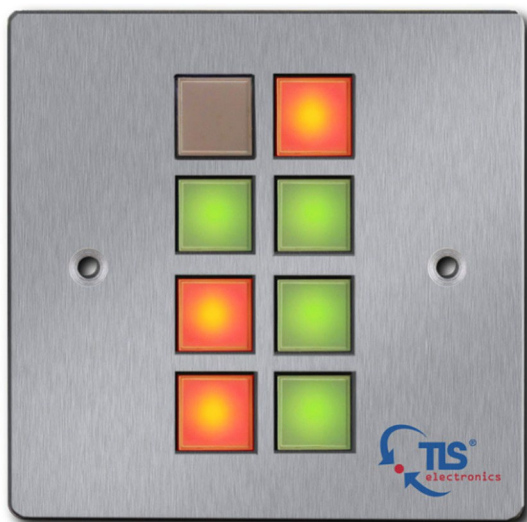




User Manual TLS QuickControl 4.0 Gen3



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 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.

Specifications

8 buttons, backlighted,

off / red / green 2 x

RS232, bidirectional,

PTR 3pin

1 x IR out, 5V / 10V switchable, PTR 2pin

1 x IR Sensor, 38 KHz

2 x Relay, electronic switch, max. 24V

DC, 2xPTR 2pin 1 x LAN, RJ45

PoE (Power over Ethernet), PoE 802.3af, class 3

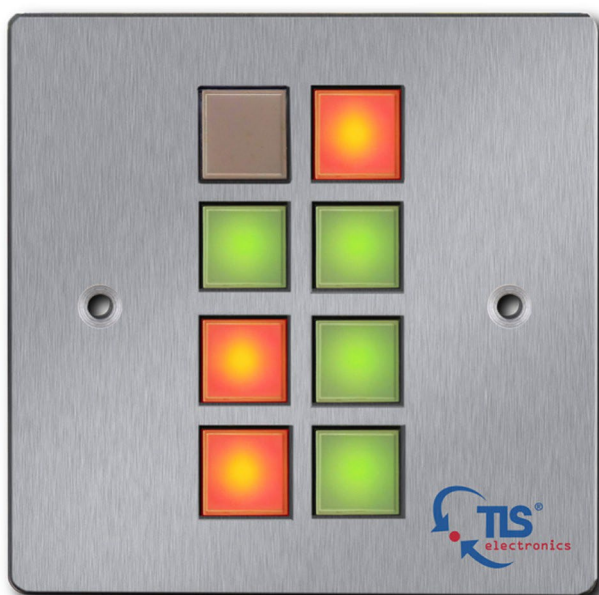
1 x power supply 110/240V, 50/60Hz, 12-24V DC 0,5A, PTR

2pin Temperature 0-45° Celsius

Weight 0,15 kg

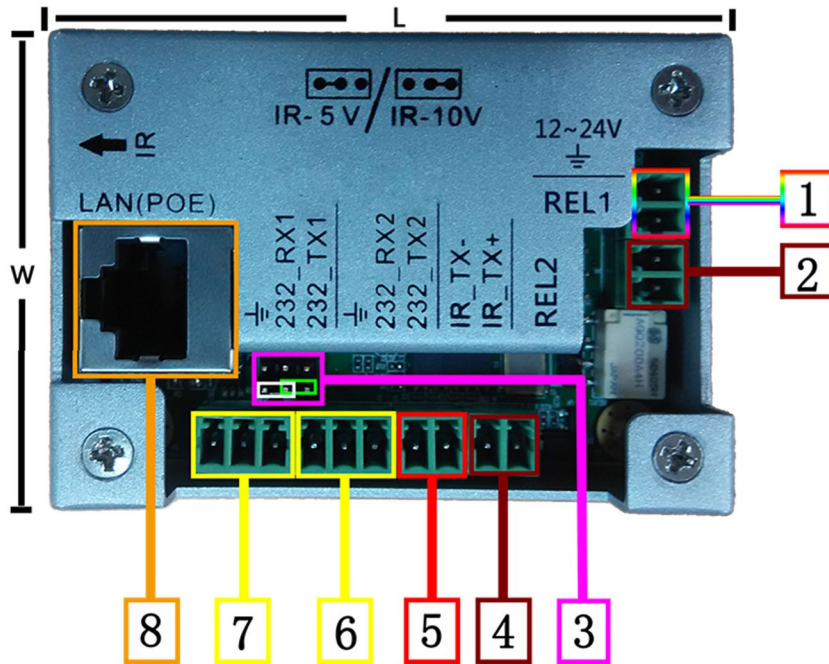
Panel Description

Front panel



All the buttons can be programmed to control each RS-232, relay, IR, timer, and IP control. The cover of each button can be taken out easily for labeling with the vacuum cup.

Rear panel



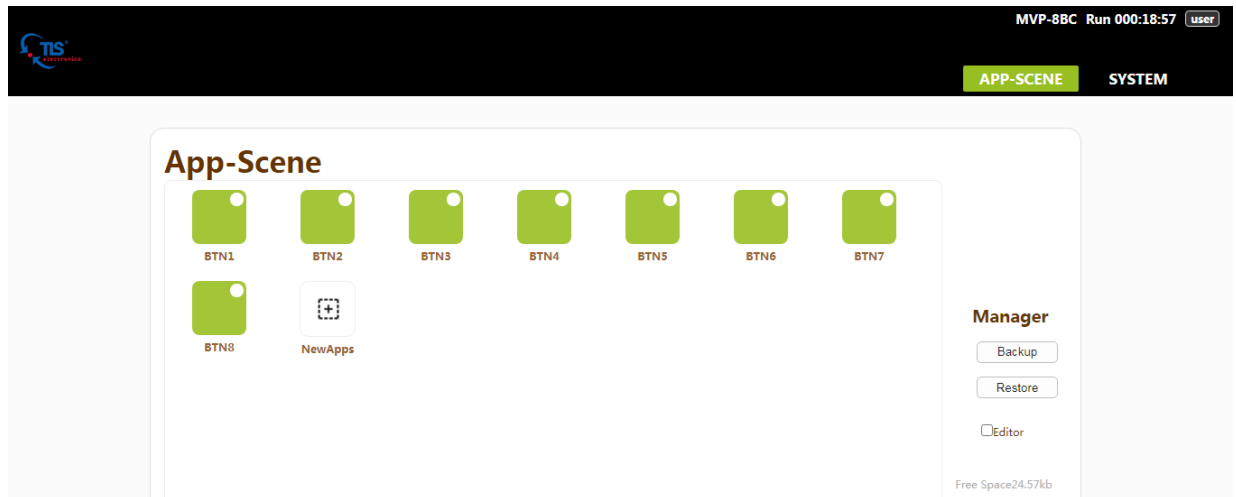
1. Power: DC Power Input; 12-24V DC input
2. Relay 1: An electrically operated switch;
3. IR output power jump: left 2 pin jump for output 5V, right 2 pin jump for output 10V;
4. Relay2: An electrically operated switch;
5. IR: Infrared radiation digital data output;
6. RS-232_2: RS-232 data output;
7. RS-232_1: RS-232 data output;
8. LAN(PoE): LAN port with PoE power and web server control.

1. Panel Keys

1.1 Buttons on the Panel

The eight buttons on the panel correspond to eight application scenarios on the WEB page. Multiple commands can be preset for a scenario. When the command is executed, each command is automatically executed in sequence. You can edit the scene name and preset command on the WEB background. For details, see the WEB UI introduction.

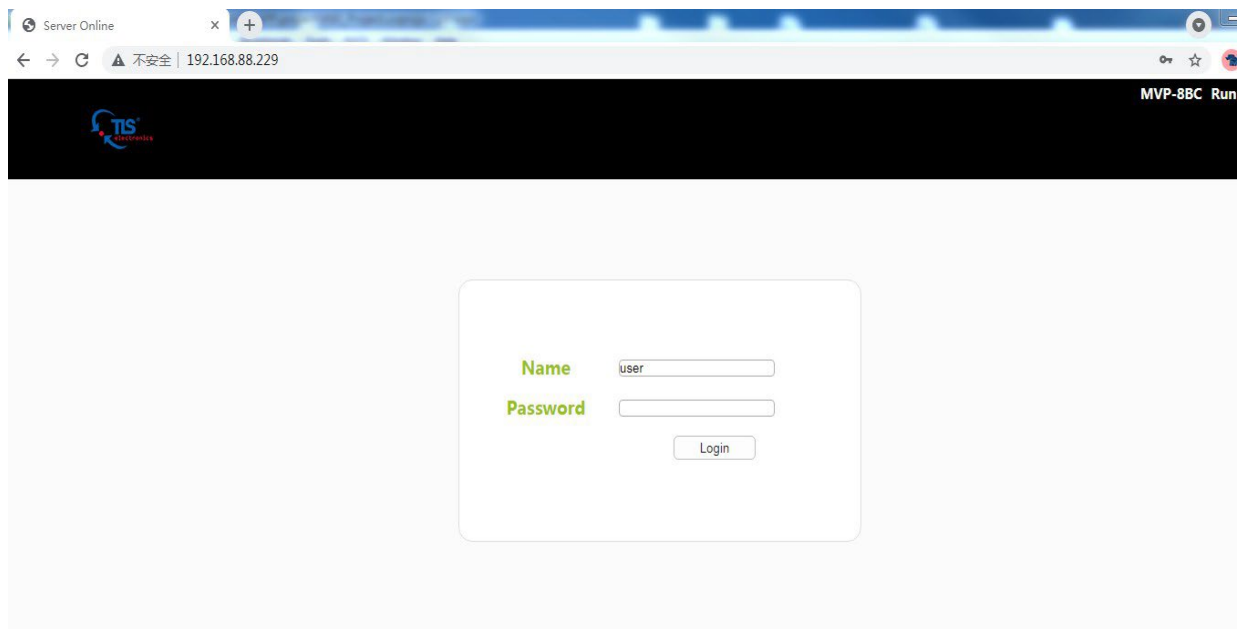
- 1) Press buttons 1 to 8 to perform the corresponding scenario.



2. This section describes the WEB background management

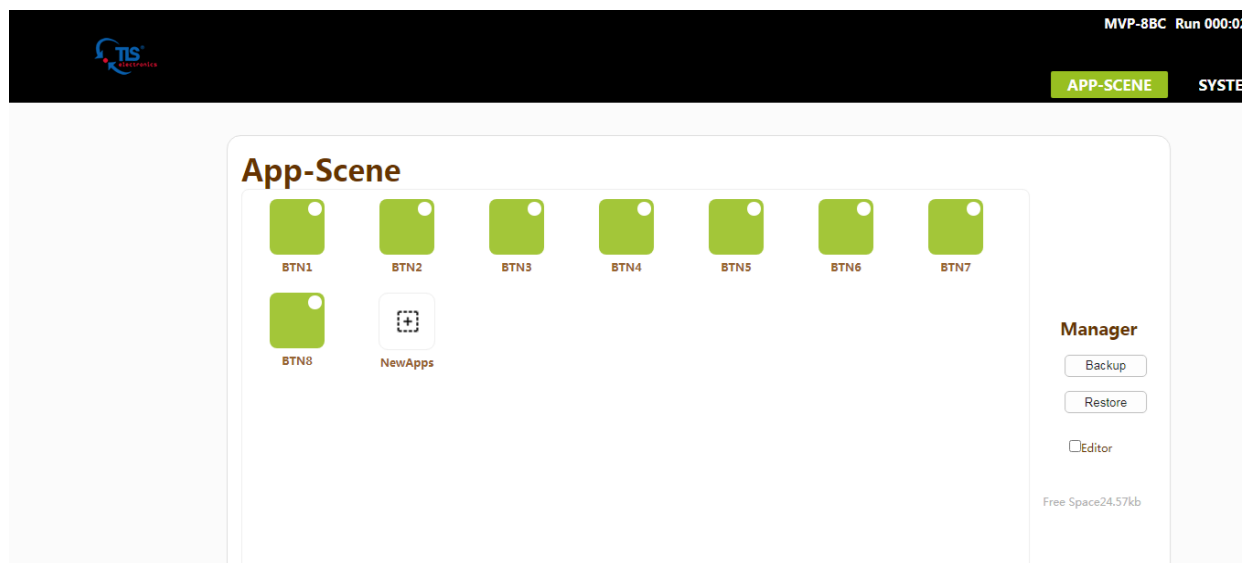
2.1 Login Page

First, ensure that the test computer and the device are in the same network segment, and the IP address of the browser input panel can access the background management page. The default IP address is 192.168.88.229. Access successful You need to log in to the system for the first time. The default username is user and the password is 123456



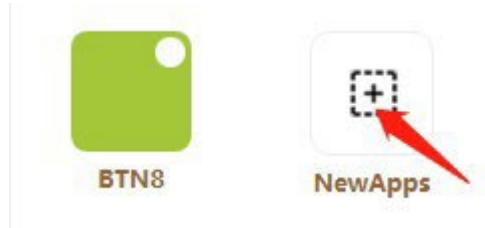
2.2 Scenario Page

The scenario page is displayed after successful login. By default, eight scenarios are displayed. Click to execute or stop. Application Scenario Each scenario contains multiple commands. When executing a scenario, the system automatically executes each command based on the configured command sequence and time. Scenario commands need to be configured based on the actual environment. For details about the system and control commands supported by the device, see the command table.



2.2.1 Creating a Scenario

Click the "NewApps" icon -> Name -> Save. It can be added successfully, and the next scene editing operation can be carried out.

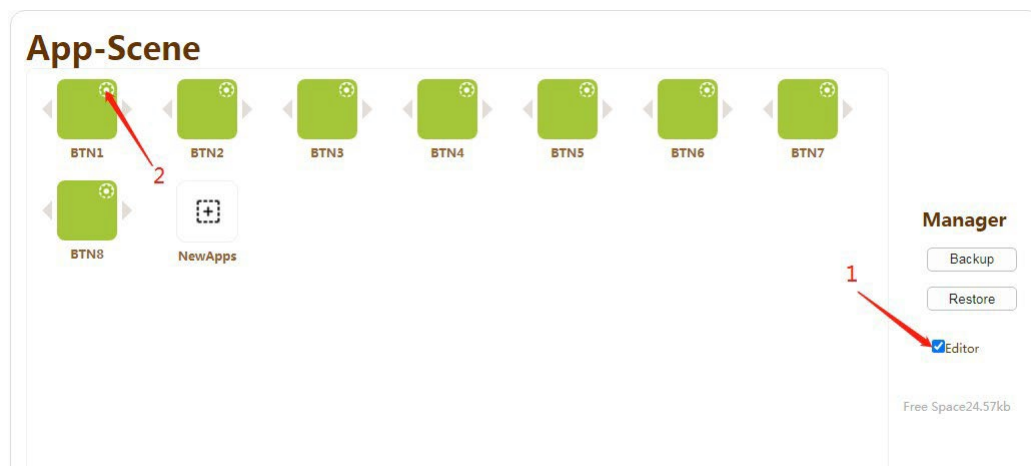


NewApps

The 'NewApps' dialog box has a green background. It features a 'Name' label followed by a text input field containing the text 'Name'. At the bottom, there are two buttons: 'Cancel' and 'Save'.

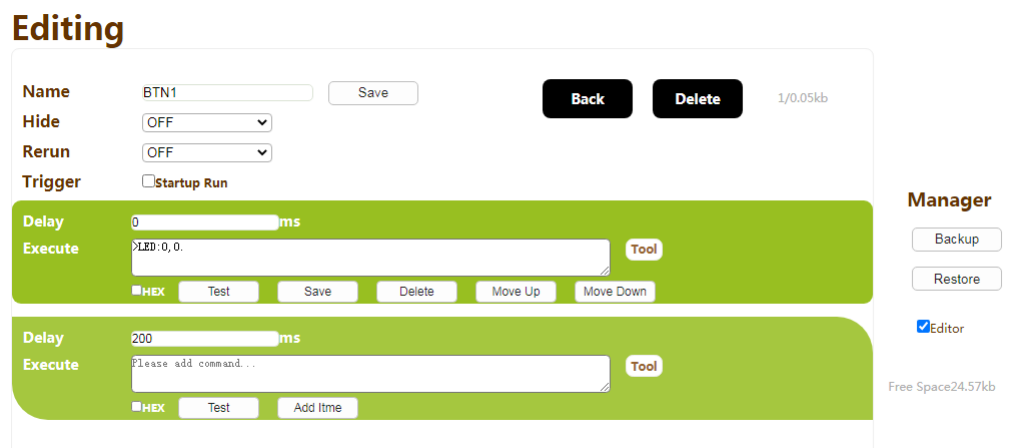
2.2.2 Enter Scene Editing

Saving a newly created scene will automatically enter scene editing in the next step. If you want to edit an existing scene, click "Edit Application" on the right first -> Scene icon setting icon -> enter editing;



2.2.3 Editing a Scene

You can set scene commands, trigger conditions, timers, execution sequence and other functions on the page.



2.2.4 Scenario Function Settings

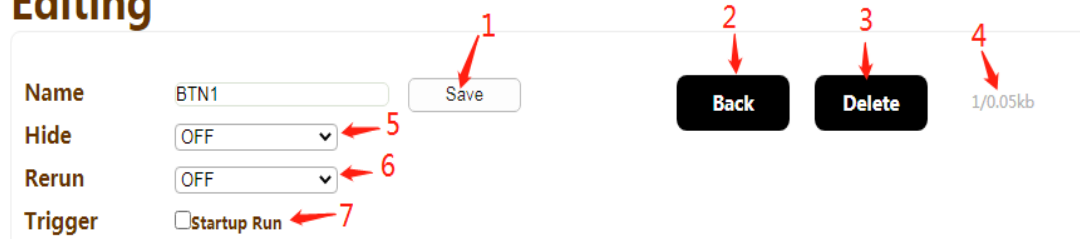
- 1) Set the name and click "Save" to Save the name;
- 2) Click "Back" to return to the scene page;
- 3) Click "Delete" to Delete the scene;
- 4) The current scene takes up space;
- 5) If the setting is to hide the scene, it will not be displayed on the interface after hiding and can be executed by command

invocation;

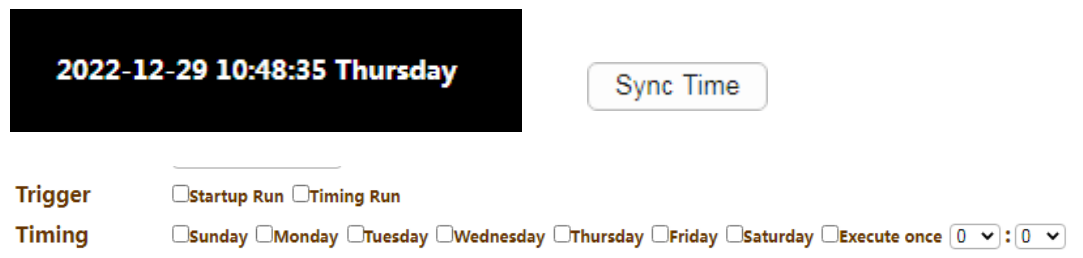
6) Set whether to run repeatedly. After setting, the startup will run repeatedly and will not stop manually.

7) Set trigger mode and set startup operation;

Editing

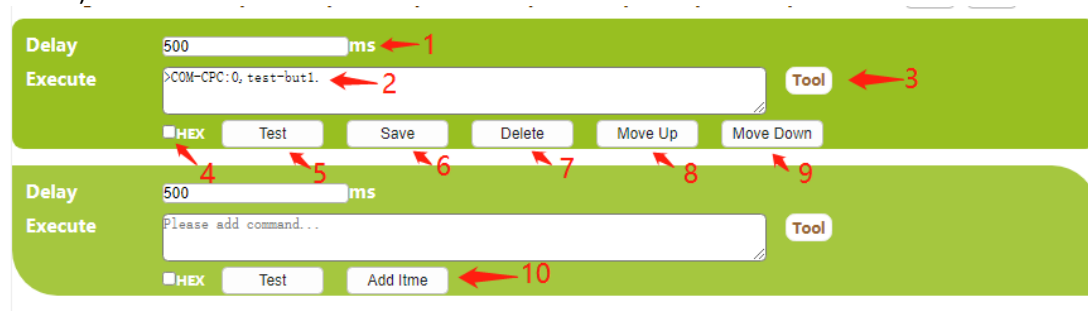


New timing trigger mode (The time can be calibrated by clicking the Sync button on the system setting page, because the device has no battery and can only be used under constant power supply, the power off time will be reset)



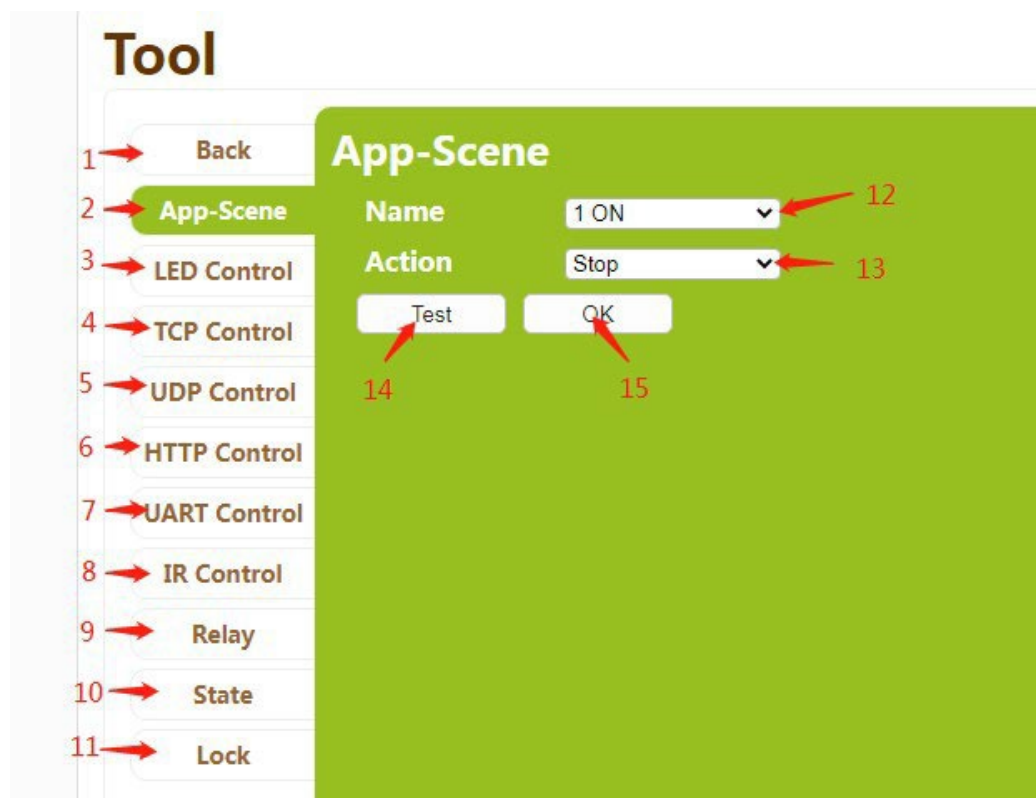
2.2.5 Editing commands in a Scenario

- 1) Set the delay time before executing an item command, in milliseconds.
- 2) In the command input box, all system commands are supported. For details, see the COMMAND table "MVP-8BC".
- 3) Click "Tool" to enter the command generation Tool (command generation Tool).
- 4) If HEX is selected, the command is displayed in hexadecimal format.
- 5) Click "Test" to Test the command;
- 6) Click "Save" to Save delay and command Settings;
- 7) Click "Delete" to Delete the current item.
- 8) Click "Move Up" to Move Up to change the execution sequence;
- 9) Click "Move Down" to Move Down to change the execution sequence;
- 10) Click "Add Item" to Add the command line Item;
- 11)



2.2.6 Scenario Command Generation Tool

- 1) Click "Back" to return to the command editing interface;
- 2) Click "App Scenes" to generate a start/stop scene command;
- 3) Generate LED control commands;
- 4) Generate TCP control commands;
- 5) Generate UDP control commands;
- 6) Generate HTTP control commands;
- 7) Generate UART control commands;
- 8) Generate IR infrared control command, you can learn IR infrared code on this page;
- 9) Generate relay control commands;
- 10) Generates a status control command for a two-command mode key;
- 11) Generate keylock commands ;
- 12) Select the scene where you want to generate the command;
- 13) Select whether to start or stop the scene;
- 14) Click "Test" to test the command;
- 15) Click "OK" to ensure that the command is generated and can be viewed in the command input box;



2.2.6.1 Scenario Command Generation Tool (TCP Control)

3. Controlled device IP (target IP);
4. Controlled device port number (target port number);
5. Feedback button (when the feedback option selects "ON" and does not receive the correct feedback from the controlled device after sending a message, the button set will turn red);
6. Select whether to enable the feedback function.
7. When a message is received from a controlled device, the message is displayed here;
8. Set the specified Feedback message (required only when the feedback option is "ON");
9. Add instructions that need to be sent to the destination IP address;
10. Choose whether to use hexadecimal format.

Tool

TCP Control

IP Addr: 192.168.88.100 1

Port: 1001 2

Button: BTN-1 3

Feedback: OFF 4

Wait to receive the feedback message... 5

Please add a specified feedback message... 6

Please add command... 7

Test 9 OK 10

10.1.1.1 Scenario Command Generation Tool (State)

This is an instruction for the dual-command key (only works in dual-command mode). Use this command to change the state of the dual-command key at will.

The screenshot shows a web-based interface titled 'Tool' with a sidebar menu on the left. The menu includes 'Back', 'App-Scene', 'LED Control', 'TCP Control', 'UDP Control', 'HTTP Control', 'UART Control', 'IR Control', 'Relay', 'State' (highlighted in green), and 'Lock'. The main content area has a green header 'State'. Below the header, there are two dropdown menus: 'Button' set to 'BTN-1' and 'State' set to 'ONE'. At the bottom of the main area are two buttons: 'Test' and 'OK'.

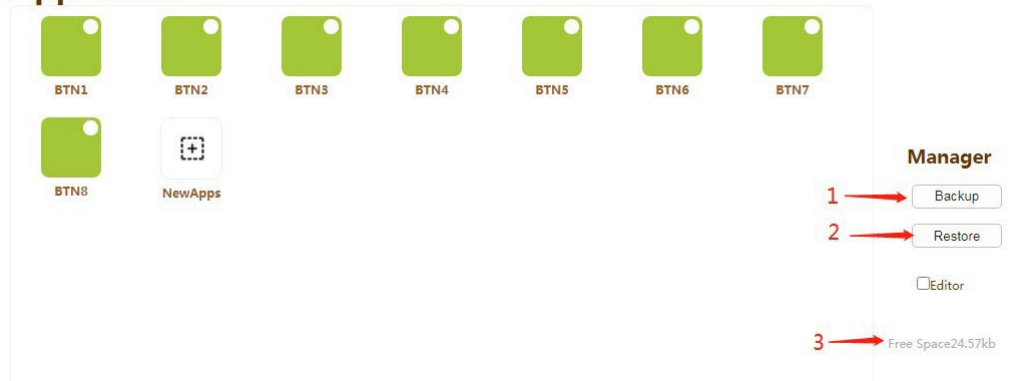
10.1.1.2 Scenario Command Generation Tool (Lock)

Key lock command, you can set key lock or unlock

The screenshot shows a web-based interface titled 'Tool' with a sidebar menu on the left. The menu includes 'Back', 'App-Scene', 'LED Control', 'TCP Control', 'UDP Control', 'HTTP Control', 'UART Control', 'IR Control', 'Relay', 'State', and 'Lock' (highlighted in green). The main content area has a green header 'Lock'. Below the header, there are two dropdown menus: 'Button' set to 'BTN-1' and 'Lock' set to 'UNLOCK'. At the bottom of the main area are two buttons: 'Test' and 'OK'.

10.1.2 Scenario Backup and Restoration

App-Scene



- 1 ☐ Click Backup to Backup scenario data to the local PC.
- 2 ☐ Click Restore and select the backup. Bin file to Restore the data in the file. After the file is restored, the device automatically restarts.
- 3 ☐ Scenario Remaining storage space.

10.2 System Management

System management mainly includes system upgrade, general Settings, button Settings, network configuration, serial communication, infrared Settings, relay switch, administrator user modification, user data, about the host and other related functions. Users can configure them according to actual requirements. System update is described in the following section.

System Update

System Manage

General

Language English

Button

Button-1
Mode Single Cn
Type Short Pre
Color Green
Delay OFF
LinkApps AppsName

Button-2
Mode Single Cn
Type Short Pre
Color Green
Delay 2s
LinkApps Dual-cmd apps name

Button-3
Mode Single Cn
Type Short Pre
Color Green
Delay 1s
LinkApps Dual-cmd apps name

Button-4
Mode Single Cn
Type Short Pre
Color Green
Delay OFF
LinkApps Dual-cmd apps name

Button-5
Mode Single Cn
Type Short Pre
Color Green
Delay OFF
LinkApps Dual-cmd apps name

Button-6
Mode Single Cn
Type Short Pre
Color Green
Delay OFF
LinkApps Dual-cmd apps name

Button-7
Mode Single Cn
Type Short Pre
Color Green
Delay OFF
LinkApps Dual-cmd apps name

Button-8
Mode Single Cn
Type Short Pre
Color Green
Delay OFF
LinkApps Dual-cmd apps name

Network

IP 192.168.88.229
Subnet 255.255.255.0
Gateway 192.168.88.1
Server Port 1001
DHCP OFF

Serial Port

RS232-1

Baud Rate

9600

Data Bits

8 bits

Stop Bits

1 bits

Parity Bits

None

RS232-2

Baud Rate

9600

Data Bits

8 bits

Stop Bits

1 bits

Parity Bits

None

IR Set

IR Carrier

38KHz

Relay Sw

RELAY-1

OFF

RELAY-2

OFF

Administrator Modify

Name

Password

NewName

NewPassword

Modify

User Data

Data Backup

选择文件

未选择任何文件

Restore

Backup

Reboot

Reset

Sync Time

About Host

Host

MVP-8BC

Hardware

v3.0.0.220909

10.2.1 Button Settings

Button

1

2

3

4

5

Button-1

Mode

Single Cn

Type

Short Pre

Color

Green

Delay

OFF

LinkApps

AppsName

Button-2

Mode

Single Cn

Type

Short Pre

Color

Green

Delay

2s

LinkApps

Dual-cmd apps name

Button-3

Mode

Single Cn

Type

Short Pre

Color

Green

Delay

1s

LinkApps

Dual-cmd apps name

Button-4

Mode

Single Cn

Type

Short Pre

Color

Green

Delay

OFF

LinkApps

Dual-cmd apps name

1□ Button mode Select single command mode or double command mode:

- In single-instruction mode: press the button every time to execute the scene corresponding to the scene page (press button 1 to execute the first one, and press button 8 to execute the eighth one);
- Dual-command mode: Press the button for the first time to execute the corresponding scenario on the scene page, and press the button for the second time to execute the application scenario entered in LinkApps.

2□ Key type setting, you can set the key to long press or short press.

3□ Button light color Settings, you can switch red, green, or turn off the light. 4) Button delay setting, you can set the response time of the button.

5) In dual-command mode, press the name of the application scenario to which the button is linked twice.

13

New key type setting, you can set the key to long press or short press

Button-1

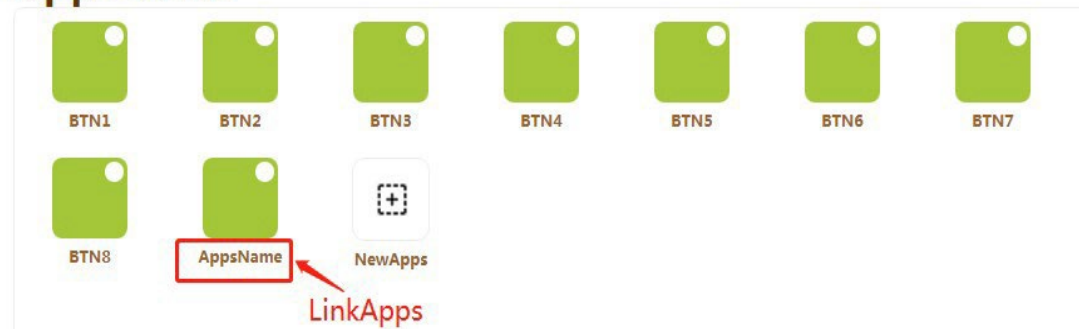
Mode

Type

Color

LinkApps

App-Scene



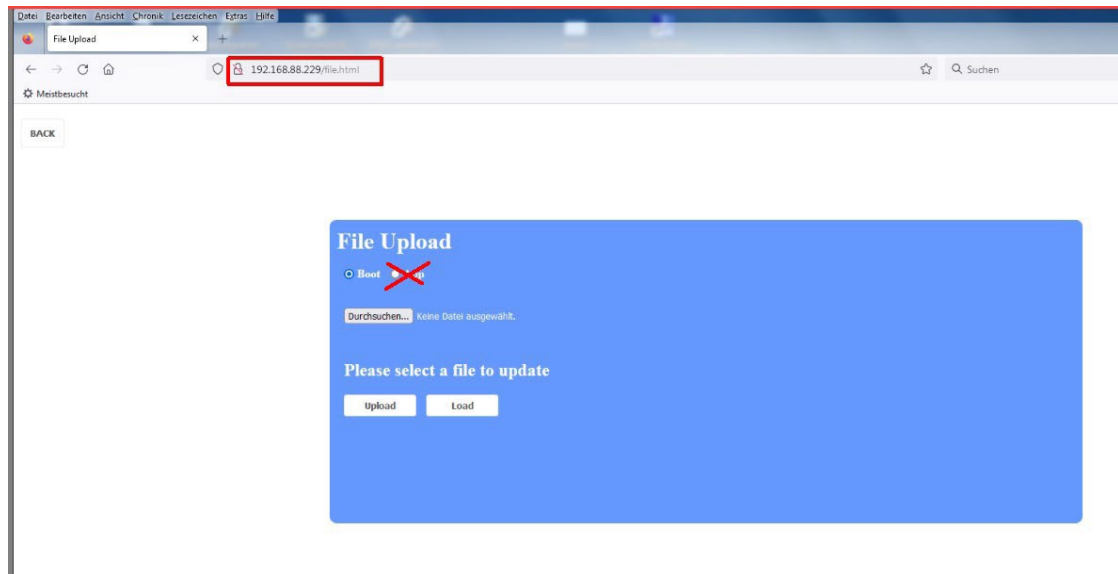
11. The firmware update

Firmware update is divided into BOOT program update and APP program update;

- 1□ The BOOT program is the BOOT loader. In order to facilitate the creation of the updated APP program in the later period.
- 2□ The APP program is a normal running application and can be updated directly on the WEB interface.

3.1 BOOT program update (Do not change the BOOT without permission, which will cause the device to fail to start)

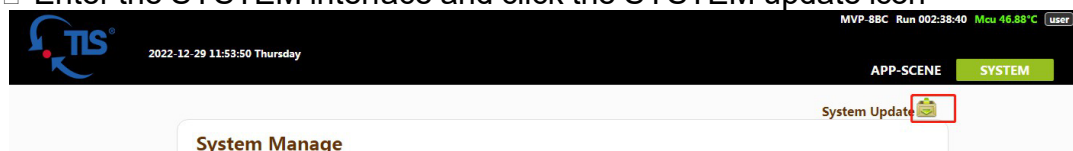
- 1□ Connect the network cable and start the device, and enter the device BOOT update page (do not update APP on this page);
- 2□ Click Load when the update is complete
- 3□ At this time, you can directly enter the WEB interface to upgrade the APP. The default IP address is 192.168.88.229. The upgrade method is as follows



3.2 APP Update

The WEB update browser must support HTML5 or higher or speed mode to upgrade. Internet Explorer 8 or later is not supported. You are advised to use Google Chrome.

- 1 ☐ Connect a network cable to the device. Ensure that the PC and the device are on the same network segment. The default IP address of the device is 192.168.88.229
- 2 ☐ Enter the SYSTEM interface and click the SYSTEM update icon



- 3 ☐ Enter the user name and password and click Update. After 10 seconds, the system automatically enters the BOOT mode

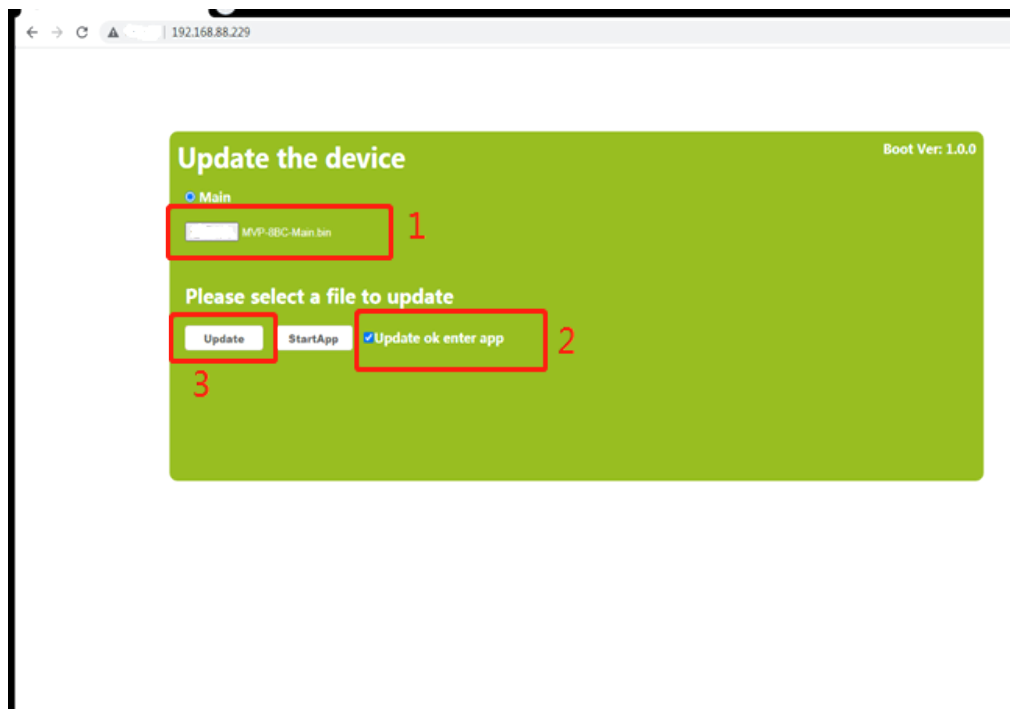
Name

Password

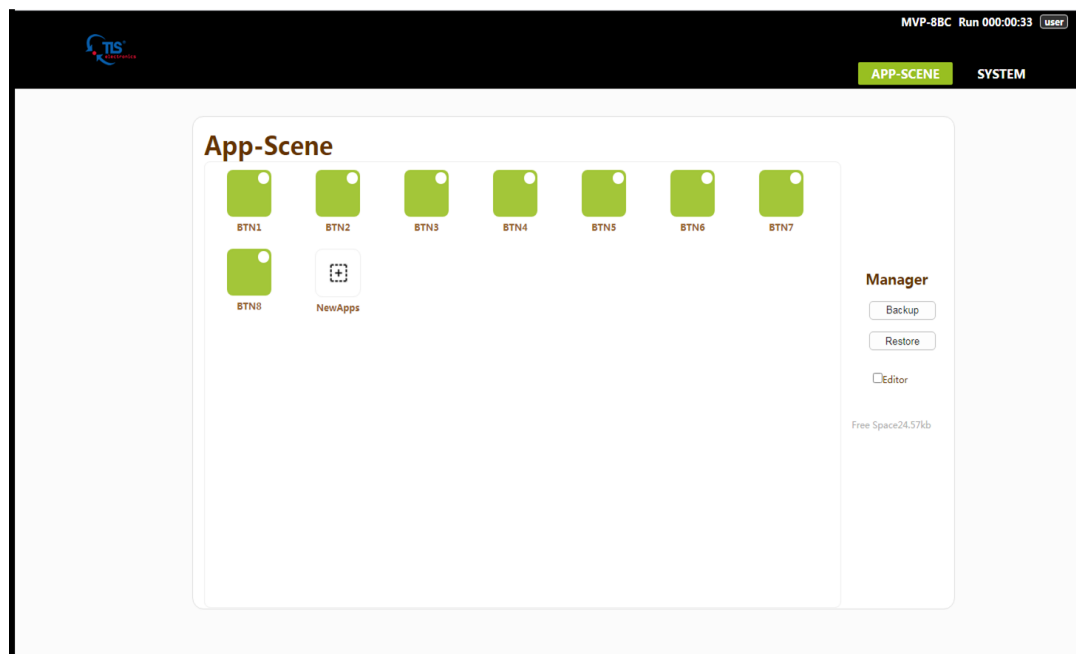
Enter boot 2s

- 4 ☐ Enter the BOOT interface, select APP firmware MVP-8BC-main. bin, check Update OK Enter APP (the APP will automatically enter after the Update is complete), and click Update to start

the Update



5□ Automatically enter the APP after completion

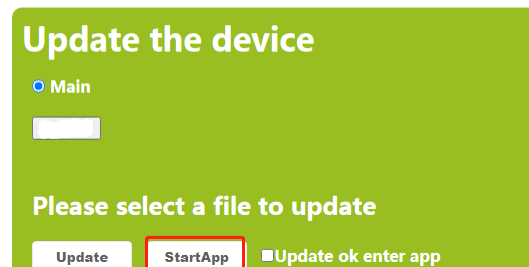


12. Forcing functions

12.1 Forcibly Entering the BOOT

- 1□ Hold down key 4 and key 8 at the same time, wait for 3 seconds when the green light turns on, release the key, and the device enters BOOT mode
- 2□ When the device is powered on, press button 4 and wait until the green light blinks. Then release the button to enter the BOOT mode.
- 3□ To enter the WEB interface in BOOT mode, click StartApp to jump back to the APP

← → ↻ ⚠ 不安全 | 192.168.88.229



program

12.2 Forced to reset

Hold down button 4 and button 8 at the same time, wait for 6 seconds when the red light turns on, release the button, and the device will reset.

Software: v1.0.8.221223 Hardware

: v3.0.0.220909 Revision Date

: 2022-12-29

8. 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 24 month.

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.