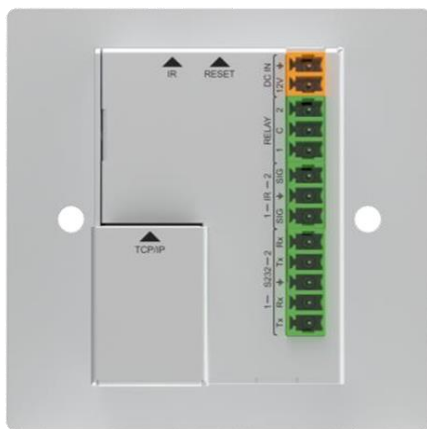


User Manual

TF6P-EU

6 Buttons IP Control Panel

Program buttons to send RS232 commands to control projectors, screens and other third-party devices.



All Rights Reserved

Version: TF6P-EU_2022V1.1


Preface

Read this user manual carefully before using the product. Pictures shown in this manual are 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 August, 2022. 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.

All product function is valid till 2022-08.

Trademarks

Product model and logo  are trademarks of U.T.E. electronic GmbH & Co. KG. Any other trademarks mentioned in this manual are acknowledged as the properties of the trademark owner. No part of this publication may be copied or reproduced without the prior written consent.

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 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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1. Product Introduction

1.1 Introduction to TF6P-EU

The Wallplate Control Panel TF6P-EU has (2) built-in programmable RS232 connectors and (2) Infrared (IR) connectors.

The Programmable Control Panel TF6-P-EU 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.

1.2 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

1.3 Package List

- 1 x TF6P-EU: Programmable 6 Buttons Wallplate IP Control Panel
- 6 x Button caps
- 1 x 5-Pin Pluggable terminal block
- 2 x 3-Pin Pluggable terminal block
- 1 x 2-Pin Pluggable terminal blocks
- 1 x Button label
- 1 x User manual



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

2. Panel Description

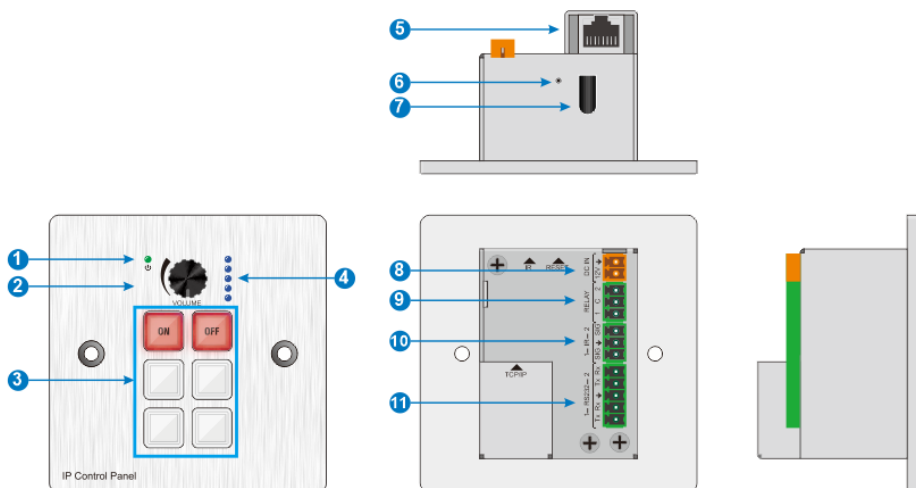
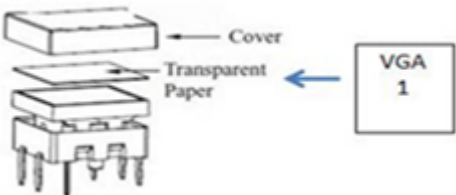


Figure 2-1 Panel Description TF6P-EU

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: 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> 

TF6P-EU: 6 Buttons IP Control Panel

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 TF6P.



Note: Pictures shown in this manual are for reference only, different model and specifications are subject to real product.

3. System Connection

The TF6P-EU can active different ports at one time. It means every button can send the RS232 commands, IR code at the same time.

3.1 Usage Precaution

- Make sure all components and accessories included before installation.
- System should be installed in a clean environment with proper temperature and humidity.
- All of the power switches, plugs, sockets, and power cords should be insulated and safe.

3.2 Connection Procedure

- Step1.** Connect the TF6P-EU to the LAN port of (Wireless) Router, or control device (such as PC) to TCP/IP port.
- Step2.** Connect the third-party devices (such as Matrix Switcher, Scaler Switcher or Projector) that need to be controlled to RS232 (1) ~RS232 (3) ports.
- Step3.** Connect the IR Emitters to IR (1) ~ IR (2) ports.
- Step4.** Connect to the third-party devices that need to be controlled by relay

TF6P-EU: 6 Buttons IP Control Panel

3.3 System Diagram TF6P-EU

The following figure shows a typical application that can be realized with 6 Buttons IP Control Panel TF6P-EU:

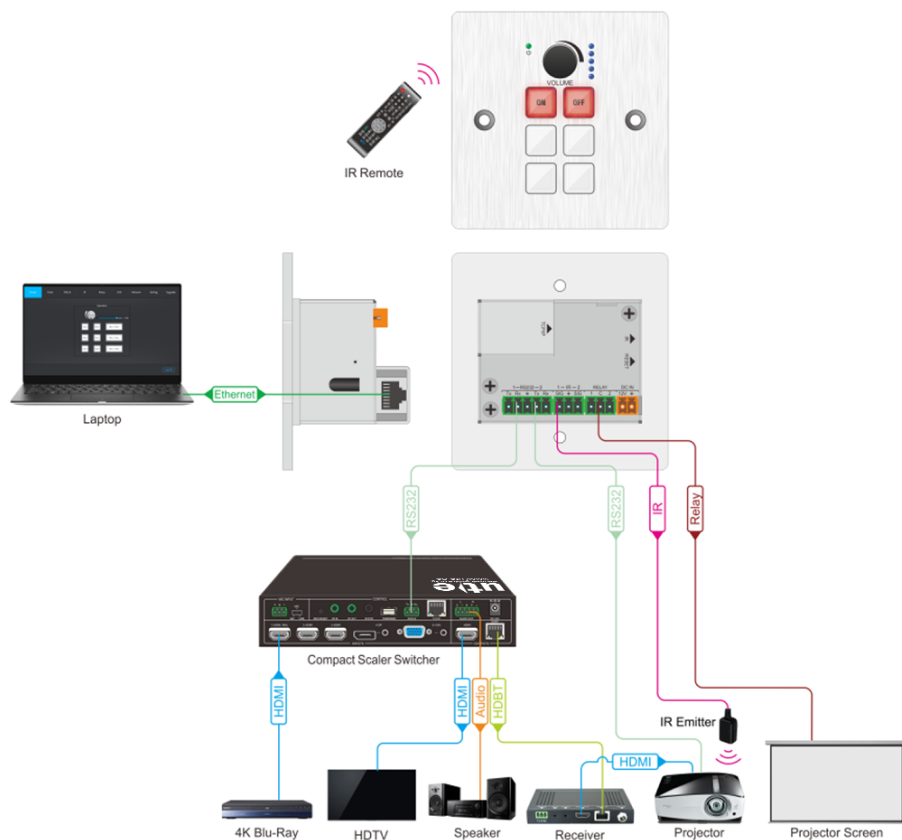


Figure 3-1 Connection and System Diagram



Note: Pictures shown in this manual are for reference only, different model and specifications are subject to real product

4. GUI Control

TF6P-EU provides with built-in GUI for convenient TCP/IP control.

GUI allows users to interact with TF6P-EU through graphical icons and visual indicators.

4.1 Log in

The TF6P-EU is controlled by TCP/IP.

The default IP settings are:

IP Address: 192.168.0.178

Subnet Mask: 255.255.255.0

Type **192.168.0.178** in your browser, it will enter the log-in interface shown as below:



The screenshot shows a web-based login interface with a light gray background. At the top, the text "User Name:" is followed by a black input field containing the placeholder text "Please Enter". Below this, the text "Password:" is followed by another black input field containing the placeholder text "Please Enter". Centered below the password field is a blue rectangular button with the word "Login" in white text. At the bottom of the interface, the text "GUI: V1.0.0" and "Firmware: V1.0.0" is displayed.

Username: admin

Password: admin

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

4.2 Home Tab



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

4.3 Configuration Tab

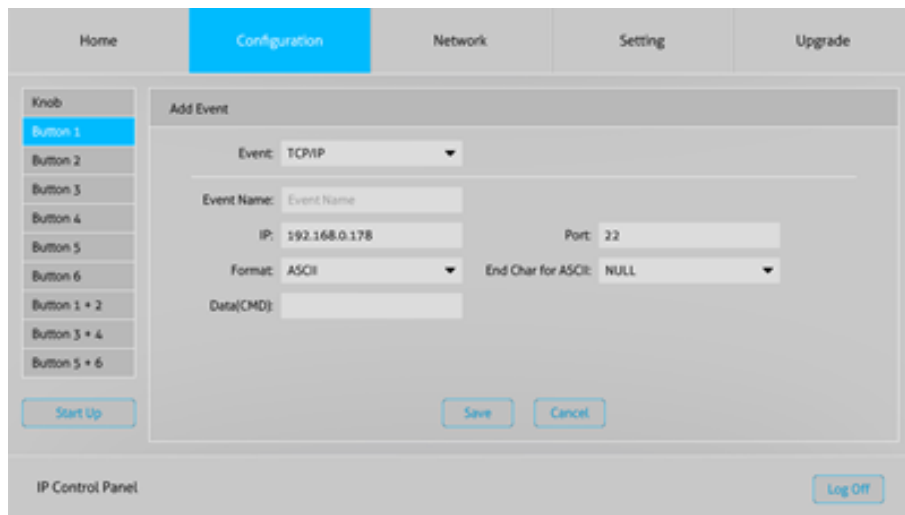
4.3.1 Knob Menu



The screenshot shows the 'Configuration' tab of the TF6P-EU interface. The 'Knob' menu is selected on the left sidebar, showing options for Knob, Button 1 through 6, and combinations of buttons. The main area contains settings for Min Vol, Max Vol, Current Vol, and Vol Wildcard. A 'Save' button is present. Below these are three buttons: 'Vol- (Turn Left)', 'Press Down Setting', and 'Vol+ (Turn Right)'. An 'Event List' section includes a table with columns for No., TCP/IP, and Event Name. The table shows one entry with IP 192.168.0.178, Port 22, and Format HEX. There are 'Save All' and 'Add Event' buttons. At the bottom, there is a 'Start Up' button and a 'Log Off' button.

- 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

4.3.2 Button Menu



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

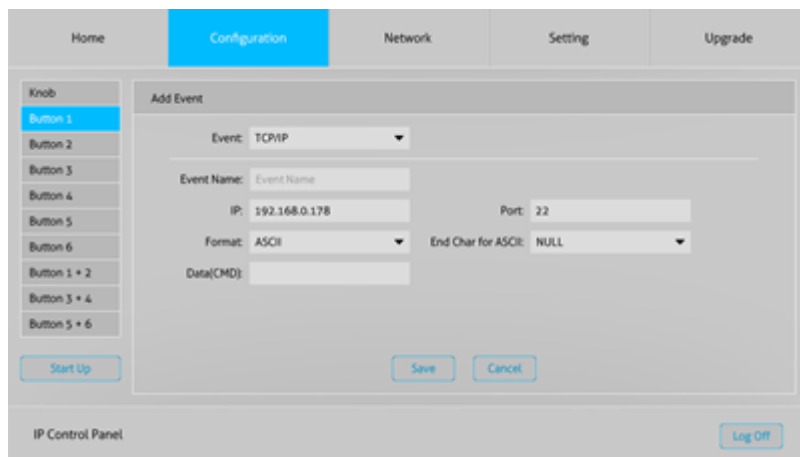
- Event:** A dropdown menu currently set to 'TCP/IP'.
- Event Name:** A text input field with the placeholder 'Event Name'.
- IP:** A text input field containing '192.168.0.178'.
- Port:** A text input field containing '22'.
- Format:** A dropdown menu currently set to 'ASCII'.
- End Char for ASCII:** A dropdown menu currently set to 'NULL'.
- Data(CMD):** A text input field.

At the bottom of the 'Add Event' section are 'Save' and 'Cancel' buttons. The footer of the interface shows 'IP Control Panel' on the left and a 'Log Off' button on the right.

- 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

4.3.3 Add Button Event

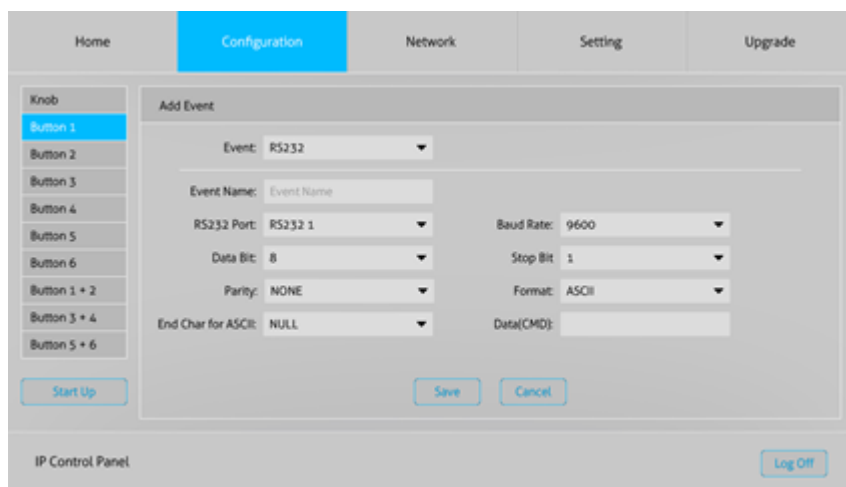
4.3.3.1. Add TCP/IP Event



The screenshot shows the 'Configuration' tab of the IP Control Panel. On the left, a sidebar lists 'Knob' and 'Button 1' through 'Button 6', with 'Button 1' selected. The main area is titled 'Add Event'. The 'Event' dropdown is set to 'TCP/IP'. Below it, the 'Event Name' field is empty. The 'IP' field contains '192.168.0.178' and the 'Port' field contains '22'. The 'Format' dropdown is set to 'ASCII' and the 'End Char for ASCII' dropdown is set to 'NULL'. The 'Data(CMD)' field is empty. At the bottom, there are 'Start Up', 'Save', and 'Cancel' buttons. The footer shows 'IP Control Panel' and a 'Log Off' button.

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

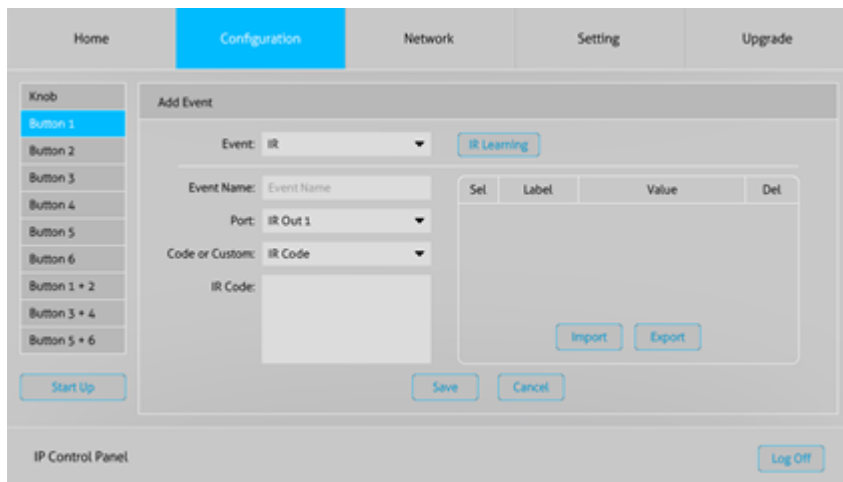
4.3.3.2. ADD RS232 Event



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

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

4.3.3.3. Add IR Event



The screenshot shows the 'Add Event' configuration page for an IR event. The page has a sidebar on the left with a 'Knob' section and a list of button combinations (Button 1, Button 2, Button 3, Button 4, Button 5, Button 6, Button 1 + 2, Button 3 + 4, Button 5 + 6). The main area is titled 'Add Event' and contains the following fields:

- Event:** A dropdown menu set to 'IR'. There is an 'IR Learning' button next to it.
- Event Name:** A text input field with the placeholder 'Event Name'.
- Port:** A dropdown menu set to 'IR Out 1'.
- Code or Custom:** A dropdown menu set to 'IR Code'.
- IR Code:** A large text input field.

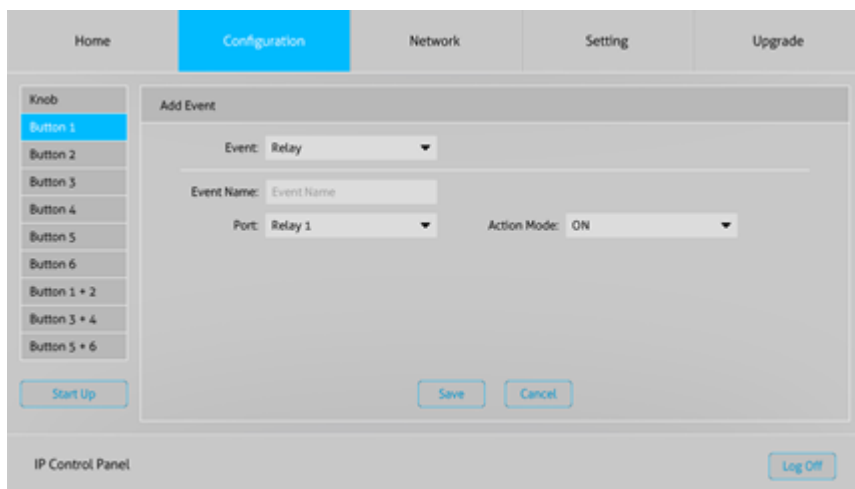
Below these fields is a table with the following structure:

Sel	Label	Value	Del

At the bottom of the table are 'Import' and 'Export' buttons. Below the table are 'Save' and 'Cancel' buttons. At the bottom of the page are 'Start Up', 'Log Off', and 'IP Control Panel' buttons.

- 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

4.3.3.4. Add Relay Event



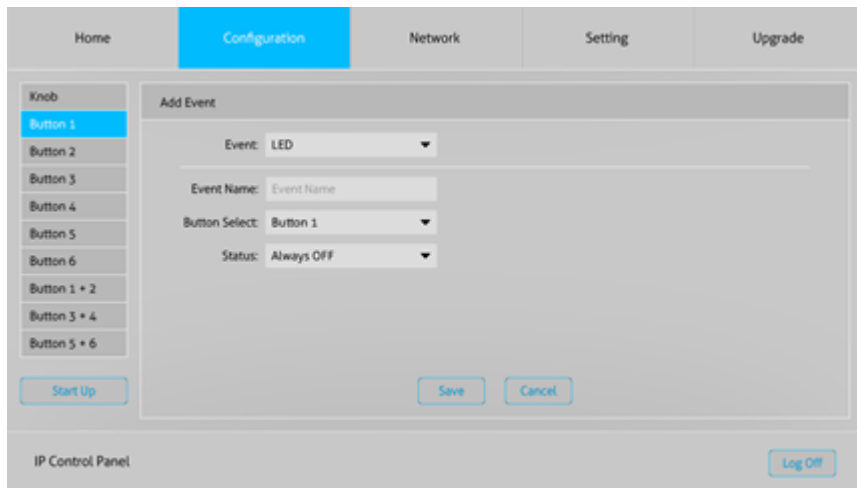
The screenshot shows the 'Add Event' configuration page for a Relay event. The page has a sidebar on the left with a 'Knob' section and a list of button combinations (Button 1, Button 2, Button 3, Button 4, Button 5, Button 6, Button 1 + 2, Button 3 + 4, Button 5 + 6). The main area is titled 'Add Event' and contains the following fields:

- Event:** A dropdown menu set to 'Relay'.
- Event Name:** A text input field with the placeholder 'Event Name'.
- Port:** A dropdown menu set to 'Relay 1'.
- Action Mode:** A dropdown menu set to 'ON'.

At the bottom of the page are 'Save' and 'Cancel' buttons. At the bottom of the page are 'Start Up', 'Log Off', and 'IP Control Panel' buttons.

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

4.3.3.5. Add LED Event



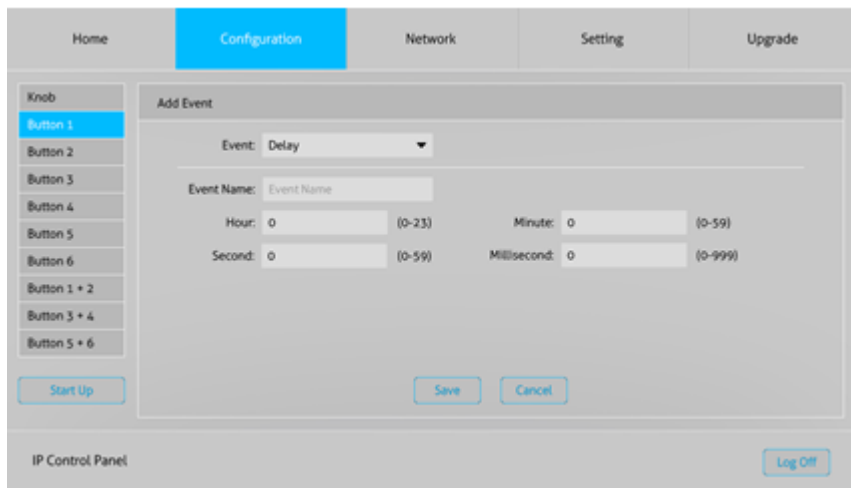
The screenshot shows the 'Add Event' configuration screen in the 'Configuration' tab. On the left, a sidebar lists 'Knob' and 'Button 1' through 'Button 6', with 'Button 1' selected. The main area is titled 'Add Event' and contains the following fields:

- Event:** A dropdown menu set to 'LED'.
- Event Name:** A text input field containing 'Event Name'.
- Button Select:** A dropdown menu set to 'Button 1'.
- Status:** A dropdown menu set to 'Always OFF'.

At the bottom of the main area are 'Save' and 'Cancel' buttons. Below the main area is a 'Start Up' button. At the very bottom of the screen are 'IP Control Panel' and 'Log Off' buttons.

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

4.3.3.6. Add Delay Event



The screenshot shows the 'Add Event' configuration screen in the 'Configuration' tab. On the left, a sidebar lists 'Knob' and 'Button 1' through 'Button 6', with 'Button 1' selected. The main area is titled 'Add Event' and contains the following fields:

- Event:** A dropdown menu set to 'Delay'.
- Event Name:** A text input field containing 'Event Name'.
- Hour:** A text input field set to '0' with a range '(0-23)'.
- Minute:** A text input field set to '0' with a range '(0-59)'.
- Second:** A text input field set to '0' with a range '(0-59)'.
- Millisecond:** A text input field set to '0' with a range '(0-999)'.

At the bottom of the main area are 'Save' and 'Cancel' buttons. Below the main area is a 'Start Up' button. At the very bottom of the screen are 'IP Control Panel' and 'Log Off' buttons.

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

4.4 Network Tab



Home Configuration **Network** Setting Upgrade

MAC Address: 44-33-4C-C9-35-12

DHCP ☒ Static IP

IP Address:

Subnet Mask:

Gateway:

IP Control Panel

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

4.5 Setting Tab

The screenshot shows the 'Setting' tab of the IP Control Panel. The interface has a top navigation bar with five tabs: 'Home', 'Configuration', 'Network', 'Setting' (highlighted in blue), and 'Upgrade'. Below the navigation bar, the 'Setting' section is divided into three main areas: 'Credentials', 'Update Profile', and 'Factory Default'. The 'Credentials' section contains two text input fields: 'User Name' with the value 'admin' and 'New Password' with the value 'admin', followed by a 'Confirm' button. The 'Update Profile' section contains a 'Setting' dropdown menu with the text 'Please select file', a 'Browse' button, and two buttons labeled 'Import' and 'Export'. The 'Factory Default' section contains a 'Default' button. At the bottom left of the interface is the text 'IP Control Panel', and at the bottom right is a 'Log Off' button.

- 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

4.6 Upgrade Tab



The screenshot displays the 'Upgrade' tab of the IP Control Panel. The navigation bar at the top includes 'Home', 'Configuration', 'Network', 'Setting', and 'Upgrade' (which is the active tab, highlighted in blue). The main content area is titled 'Firmware Upgrade' and features a text input field containing 'C:\', a 'Browse' button to the right of the field, and an 'Upgrade' button centered below the field. The footer of the interface shows 'IP Control Panel' on the left and a 'Log Off' button on the right.

- Firmware Upgrade: click the browse to choose the upgrade file (the file need to be renamed as "*WP6P.app*") and then click upgrade to execute upgrade.

5. 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
Dimensions (W*H*D)	86mm x 86mm x 50.5mm

6. Panel Drawing

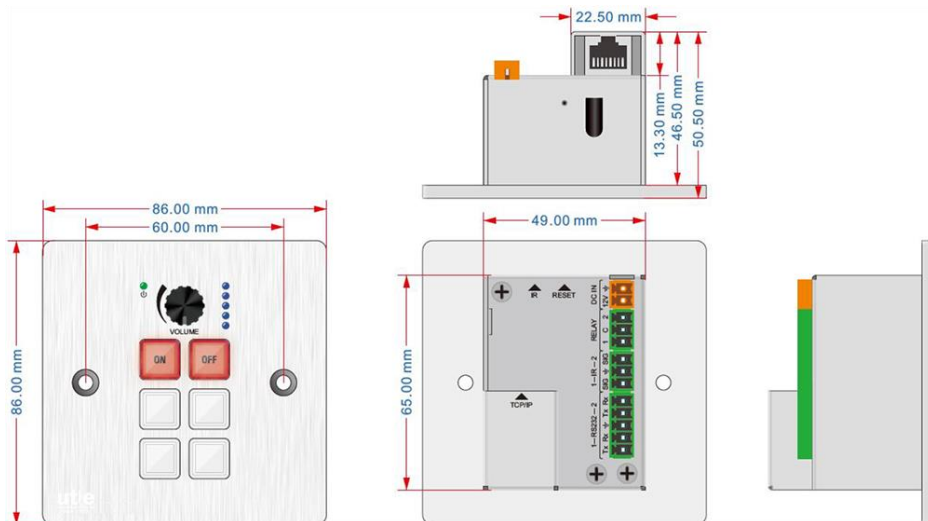


Figure 6-1 Panel Drawing TF6P-EU

7. After-sales/ Customer Service

Any transport costs are borne by the users during the warranty.

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) Product Limited Warranty:** We warrant that its products will be free from defects in materials and workmanship for two years, which starts from the first day you buy this product (The purchase invoice shall prevail).

Proof of purchase in the form of a bill of sale or receipted invoice which is evidence that the unit is within the Warranty period must be presented to obtain warranty service.

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 dealer only.

3) What the warranty does not cover:

- 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.
- Any other causes which does not relate to a product defect
- Delivery, 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 defect 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 dealer.

5) Technical Support: Email to our after-sales department or make a call, please inform us the following information about your cases.

- Product version and name.
- Detailed failure situations.
- The formation of the cases.

Remarks: For any questions or problems, please try to get help from your local dealer or our customer support (info@ute.de).



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