share the same port, the detailed use depends on the setting of JTD-Control.

Other part is RS232 (3), it can be used for control other devices or looping output, or connect with PC.

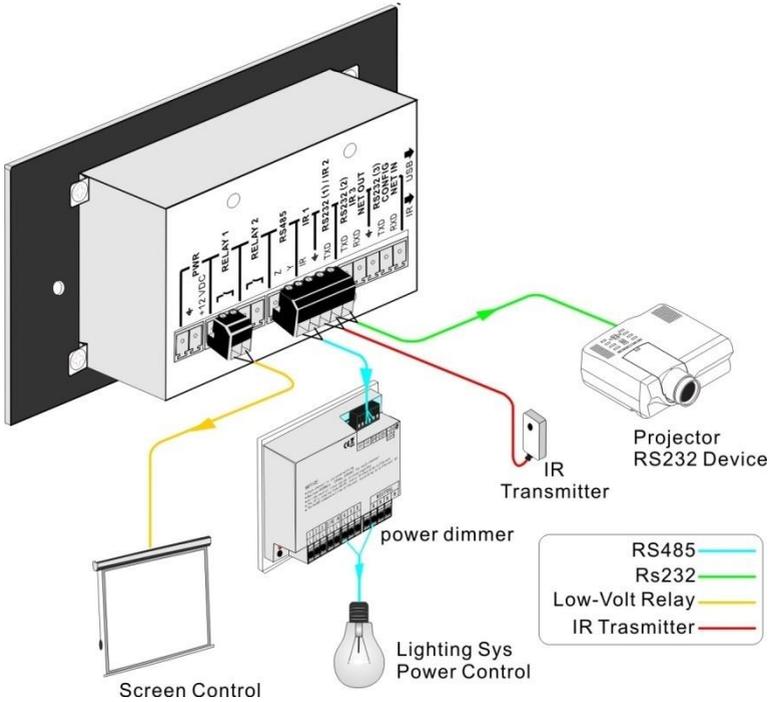
These two parts share the same grounding.

- ② This port includes: RS232 (1)/IR2, IR1 and RS485.
 - a) RS232 (1)/IR2: share the same port, the detailed use depends on the setting of JTD-Control. When be used as RS232, it is unidirectional transmission, transmit data but without receive.
 - b) IR1: for control other devices, it can be programmable by the JTD-Control.
 - c) RS485: the RS485 can be programmed as different commands and control the device with RS485 port. The command of RS485 is the same as RS232 (1).
- ③ Low-Voltage relay ports: set the relay on/off by software JTD-Control
- ④ Power connector: 12VDC. **Be sure that the “+” and “-” never be mixed or wrong connection.**

3. Connection Introduction

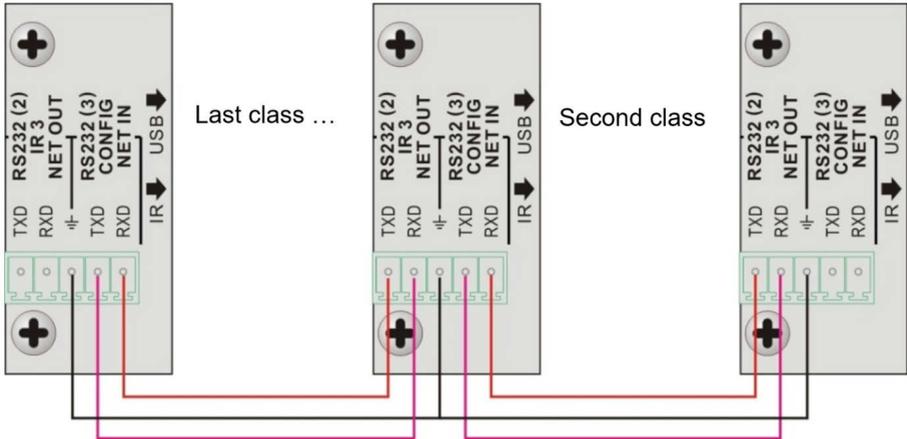
3.1 System Diagram

The programmable control panel can active different ports at one time. It means every button can send the RS232 and RS485 commands, IR code and control the relay at the same time. The demo system diagram as below:



Programmable Control Panel

After connect the programmable control panels as above, and then we should set the ID of each programmable control panel by JTD-Control. The ID number is from 01 to 99, and it also is the class of the programmable control panel in the loop, different programmable control panels should set to different ID. After connections finish, we can set the control modes by JTD-Control. For detailed connecting, please check the picture below:



Detailed looping connecting

Note: Up to 99 programmable control panels can be looped within one system. However, to achieve normal interaction, loop less programmable control panels (10 tops) in the system.

4. System Operations

4.1 USB Driver Installation

There are USB driver file and JTD-Control software in the disk. The JTD-Control can run directly without installation.

But when connect the programmable control panel with PC by USB, it may need to install the USB driver. Use the driver file to install the driver of USB, we can use USB to program the programmable control panel.

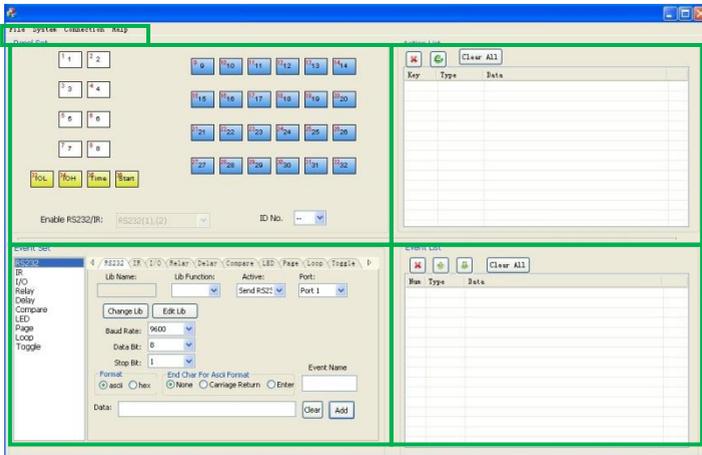
4.2 Software Programming

You can use this software JTD-Control to easily set every button of the programmable control panel.

After connect the programmable control panel with PC by USB or RS232, we can open the JTD-Control to program the buttons for controlling.

The main window of JTD-Control has five parts: main menu, panel (button) setting, event setting, action list and event list. In this manual we will take programmable control panels-V for example, to show the uses of all functions.

The main window of JTD-Control is as below:



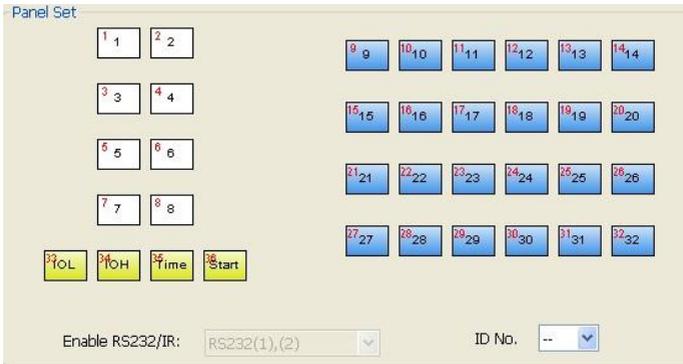
We will introduce all the configurations one by one.

Programmable Control Panel

4.2.1 Main Menu

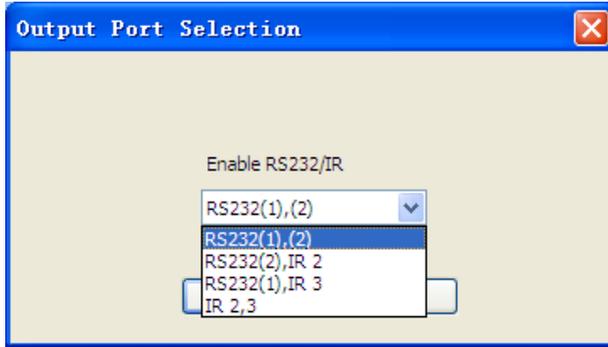
The main menu includes file management, system model, connection type and help.

- 1) File management: Open/Save/Save as a configuration. After program, user can save the configuration to a file, so that you can use the same configuration next time.
- 2) System model: includes programmable control panels-H, programmable control panels-V, WP19R etc., and the buttons interface view are different with different models. The pictures below show the differences between programmable control panels-V and programmable control panels-H.



Note: When select the model, it will pop up “Output Port Selection” dialog, user can select different RS and IR types, depend on the uses of the two shared ports. The dialog is as the picture below:

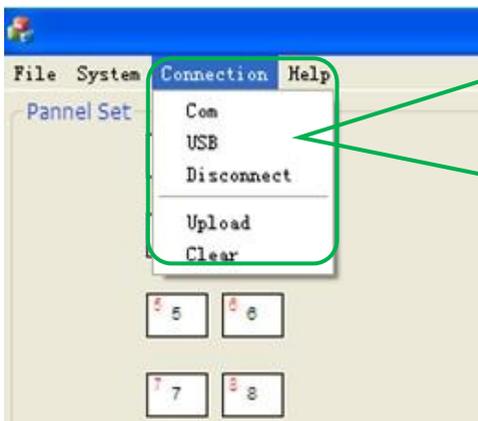
Programmable Control Panel



The output port set in JTD-Control and the port used in the programmable control panel is corresponding. And there are four output types. They are showed as below form (“√” means port is available):

Output port of the Panel Output mode of JTD-Control	IR 1	RS232(1)	IR 2	RS232(2)	IR 3	RS232(3)	RS485
RS232(1)(2)	√	√		√		√	√
RS232(2),IR2	√		√	√		√	
RS232(1),IR3	√	√			√	√	√
IR2,3	√		√		√	√	

3) Connection type: the instructions are in the picture below:



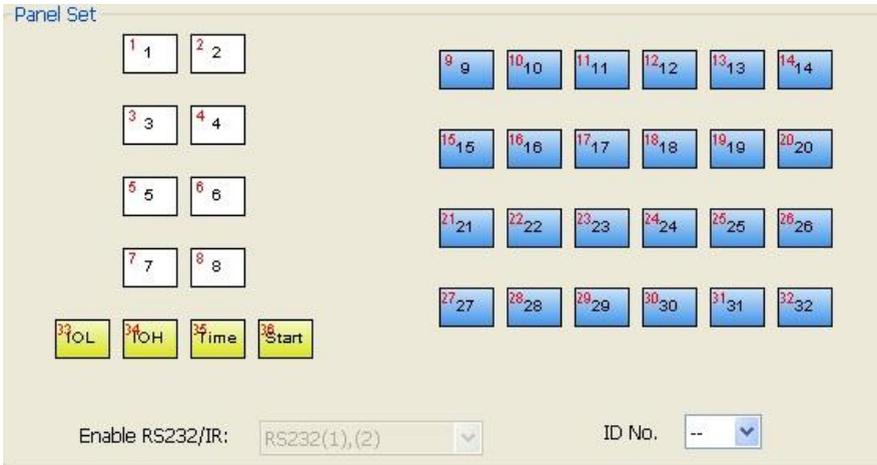
- 1: Com, connect by serial port.
- 2: USB, connect by mini USB.
- 3: Disconnect, disconnect the connection.
- 4: Upload: upload the programmed data to the programmable control panel. It will clear all the old data in the programmable control panel.
- 5: Clear, clear the data in the programmable control panel.

The functions of the programmable control panel's buttons will be available only after the programmed data is uploading successfully.

4) Help: Show the information of JTD-Control.

4.2.2 Panel/Key setting

There are three different colors of keys in the panel set of JTD-Control. Add a key action to action list, then add events to this action, make this action will execute the events. Here take programmable control panels-V for example, to introduce the uses of different buttons:



Programmable Control Panel

- 1) White keys: keys 1-8, correspond to the buttons on the programmable control panel. Click the key, it will pop up dialog as below:

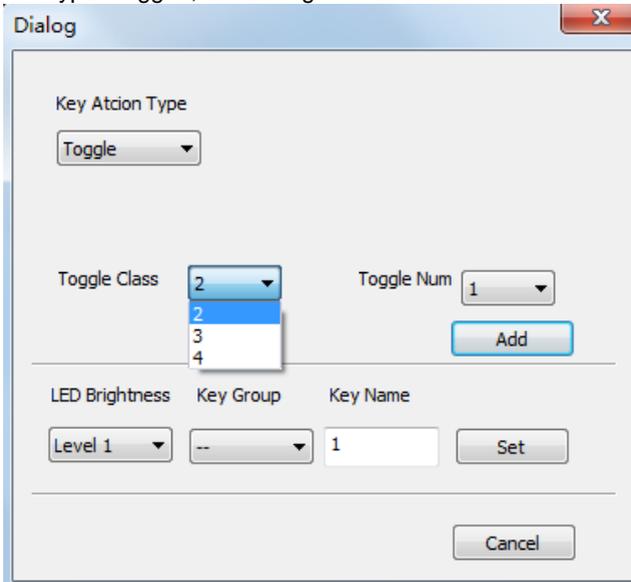
Key Action Type:

1. Press: Execute events when press button.
2. Release: Execute events when release button.
3. Page: Built-in most 4 actions, actions need to be switched by other buttons, press to execute.
4. Toggle: Built-in most 4 actions, actions will loop run when press. Actions can also be switched by other buttons, press to execute.



The screenshot shows a 'Dialog' window with a blue title bar and a close button. The main area is light beige. At the top, it says 'Key Atcion Type' (note the typo) with a dropdown menu set to 'Press'. Below this is an 'Add' button. A horizontal separator line follows. Below the line, there are three dropdown menus: 'LED Brightness' (set to 'Level 1'), 'Key Group' (set to '--'), and 'Key Name' (set to '1'). To the right of these is a 'Set' button. At the bottom right is a 'Cancel' button.

When select the type "Toggle", the setting interface is as below:

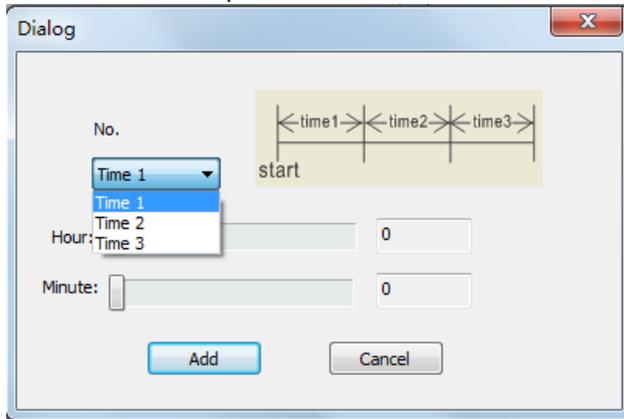


The screenshot shows a 'Dialog' window with a blue title bar and a close button. The main area is light grey. At the top, it says 'Key Atcion Type' (note the typo) with a dropdown menu set to 'Toggle'. Below this are two dropdown menus: 'Toggle Class' (set to '2') and 'Toggle Num' (set to '1'). Below these is an 'Add' button. A horizontal separator line follows. Below the line, there are three dropdown menus: 'LED Brightness' (set to 'Level 1'), 'Key Group' (set to '--'), and 'Key Name' (set to '1'). To the right of these is a 'Set' button. At the bottom right is a 'Cancel' button.

The toggle class is the action loop class, depends on the numbers of looped actions. When the class is 2, there are two actions in the toggle. And so on.

Programmable Control Panel

- 2) Blue Keys: Keys 9-32, all are virtual keys, used in the loop function. When use the loop function, the ID must be set, the ID can be 1 to 99. Press “add” will add the button to action list.
- 3) Yellow Keys: Keys 33-36, all are virtual keys. Key 33 and 34 are for I/O control, which is not supported with the programmable control panel. Key 36 is a start action, if add events to this action, when the programmable control panel is power on, it will execute the events in this action. Key 35 is delay button, there are three time slots can be set. See in the picture below:

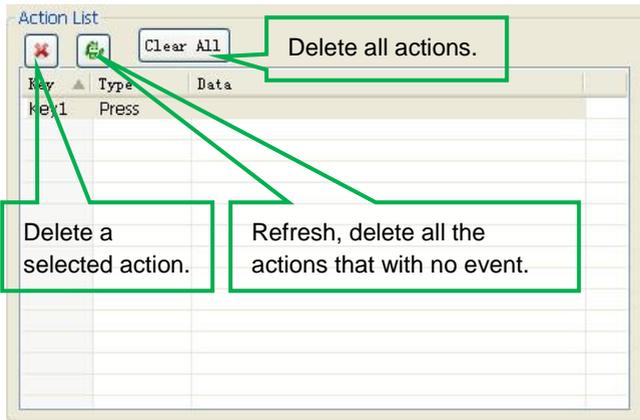


The time is counted from the programmable control panel start. When come to time1, the programmable control panel will execute the events in time1. Then recount from time2, and then time3.

Example: Set time1 to 5 minutes, and time2 to 3 minutes, add event1 to time1 and event2 to time2. When the unit starts, it will execute event1 after 5 minutes, and then execute event2 after 8 minutes.

4.2.3 Action list

Action list shows all the set actions. An available action must be added to the list. The action list is as the picture below:

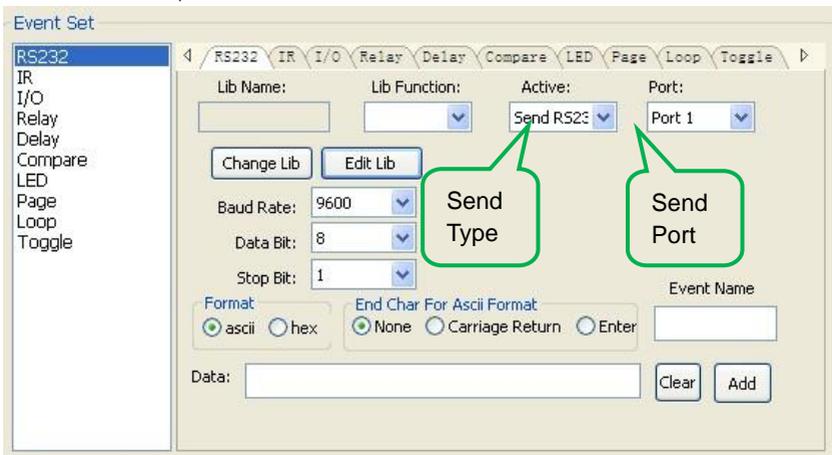


4.2.4 Event setting

Event setting includes RS232, IR, I/O, Relay, Delay, Compare, LED, Page, Loop and Toggle setting. Before set events, an action must be added first. The following introduction will show you the setting of each event:

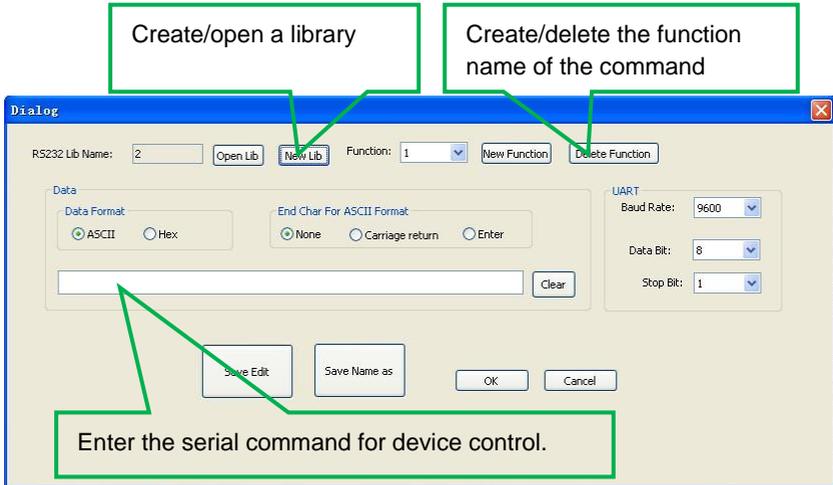
➤ RS232 Setting

This item is used for setting the parameters of the programmable control panel's serial ports. Click "RS232", it will show as below:



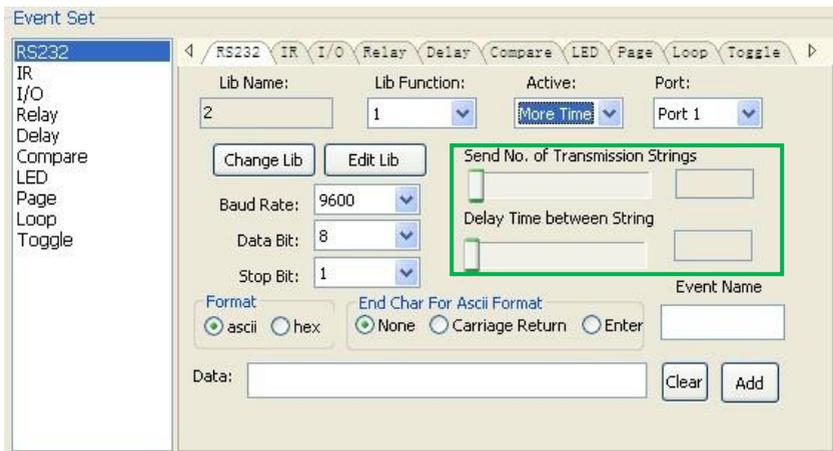
Programmable Control Panel

- 1) The data of RS232 can be directly entered or selected from library. Click “Change Lib” to select a library file and open it. Click “Edit Lib” to create or edit a library file as below:



Note: When editing finish, remember to save the editing, and then press “OK”.

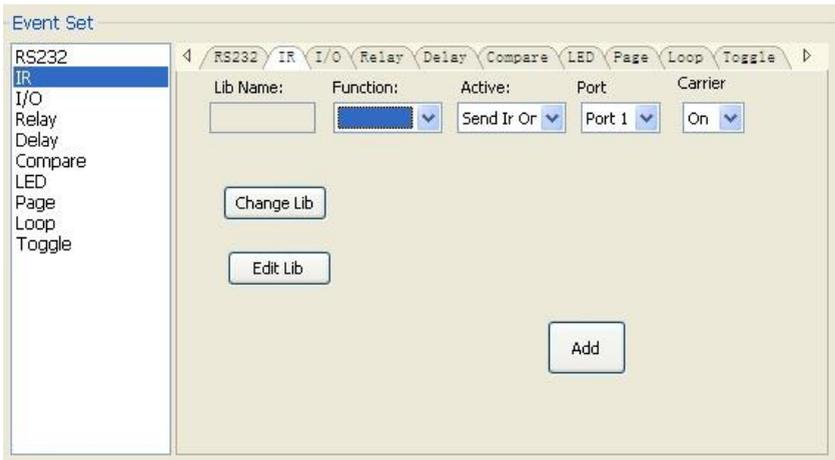
- 2) There are two send types: send once and send more times. When select “more times”, the send times and the delay between times can be set. See in picture below:



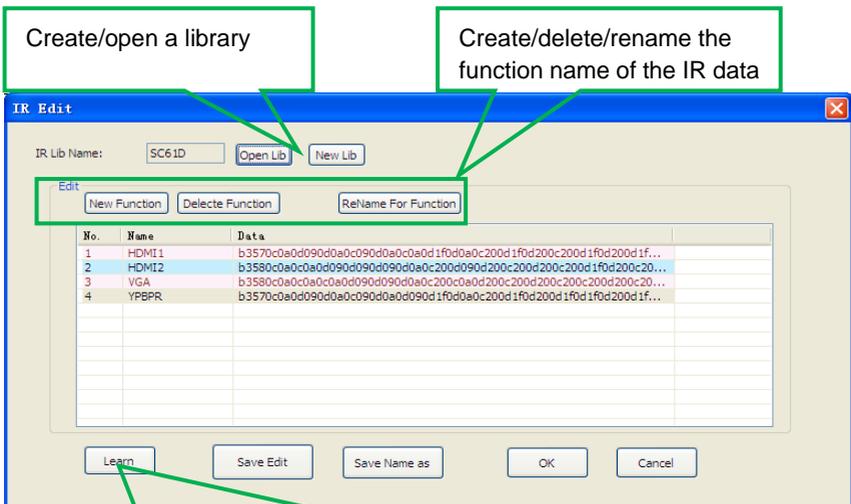
- 3) The send port must be selected as the same as model setting, otherwise the event cannot be added.
- 4) User can set the event name. It is optional function, not necessary.

➤ IR Setting

This item is used for setting the parameters of the programmable control panel's IR ports. Click "IR", it will show as below:



- 1) The data of IR need to be selected from library. Click "Change Lib" to select a library file and open it. Click "Edit Lib" to create or edit a library file as below:

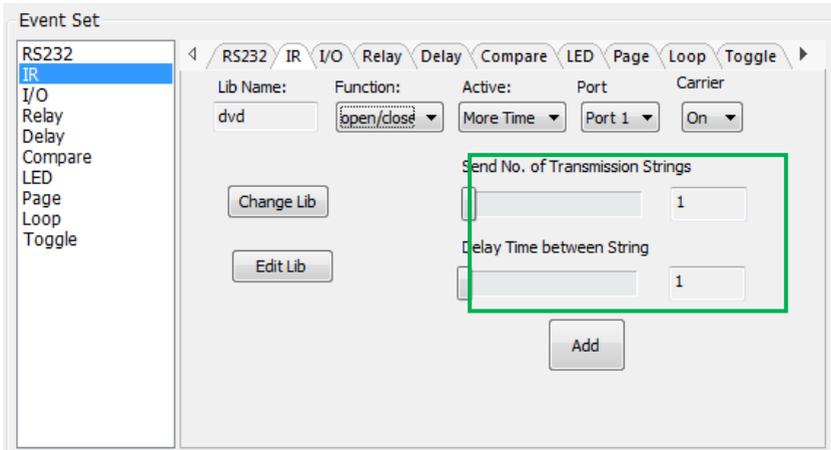


Select a function, and then click "learn", press the IR remote button to send the IR code to infrared sensor port, it will refresh the IR data. Follow the same steps can learn any function of the remote buttons.

Note: When editing finish, remember to save the editing, and then press "OK".

Programmable Control Panel

- 2) There are two send types: send once and send more times. When select “more times”, the send times and the delay between times can be set. See in picture below:



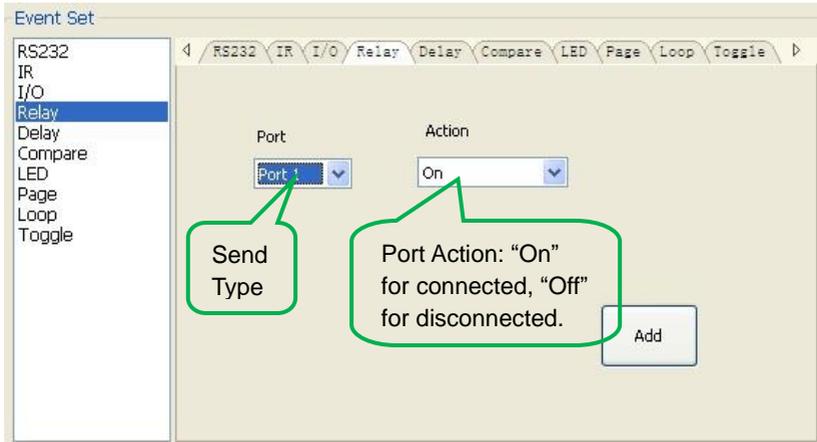
- 3) The send port must be selected as the same as model setting, otherwise the event cannot be added.
- 4) The IR can set the carrier on/off, to turn on/turn off the IR sending.

➤ I/O Setting

There is no I/O port in the programmable control panel, so the setting is not introduced in this manual.

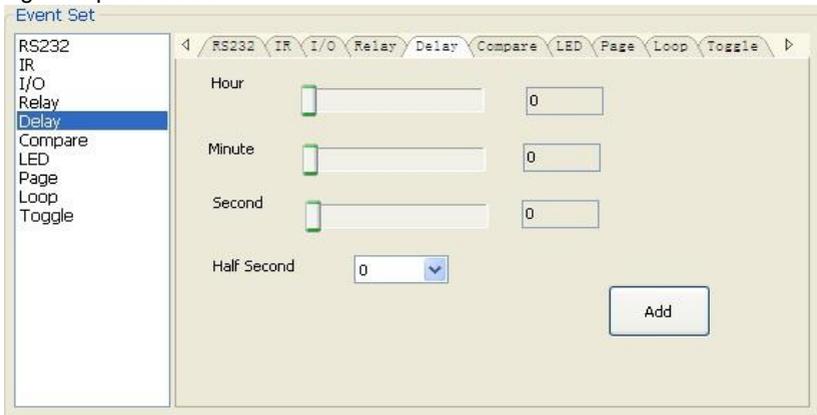
➤ Relay Setting

This item is for the replay ports setting. The setting is as the picture below:



➤ Delay setting

This item is to set a delay time, user can add a delay between two events; so when one event is finished, it will delay a certain time then start another event. The delay setting is as picture below:



➤ Compare Setting

This item is used for compare the feedback of RS232 commands. When the programmable control panel send a RS232 command to the controlled device, the device will send back a feedback. If we add the correct feedback in the data, the programmable control panel will compare it with the feedback received from controlled device, to verify the command is work or not. The compare setting is as the picture below:

Programmable Control Panel

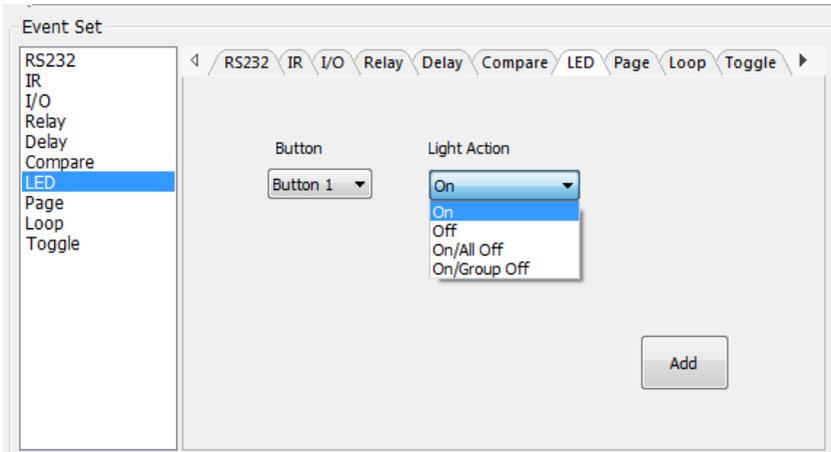
The screenshot shows the 'Event Set' configuration window. On the left is a list of event types: RS232, IR, I/O, Relay, Delay, Compare (highlighted), LED, Page, Loop, and Toggle. The main area is titled 'Compare' and contains the following fields and controls:

- Port:** A dropdown menu set to 'Port 2'.
- Format:** Radio buttons for 'Ascii' (selected) and 'Hex'.
- End Char For ASCII Format:** Radio buttons for 'None' (selected), 'Carriage return', and 'Enter'.
- Command Input:** A text box containing 'V:006->001'. A green callout box points to this field with the text: 'Enter the compare commands, don't miss any character.'
- Clear Data:** A button below the command input.
- Event Name:** A text box with the label 'Event Name:' to its left.
- Add:** A button to the right of the Event Name field.

- 1) The send port must be selected as the same as model setting, otherwise the event cannot be added. And port 1 cannot be used for compare, for there is no a receive pin in this port.
- 2) User can set the event name; it is optional function, not necessary.
- 3) For the events in one event list have priority, from top to bottom, so that the compare function can be used in action which with three or more events. When send a serial command, we can add a compare then other events. If the compare is incorrect, the event behind compare will not be executed.

➤ LED setting

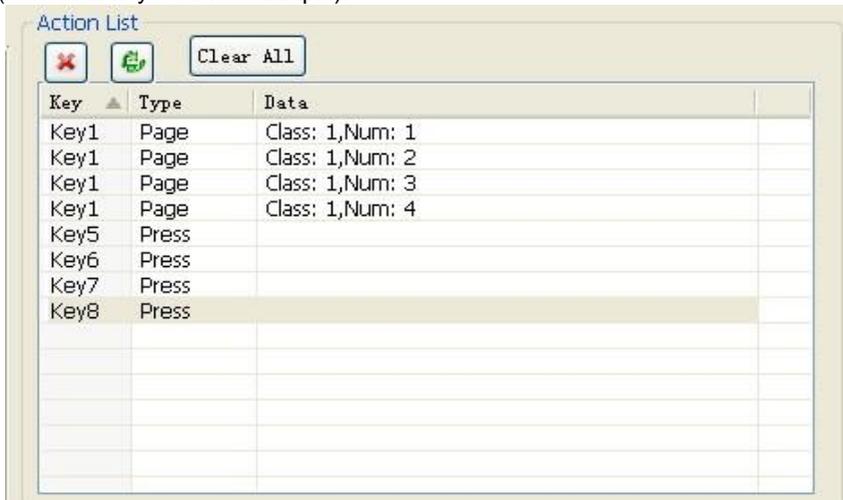
This item is used for set the button LEDs in the programmable control panel to turn on/off. The setting is as below:



➤ Page setting

White buttons can be set to type “page” that include four actions. To change different actions, it will need other white buttons to active the page action number. Here take a example to show you the use of this function:

- 1) Take button1 for example: click key1 and select the action type “page”, add the four actions to the action list. Then add other four buttons “press” action to the list (here take keys 5-8 for example):



Programmable Control Panel

- 2) In event setting, we add four different events to the four page actions of key1, and the four other keys will be added the page event to each of them as below:

The screenshot displays the 'Event Set' configuration window. On the left, a tree view shows the hierarchy: RS232, IR, I/O, Relay, Delay, Compare, LED, **Page**, Loop, and Toggle. The 'Page' event is selected. The main area shows 'Page' set to 'Page 1' and 'Active No.' set to '1'. An 'Event Name' field is empty, and an 'Add' button is visible. The top panel shows a grid of buttons labeled K1 through K32, with K1-K4 highlighted in blue. The 'Action List' table on the right shows the following data:

Key	Type	Data
Key1	Page	Class: 1, Num: 1
Key1	Page	Class: 1, Num: 2
Key1	Page	Class: 1, Num: 3
Key1	Page	Class: 1, Num: 4
Key5	Press	
Key6	Press	
Key7	Press	
Key8	Press	

The 'Event List' table at the bottom right shows one event:

Num	Type	Data
1	Page	Page Class:1, Start No.:1

Then set the “page” event to make four “press” actions to active the four page number: key5-num1, key6-num2, key7-num3 and key8-num4. It will perform like this:

- When press the button5 and then button1, the button1 will execute the event of num1, press button1 more times it will execute num1 more times;
- When press the button6 and then button1, the button1 will execute the event of num2, press button1 more times it will execute num2 more times;
- When press the button7 and then button1, the button1 will execute the event of num3, press button1 more times it will execute num3 more times;
- When press the button8 and then button1, the button1 will execute the event of num4, press button1 more times it will execute num4 more times.

➤ Loop Setting

This item is used for looping the programmable control panel. When use the loop function, the ID of each programmable control panel must be set.

The screenshot shows the 'Event Set' configuration window. At the top, 'Enable RS232/IR:' is set to 'RS232(1),(2)' and 'ID No.' is '01'. The left sidebar lists event types: RS232, IR, I/O, Relay, Delay, Compare, LED, Page, Loop (highlighted in blue), and Toggle. The main area has tabs for RS232, IR, I/O, Relay, Delay, Compare, LED, Page, Loop, and Toggle. Under the 'Loop' tab, there are two dropdown menus: 'ID' with the value '2' and 'Key No.' with the value '1'. Below these is an 'Event Name:' text box. An 'Add' button is located at the bottom right.

➤ Toggle Setting

The toggle setting is as the picture below:

The screenshot shows the 'Event Set' configuration window with the 'Toggle' tab selected. The left sidebar lists event types: RS232, IR, I/O, Relay, Delay, Compare, LED, Page, Loop, and Toggle (highlighted in blue). The main area has tabs for RS232, IR, I/O, Relay, Delay, Compare, LED, Page, Loop, and Toggle. Under the 'Toggle' tab, there are two dropdown menus: 'Button' with the value 'Button 1' and 'Toggle Start' with a blue selection. Below these is an 'Event Name:' text box. An 'Add' button is located at the bottom right.

The setting steps of toggle are similar with the page setting. But toggle performs differently, for the actions in it are loop running, it will perform as below (take the same example like page function):

- a) When press the button5 and then button1, the button1 will execute the event of num1, press button1 more times it will execute num2, then

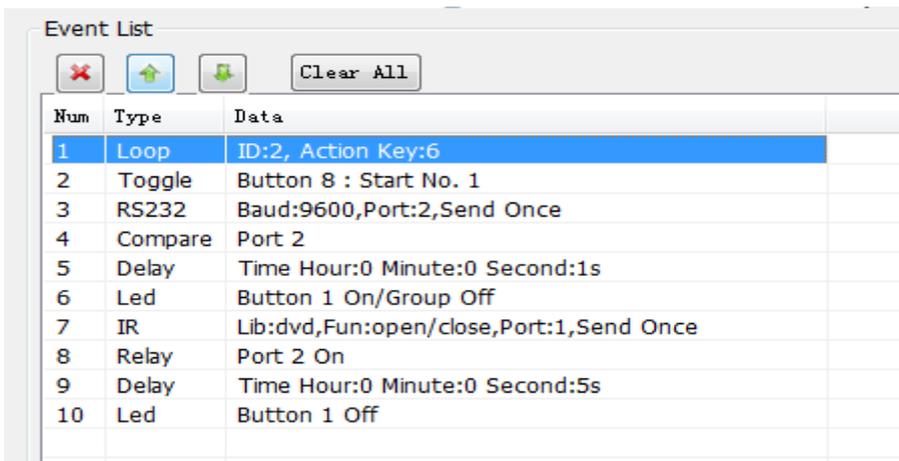
Programmable Control Panel

num3->num4->num1 and so on.

- b) When press the button6 and then button1, the button1 will execute the event of num2, press button1 more times it will execute num3, then num4->num1->num2 and so on.
- c) When press the button7 and then button1, the button1 will execute the event of num3, press button1 more times it will execute num4, then num1->num2->num3 and so on.
- d) When press the button8 and then button1, the button1 will execute the event of num4, press button1 more times it will execute num1, then num2->num3->num4 and so on.

4.2.5 Event List

The event list shows all events of the selected action, and for each action of the programmable control panel, the most events can be added is ten. The executing priority is from 1 to 10, see the picture below. If there is an event execute incorrectly, all the events behind it will not be executed.



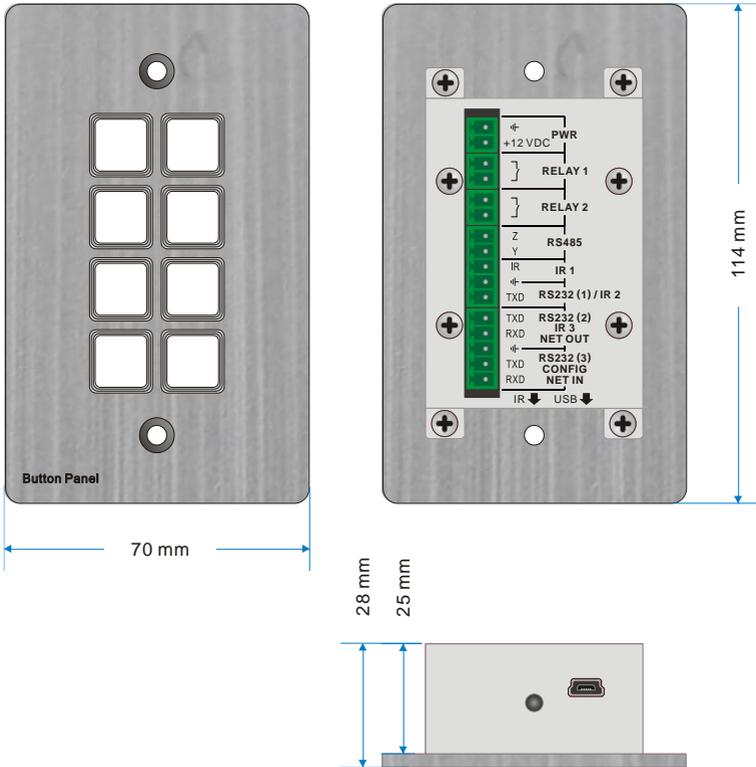
The screenshot shows a window titled "Event List" with a toolbar containing a red 'X' icon, a green up arrow icon, a green down arrow icon, and a "Clear All" button. Below the toolbar is a table with three columns: "Num", "Type", and "Data". The table contains 10 rows of event data, with the first row highlighted in blue.

Num	Type	Data
1	Loop	ID:2, Action Key:6
2	Toggle	Button 8 : Start No. 1
3	RS232	Baud:9600,Port:2,Send Once
4	Compare	Port 2
5	Delay	Time Hour:0 Minute:0 Second:1s
6	Led	Button 1 On/Group Off
7	IR	Lib:dvd,Fun:open/close,Port:1,Send Once
8	Relay	Port 2 On
9	Delay	Time Hour:0 Minute:0 Second:5s
10	Led	Button 1 Off

5. Specification

Program Port	USB or RS232
Output Port	(3) RS232, (1) RS485, (3) IR, (2) Relay
Serial Control Port	RS232
Baud Rate And Protocol	9600 baud, 8 data bits, 1 stop bit, no parity
Software	JTD-Control
Frequency Response	20Hz ~20KHz
Operation Temperature	-10 ~ +55°C
Storage Temperature	-25 ~ +70°C
Relative Humidity	10%-90%
Power Supply	Input: 100VAC~240VAC, 50/60 Hz; Output: 12V DC 2A
Max Power Consumption	1W
Dimension (W*H*D)	114mm x 70mm x 28mm
Net Weight	150g

6. Panel Drawing



7. Troubleshooting & Maintenance

- When the control panel cannot work, please check and make sure the power cord connection is well, plug cannot be mixed or connect wrong. Then restart, if still not work, the control panel may be broken. Please send it to the dealer for repairing.
- When USB cannot open or without response, please make sure the USB driver is installed correctly, and then reconnect the USB cable.
- When uploading the USB cannot be found, please restart the software or panel.
- 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.
- When serial commands sending without function executed, please check the baud rate and make sure is correct, and the serial connection is well.
- If the controlling queue is confused when use loop function, please reboot the programmable control panel.

8. Customer Service

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

1) Warranty

The limited warranty period of the product is fixed one 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.

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