



SEADA SDCP7 6 Buttons and 1 Knob IP Control Panel User Manual

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SEADA

SDCP7 6 Buttons and 1 Knob IP Control Panel



Product Information

Product Name: SDCP7

Description

SDCP7 is a 6 button and 1 knob IP control panel that can be programmed to send RS232 commands to control projectors, screens, and other third-party devices. It can be used in commercial installations.

Version

VER 1.0 (Functions described in this version were updated till January, 2023)

Safety Precautions

- Read all instructions carefully before using the device.
- 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.
- 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 overheating.
- 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.

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.

Product Usage Instructions

Please follow these instructions for proper use of the SDCP7 control panel:

1. Read the user manual carefully before using the product.
2. Unpack the device carefully and save the original box and packing material for possible future shipment.
3. Program buttons with RS232 commands to control projectors, screens, and other third-party devices.
4. Install the device in a place with fine ventilation to avoid damage caused by overheat.
5. Connect the device to power and to the devices you want to control using the appropriate cables or connectors.
6. Use the buttons and knob to control the connected devices.
7. If an object or liquid falls or spills on to the housing, unplug the module immediately.
8. Refer all servicing to qualified service personnel.
9. Unplug the power cord when left unused for a long period of time.

If you have any questions or need assistance, please contact your local distributor for maintenance assistance.

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 January, 2023. 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 insure 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.

Introduction

Introduction to SDCP7

The Wall plate Control Panel has (2) built-in programmable RS232 connectors and (2) Infrared (IR) connectors. The Programmable Control Panel can fully control the compatible switches, as well as third-party devices such as matrix switcher, compact scaler switcher, projectors, screens, etc. Use the device for presentations in showrooms, classrooms, and boardrooms.

Features

- Six customizable control buttons;
- One volume control knob;
- Support IR, RS232 and TCP/IP control;

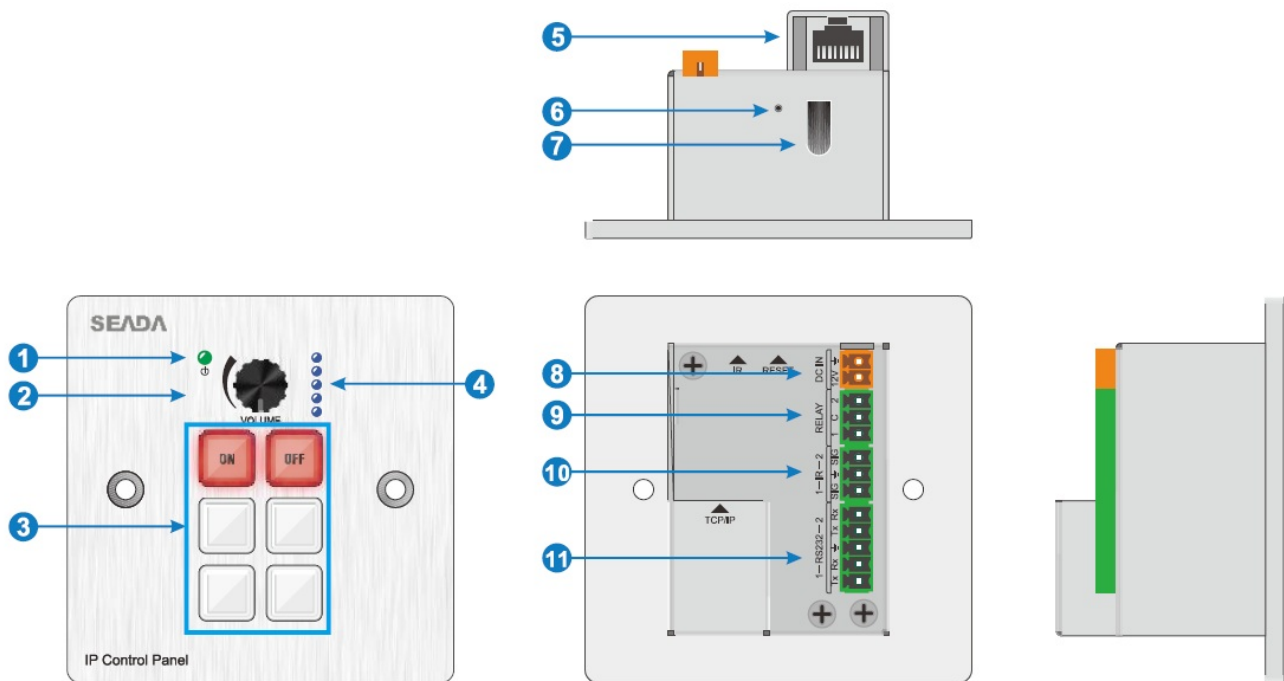
- Can be controlled and configured via GUI;
- Can be powered by PoE;

Package List

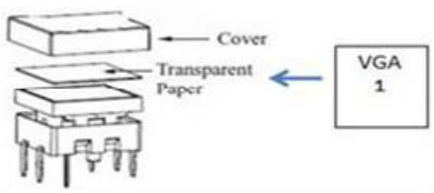
- 1 x SDCP7
- 6 x Button caps
- 2 x 3-Pin Pluggable terminal block
- 1 x User Manual
- 1 x 2-Pin Pluggable terminal blocks
- 1 x 5-Pin Pluggable terminal block
- 1 x Button label

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

Panel Description



No.	Name	Description
1	Power LED	Illuminates green when power on.

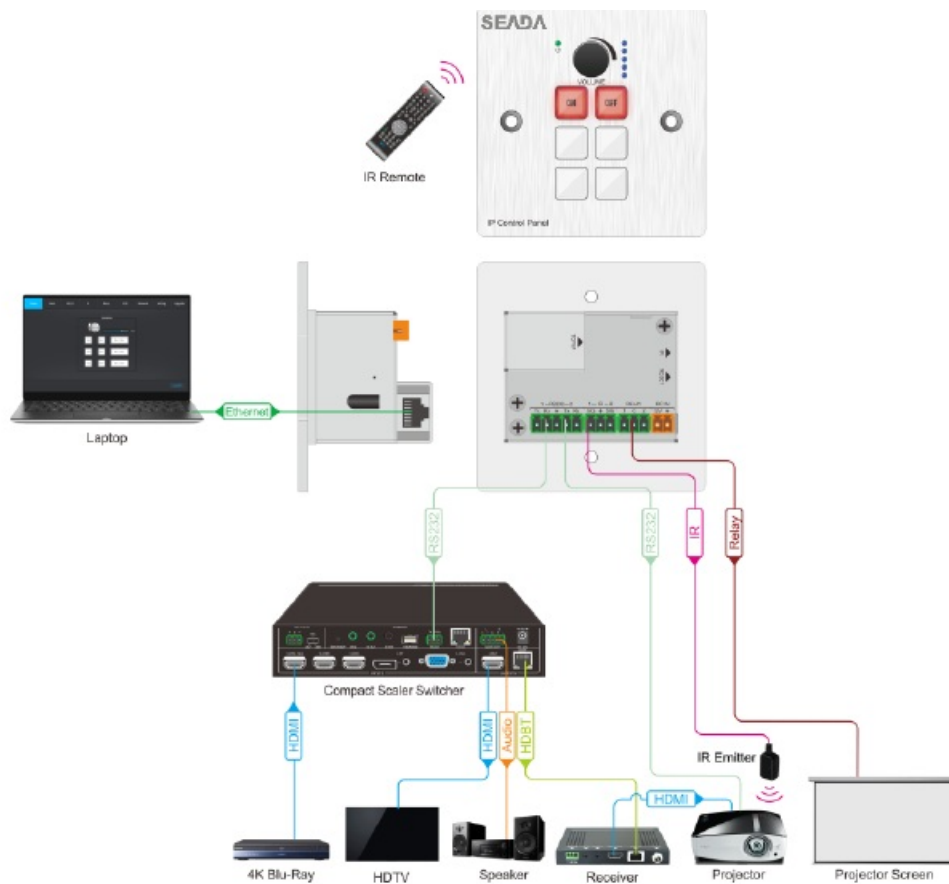
2	Volume Knob	Black volume knob, high-quality knob with high damping feel and stable structure, about 12-13mm in diameter
3	Button	<p>(6) crystal and luminescent programmable buttons:</p> <p>Each button can be programmed with the Control Panel Software.</p> <p>Each label within a button can be easily changed. Simply select the label you need and change it as shown below:</p> 
4	Volume indicator	5x blue indicator lights, light up in percentage according to the volume knob (1-19%, 20-39%, 40-59%, 60-79%, 80-100%)
5	TCP/IP	RJ45 connector. Connects with PC to run the GUI to customize button control.
6	RESET	Long-press this button 3 seconds until the power LED goes out to start to the restore factory defaults, and then the LED will light up while the resetting is successful.
7	IR Sensor	Receives and learns the IR code to build the IR database.
8	PWR(12V)	Connects with 12V DC power adaptor.
9	RELAY	Two groups of Relay Control, share a common switch interface, default ON

10	IR	Two sets of IR OUT, share a ground port, 5V standard, connect to the infrared emitting rod
11	RS232	2 RS232 ports. Connect the third-party devices which are need to be controlled via the SDCP7.

System Connection

The SDCP7 can active different ports at one time. It means every button can send the RS232 commands, IR code at the same time.

The demo system diagram as below:



System Diagram

1. Connect the SDCP7 to the LAN port of Wireless Route, or control device (such as PC) to TCP/IP port.
2. Connect the third-party devices (such as Matrix Switcher, Compact Scaler Switcher or Projector) that need to be controlled to RS232 (1) ~ RS232 (2) ports.
3. Connect the IR Emitters to IR (1) ~ IR (2) ports.
4. Connect to the third-party devices that need to be controlled by relay.

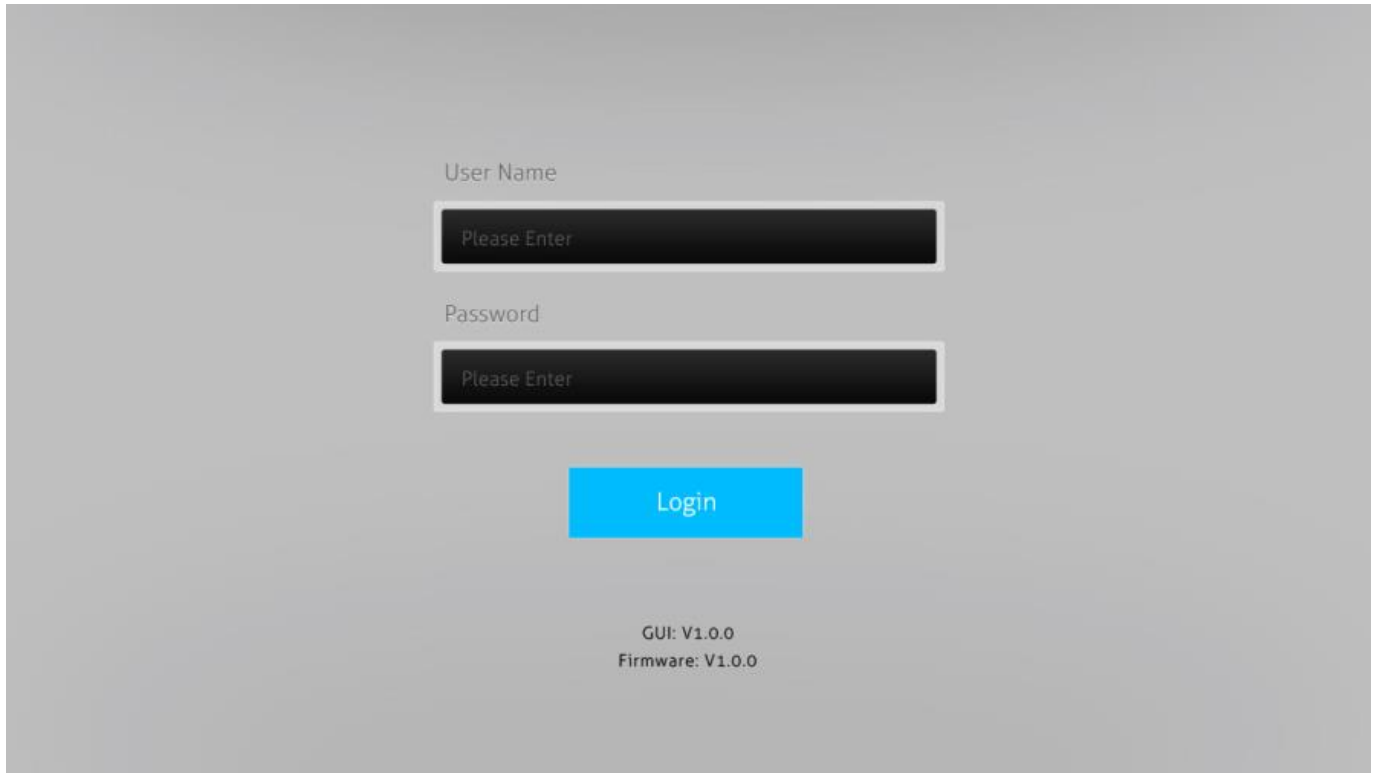
GUI Control

Log in

The SDCP7 is controlled by TCP/IP. The default settings are:

- IP Address: 192.168.0.178
- Subnet Mask: 255.255.250.0

Type 192.168.0.178 in the internet browser, it will enter the below log-in webpage:

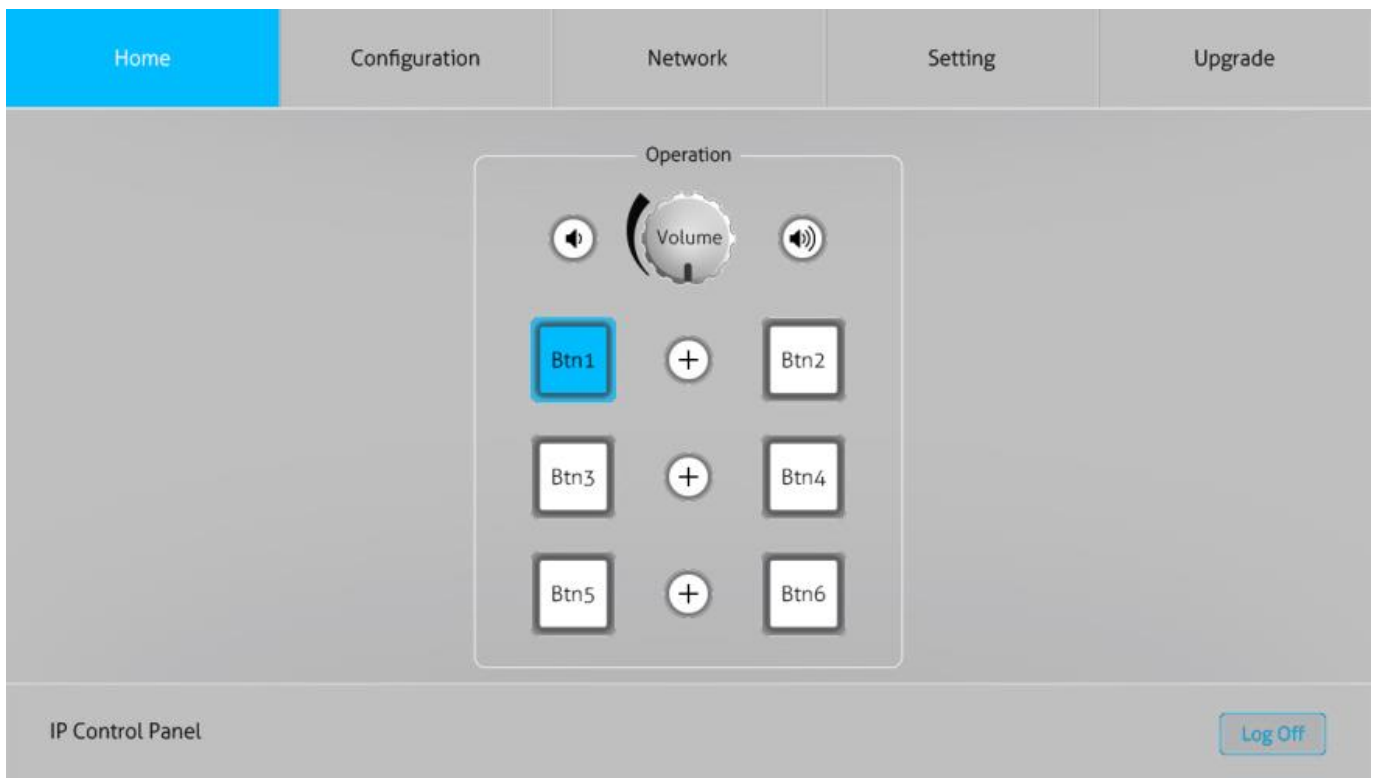
The image shows a login interface on a light gray background. At the top, the text "User Name" is displayed above a black input field containing the placeholder text "Please Enter". Below this, the text "Password" is displayed above another black input field, also containing the placeholder text "Please Enter". Centered below the password field is a bright blue rectangular button with the word "Login" in white text. At the bottom center of the page, the text "GUI: V1.0.0" and "Firmware: V1.0.0" is displayed in a small, dark font.

Username: admin

Password: admin

Type the username and password, and then click the login to enter the GUI setting.

Home



- Click the volume icon to adjust the volume; or click the knob icon to implement the corresponding event;
- Mouse operation click the corresponding button

Configuration

Knob

Min Vol: Max Vol:

Current Vol: Vol Wildcard:

This wildcard indicates Volume amount you set. It can be used for RS232 or TCP/IP commands.

No.	TCP/IP	Event Name	
1	192.168.0.178		

Port: 22

Format: HEX

Data(CMD):

IP Control Panel

- Knob/Button: Choose the knob or button to enter the event setting page
- Start up: Click to enter the starts up event setting page
- Set the Knob events: Turn Left, Press Down Setting or Turn Right

Button

The screenshot shows the 'Configuration' tab of the 'IP Control Panel'. On the left is a sidebar with a 'Knob' button and a list of buttons from 'Button 1' to 'Button 5 + 6'. 'Button 1' is selected. The main area is titled 'Event List' and contains three event entries: 'No. 1 TCP/IP', 'No. 2 RS232', and 'No. 3 LED'. Each entry has an 'Event Name' field, a trash icon, and an up/down arrow icon. The 'TCP/IP' entry is expanded, showing fields for 'IP' (192.168.0.178), 'Port' (22), 'Format' (HEX), 'Data(CMD)', and 'End Char for ASCII' (NULL). At the top right of the 'Event List' section are 'Save All' and 'Add Event' buttons. At the bottom right of the page is a 'Log Off' button.

Event No.	Event Type	Event Name	Actions
No. 1	TCP/IP	Event Name	Trash, Up/Down
Configuration for No. 1 TCP/IP:			
IP:		192.168.0.178	
Port:		22	
Format:		HEX	
Data(CMD):			
End Char for ASCII:		NULL	
No. 2	RS232	Event Name	Trash, Up/Down
No. 3	LED	Event Name	Trash, Up/Down

- Click the Button 1 to set the button 1 event, click Add Event and then set the Event and the corresponding settings
- One button can set multiple command events, such as TCP/IP, RS232, IR, RELAY, Delay and LED status

TCP/IP

The screenshot shows the 'Add Event' form in the 'Configuration' tab. The 'Event' dropdown is set to 'TCP/IP'. The form includes fields for 'Event Name', 'IP' (192.168.0.178), 'Port' (22), 'Format' (ASCII), 'Data(CMD)', and 'End Char for ASCII' (NULL). 'Save' and 'Cancel' buttons are at the bottom. The sidebar and 'Log Off' button are the same as in the previous screenshot.

Field	Value
Event	TCP/IP
Event Name	Event Name
IP	192.168.0.178
Port	22
Format	ASCII
Data(CMD)	
End Char for ASCII	NULL

- Set the TCP/IP event, such as IP, Port, Format, End Char for ASCII and Data

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The screenshot shows the 'Configuration' tab of the IP Control Panel. On the left, a sidebar lists 'Knob' and 'Button 1' through 'Button 5 + 6'. The main area is titled 'Add Event'. The 'Event' dropdown is set to 'RS232'. Below it, the 'Event Name' field contains 'Event Name'. The 'RS232 Port' dropdown is set to 'RS232 1', 'Baud Rate' is '9600', 'Data Bit' is '8', 'Stop Bit' is '1', 'Parity' is 'NONE', 'Format' is 'ASCII', and 'End Char for ASCII' is 'NULL'. The 'Data(CMD)' field is empty. At the bottom of the form are 'Save' and 'Cancel' buttons. Below the form is a 'Start Up' button. At the very bottom of the panel is an 'IP Control Panel' label and a 'Log Off' button.

Set the RS232 event, and then click save button to finish setting.

IR

The screenshot shows the 'Configuration' tab of the IP Control Panel. On the left, a sidebar lists 'Knob' and 'Button 1' through 'Button 5 + 6'. The main area is titled 'Add Event'. The 'Event' dropdown is set to 'IR'. To the right of the dropdown is an 'IR Learning' button. Below it, the 'Event Name' field contains 'Event Name'. The 'Port' dropdown is set to 'IR Out 1', 'Code or Custom' is 'IR Code', and the 'IR Code' field is empty. To the right of these fields is a table with columns 'Sel', 'Label', 'Value', and 'Del'. Below the table are 'Import' and 'Export' buttons. At the bottom of the form are 'Save' and 'Cancel' buttons. Below the form is a 'Start Up' button. At the very bottom of the panel is an 'IP Control Panel' label and a 'Log Off' button.

- In IR event, user can import or export the IR command
- Set the Event Name, Port, Code or Custom and IR Code for the event
- Click Save button to finish setting

Relay

The screenshot shows the 'Configuration' tab of the IP Control Panel. On the left is a sidebar with a 'Knob' section and a list of buttons: 'Button 1' (highlighted), 'Button 2', 'Button 3', 'Button 4', 'Button 5', 'Button 6', 'Button 1 + 2', 'Button 3 + 4', and 'Button 5 + 6'. Below the buttons is a 'Start Up' button. The main area is titled 'Add Event' and contains the following fields:

- Event:** A dropdown menu with 'Relay' selected.
- Event Name:** A text input field with 'Event Name' as a placeholder.
- Port:** A dropdown menu with 'Relay 1' selected.
- Action Mode:** A dropdown menu with 'ON' selected.

At the bottom of the form are 'Save' and 'Cancel' buttons. The footer of the page includes 'IP Control Panel' on the left and a 'Log Off' button on the right.

- Set the Event Name, Port and the Action Mode;
- Click Save button to finish setting

LED

This screenshot shows the 'Add Event' form with 'LED' selected in the 'Event' dropdown. The fields are as follows:

- Event:** A dropdown menu with 'LED' selected.
- Event Name:** A text input field with 'Event Name' as a placeholder.
- Button Select:** A dropdown menu with 'Button 1' selected.
- Status:** A dropdown menu with 'Always OFF' selected.

The 'Save' and 'Cancel' buttons are at the bottom of the form. The sidebar and footer are identical to the previous screenshot.

- Set the Event Name, Button Select, Status and LED Color;
- Click the Save button to finish setting

Delay

The screenshot shows the 'Configuration' tab selected in the top navigation bar. On the left sidebar, 'Button 1' is highlighted. The main area is titled 'Add Event'. It features a dropdown menu for 'Event' set to 'Delay'. Below this is an 'Event Name' input field. Time settings are provided for Hour (0-23), Minute (0-59), Second (0-59), and Millisecond (0-999), each with a numeric input field. At the bottom of the form are 'Save' and 'Cancel' buttons. The footer contains 'IP Control Panel' and a 'Log Off' button.

- Set the delay event to trigger the event after how long to press
- Click Save button to finish setting

Network

The screenshot shows the 'Network' tab selected in the top navigation bar. The main area displays the 'MAC Address' as 44-33-4C-C9-35-12. Below this is a toggle for 'DHCP' (selected) and 'Static IP'. Under 'Static IP', there are input fields for 'IP Address' (192.168.0.178), 'Subnet Mask' (255.255.255.0), and 'Gateway' (192.168.0.1). A 'Confirm' button is at the bottom of the form. The footer contains 'IP Control Panel' and a 'Log Off' button.

- Select dynamic or static IP mode. Under static mode, then IP Address, Subnet Mask and Gateway can be reset.

Setting

Home	Configuration	Network	Setting	Upgrade
<div>Credentials</div> <div>User Name: <input type="text" value="admin"/></div> <div>New Password: <input type="text" value="admin"/></div> <div><input type="button" value="Confirm"/></div> <div>Update Profile</div> <div>Setting: <input type="text" value="Please select file"/> <input type="button" value="Browse"/></div> <div><input type="button" value="Import"/></div> <div><input type="button" value="Export"/></div> <div>Factory Default</div> <div><input type="button" value="Default"/></div>				
IP Control Panel				<input type="button" value="Log Off"/>

- Credentials: setting the user name and new password and then click confirm button to perform the modification.
- Update Profile: Import or export the setting file to implement the system configuration.
- Factory Default: Click Factory reset

Upgrade

Home	Configuration	Network	Setting	Upgrade
<div>Firmware Upgrade</div> <div><input type="text" value="C:\\"/> <input type="button" value="Browse"/></div> <div><input type="button" value="Upgarde"/></div>				
IP Control Panel				<input type="button" value="Log Off"/>

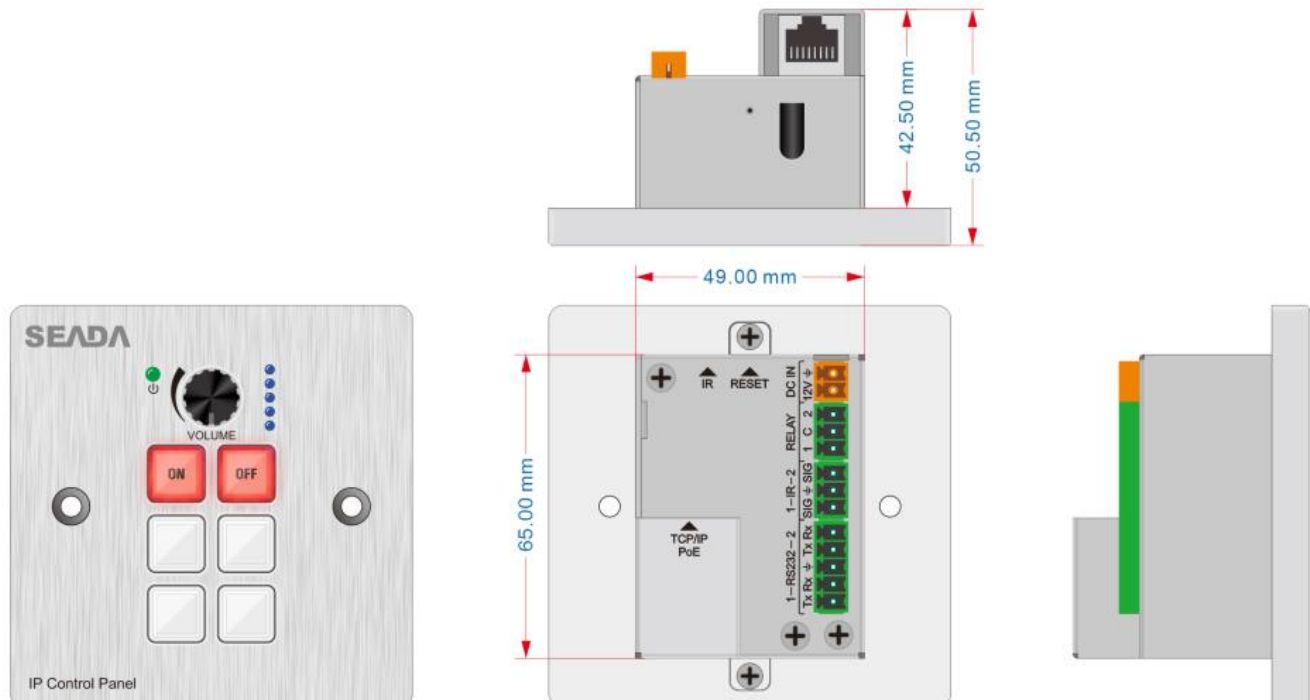
- **Firmware Upgrade:** click the browse to choose the upgrade file(the file need to be renamed as “SDCP7.app”)

and then click upgrade to execute upgrade.

Specification

Program Port	TCP/IP
Output Port	2 x RS232, 2 x IR, 2 x Relay
Output Connector	2 x 3-Pin Pluggable terminal blocks, 2 x 2-Pin Pluggable terminal blocks,
Baud Rate	9600 baud, supports 9600,19200,38400,57600,115200
Power Consumption	2.5W (Max)
Operation Temperature	0 ~ +40°C
Storage Temperature	-10 ~ +55°C
Relative Humidity	10% ~ 90%
Power Supply	Input: 12VDC, PoE
Net Weight	195g
Case Dimensions (W*H*D	86mm x 86mm x 50.5mm

Panel Drawing



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 two 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.

Website: www.seada.co.uk

E-mail: sales@seada.co.uk

Documents / Resources

	<p>SEADA SDCP7 6 Buttons and 1 Knob IP Control Panel [pdf] User Manual SDCP7, SDCP7 6 Buttons and 1 Knob IP Control Panel, 6 Buttons and 1 Knob IP Control Panel, 1 Knob IP Control Panel, IP Control Panel, Control Panel</p>
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References

- [Video and HDMI Video Wall Controller | Seada](#)