

User Manual

**Central Control System
(TabDesigner + TabLink)**

Update record

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1. Overview

1.1.Product description

The central control system consists of a TabDesigner and a TabLink, which work together to transform complex equipment management into an extremely simple interactive experience, suitable for KTV, bar, industrial control, multimedia broadcast control and other fields.

Tabdesigner is a professional tool that integrates device command editing (low-level control) and central control interface (human-computer interaction) design, supporting the complete process from hardware instruction configuration to visual interface development.

TabLink is the final“Interface” and“Control Terminal” and is compatible with iOS and Android operating systems. Receive TabDesigner transmission project files, establish a connection with the central control host, in the mobile scene remote management of all devices, in order to achieve the purpose of controlling external devices.

1.2.Introduction to Tabdesigner Software page

(1) Introduction to interface editing

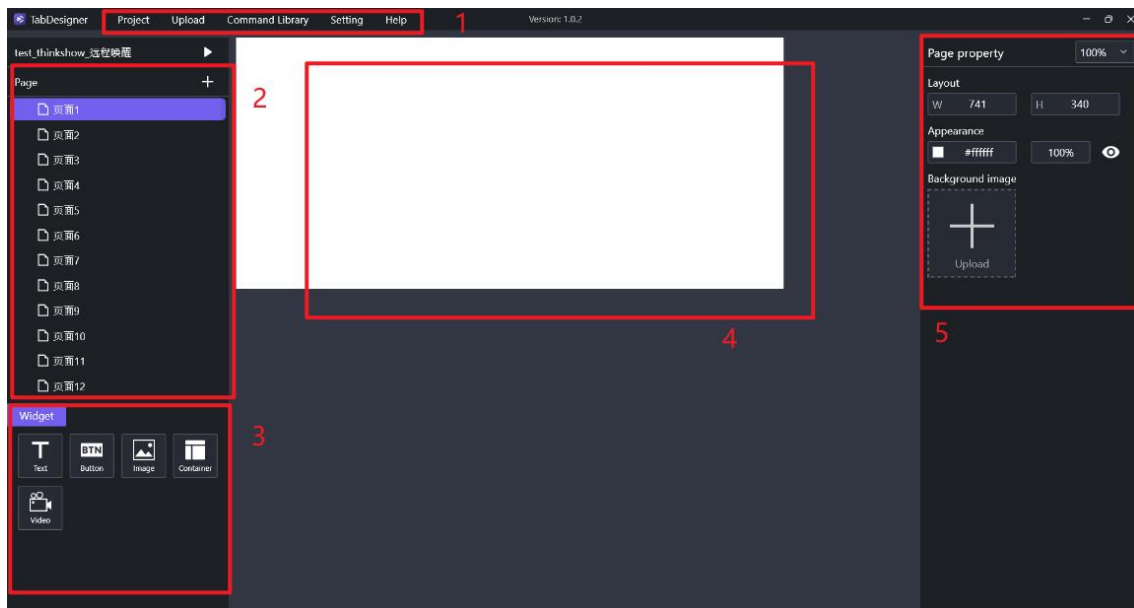


Figure 1.2.1 interface editing home page

Serial number	Region name	Region function
1	Top Navigation Bar	To achieve the operation of the project file, interface transmission, open the command library and other functions
2	Page listings	Adding and deleting pages, adjusting the hierarchy of components
3	Components	Add components by dragging and dropping
4	Canvas	Interface design and layout
5	Property editing	Modification of page and component properties

Table 1.2.1 introduction to interface editing pages

(2) Introduction to the instruction editing page

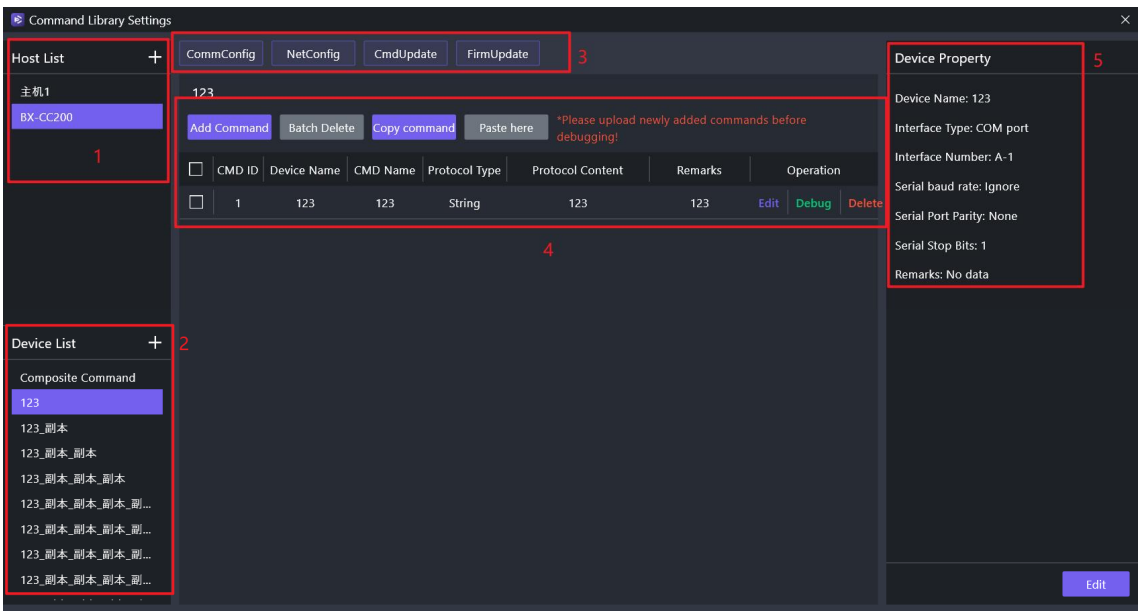


Fig. 1.2.2 the main page of instruction editing

Serial number	Region name	Region function
1	Host list	The additions and deletions of hosts
2	List of devices	Additions to, deletions from, or changes to a device
3	Host button	Network communication configuration, command upload and firmware maintenance update
4	Command list	Instructions added, deleted, checked and debugged
5	Property editing	Modification of device and instruction attributes

Table 1.2.2 introduction to instruction editing page

1.3.Introduction to TabLink software

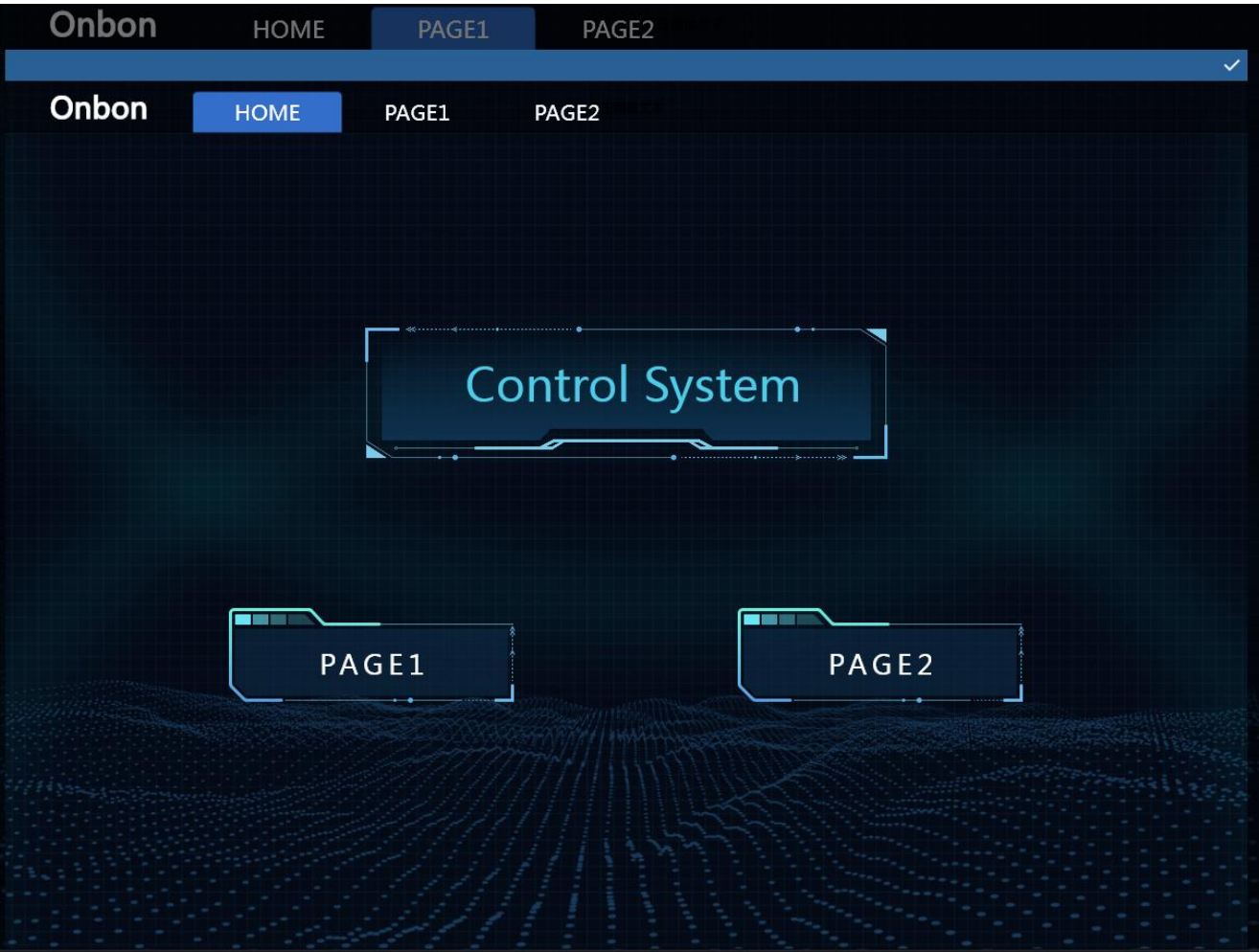


Figure 1.3.1tablink page

Serial number	Region name	Region function
1	Software settings	Transfer account password settings, transfer parameters view, language settings
2	Controls	The control area that realizes the interface interaction and the instruction issue

Table 1.3.1 introduction to the instruction editing page

2. A guide to getting started

2.1.Explanation of nouns

Name	Description
Device Command editing	Through the visual configuration of external equipment and host control parameters and instruction logic, to ensure that the equipment according to the preset rules Then run
External equipment	A hardware device connected to a central control host through a physical interface (RS485, RS232, infrared, etc.)
Device Instructions	The smallest unit of device control that directly controls hardware through a specific protocol
Combination of commands	An automated process in which a number of single device commands are combined in a specific sequence and time interval
Central control interface editing	It can be used to design and customize the human-computer interaction interface of the central control system, and improve the intuitiveness and efficiency of user operation
Page	A separate interface in the central control system that supports custom backgrounds, sizes, and component layouts
Components	The basic interactive element of the central control interface, carrying specific control functions or information display
Event Action	Response logic triggered by a user action, such as clicking a button, or a system state change, to associate an interface component with A Device Commands.

Table 2.1.1 definitions of terms

2.2.System interoperability workflow

(1)Centralized configuration on PC side

On TabDesigner, the administrator easily completes UI design and device command editing by visual drag and drop, and defines all interaction logic.

(2)Lan, seamless synchronization

The designed UI will be automatically distributed to the user's tablink, and the control instruction set will be synchronously distributed to the CC200 central control host.

(3)Mobile, flexible control

The user can click the trigger command anytime and anywhere through the exclusive control interface of the mobile terminal, and the command request is sent to the central control host through the network.

(4)Central control host, intelligent scheduling

As the brain of the system, the central control host receives and parses instructions, and the

communication protocol accurately dispatches the external equipment.

(5)Terminal equipment, precise execution

Projectors, air conditioning, lighting, audio and other types of external equipment to receive instructions and respond to complete the expected operation to achieve intelligent closed-loop control.

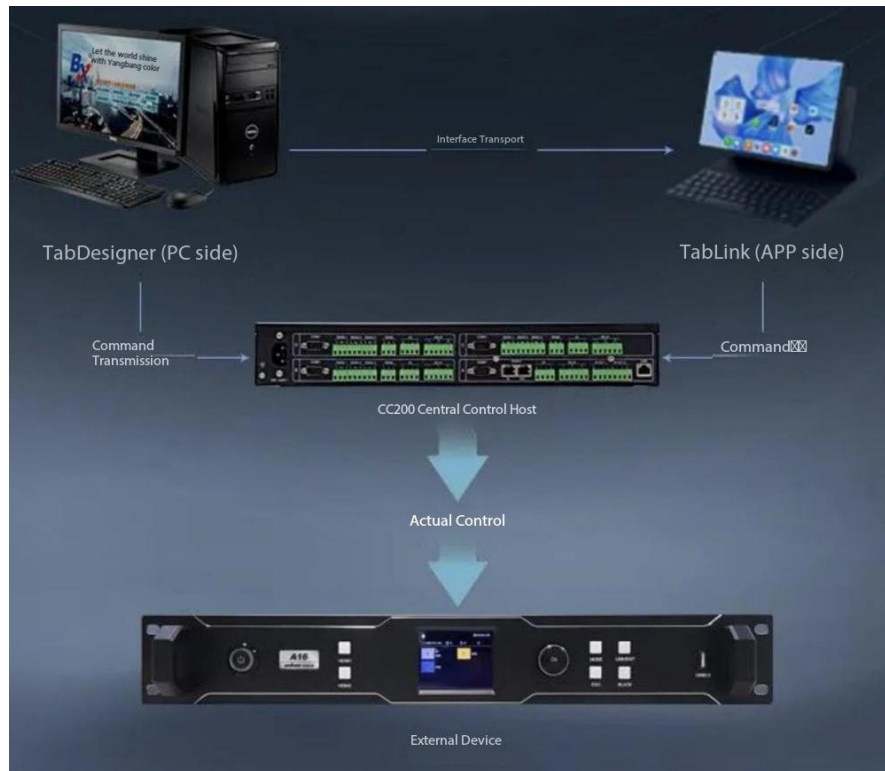


Figure 2.2.1 system collaboration workflow

2.3.Requirements for the operating environment

Tabdesigner: Windows 10 and above

TabLink: iOS/Android supported. Download TabLink as shown in table 2.3.1.

OS	Download
iOS	App Store
Android	Mobile app stores by brand
	Google App Store
	Http://www.bbc.com/future/story/2013011-android-android-android

Table 2.3.1 Download

3. Engineering documents

Function	Description
New Project Document	Create a new project file
Open the project file	Open saved project file
Save the project files	Save the current project file
Save as	Save the currently edited project file as a new project file
Recent projects	List of saved project files, quickly open project files

Table 3.1.1 engineering document function

3.1.New Project Document

(1)Click the project button in the top navigation bar, click the new project menu, and the new project file pop-up window appears. Enter the corresponding parameters, as shown in figures 3.1.1 and 3.1.3.

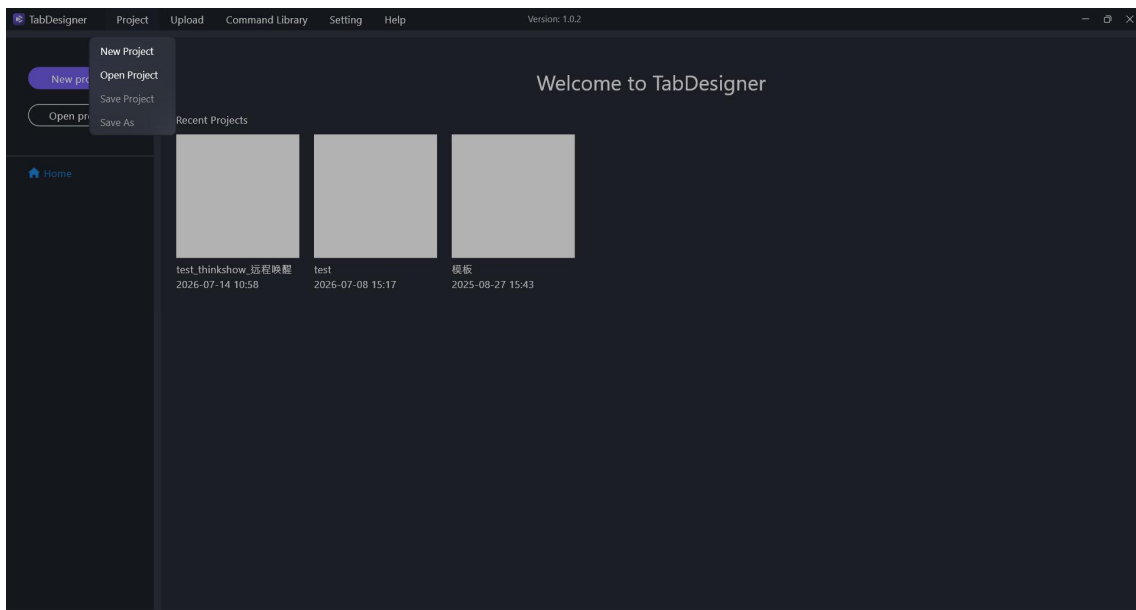


Figure 3.1.1 creating a new project document-top navigation bar

(2)Click on the home page of the [new project file -RSB- button, a“New project file pop-up window”, enter the corresponding parameters, as shown in figure3.1.2 and 3.1.3.

PS: the width and height parameters in the pop-up window of the new project file can be viewed in the“TabLink” APP, please keep the same as the parameters shown in the APP. The width and height shown horizontally in the APP. If the display direction is vertical, please fill in the width and height upside down.

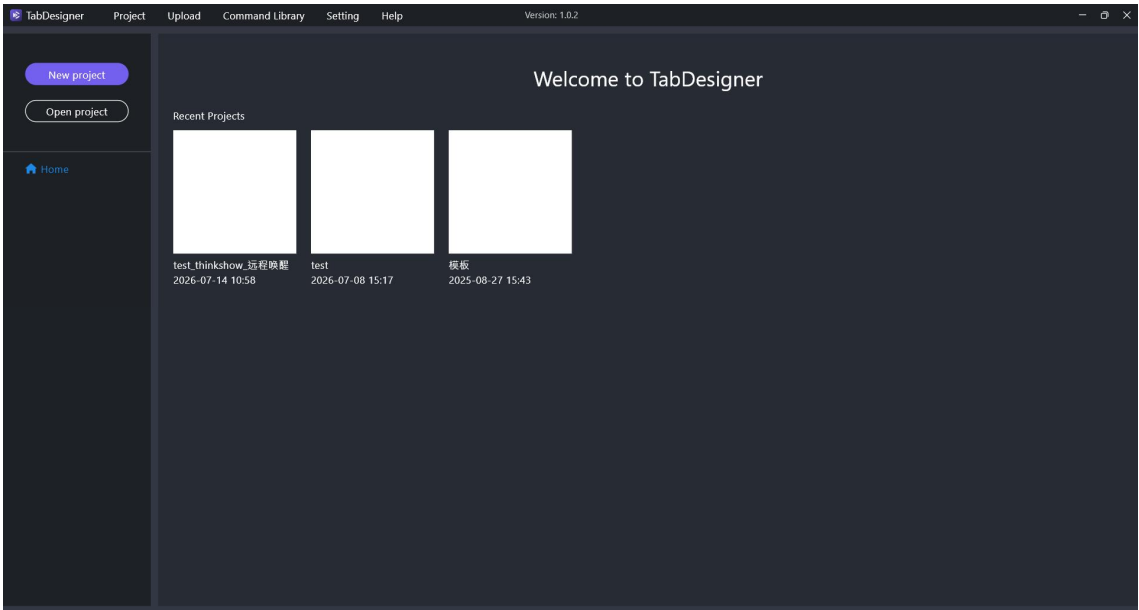


Figure 3.1.2 new project document-home page

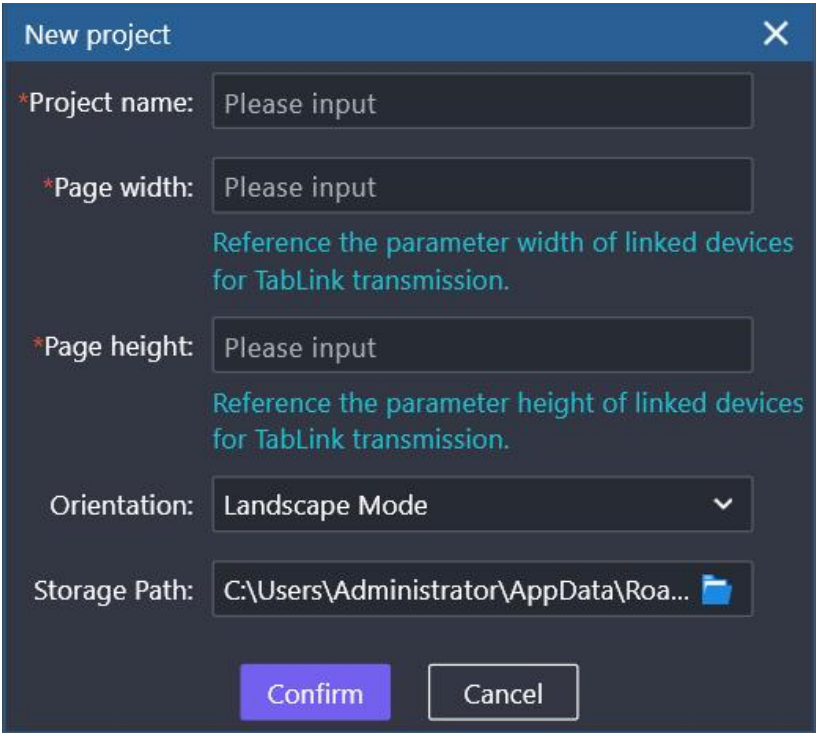


Figure 3.1.3. New Project File pop-up

3.2.Open the project file

(1)Click the project button in the top navigation bar, click the Open Project Menu, and select a saved project file, as shown in Figure 3.1.1.

(2)Click the“Open Project File” button on the home page to select a saved project file, as shown in Figure 3.1.2.

3.3.Save the project files

Click the project button in the top navigation bar and click the Save Project Menu, as shown in Figure 3.1.1.

3.4.Save as

Click the project button in the top navigation bar, click the save as menu, and select a save path, as shown in Figure 3.1.1.

3.5.Recent projects

Saved project files will appear in the list, click on the card, you can enter the project files, as shown in Figure 3.1.1.

4. Instruction editing

Function	Description
Host-check for additions, deletions and changes	Supports adding, deleting, modifying and querying hosts
Devices-add, delete, modify and query	Supports adding, deleting, modifying, and querying devices
Commands-add, delete, modify and query	Support Device Add, delete, modify and query, including single instruction, combined instruction, infrared learning
Communication configuration	Configure the communication parameters with the central control host to realize the communication between the two
Network configuration	Modify the communication parameters of the central control host
Command upload	Set the relevant parameters, upload to the central control host
Firmware maintenance	Query the basic information of central control host, complete firmware upgrade

Table 4.1.1 instruction editing function

PS: Command Library entry-click the command library button in the top navigation bar.

4.1.Add host

(1) Search host on line

Click on the add icon in the host list, click on search online, select the search method (LAN search, search under the specified IP) , click on search, and when you find the device, select the host device you want to add and click add, as shown in Figure 4.1.1.

PS: When you choose to search under the specified IP, enter an IP address that stays on the same network segment as your computer.

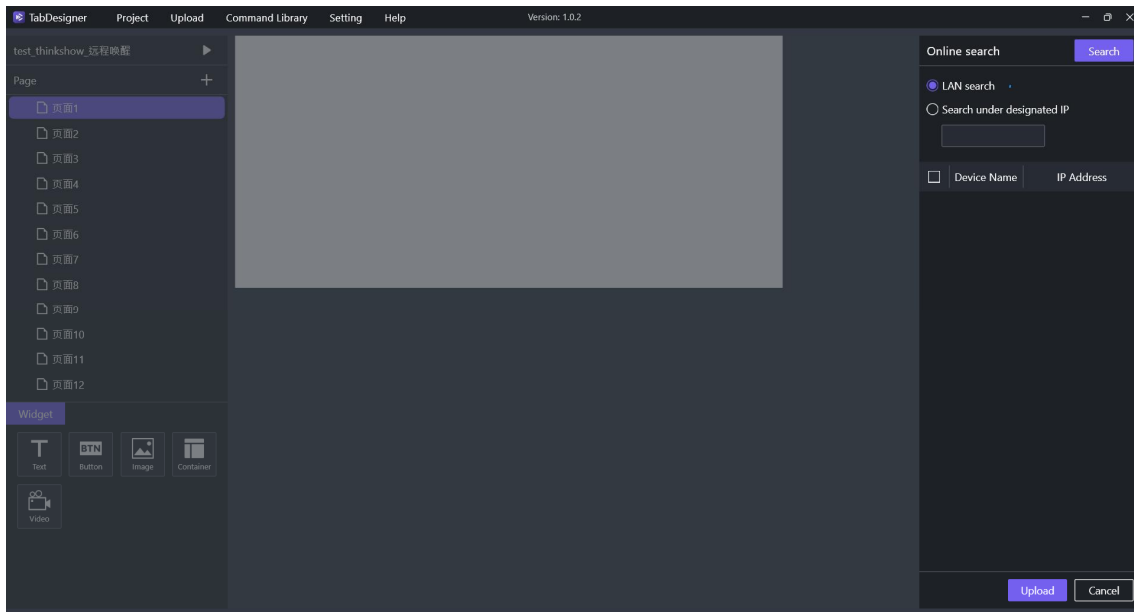


Figure 4.1.1. Online search hosts

(2) Add a host manually

Click the add icon in the host list, click add manually, enter host parameters, click add, as shown in figure 4.1.2.

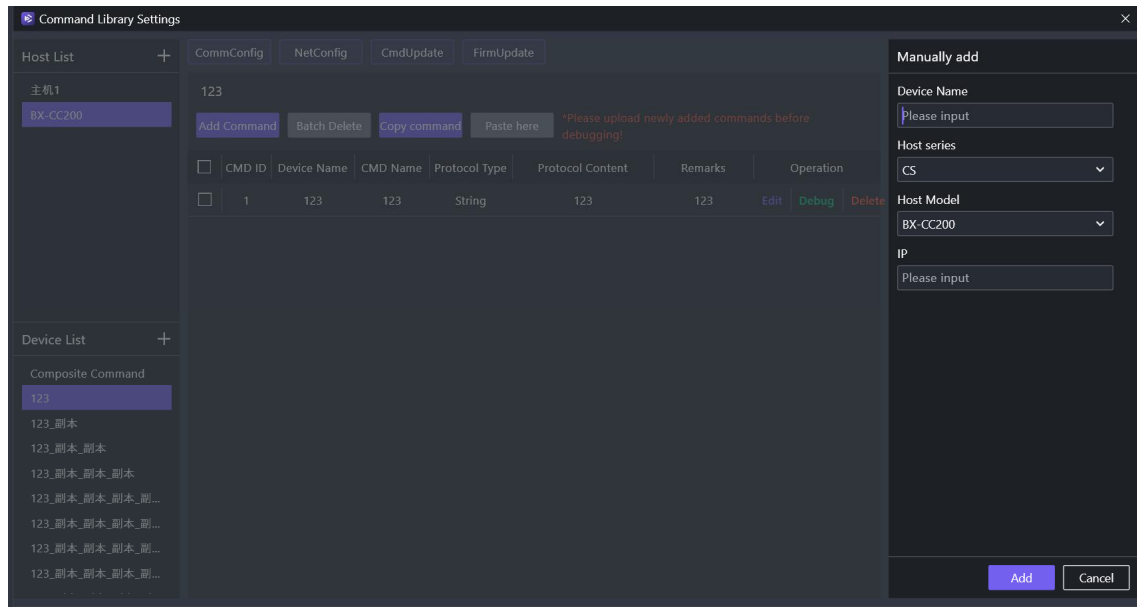


Figure 4.1.2. Manually adding a host

4.2.Host renaming

Right-click on the host you want to rename, click“Rename” in the menu that appears, enter the host name, click on the non-input box area or the keyboard enter key to save, as shown in Figure 4.2.1.

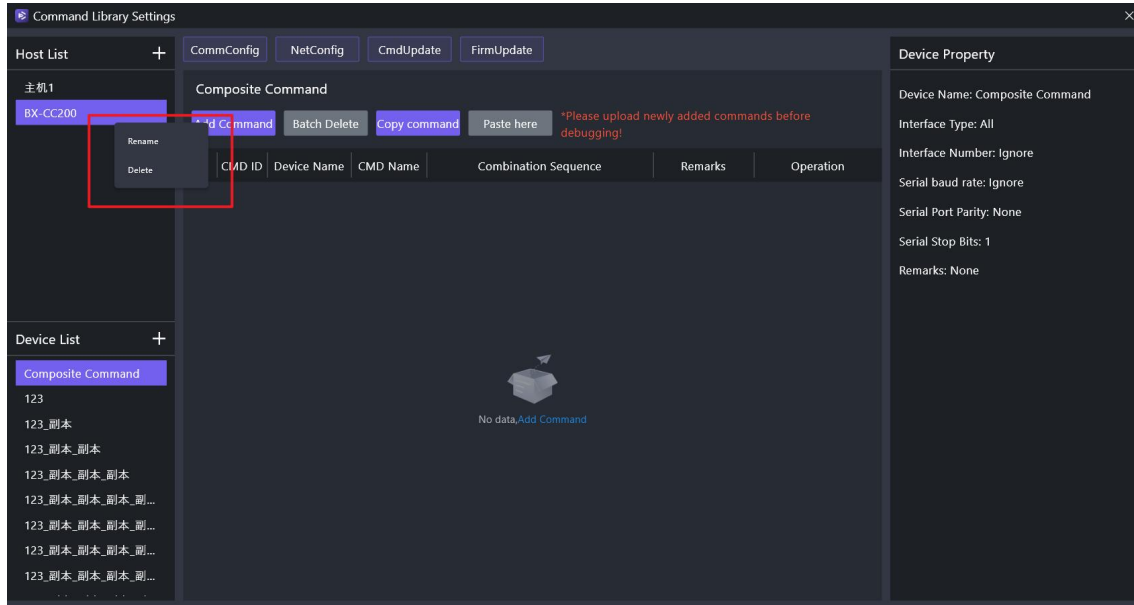


Figure 4.2.1. Host menu

4.3.Delete host

Need to delete the host under the right-click, the menu click“Delete”, a secondary confirmation pop-up window, click“OK”, as shown in figure4.2.1.

4.4.Add a device

Click the add icon in the device list, fill in the device properties, and click OK. See figure 4.4.1 for details. See table 4.4.1 for interface specifications.

PS: When you select the interface number, please keep it consistent with the actual access control host number.

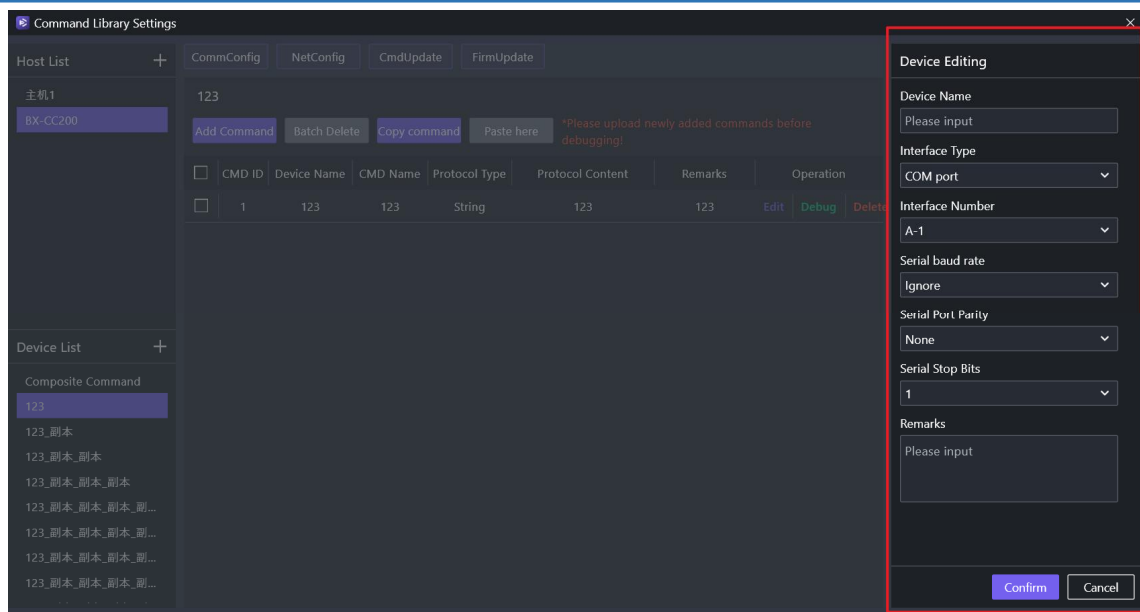


Fig. 4.4.1 Device Editing

Interface types	Interface parameters
Com	Serial baud rate, serial check bit, serial stop bit PS: the above parameters please consult the specification of the external device before you configure
232 serial port	Serial baud rate, serial check bit, serial stop bit PS: the above parameters please consult the specification of the external device before you configure
485 serial port	Serial baud rate, serial check bit, serial stop bit PS: the above parameters please consult the specification of the external device before you configure
TCP client	IP address, port number
UDP client	IP address, port number
Relays	No
I/O	No
Infrared	No
DMX512	No

Table 4.4.1 interface description

4.5.Editing devices

Select the device whose properties need to be modified, click the edit button in the property edit area to modify the parameters, and click the OK button, as shown in Figure 4.2.1.

4.6.Delete device

Right-click on the device that needs to be removed, and click delete from the menu that appears. A second confirmation pop-up appears. Click OK.

4.7.Add command

(1)Add a single instruction

Select the device that needs to add an instruction (except the combination instruction) , click add instruction in the instruction list area, enter the instruction parameters, and click OK, as shown in Figure 4.7.1.

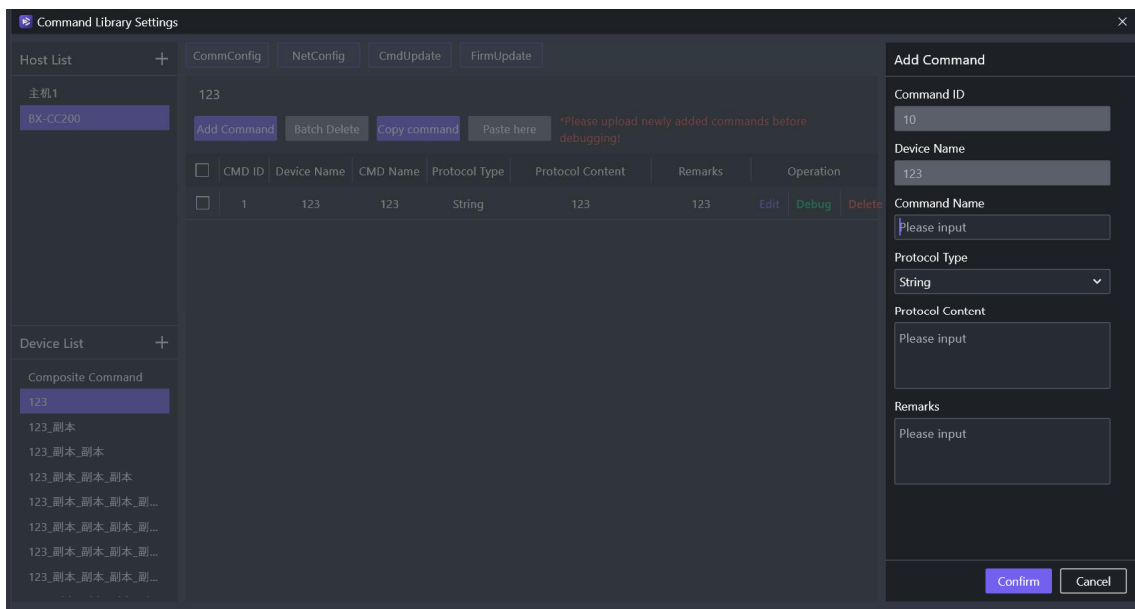


Figure 4.7.1. Single instruction addition

(2)Add a combination of instructions

Select "Combination instruction" in the device list, click "Add instruction" in the instruction list area, enter the instruction parameters, and click "OK", as shown in Figure 4.7.2.

PS: The Combination sequence contains instructions and time intervals, executed in order from top to bottom.

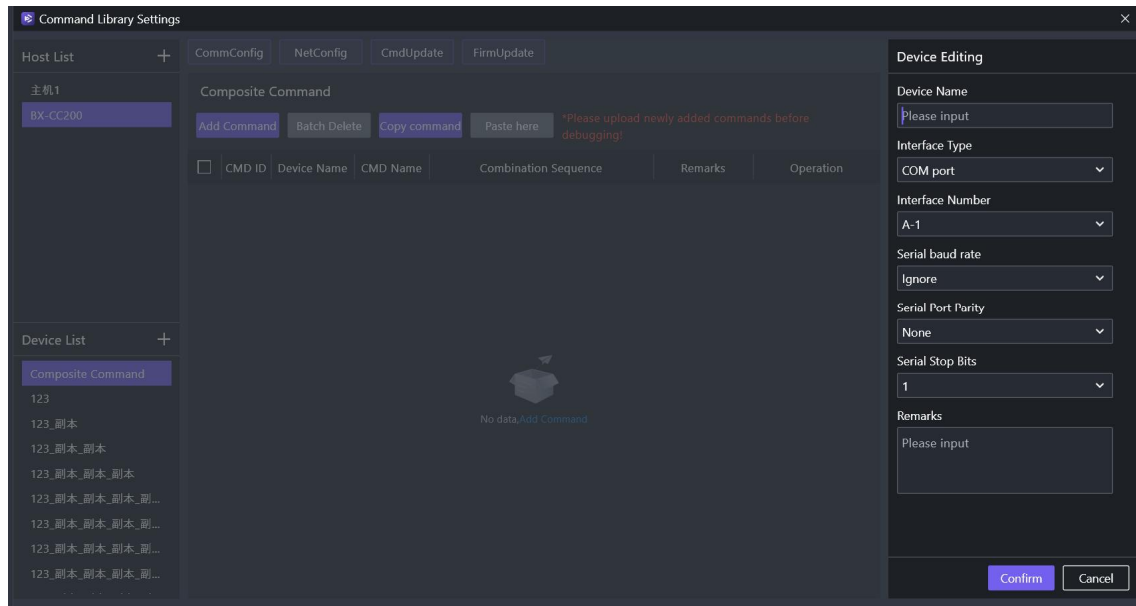


Figure 4.7.2 composite instruction addition

(3) Infrared Command learning

Select the device (infrared serial port) for which you want to add instructions. Click [Infrared Learning] in the instruction list area; a pop-up window will appear. Select [Infrared Learning], align the physical button with the infrared receiver on the front panel of the central control unit, and transmit the signal. The software will receive the signal, add a new data row, and allow you to edit the instruction name and other details. Click [OK].

PS: Before learning the Infrared Command, please make sure that the communication between the software and the central control host is normal.

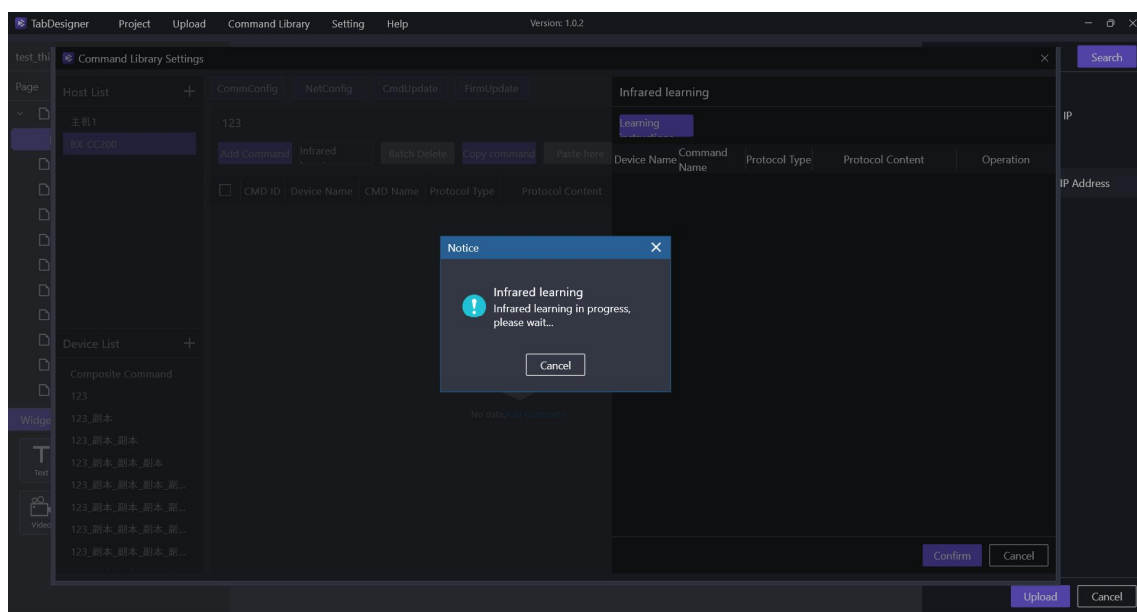


Figure 4.7.3 infrared command learning

4.8.Editing instructions

To modify a property, click the edit button on its row, change the parameter, and click OK.

4.9.Delete command

Need to delete the command, click the data row of the -LSB- delete] button, the secondary confirmation pop-up window, click thOK[-RSB-ok] button.

4.10.Communication configuration

Click the host button area of the“Communication configuration”, select the communication mode (fixed IP, stand-alone direct connection) , fill the communication parameters, click“OK”.

4.11.Network configuration

Click Network configuration in the host button area, fill in the parameters, and click OK.

PS: Before You start the network configuration, please configure your communications.

4.12.Command upload

Click on“Command upload” in the host button area.

PS: Please configure the communication before uploading the instructions; the original instructions of the central control host will be cleared during the uploading process.

4.13.Firmware maintenance

Click 'firmware maintenance' in the host button area and a pop-up window appears. Click the query button to see the current firmware information. To update the firmware, click the upload file icon and the update button.

PS: Before You start the network configuration, please configure your communications.

FirmUpdate-BX-CC200

Query device program

Model

Activation status

Program version

Query

Firmware update

Supported model

Type

Create time

Program version

Update

在更新主机、FPGA固件之前, 请确认与主机、FPGA固件版本匹配, 并请在本厂技术人员的帮助下使用此功能 !

Figure 4.13.1 firmware maintenance

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5. Interface editing

Function	Description
Page-add, delete, check	Support for adding, deleting, modifying and querying pages
Components-add, delete, change, check	Support for adding, deleting, modifying and querying components
Event Action – Add, Delete, Modify, or Query	Support adding, deleting, modifying, and querying interactions between pages, between pages and components, and between components.
Interface Preview	Preview an edited interface
Interface upload	The edited interface is transferred to the“TabLink” APP for actual control of the central control host

Table 5.1.1 interface editing menu

5.1.Adding pages

Click the add icon in the list of pages, as shown in Figure 5.1.1.

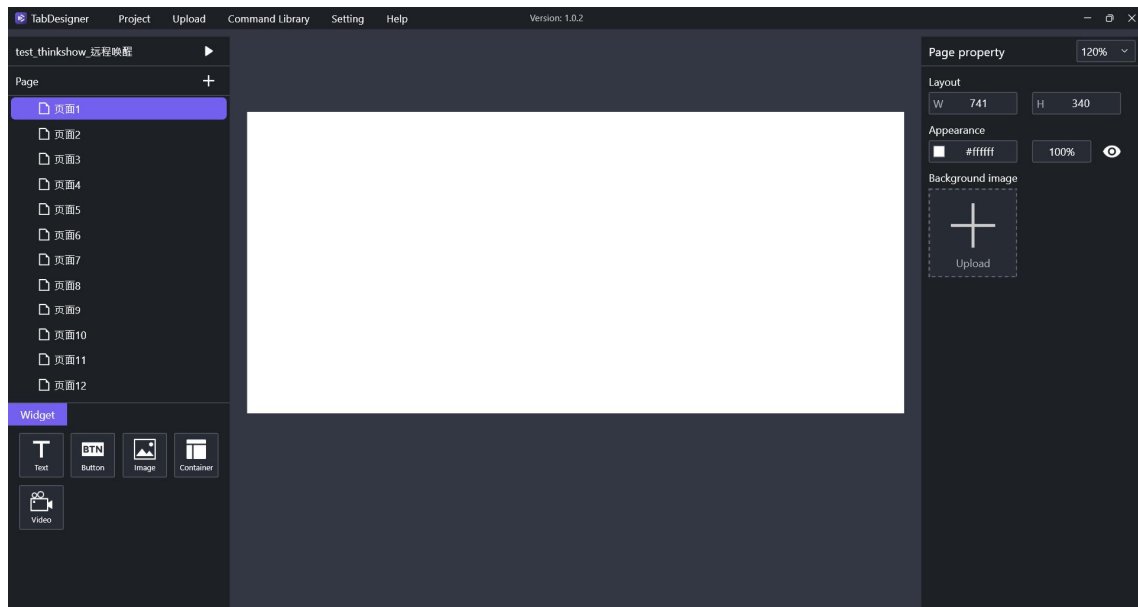


Figure 5.1.1 adding a page

5.2.Editing a page

(1)Property editing

Select the page where you want to change the properties, and make the changes in the properties editing area, as shown in Figure 5.1.1.

PS: the width and height changes are made at the same time.

(2)Rename

Right-click on the page that needs to be renamed, click“Rename” in the menu that appears, enter the page name, and then save it by clicking on the non-field area or the keyboard enter key, as shown in Figure 5.2.1.

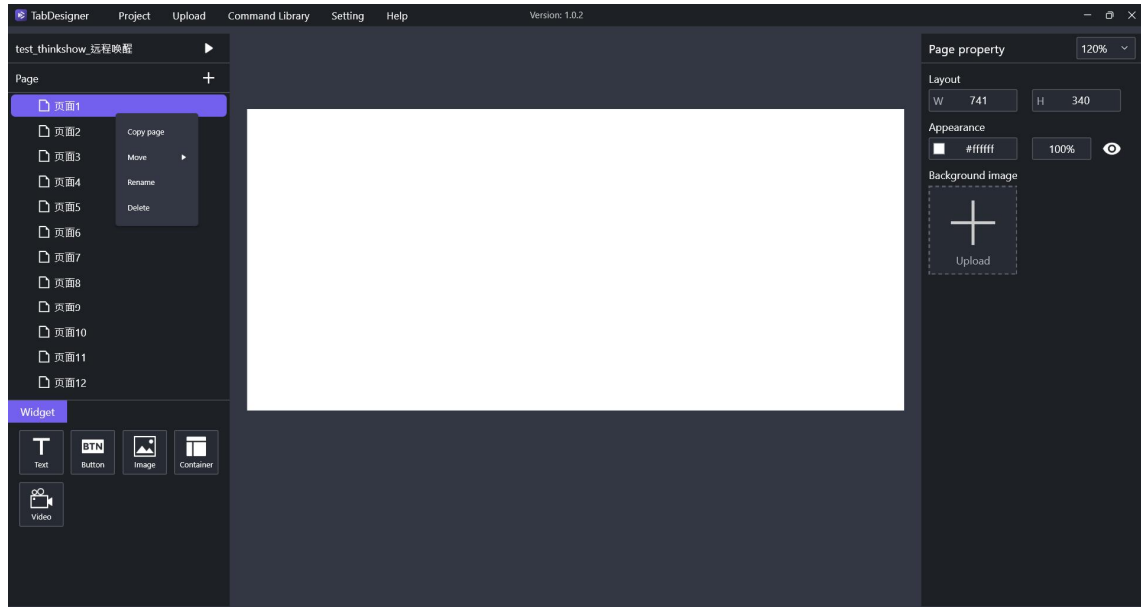


Figure 5.2.1. Page menu

(3)Sequential editing

Right-click on the page that needs to be renamed, click move on the menu that appears, and click move up/move down to reorder the pages, as shown in Figure 5.2.1.

5.3.Delete pages

Right-click on the page you want to delete and click delete on the menu that appears, as shown in Figure 5.2.1.

5.4.Adding components

To add a component to a component area, long-press and drag it onto the canvas.

5.5.Edit components

(1)Property editing

Select the components in the canvas or page list that need to change their properties, and change them in the properties editing area, as shown in Figure 5.5.1.

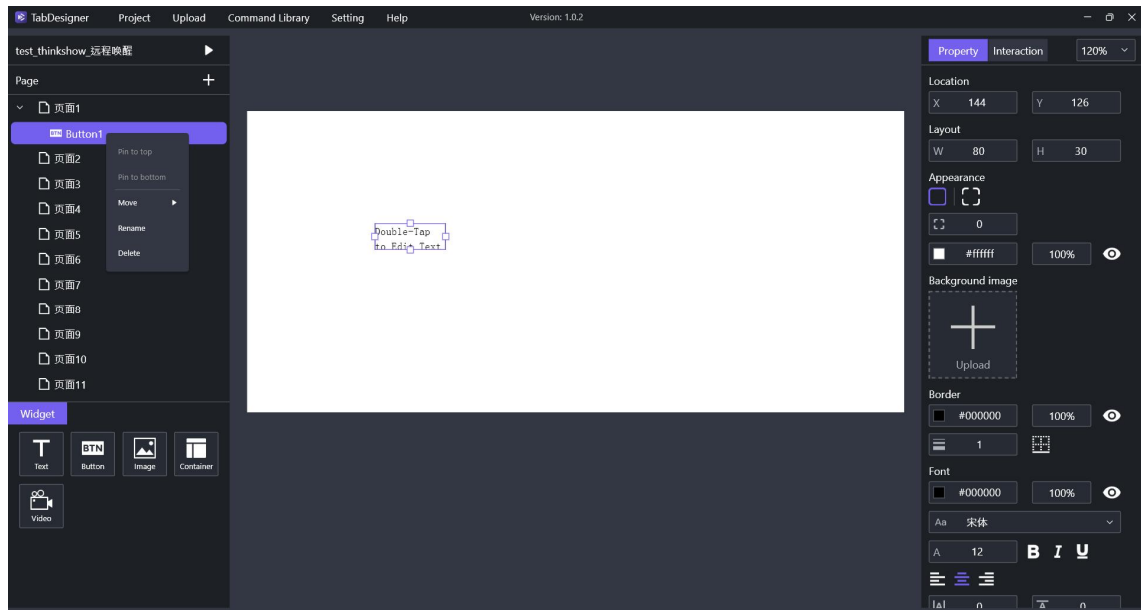


Figure 5.5.1 component menus

(2)Hierarchy adjustment

Right-click on the component that needs to be resized, click move from the menu that appears, and click move up/move down to resize the component. Click on“Top” in the menu to adjust the component directly to the top. See figure 5.5.1.

(3)Rename

Right-click on the component that needs to be renamed, click“Rename” in the menu that appears, enter the name of the component, click the non-input box area or the keyboard enter key to save, as shown in Figure 5.5.1.

5.6.Delete component

Right-click the component you want to delete and click delete from the menu that appears, as shown in Figure 5.2.1

5.7.Add interaction

Select the component you want to add an interaction to, click the interaction tab, click the add interaction button, select the interaction properties you want to add in the pop-up window, click the ok icon, and click the, see figure 5.7.1.

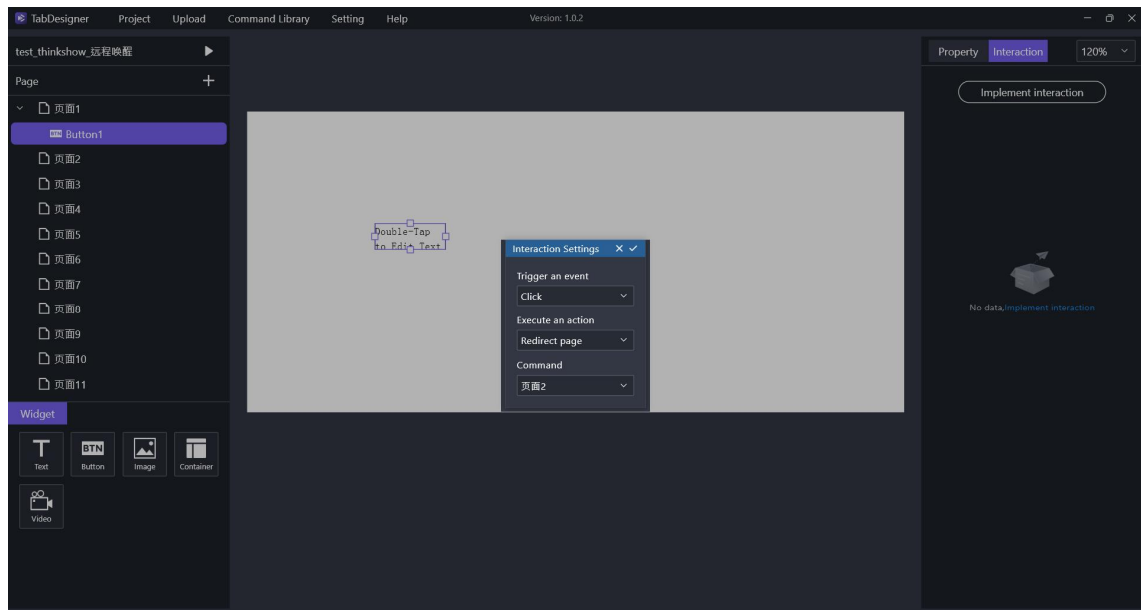


Figure 5.7.1 interactive settings popup

5.8.Edit interaction

(1)Property editing

Double-click the interaction that you want to modify the property to change the interaction property in the pop-up window. Click the OK Icon, as shown in Figure 5.7.1.

(2)Reorder

Right-click on the interactions that need to be reordered, click move on the menu that appears, and click move up/move down to reorder the interactions, as shown in figure 6.8.1.

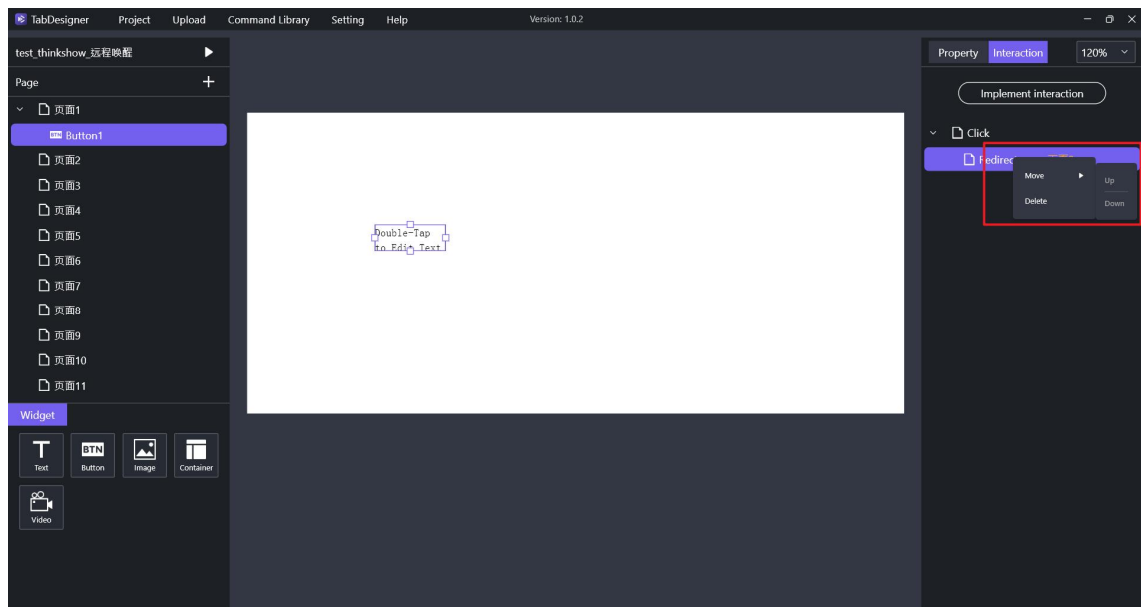


Figure 5.8.1 interactive menu

5.9.Delete interactions

Right-click the interaction you want to delete and click delete on the menu that appears, as shown in Figure 5.8.1.

5.10.Interface Preview

Click the preview icon next to the project file name.

5.11.Interface upload

Click the interface upload button in the top navigation bar, click the search online menu, select the search method (LAN search, search under the specified IP) , click search, when you find a device, select the device you want to transfer it to, and click upload, as shown in Figure 5.11.1.

PS: make sure your computer and mobile device are connected to the same LAN.

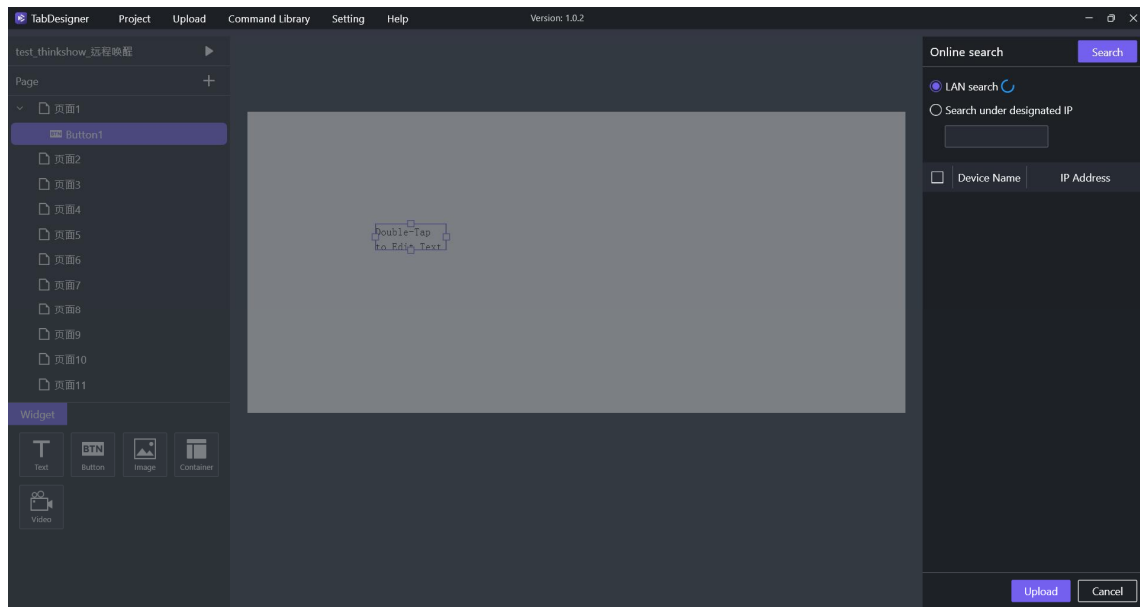


Figure 5.11.1 interface upload

6. TabLink

Function	Description
Transfer parameters	Used to show the parameters required for project file transfer
Controls	The core function of central control is the actual operation interface
About software	Used to display "User agreement", "Privacy Policy", version number and other information, support software language switching

Table 6.1.1 interface editing menu

6.1.Transfer parameters

When you do not receive the project file interface to show the transfer parameters; click on the "Settings" icon, click on the "Transfer parameters" can also enter this page.

PS: on the TabDesigner side, the page width and height settings should be the same as here. When the page is displayed vertically, the width and height should be inverted. In the interface transfer, check that the IP addresses are exactly the same.

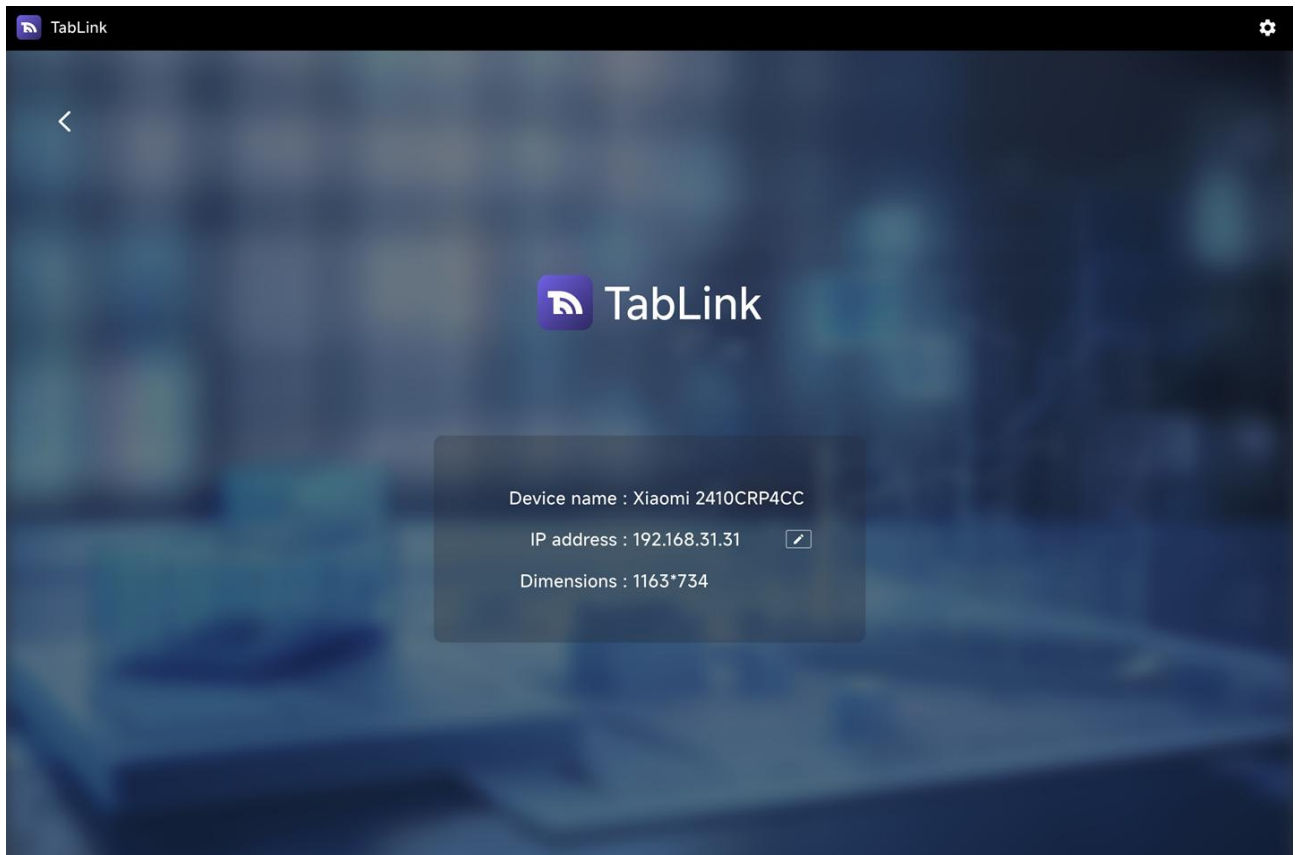


Fig. 6.1.1 transfer parameters

6.2.Controls

Receive TabDesigner through the“Online search” function to transfer the project files, to achieve the interface interaction and instructions to the central control host operation, including but not limited to the interface between the jump, the button trigger device instructions, button trigger container pop-up, hide, etc. .

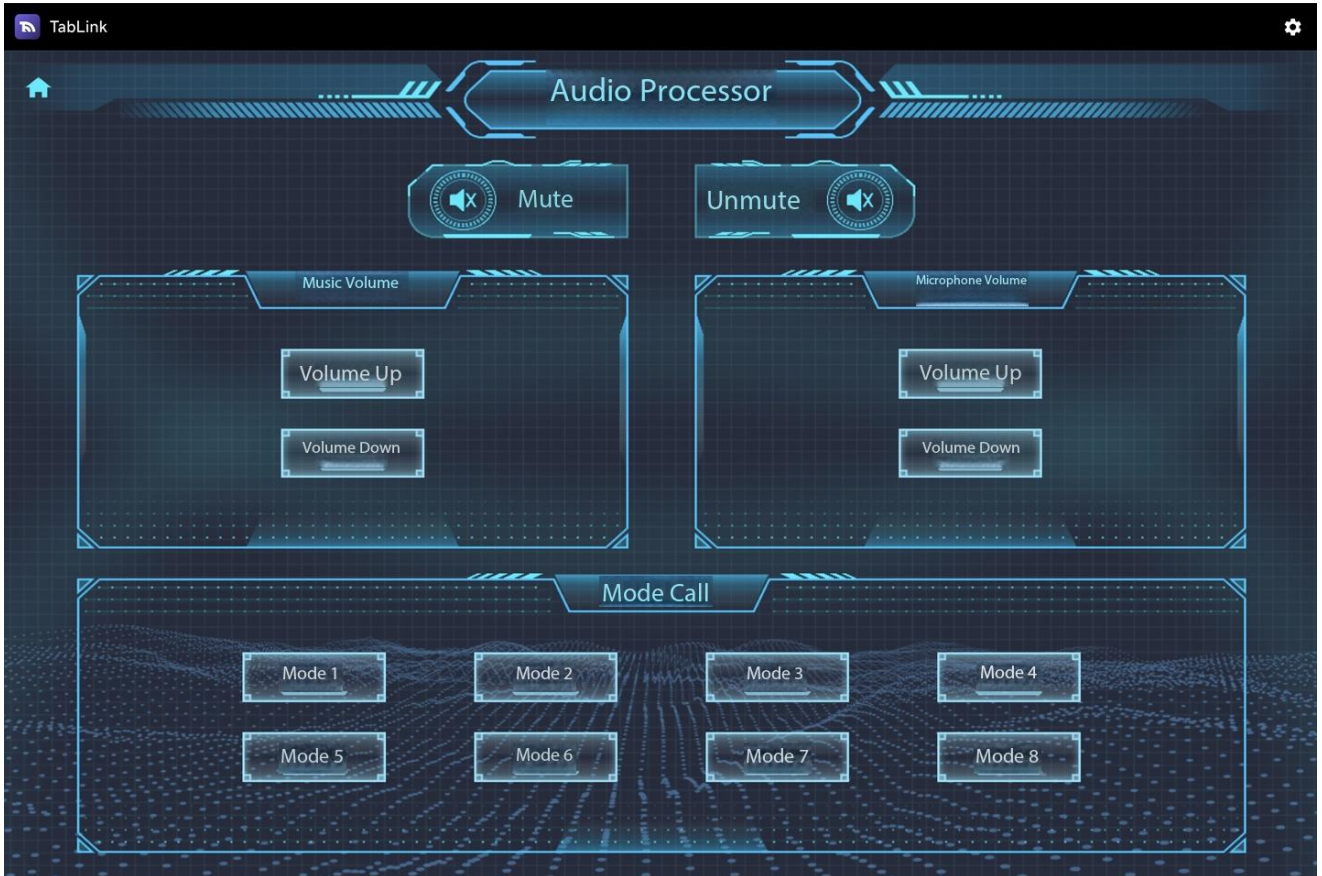


Fig. 6.2.1 Operation Control

6.3.About software

Click“Settings” icon, click“Transmission parameters” can enter the software settings, show the“User agreement”, “Privacy Policy”, version number, support for switching software language.

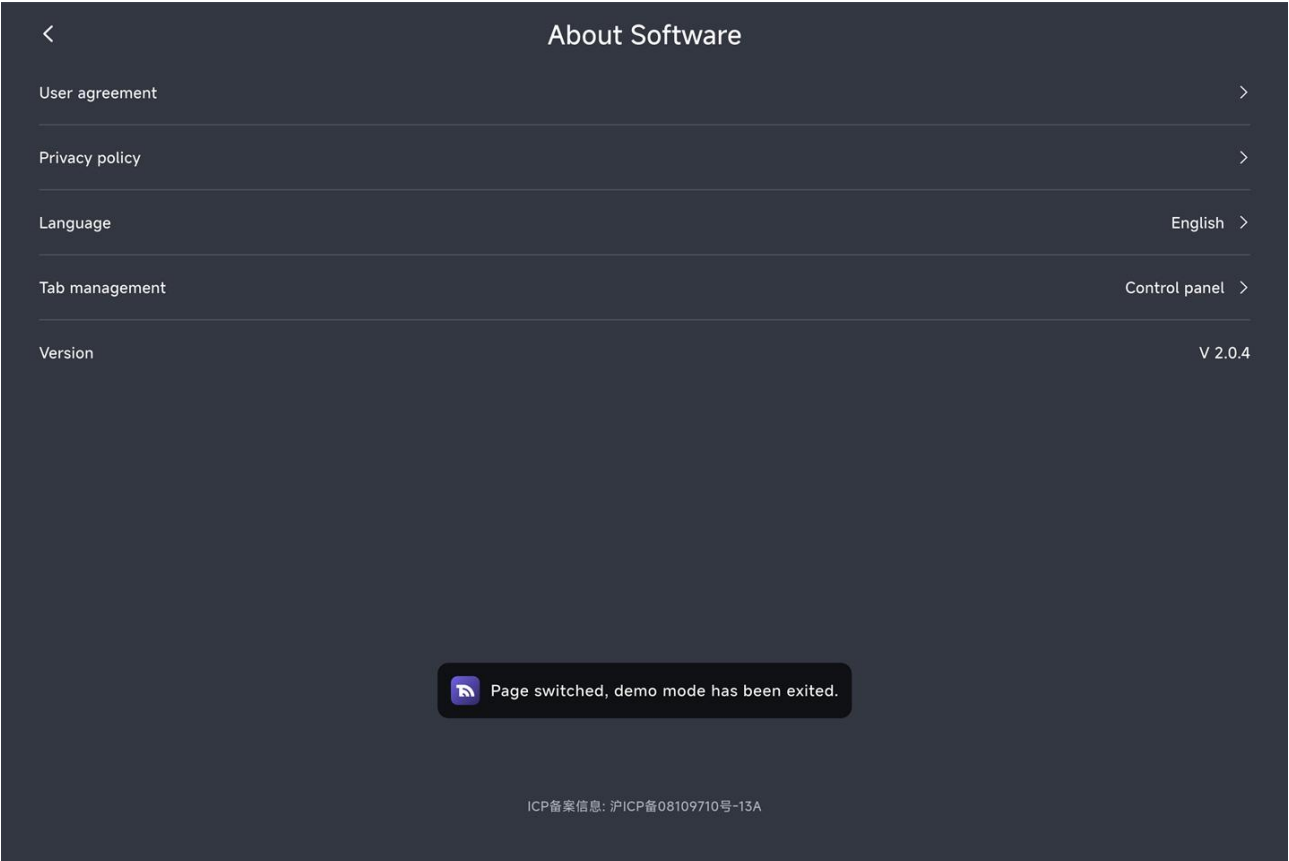


Figure 6.3.1 on software

Shanghai ONBON Technology Co.,In

Address: 7/F, building 88,1199 Qinzhou North
Road, Xuhui District, Shanghai;
www.onbonbx.com



Kunshan photoelectric industrial base

Address: No. 1299 Fuchunjiang Road, Kunshan Development Zone, Jiangsu Province