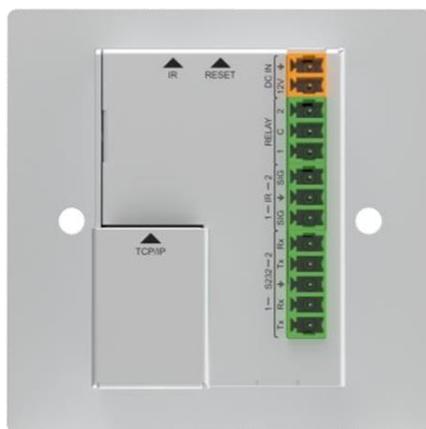


# User Manual

## 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

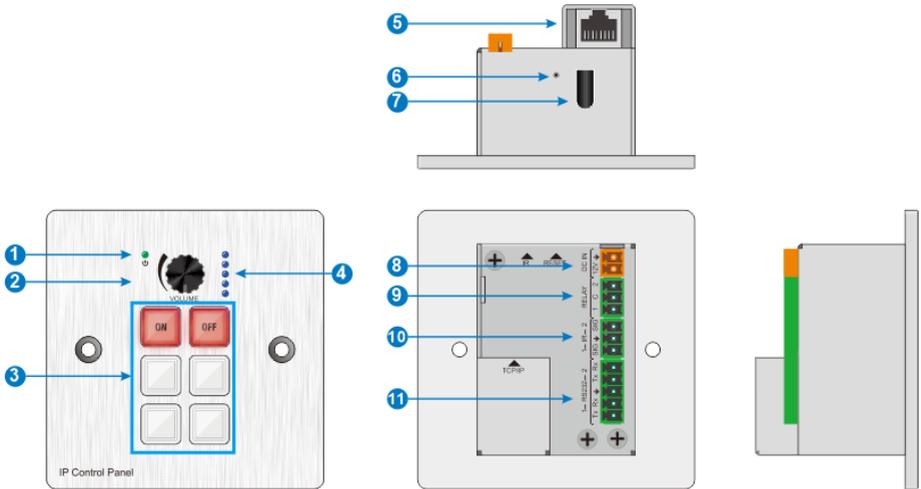
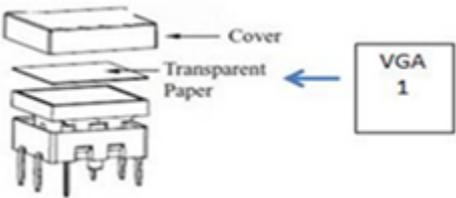


Figure 2-1 Panel Description TF6P-EU

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.

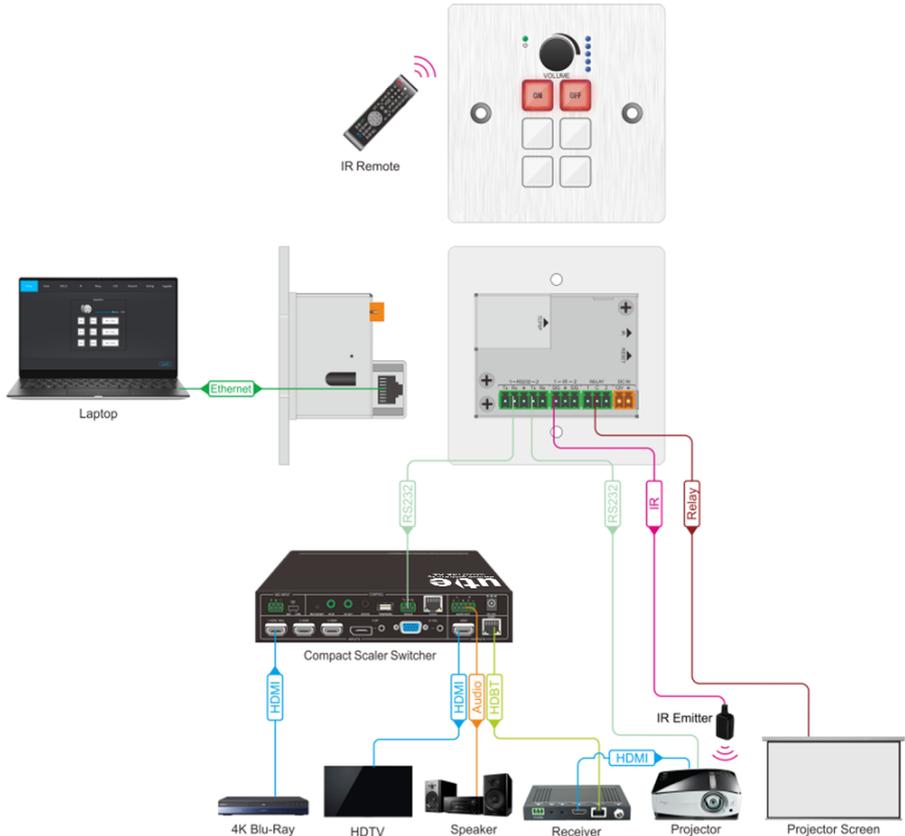
#### **3.2 Connection Procedure**

- 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:



**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



Home Configuration Network Setting Upgrade

Knob

Button 1

Button 2

Button 3

Button 4

Button 5

Button 6

Button 1 + 2

Button 3 + 4

Button 5 + 6

Start Up

Min Vol:

Max Vol:

Current Vol:

Vol Wildcard:

Save

Vol- (Turn Left) Press Down Setting Vol+ (Turn Right)

Event List

Save All Add Event

No.	TCP/IP	Event Name
No. 1	192.168.0.178	

IP: 192.168.0.178 Port: 22

Format: HEX

Data(CMD):

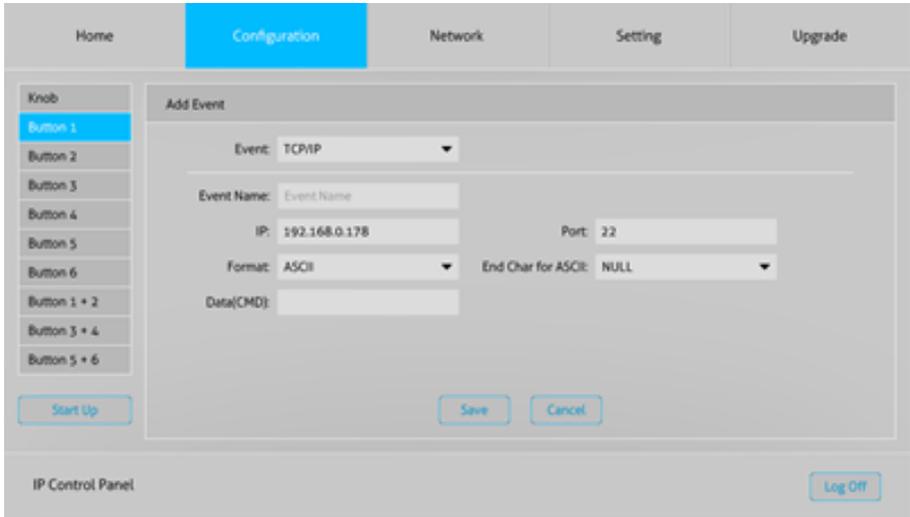
IP Control Panel

Log Off

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

- 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

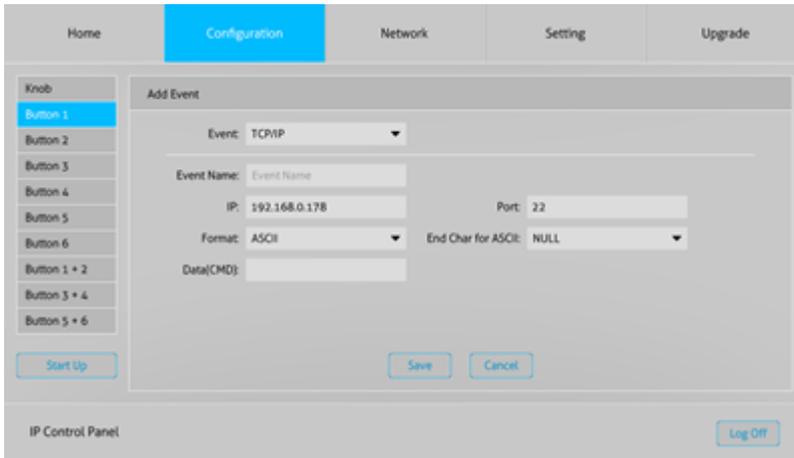
### 4.3.2 Button Menu



- 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



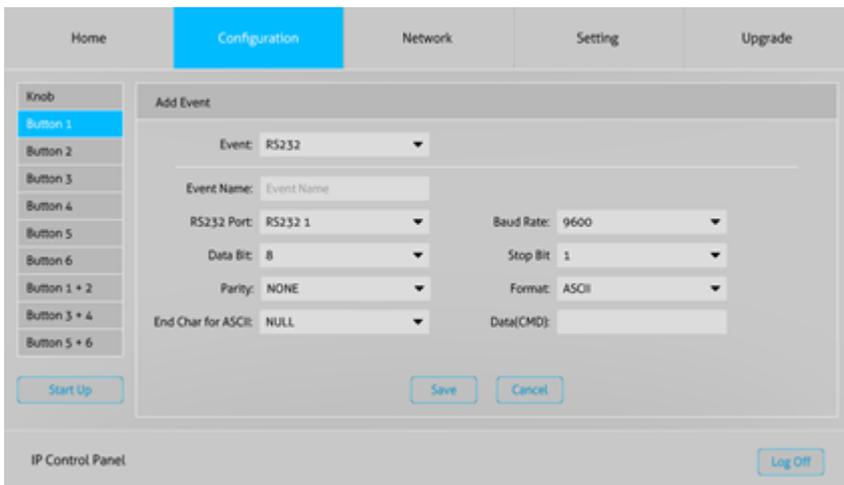
The screenshot shows the 'Configuration' tab of the IP Control Panel. On the left, a 'Knob' menu has 'Button 1' selected. The main area is titled 'Add Event' and contains the following fields:

- Event: TCP/IP (dropdown)
- Event Name: Event Name (text input)
- IP: 192.168.0.178 (text input)
- Port: 22 (text input)
- Format: ASCII (dropdown)
- End Char for ASCII: NULL (dropdown)
- Data(CMD): (text input)

Buttons for 'Start Up', 'Save', and 'Cancel' are visible at the bottom of the form. 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



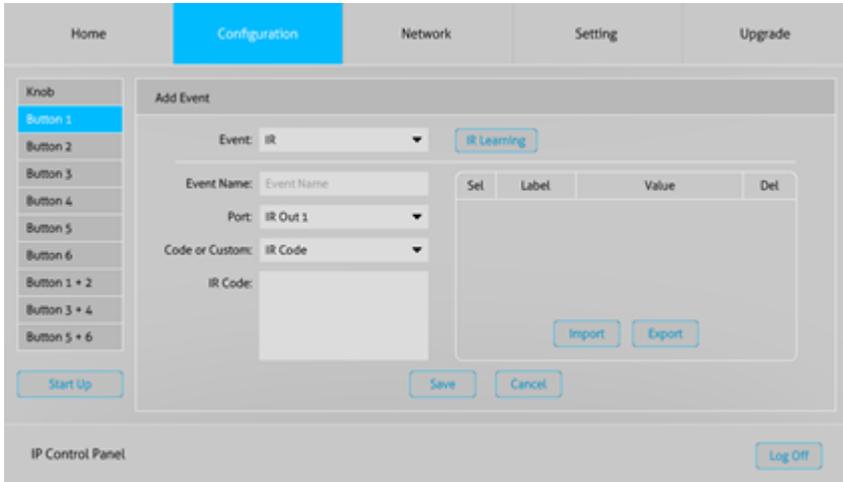
The screenshot shows the 'Configuration' tab of the IP Control Panel. On the left, a 'Knob' menu has 'Button 1' selected. The main area is titled 'Add Event' and contains the following fields:

- Event: RS232 (dropdown)
- Event Name: Event Name (text input)
- RS232 Port: RS232 1 (dropdown)
- Baud Rate: 9600 (dropdown)
- Data Bit: 8 (dropdown)
- Stop Bit: 1 (dropdown)
- Parity: NONE (dropdown)
- Format: ASCII (dropdown)
- End Char for ASCII: NULL (dropdown)
- Data(CMD): (text input)

Buttons for 'Start Up', 'Save', and 'Cancel' are visible at the bottom of the form. The footer shows 'IP Control Panel' and a 'Log Off' button.

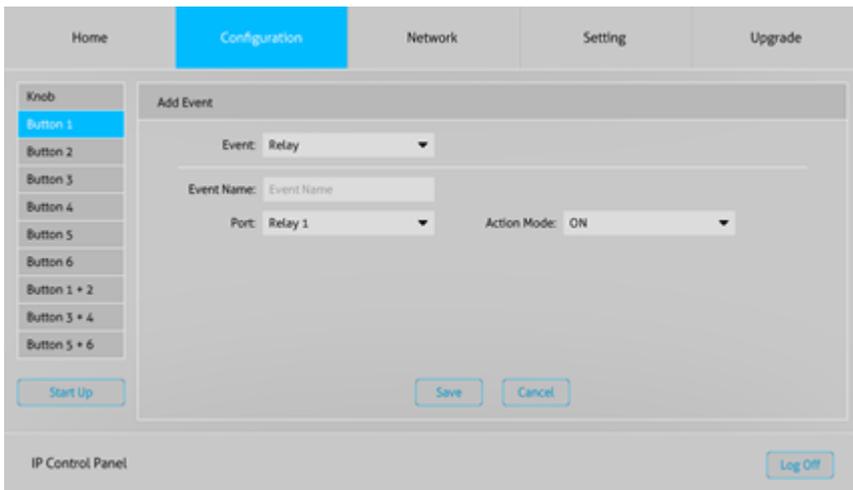
- Set the RS232 event, and then click save button to finish setting.

### 4.3.3.3. Add IR Event



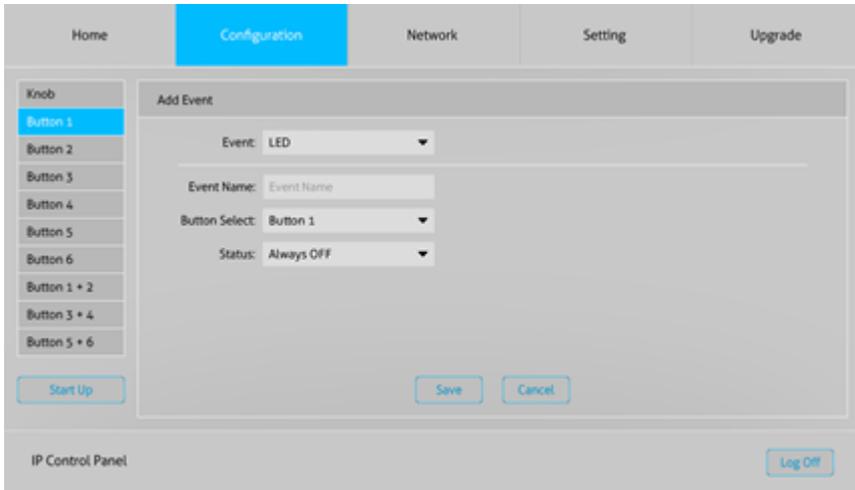
- In IR event, user can import or export the IR command
- Set the Event Name, Port, Code or Custom and IR Code for the event
- Click Save button to finish setting

### 4.3.3.4. Add Relay Event



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

### 4.3.3.5. Add LED Event



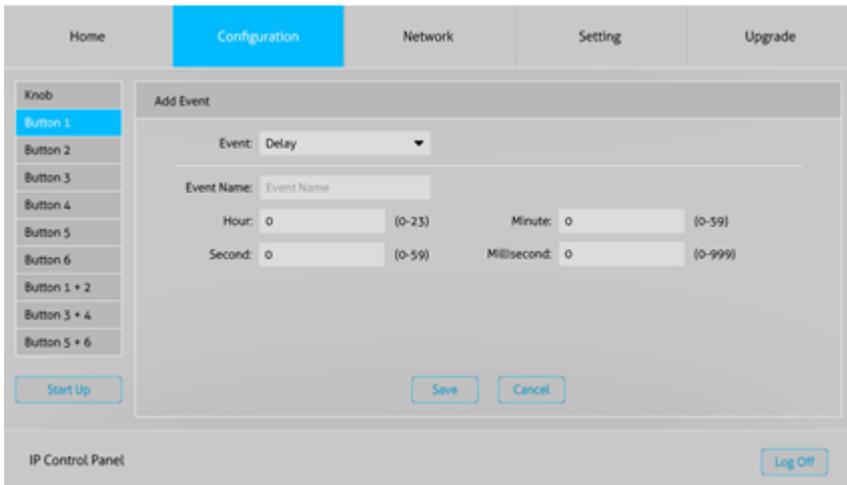
The screenshot shows the 'Add Event' configuration interface. On the left, a sidebar lists 'Knob' and 'Button 1' through 'Button 5 + 6'. The main area is titled 'Add Event' and contains the following fields:

- Event:** LED (dropdown menu)
- Event Name:** Event Name (text input field)
- Button Select:** Button 1 (dropdown menu)
- Status:** Always OFF (dropdown menu)

At the bottom of the form are three buttons: 'Start Up', 'Save', and 'Cancel'. The footer of the page includes 'IP Control Panel' and a 'Log Off' button.

- 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 interface for a delay event. On the left, a sidebar lists 'Knob' and 'Button 1' through 'Button 5 + 6'. The main area is titled 'Add Event' and contains the following fields:

- Event:** Delay (dropdown menu)
- Event Name:** Event Name (text input field)
- Hour:** 0 (range 0-23)
- Minute:** 0 (range 0-59)
- Second:** 0 (range 0-59)
- Millisecond:** 0 (range 0-999)

At the bottom of the form are three buttons: 'Start Up', 'Save', and 'Cancel'. The footer of the page includes '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

## 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 navigation bar at the top includes 'Home', 'Configuration', 'Network', 'Setting' (highlighted in blue), and 'Upgrade'. The main content area is divided into three sections:

- Credentials:** Contains input fields for 'User Name' (value: admin) and 'New Password' (value: admin), followed by a 'Confirm' button.
- Update Profile:** Features a 'Setting' dropdown menu with the text 'Please select file', a 'Browse' button, and 'Import' and 'Export' buttons.
- Factory Default:** Includes a 'Default' button.

At the bottom left, it says 'IP Control Panel' and at the bottom right, there 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



Home Configuration Network Setting Upgrade

Firmware Upgrade

C:\ Browse

Upgrade

IP Control Panel Log Off

- 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



## 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 warrants 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 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 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](mailto:info@ute.de)).







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