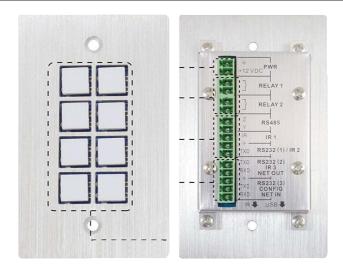
Operating Instructions

8-Button Control Panel Wall Switch Programmable For Star Ceilings

Model: ES-PB







• Email: sales@epixsky.com

epixsky.com



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 Menu10	D
4.2.2 Panel/Key setting12	2
4.2.3 Action list1	5
4.2.4 Event setting1	5
4.2.5 Event List	4
5. Specification2	5
6. Panel Drawing20	6
7. Troubleshooting & Maintenance2	7

1. Product Introduction

The programmable control panel 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.

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.

epiXsky

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.

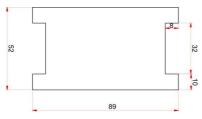


Figure 1-1 Aperture paper

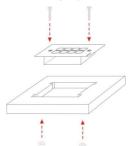


Figure 1-2 Installation Guide

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:

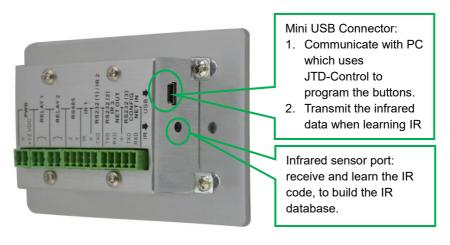
(For the specific transparent paper table, please contact the local distributor or reseller for it)



2814 Silver Star Rd., Orlando, Florida 32808 • Ph. 1-800-507-5714 • Email: sales@epixsky.com

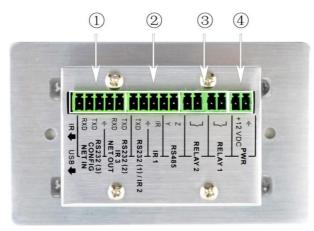
3

2.2 Side Panel



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

epiXsky



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
- Power connector: 12VDC. Be sure that the "+" and "-" never be mixed or wrong connection.

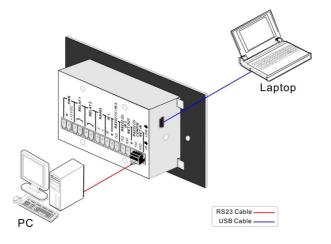
3. Connection Introduction

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:

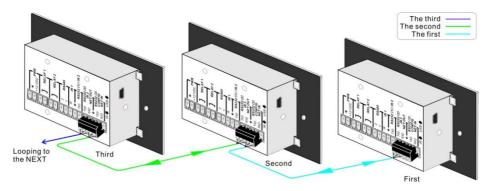
3.2 Connection of Programming and Looping

The programmable control panel can be connected to the computer for programming, to default the functions of every button. It can be connected by USB or RS232, working with the JTD-Control software. It is shown as below:



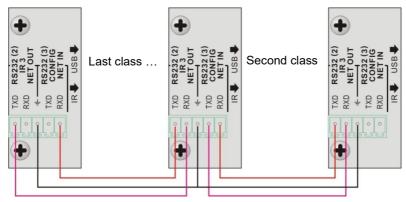
Programming Connection

Several pieces programmable control panels can be also looped to be a system, for control more devices. It is looped by the inter RS232 setting. Please check the demo picture as below:



Several programmable control panels Looping connecting

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:



2814 Silver Star Rd., Orlando, Florida 32808 • Ph. 1-800-507-5714 • Email: sales@epixsky.com

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:

File System Connection Relp	-		
T T T T		K Cher 422 Key Type Bata	
IR Lb Name I/O Lb Name Relay Delay Compare Change LED Baud Rat LCOD Data B Toggle Data B Stop B Forest	Ø Send R52! Ø Part 1 Ø b) E dR Lib s 8600 Ø Ø s: 600 Ø Ø Ø Ø	EXHILLAL H	

We will introduce all the configurations one by one.

4.2.1 Main Menu

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

- 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.

1 2 9 100 111 112 111 <th>Panel Set</th> <th></th>	Panel Set	
Image: Second state sta	1 1 ² 2	⁹ 9 ¹⁰ 10 ¹¹ 11 ¹² 12 ¹³ 13 ¹⁴ 14
Image: Product State Image: Product State <td< td=""><td>3 3 4 4</td><td>¹⁶15 ¹⁶16 ¹⁷17 ¹⁸18 ¹⁹19 ²⁰20</td></td<>	3 3 4 4	¹⁶ 15 ¹⁶ 16 ¹⁷ 17 ¹⁸ 18 ¹⁹ 19 ²⁰ 20
7 0 10L 10H 11 2 20 10L 11 10L 20 10L 11 10L 12 10L 13 10L 14 10L 15 10L 16 10L 17 10L 18 10L 10L 10L 10L 10L 10L 10L 10L 10L 10L <	⁵ 5 ⁸ 6	21 ₂₁ 22 ₂₂ 23 ₂₃ 24 ₂₄ 25 ₂₆ 26 ₂₆
PtoL PtoH PtoH <t< td=""><td>7788</td><td></td></t<>	7788	
Panel Set 1 2 3 4 5 6 7 8 Plot Plot Plane Bitart 9 10:0 Plane Bitart 9 10:0 Plane Bitart 121 12:22 12:22 12:22	POL MOH Mime Start	¹ 27 ¹⁰ 28 ¹⁰ 29 ¹⁰ 30 ¹¹ 31 ¹² 32
Panel Set 1 2 3 4 5 6 7 8 Plot Plot Plane Bitart 9 10:0 Plane Bitart 9 10:0 Plane Bitart 121 12:22 12:22 12:22	Early peopolity	ID No.
1 2 3 4 5 6 7 7 8 70L 10H Hims Start 9 160 111 1212 1313 1414 1515 1616 1717 1818 1810 1820 121 1222 1323 1424 1526 1727 1826 1720 1311 1723	Enable K5232/IK: RS232(1),(2)	
1 2 3 4 5 6 7 7 8 70L 10H Hims Start 9 160 111 1212 1313 1414 1515 1616 1717 1818 1810 1820 121 1222 1323 1424 1526 1727 1826 1720 1311 1723		
⁵ 6 ⁶ 8 ⁷ 7 ⁸ 8 ⁷ ОL ¹ Юн ⁹ тие ⁸ тит. ⁹ 9 ¹⁰ 10 ¹¹ 11 ¹² 12 ¹² 13 ¹⁴ 14 ¹⁵ 15 ¹⁶ 16 ¹⁷ 17 ¹⁶ 18 ¹⁰ 10 ¹⁰ 20 ¹² 21 ¹² 22 ¹² 23 ¹⁶ 24 ¹⁵ 25 ¹⁶ 28 ¹⁷ 27 ¹⁶ 28 ¹⁶ 29 ¹⁶ 30 ¹¹ 31 ¹² 22		
Pol Pfol	1 1 2 2	3 3 4 4
P e 1910 1111 1312 1313 1414 1515 1516 1717 1918 1919 2520 1321 1322 1323 1424 1525 1526 1727 1528 1520 1930 1331 1232	⁶ 5 ⁶ 8	77 88
P e 1910 1111 1312 1313 1414 1515 1516 1717 1918 1919 2520 1321 1322 1323 1424 1525 1526 1727 1528 1520 1930 1331 1232	Чос Ион	Mime Start
¹¹ 21 ¹² 22 ¹² 23 ¹² 24 ¹⁵ 25 ¹⁶ 26 ¹⁷ 27 ¹⁶ 28 ¹⁶ 29 ¹⁶ 30 ¹¹ 31 ¹² 32		
	⁹ 9 ¹⁰ 10 ¹¹ 11 ¹² 12 ¹³ 13 ¹⁴ 14	¹⁶ 15 ¹⁶ 16 ¹⁷ 17 ¹⁸ 18 ¹⁹ 19 ²⁰ 20
Enable R5232/JR: R5232(1),(2) V ID No V	²¹ 21 ²² 22 ²³ 23 ²⁴ 24 ²⁵ 25 ²⁶ 26	²⁷ 27 ¹⁸ 28 ¹⁹ 29 ³⁰ 30 ³¹ 31 ³² 32
	Enable RS232/IR: RS232(1),(2)	ID No 💌

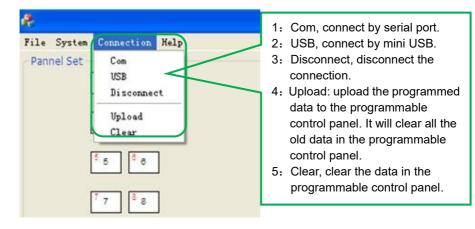
Note: When select the model, it will pop up "Output Port Selection" dialog, user can select different RS and IR types, depend on the uses of the two shared ports. The dialog is as the picture below:

Output H	ort S	election			×
		Enable RS232/IR			
		RS232(1),(2)	*]	
		RS232(1),(2)			
		RS232(2),IR 2 RS232(1),IR 3			
		IR 2,3			

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 (" $\sqrt{$ " means port is available):

Output port of the Panel Output mode of JTD-Control	IR1	RS232(1)	IR2	RS232(2)	IR3	RS232(3)	RS485
RS232(1)(2)	\checkmark	\checkmark		\checkmark			
RS232(2),IR2	\checkmark		\checkmark	\checkmark		\checkmark	
RS232(1),IR3		\checkmark					
IR2,3			\checkmark		\checkmark		

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



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:

Panel Set	⁹ 9 ¹⁰ 10 ¹¹ 11 ¹² 12 ¹³ 13 ¹⁴ 14
³ 3 ⁴ 4	¹⁶ 15 ¹⁶ 16 ¹⁷ 17 ¹⁸ 18 ¹⁹ 19 ²⁰ 20
⁶ 5 ⁶ 6 7 7 ⁸ 8	²¹ 21 ²² 22 ²³ 23 ²⁴ 24 ²⁶ 25 ²⁶ 26
PioL PioH Pime Start	²⁷ 27 ²⁸ 28 ¹⁹ 29 ¹⁰ 30 ⁵¹ 31 ⁵² 32
Enable RS232/IR: RS232(1),(2)	ID No 💌

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.
- Page: Built-in most 4 actions, actions need to be switched by other buttons, press to execute.
- Toggle: Built-in most 4 actions, actions will loop run when press. Actions can also be switched by other buttons, press to execute.

1	Dialog	E
\checkmark	Key Atcion Type	
X	Press 💌	
1		
		Add
	LED Brightness Key Group Key Name	
	LED Brightness Key Group Key Name	Add

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

Dialog			X
Key Atcion Type	•		
Toggle Class	2 v 2 3 4	Toggle Nu	M 1 V
LED Brightness	Key Group	Key Name	
Level 1 🔻	•	1	Set
			Cancel

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.

- 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:

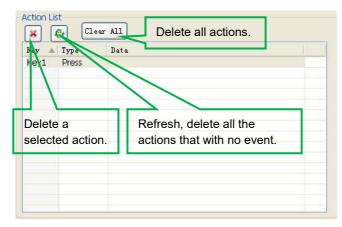
Dialog	X
No.	start
Time 1 Time 2 Hour: Time 3	0
Minute:	0
Add	Cancel

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:



10

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:

R /O telay	Lib Name:	Lib Function:	Active: Send RS23 💙	Port 1
ielay iompare ED lage oop ioggle	Change Lib Baud Rate: 9 Data Bit: 8	Edit Lib	-	Send Port
	Stop Bit: 1 Format ascii hex Data:	End Char For Ascii F None Carriag		Event Name er

 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:

	Create/open	a library	Create/delet			
Dialog						X
R5232 Lb Name: Data Data Forn ASCI	e operad	End Char For ASCII Format None Carriage retur		Data Bit:	9600 V 8 V 1 V	
Ent	er the serial co	ommand for dev	ice control.]		

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:

ir I/O	Lib Name:	Lib Funct	ion: Active:	Port:
elay	2	1	More Time	 Port 1
ielay ompare ED Iage	Change Lib Baud Rate: 9	Edit Lib	Send No. of Transmi	
oop oggle	Data Bit: 8	~	Delay Time between	String
Contractor	Stop Bit: 1	~		Event Name
	Format ascii O hex		or Ascii Format Carriage Return OI	
	⊙ascii ⊙hex Data:	⊙ None (Carriage Return (Enter Clear

- 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:

Event Set	4 /R5232 / IR (I/O (Relay (Delay (Compare (LED (Fage (Loop (Toggle)))
IR I/O Relay Delay Compare LED Page Loop Toggle	Lib Name: Function: Active: Port Carrier Send Ir Or Port 1 On Change Lib Edit Lib
	Add

epiXsky

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:

Cre	ate/o	open a lik	orary		Create/delete/rename the function name of the IR data	
IR Edi	t					×
IR Lib	Name:	SC61D	Open Lib	New Lib		
CE.	dit					
	Nev	v Function Dele	ecte Function	ReName For Func	tion	
	No.	Name	Data			
	1	HDMI1 HDMI2			1f0d0a0c200d1f0d200c200d1f0d200d1f 200d090d200c200d200c200d1f0d200c20	
	3	VGA			200c0a0d200c200d200c200c200d200c20	
	4	YPBPR	b3570c0a0d0	90d0a0c090d0a0d090d	1f0d0a0c200d1f0d200d1f0d1f0d200d1f	
	_					
					i j	
	L	earn	Save Edit	Save Name as	OK Cancel	
		<u> </u>				
						_
Sele	ct a	function	and then	click "learn"	press the IR remote button to send	
				-		
the I	R cc	ode to infi	rared sens	or port, it wi	II 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".

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:

Event Set	
Event Set R5232 I/O Relay Delay Compare LED Page Loop Toggle	Image: Send No. of Transmission Strings Change Lib Edit Lib
	Add

- **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:

Event Set	
RS232 IR I/O Relay Delay Compare LED Page Loop Toggle	4 R5232 (IR (I/O) Relay (Delay (Compare (LED) Page (Loop (Toggle))) Port Action Port I Port Action: "On" for connected, "Off" for disconnected. Add

> 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:

RS232	4 RS232 (IR (I/O Relay Delay)	Compare LED Page Loop Toggle >
IR I/O Relay Delay	Hour	0
Compare LED Page	Minute	0
Loop Toggle	Second	0
	Half Second 0	
		bbA

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:

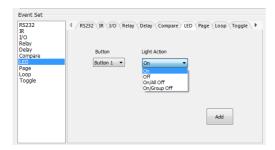
14

4 RS232 IR I/O Relay Delay Compare LED Page Loop Toggle
Port
Port 2
Format End Char For ASCII Format ③ Ascii O Hex ③ None ○ Carriage return ○ Enter
V:006->001 Enter the compare commands, don't miss any character.
Clear Data
Event Name:

- 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:

 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):

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		

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:

Panel Set	Action List
1 2 90 Ma Pas Pas Pas Ma	K Gr Clear All
	Kay A Type Data
23 44	Key1 Page Class: 1,Num: 1
10 10 10 10 10 10 10 10 10 10 10 10 10 1	Key1 Page Class: 1,Num 2
	Key1 Page Class: 1,Nam: 3
*a *a	Key1 Page Class: 1,Narre 4
Por Pos Pos Pos	KiryS Press
	Keyő Press
77 4	Ker/7 Press
P27 P29 P30 P31 P32	Key8 Press
YOL TON Time Start	
Bhable RS232/IR: R5232(1),(2) 💉 ID No 💌	
Priorit Solt	Event List
RS232 4 / RS232 (IR (I/O (Relar (Delar (Compare (180) Page (Loop (Tragie) P	🙀 👷 👙 Clear All
IR NO	Fm Trps Data
10	
Polin/ Delay	1 Page Page Class:1, Start No.:1
LED Page Adive No.	
Poge Addreins	
Toggie	
Event Name:	
Event Name:	
Event Name:	
Event Name:	

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.

Enable RS23	82/IR: RS232(1)	,(2) •	ID No.	01 -
Event Set				
RS232 IR I/O Relay Delay Compare LED Page Loop	4 R5232 IR 1 ID	/O Relay Delay Key No.	VCompare LED P	age / Loop / Toggle / Þ
Toggle	Event Name:			Add

> Toggle Setting

The toggle setting is as the picture below:

Event Set	
RS232 IR I/O Relay Delay Compare LED Page Loop Toggle	4 / RE222 (IR (I/O (Relay (Delay (Compare (IED) (Page (Icop) Toggle) b Button Toggle Start Button 1 V
	Event Name:

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

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

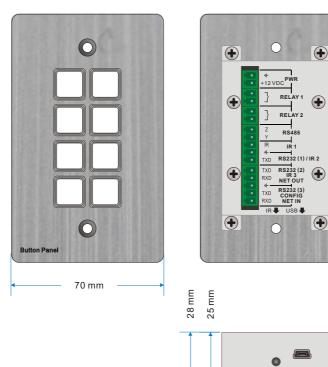
The event list shows all events of the selected action, and for each action of the programmable control panel, the most events can be added is ten. The executing priority is from 1 to 10, see the picture below. If there is an event execute incorrectly, all the events behind it will not be executed.

×		Clear All
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℃
Storage Temperature	-25 ~ +70℃
Relative Humility	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



114 mm

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.



A Division of Impact Lighting Inc.

2814 Silver Star Rd, Suite B., Orlando, Florida 32808• Email: sales@epixsky.com

epixsky.com