

# iControl K06-US

6 Keys Control Keypad, US version

*User Manual V1.0*



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## 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.



# 1. INTRODUCTION

The **iControl K06-US** Wallplate Control Panel has 2x built-in programmable RS232 connectors and 2x 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.

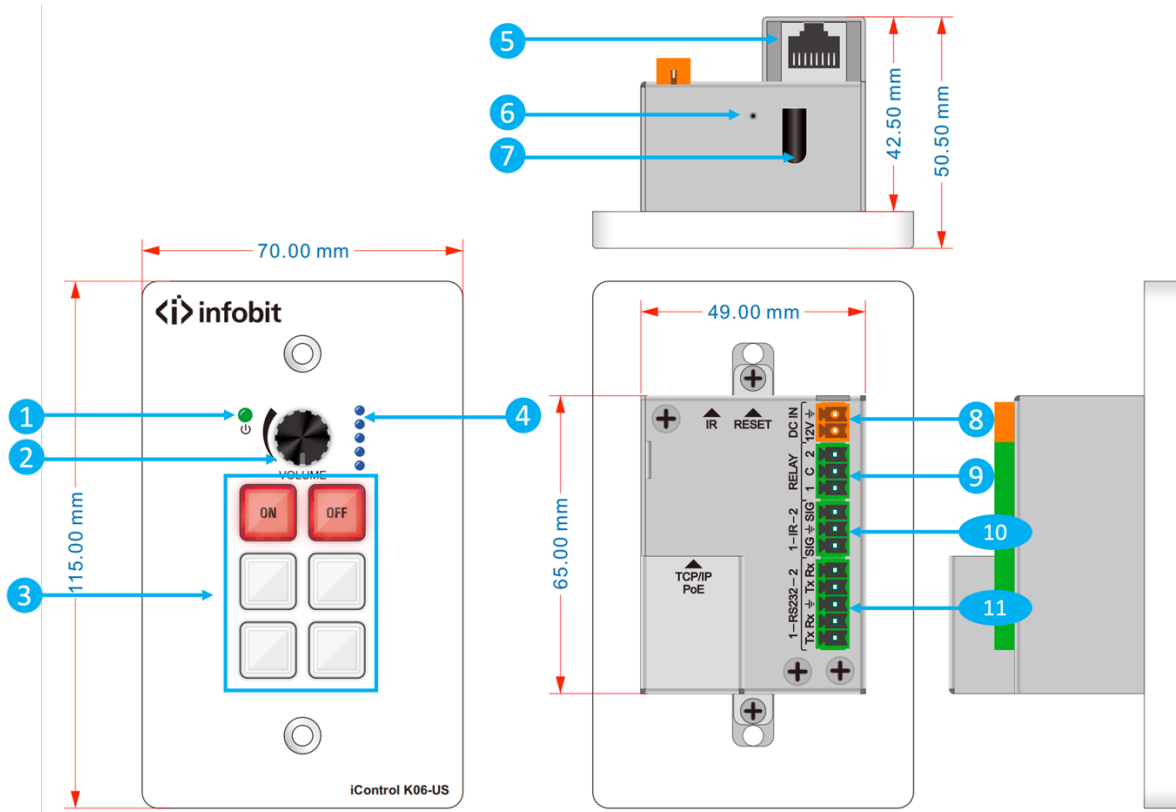
# 2. FEATURES

- 6x programmable backlit buttons w/ customizable label
- Each button color can be customized by user
- 1x volume control knob
- 2 RS-232, 2 IR and 2 Relay for control.
- Support TCP/IP Control
- Support IR learning function
- Can be controlled and configured via User-friendly Web GUI
- Can be powered by PoE
- US Wallplate version

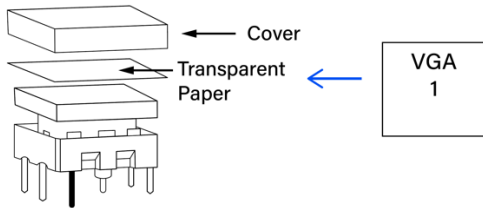
# 3. PACKAGE LIST

- 1x iControl K06-US
- 1x 2-Pin Pluggable terminal blocks
- 6x Button caps
- 1x 5-Pin Pluggable terminal block
- 2x 3-Pin Pluggable terminal block
- 1x Button label
- 1 x User Manual

## 4. PANEL DESCRIPTION



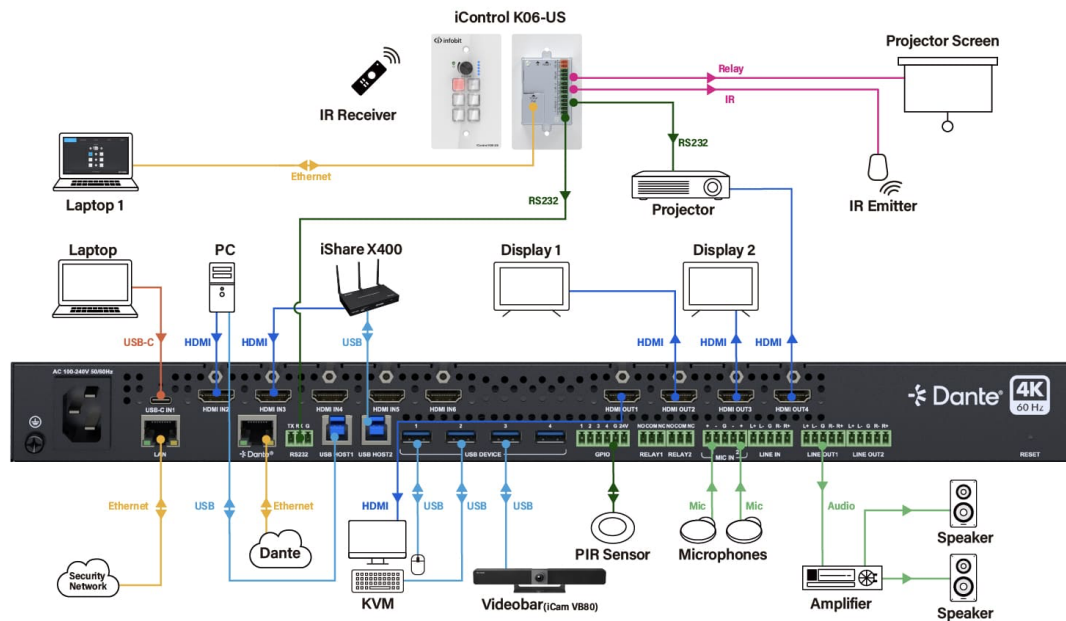
No.	Name	Description
1	Power LED	Illuminates green when power on.
2	Volume Knob	Black volume knob, high-quality knob with high damping feel and stable structure, about 12-13mm in diameter
3	Button	6x crystal and luminescent programmable buttons: Each button can be programed with the Web GUI.  Each label within a button can be easily changed. Simply select the label you need and change it as shown below:

		
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	2x groups of Relay Control, share a common switch interface, default <b>ON</b>
10	IR	2x sets of IR OUT, share a ground port, 5V standard, connect to the infrared emitting rod
11	RS232	2x RS232 ports. Connect the third-party devices which are need to be controlled via the <b>iControl K06-US</b> .

## 5. SYSTEM CONNECTION

The **iControl K06-US** 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:



- 1) Connect the **iControl K06-US** to the LAN port of Wireless Router/ network switch/ 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.

## 6. GUI CONTROL

### 6.1 LOG IN

The **iControl K06-US** is controlled by TCP/IP. The default settings are:

**IP Address:** 192.168.0.178

**Subnet Mask:** 255.255.255.0

**Telnet port:** 4001

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



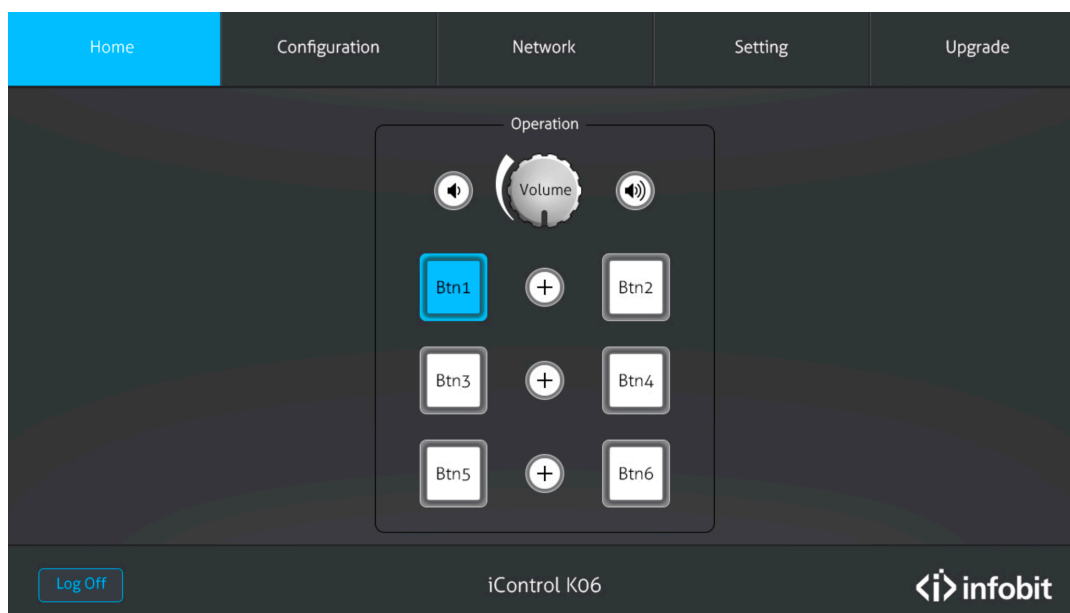
The login screen features a dark background with the infobit logo in the top right corner. It contains two input fields: 'User Name' and 'Password', both with placeholder text 'Please Enter'. Below these fields is a blue 'Login' button. At the bottom, it displays 'GUI: V1.0.0', 'Firmware: V1.0.0', and 'iControl K06' in the bottom left corner.

**Username:** admin

**Password:** admin

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

## 6.2 HOME

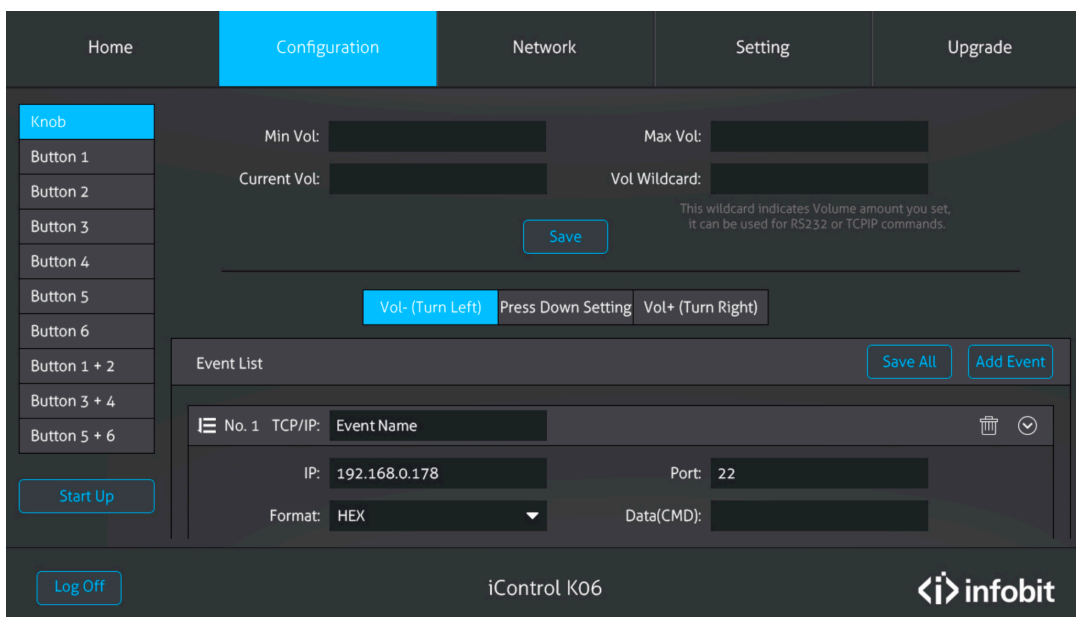




- Click the volume icon to adjust the volume; or click the knob icon to implement the corresponding event;
- Mouse operation click the corresponding button

## 6.3 CONFIGURATION

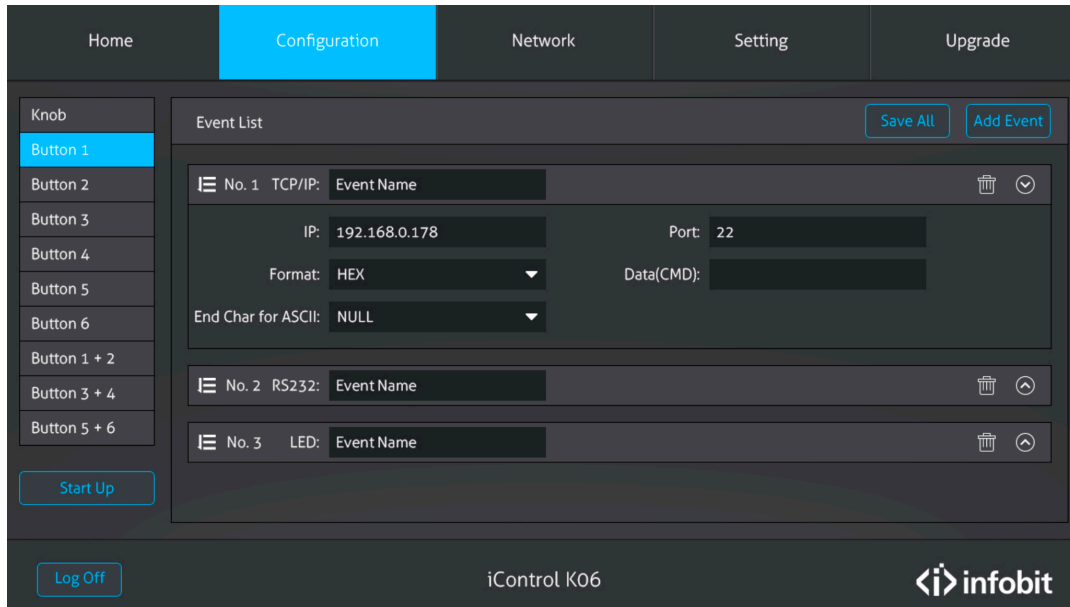
### 6.3.1 KNOB



The screenshot shows the 'Configuration' page for the 'Knob' section of the iControl K06 interface. The page has a dark theme with blue accents. At the top, there are navigation tabs: Home, Configuration (selected), Network, Setting, and Upgrade. On the left side, there is a vertical menu with options: Knob (selected), Button 1, 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 content area is divided into two sections. The top section is for volume settings, with fields for 'Min Vol:', 'Max Vol:', 'Current Vol:', and 'Vol Wildcard:'. There is a 'Save' button and a note: 'This wildcard indicates Volume amount you set, It can be used for RS232 or TCPIP commands.' Below this is a row of three buttons: 'Vol- (Turn Left)', 'Press Down Setting', and 'Vol+ (Turn Right)'. The bottom section is titled 'Event List' and contains a table with columns: No., TCP/IP, and Event Name. The first row shows 'No. 1', 'TCP/IP: 192.168.0.178', and 'Event Name'. There are 'Save All' and 'Add Event' buttons at the top right of the event list. Below the table, there are fields for 'IP:', 'Port:', 'Format:', and 'Data(CMD):'. The 'IP:' field is set to '192.168.0.178', 'Port:' is '22', 'Format:' is 'HEX', and 'Data(CMD):' is empty. At the bottom of the page, there is a 'Log Off' button, the text 'iControl K06', and the infobit logo.

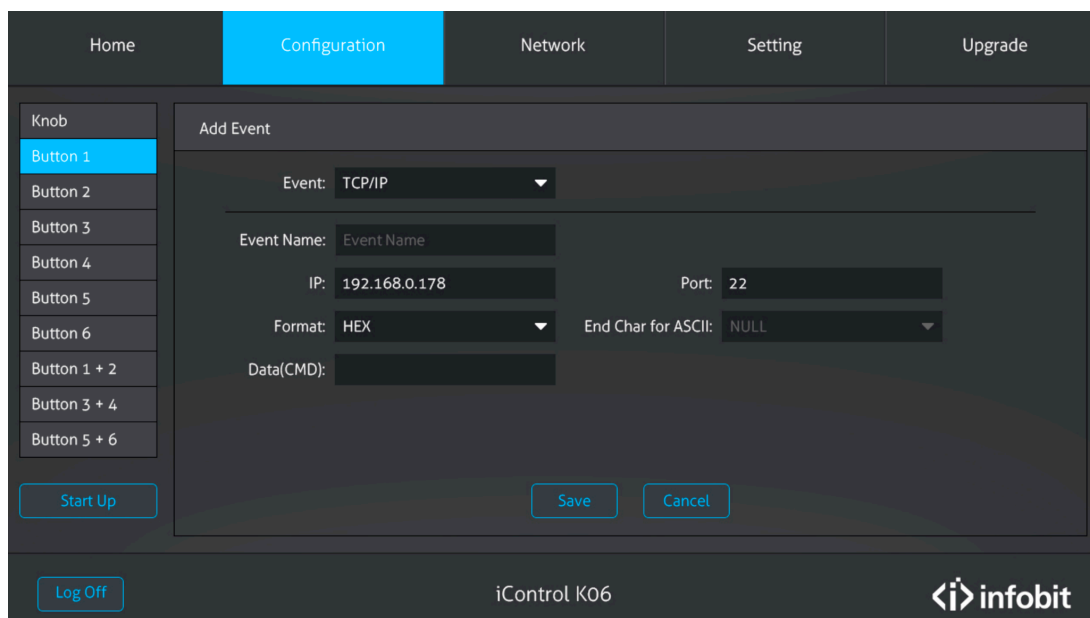
- **Knob/Button:** Choose the knob or button to enter the event setting page.
- **Start up:** Click to enter the starts up event setting page.
- **Set the Knob events:** Turn Left, Press Down Setting or Turn Right

## 6.3.2 BUTTON



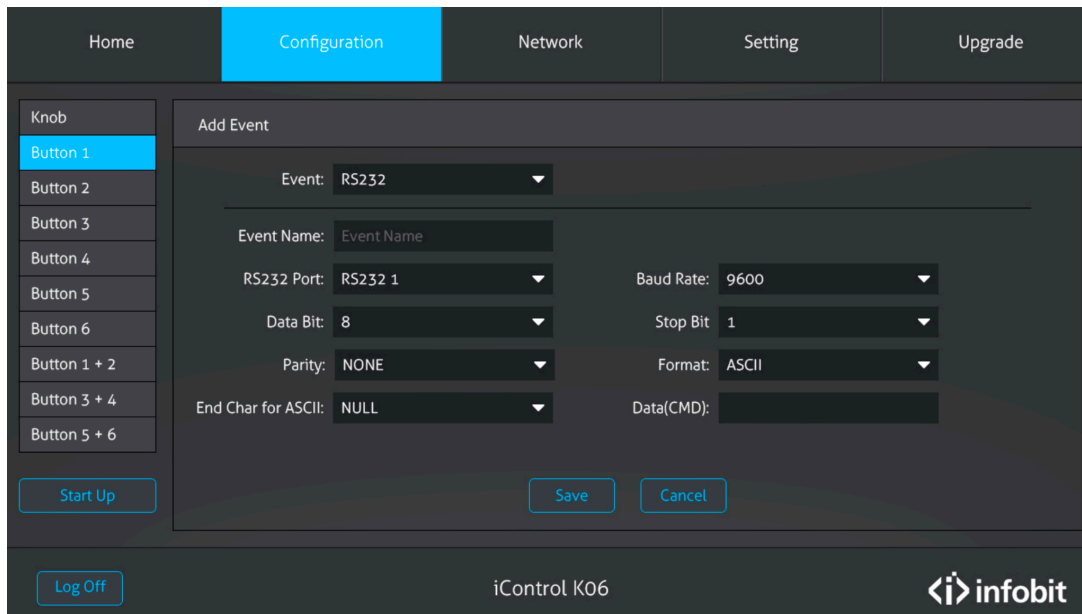
- Click the Button 1 to set the button 1 event, click **Add Event** and then set the Event and the corresponding settings.
- One button can set multiple command events, such as TCP/IP, RS232, IR, RELAY, Delay and LED status.

## 6.3.3 TCP/IP



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

## 6.3.4 RS232



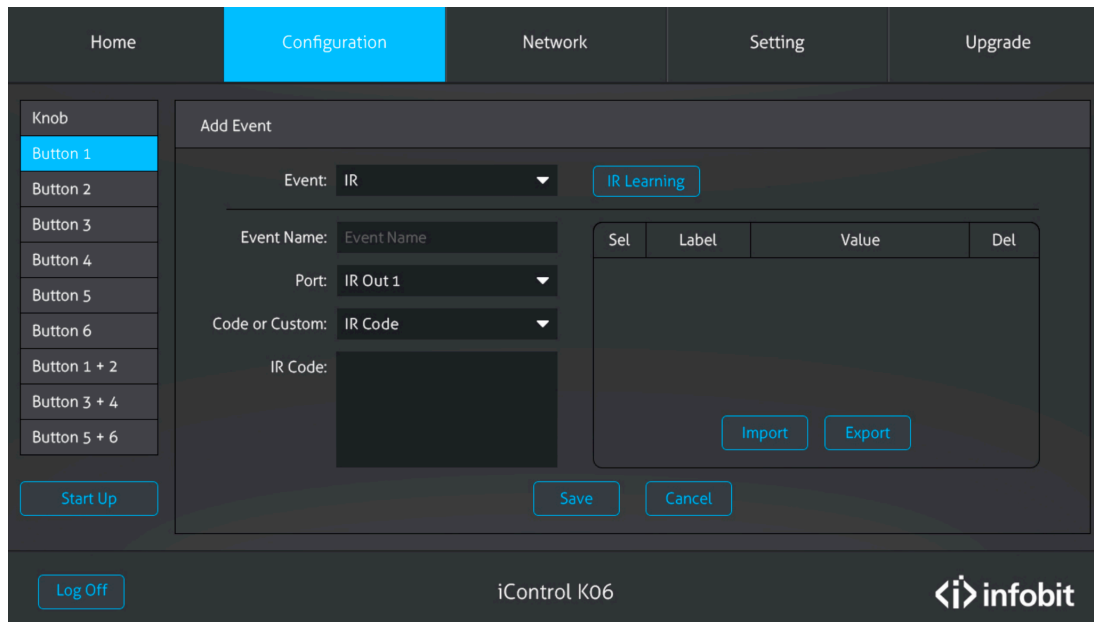
The screenshot shows the 'Configuration' tab of the iControl K06 interface. On the left, a sidebar lists 'Knob' and 'Button 1' through 'Button 5 + 6'. The main area is titled 'Add Event' and contains the following settings:

Field	Value
Event	RS232
Event Name	Event Name
RS232 Port	RS232 1
Baud Rate	9600
Data Bit	8
Stop Bit	1
Parity	NONE
Format	ASCII
End Char for ASCII	NULL
Data(CMD)	

At the bottom of the configuration area are 'Save' and 'Cancel' buttons. Below the configuration area is a 'Start Up' button. At the very bottom of the interface are a 'Log Off' button, the text 'iControl K06', and the infobit logo.

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

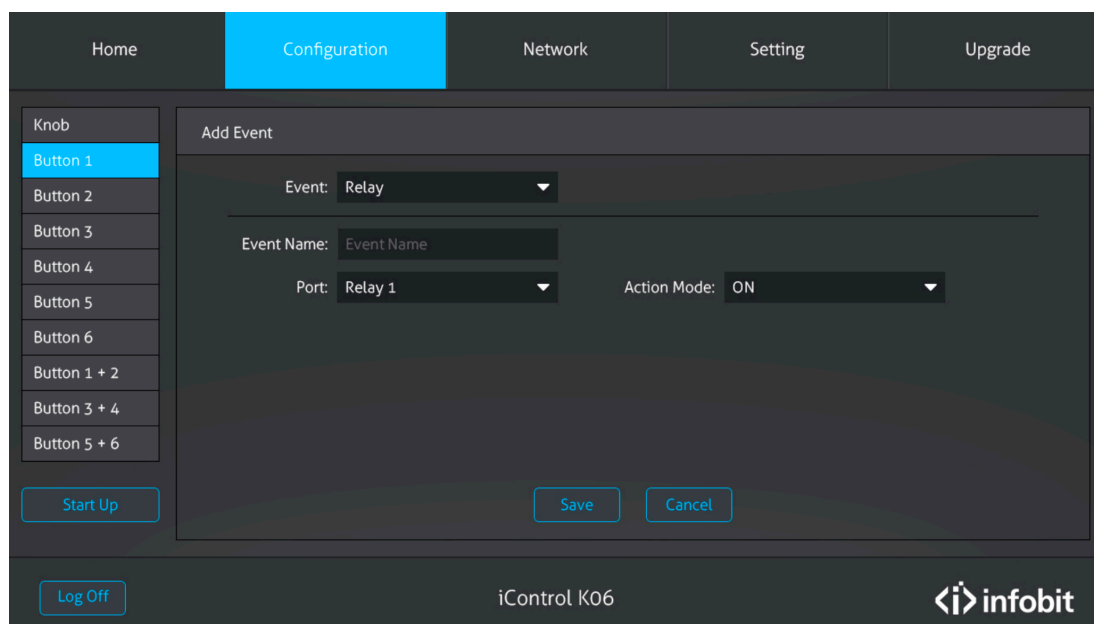
## 6.3.5 IR



The screenshot shows the 'Configuration' tab in the iControl K06 interface. 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', with an 'IR Learning' button next to it. Below this, there are fields for 'Event Name' (with a placeholder 'Event Name'), 'Port' (set to 'IR Out 1'), and 'Code or Custom' (set to 'IR Code'). An 'IR Code' input field is present. 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. A 'Start Up' button is located in the sidebar. The footer shows 'Log Off', 'iControl K06', and the infobit logo.

- 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.

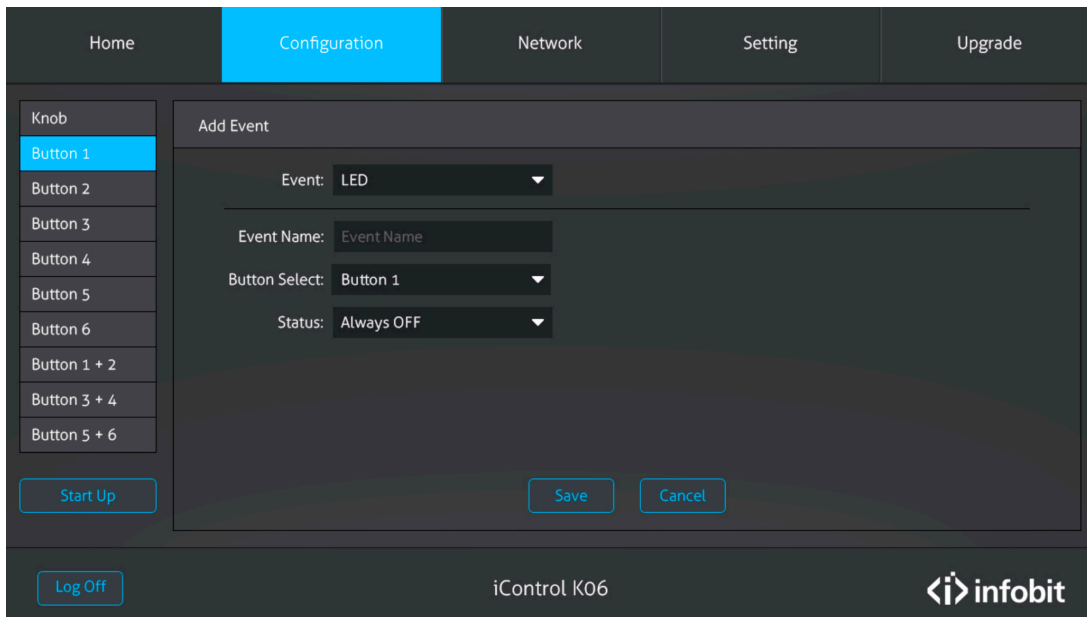
## 6.3.6 RELAY



The screenshot shows the 'Configuration' tab in the iControl K06 interface. 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 'Relay'. Below this, there are fields for 'Event Name' (with a placeholder 'Event Name'), 'Port' (set to 'Relay 1'), and 'Action Mode' (set to 'ON'). At the bottom of the form are 'Save' and 'Cancel' buttons. A 'Start Up' button is located in the sidebar. The footer shows 'Log Off', 'iControl K06', and the infobit logo.

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

### 6.3.7 LED



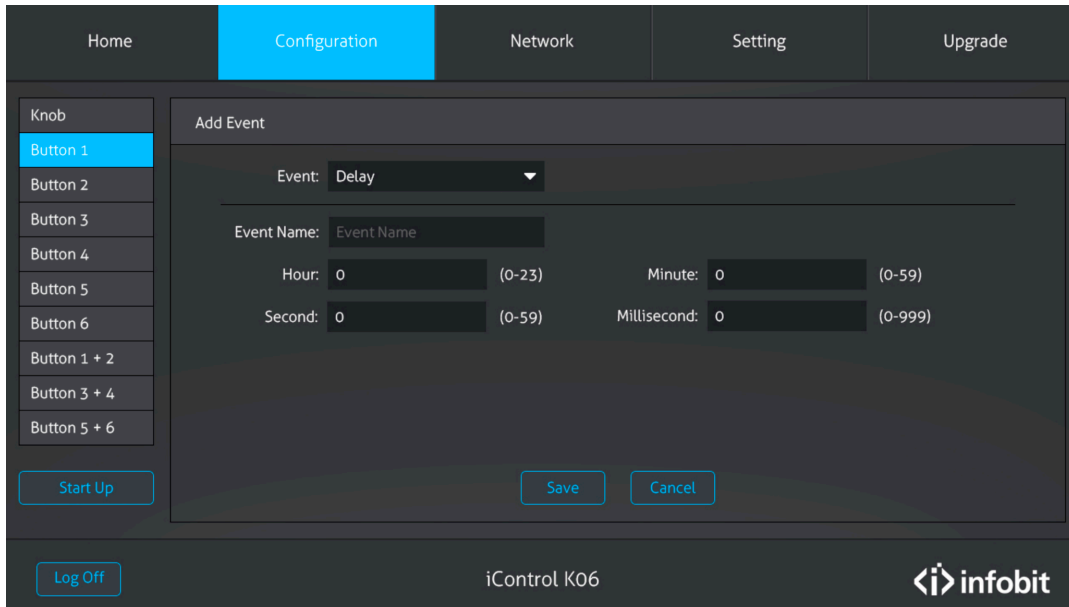
The screenshot shows the 'Configuration' tab in the iControl K06 interface. On the left, a sidebar lists 'Knob' and 'Button 1' through 'Button 6', with 'Button 1' selected. Below the sidebar is a 'Start Up' button. The main area is titled 'Add Event' and contains the following fields:

- 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.

At the bottom of the 'Add Event' section are 'Save' and 'Cancel' buttons. The footer of the interface includes a 'Log Off' button, the text 'iControl K06', and the 'infobit' logo.

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

## 6.3.8 DELAY



The screenshot shows the 'Configuration' tab in the iControl K06 interface. On the left, a sidebar lists 'Knob' and 'Button 1' through 'Button 5 + 6'. The 'Add Event' dialog is open, showing the 'Event' dropdown set to 'Delay'. Below this, there is an 'Event Name' field. Further down, there are four input fields for time: 'Hour' (0-23), 'Minute' (0-59), 'Second' (0-59), and 'Millisecond' (0-999). At the bottom of the dialog are 'Save' and 'Cancel' buttons. The footer of the interface includes a 'Log Off' button, the text 'iControl K06', and the 'infobit' logo.

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

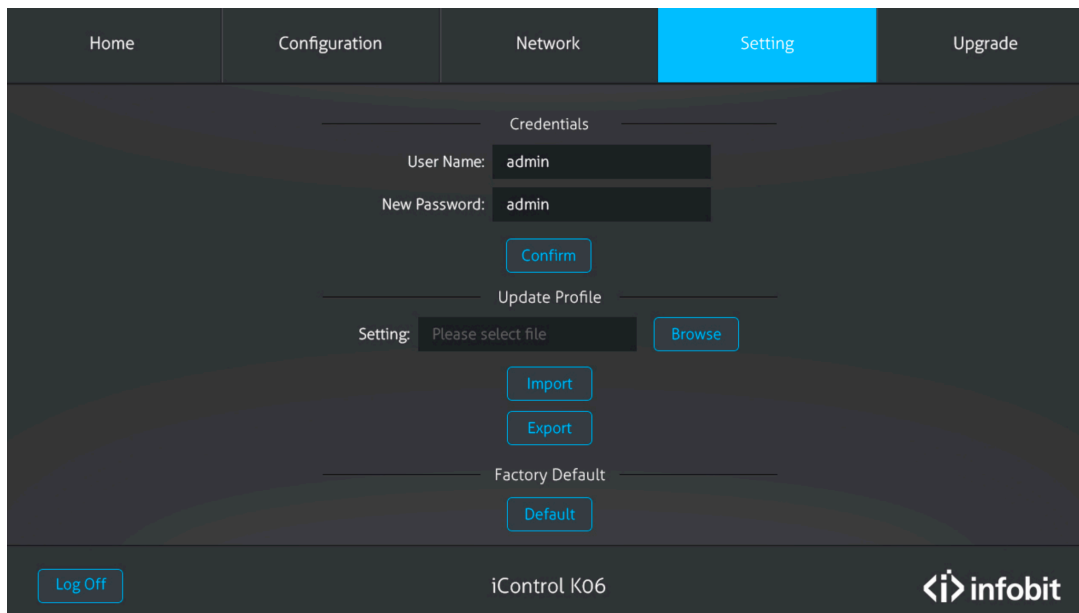
## 6.4 NETWORK



The screenshot shows the 'Network' tab in the iControl K06 interface. The 'MAC Address' is displayed as 44-33-4C-C9-35-12. Below this, there are two radio buttons for 'DHCP' (selected) and 'Static IP'. Under the 'DHCP' section, there are four input fields: 'IP Address' (192.168.0.178), 'Subnet Mask' (255.255.255.0), and 'Gateway' (192.168.0.1). A 'Confirm' button is located at the bottom of the configuration area. The footer of the interface includes a 'Log Off' button, the text 'iControl K06', and the 'infobit' logo.

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

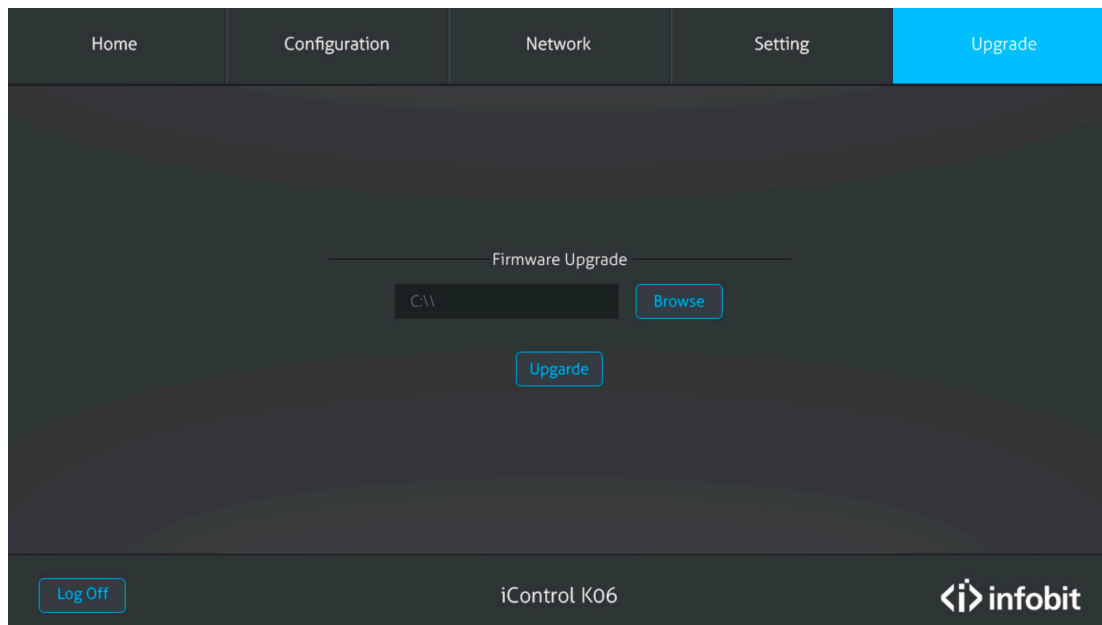
## 6.5 SETTING



The screenshot shows the 'Setting' page of the infobit iControl K06 interface. The page has a dark theme with a navigation bar at the top containing 'Home', 'Configuration', 'Network', 'Setting' (highlighted in blue), and 'Upgrade'. The main content area is divided into three sections: 'Credentials', 'Update Profile', and 'Factory Default'. The 'Credentials' section has input fields for 'User Name' (admin) and 'New Password' (admin), with a 'Confirm' button below. The 'Update Profile' section has a 'Setting:' label, a file selection input (Please select file), a 'Browse' button, and 'Import' and 'Export' buttons. The 'Factory Default' section has a 'Default' button. At the bottom left is a 'Log Off' button, and at the bottom center is the text 'iControl K06'. The infobit logo is at the bottom right.

- **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.

## 6.6 UPGRADE



- Firmware Upgrade: click the browse to choose the upgrade file (the file need to be 6 Buttons IP Control Panel renamed as “K06.app”) and then click upgrade to execute upgrade.

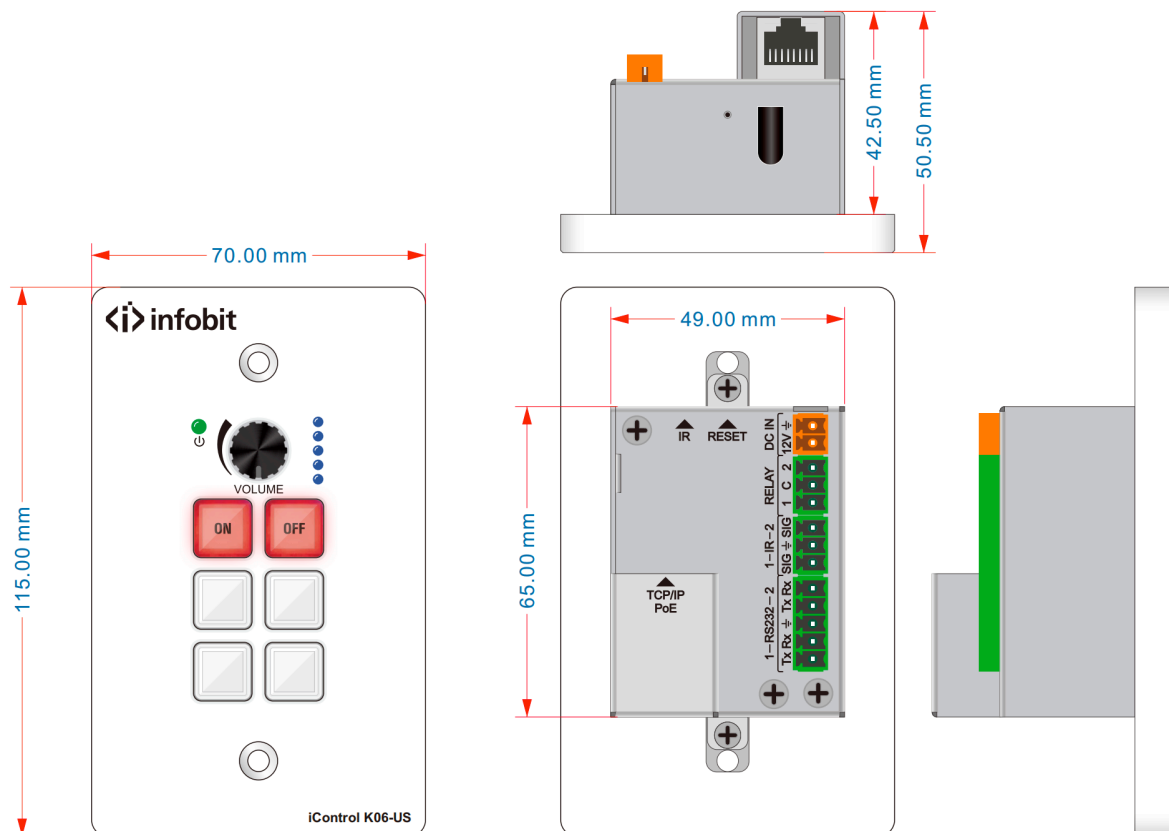
## 7. SPECIFICATION

<b>Model</b>	<b>iControl K06-US</b>
Name	6 Keys Control Keypad, US version
Program Port	TCP/IP
Output Port	2x RS232, 2x IR, 2x Relay
Output Connector	2x 3-Pin Pluggable terminal blocks, 2x 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	250g
Case Dimensions	70mm x 115mm x 50.5mm, WHD

## 8. PANEL DRAWING



## 9. CUSTOMER SERVICE

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) Warranty

The limited warranty period of the product is fixed three 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 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 distributor.

**Remarks:** For further assistance or solutions, please contact your local distributor.