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Version update point:

- → Ver 1.0 initial version
- → Ver 1.2 The original MB series name was changed to BTC series
- → Ver 1.4 BTC series new application products, support size is 2.9" 4.2" 7.5 single screen / 7.5 dual screen / 10.2" 11.6"
- → Ver 1.6 BTC series added btcms.exe startup tool, which supports multiple systems to start normally at the same time
- → Ver 1.8 Including 7.5-inch" 10.2-inch" 11.6-inch device appearance upgrade/ original 7.5-inch" 10.2-inch" 11.6-inch "battery" power supply mode upgraded to "charging" power supply mode and additional bracket accessories



BTC Series Bluetooth Ink Screen Control System Electronic Conference Table Card Equipment List

Name	Model	Color	Quantity	Remark	
BTC series device 2.9 inch (single screen)	BHB29AS	Black White Red	Users can use multiple units	This device is suitable for Picking labels, warehouse signage,	
BTC series device 4.2 inch (single screen)	BHB42AS Black V		Users can use multiple units	price tags, work cards, etc.	
BTC series device 7.5 inch (single screen)	BTB75AS	Black White Red	Licers can use multiple units	This device is suitable for	
BTC series device 7.5 inch (double-sided screen)	BHZ75BA	Black White Red	Users can use multiple units	meeting table Card, Seat cards,etc.	
BTC series device 10.2 inch	BTBA2BS	Black White	Hears can use multiple units		
(single screen)	BTBA2AS	Black White Red	Users can use multiple units	This device is suitable for doorplate, department logo office information board,	
BTC series device 11.6 inch	BTBB6BS	Black White			
(single screen)	BTBB6AS	Black White Red	Users can use multiple units	hospital information board Picking goods label,etc.	
Dwaltot	Wal	l Hanging	User configuration according to	This bracket is suitable for	
Bracket	Desktop Stand		needs	Medical e-Paper Device	
	WBG-01		Users according to the scene and	This gateway can connect multiple devices	
Bluetooth Gateway	WBG-02		scope to configure the number of gateways		
BTCMS system software			1	Use this system on the computer	
btcms.exe Start Tool —— —			1	Use this tool on a computer	

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BTC Series Bluetooth Ink Screen Control System Electronic Conference Table Card Manual

Overview

This manual mainly introduces the operation method of the electronic conference table card of the Bluetooth electronic paper control system of BTC series products. The realization of its system function depends on four components: 1) A variety of application surface products include: 2.9 inches / 4.2 inches / 7.5 inches / 10.2 inches / 11.6 inches (multiple models of different sizes of application surfaces can be customized according to different scenarios or application requirements) select product size). 2) Bluetooth gateway. 3) BTCMS system management software. 4) btcms.exe starts the tool. A variety of application products and BTCMS system management software communicate through the Bluetooth gateway (the Bluetooth gateway is bound to the BTCMS system management software, and the table card is bound to the Bluetooth gateway). The following will introduce the application surface of the 7.5-inch electronic conference table card: (The operation methods of the application surface of other sizes are the same):

Electronic Meeting Table Card And Various Application Products



Electronic Meeting Table Card And Various Application Products picture



Electronic conference table cards and other products with application surface size have the advantages of ultra-low power consumption, fast update, and the content of the template can be permanently displayed after power failure. According to the actual application requirements of electronic conference table cards and other applications, 2.9-inch" 4.2-inch" 7.5-inch" 10.2-inch" 11.6-inch equipment has been launched. Specifications are described below.

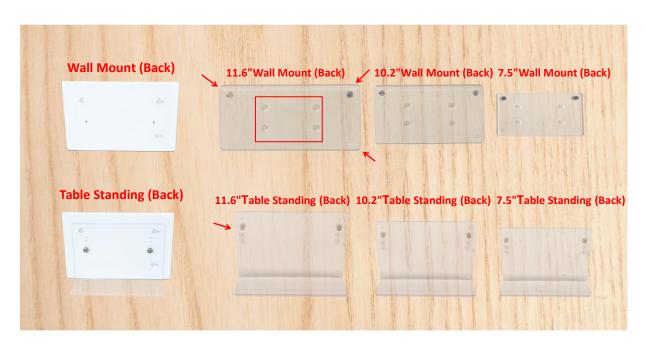
Size	2.9" single screen	4.2" single screen	7.5" single screen	7.5"double-sided screen
Product photo	Technor meteral labeling Technor meteral part of Balance Courte too From Co.	This deak is currently assigned to 69 Jam Robers Time: 100-15:30 1680 Next Robers 15:30-15:30 169 Lanc Rober Robers 15:201-15:30	Smart Retail conference James WalMart Inc	Internet of things Dgyelopment seminar Angustine ale technologies, L. Ltd. Monager Spensor: Sheruthen xxxxxx co., L. Ltd.
Screen type	E-ink screen	E-ink screen	E-ink screen	E-ink screen
Display color	Black White Red	Black White Red	Black White Red	Black White Red
Display resolution (pixels)	296*128	400*300	800*480	800*480
Display size (mm)	66.9(H)*29.06(V)	84.8(H)*63.6[V)	163.24(H)*97.94(V)	163.24(H)*97.94(V)
Overall size (mm)	90.8(H)*43.97 (V)*5.49(D)	104.0(11)*07.0(1)*12.0(D)	181*(H)*126(V)*7.2(D)	184X135(mm)*6.0(D)
Card slot Thickness (mm)	12.2(D)	104.8(H)*87.6(V)*13.0(D)		
Battery capacity	1200mAh	2400mAh	Rechargeable model	3600mAh
DPI	112	119	124	124
Working temperature	0-40°C	0-40℃	0-40℃	0-40℃
Transmission technology	Bluetooth	Bluetooth	Bluetooth	Bluetooth
Material	ABS	ABS	ABS	PMMA+Aluminum alloy

Size	10.2" single screen	10.2" single screen	11.6" single screen	11.6" single screen
Product photo	Sworder XXXXXXXXX Go.110 Name: XXX Prostree: Manager Emai: Manager Prove: 0155 2590 6544 Manager & drawn barrent supplier 6-07-7-507	James Position: Manager	Angustine abc technology co., Ltd. Sponsor: Shenzhen xxxxxxx co., Ltd.	General Practice Clinic 2023/02/06 Room 202 Physician Dr.Liu Title Attending Title Attending Physician Introduction Specializing in synecology, pediatrics and internal medicine
Screen type	E-ink screen	E-ink screen	E-ink screen	E-ink screen
Display color	Black White	Black White Red	Black White	Black White Red
Display resolution (pixels)	960*640	960*640	960*640	960*640
Display size (mm)	215.52(H)×143.68(V)	215.52(H)×143.68(V)	244.512(H)×163.008(V)	244.512(H)×163.008(V)
Overall size (mm)	235(H)*170(V)*7.2(D)	235(H)*170(V)*7.2(D)	268(H)*192(V)*7.2(D)	268(H)*192(V)*7.2(D)
Battery capacity	Rechargeable model	Rechargeable model	Rechargeable model	Rechargeable model
DPI	113	113	100	100
Working temperature	0-40°C	0-40°C	0-40°C	0-40°C
Transmission technology	Bluetooth	Bluetooth	Bluetooth	Bluetooth
Material	ABS	ABS	ABS	ABS



Electronic conference table templates consume power when refreshing, so batteries need to be installed or charged. Devices of different sizes have different power supply modes, some are battery models and some are charging models. The battery model has different numbers of batteries depending on the size. The 2.9-inch model has 2 batteries inside. The 4.2" device is equipped with 4 batteries. The 7.5" single screen, 10.2" single screen and 11.6" single screen devices are all rechargeable models. Just use the Type-C charging cable to charge. The 7.5" dual-screen device is a battery pack that contains 6 button batteries. Remove the screws on either end of the 7.5" dual-screen table card base and pull out the cover of the base to replace the battery. There is a power switch on the side of the table. You can turn it off when not in use for a long time to save power.

二. Bracket



→Instructions for wall hanging:

There are three holes on the bracket to tighten two screws "horizontal/vertical" to fix

There are four holes in the bracket for "horizontal/vertical" screw fixing on the wall or door

Installation method: After the four holes in the bracket are fixed on the wall or door, hang the three holes on the back of the device on the bracket according to the "horizontal/vertical" requirements

→ Desktop Stand Instructions:

There are three holes in the bracket to "raise/lower" Tighten two screws to fix

Installation method: The three holes in the bracket correspond to the left and right holes on the back of the device to "raise/lower" the height and tighten the screws.



三. Bluetooth gateway

The Bluetooth gateway is the center of the BTCMS management system software and the information data transmission of conference table card equipment and other size equipment. After the data is processed by the BTCMS management system software, it is transmitted to the gateway, and then the gateway transmits the data to the conference table card equipment and other size equipment through Bluetooth technology. The effective distance between the Bluetooth gateway and the conference table card and other size devices can reach 60 meters, and it can be connected to the conference table card and other size application surface devices within a radius of 60 meters without obstruction.

There are four LED indicators inside the Bluetooth gateway. details as follows:



a.BLE light: Bluetooth indicator (whether the Bluetooth module is working normally or not)

b.LAN light: network port indicator (whether the network port is plugged in and the data transmission is normal)

c. Work light: Network indicator (whether the base station is connected to the server normally or not) d.Power light: power indicator (whether the base station power supply is normal or not) NOTE: All indicators are green.

The gateway is used as follows:

First connect the router with a network cable (the router needs to be able to automatically assign IP), then connect the power adapter, the Power light will be on at the moment of power-on, the base station will start up, and enter the configuration work of the internal module. flashes sequentially, and this process lasts for 40s.

After the initialization is successful, the LAN light flashes, the BLE light, the work light and the Power light are always on, and the gateway enters the normal working state.



四. BTCMS management software

Install and log in to the BTCMS conference table card management system

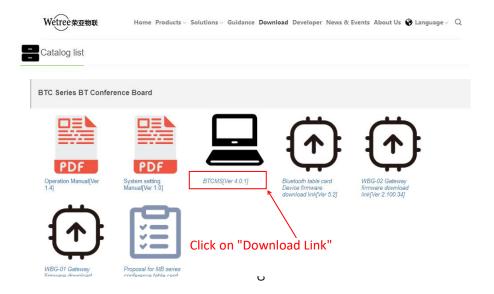
After the configuration of the Bluetooth gateway is completed, the user needs to install the btcms.exe startup tool first.

Before installing the btcms.exe startup tool, you need to turn off the anti-virus software of the computer, otherwise it will result in failure to download or abnormal software functions.

Step 1: Open the browser and enter https://www.witstec.com/download-2/ to enter the download center of the official website of Witstec



Step 2: Download the btcms.exe startup tool from the background management system "download link" under the BTC series.





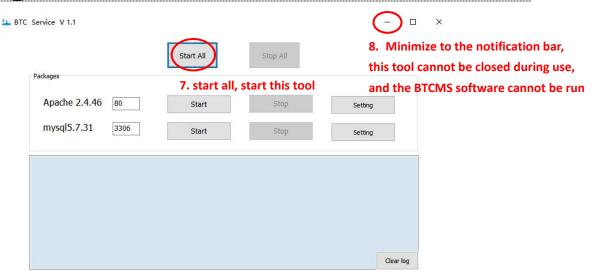
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Step 3: After the btcms.exe startup tool is downloaded, find the folder where the download is stored, and click "Run". Then select the prompt to allow the next step.





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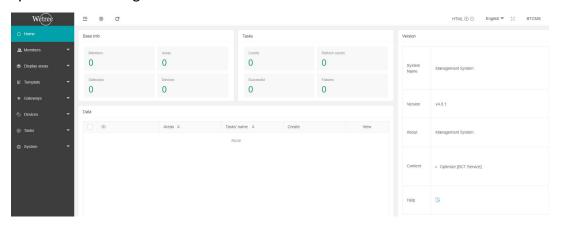
Remarks: If you need to uninstall and reinstall this software, you can click "unins000" on the previous installation disk to uninstall this software, and then download it again.



After the installation is complete, double-click the btcms icon in the desktop shortcut or the folder where the installation is stored to open the software. The icon after downloading is as follows:



After opening the "btcms.exe startup tool", you can log in to the BTCMS management system software. The login method is as follows: Enter the address 127.0.0.1 in the browser to enter the BTCMS management system software login interface



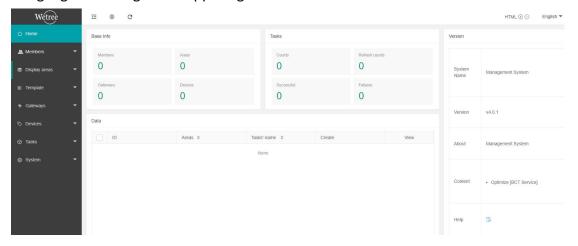


五. BTCMS software features

The BTCMS management system software is the control center for conference table cards and other size equipment. The user can input the information of the participants and the template of the display content of the table card or other size equipment, and send the template to the conference table card or other size equipment. After entering the BTCMS management system, you can see nine functional modules: home page/personnel/sign area/custom template/Bluetooth gateway/electronic table card/sign projection/system settings. The following is a detailed introduction of each functional module.

Module 1: Homepage

This module is shown in the figure below, where you can view: 1) the total number of people who have created rosters in the system; 2) the total number of management signage device locations in the system; 3) the total number of Bluetooth gateway devices bound in the system; 4) the system The total number of bound table and card devices; 5) Device execution status; 6) System version information 7) System language switching in the upper right corner.



Module 2: People

The People module is divided into: Rosters. The "roster" is used to enter personnel information. The information items that can be entered include: company name, department and job title, mobile phone number, email address, company, department, and job title. These information items are optional. The following describes the instructions:



1. Roster

There are two ways to input personnel information in the roster: batch input and single input.

Batch import steps: For batch input, you need to click "Import EXCEL", upload the roster, then fill in the information in the form, and finally click "Import EXCEL" to import the filled form. register. The personnel information in the Excel document must be filled in in advance according to the template requirements. This function is suitable for meetings with a large number of people.

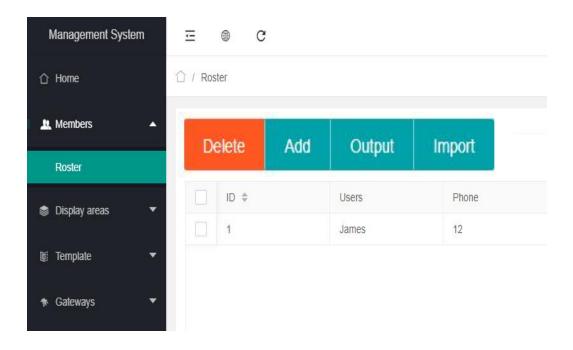
Steps for entering personnel information individually: Click "Personnel" \rightarrow "Roster" \rightarrow "Add" \rightarrow Enter personnel information \rightarrow Click "Confirm" to save the information. This feature is suitable for meetings with a small number of people.

There are two ways to delete personnel information from the roster in batches and individually.

Batch deletion: Check the selection box in the "ID" column on the page, and click the delete button to delete all personnel information in the list.

Individual deletion: Check the person to be deleted, and click Delete to delete the information of the person in the list.

Roster export: Through the export function, the employee roster can be exported in the "*.csv" format, and the user can customize the file path and file name.

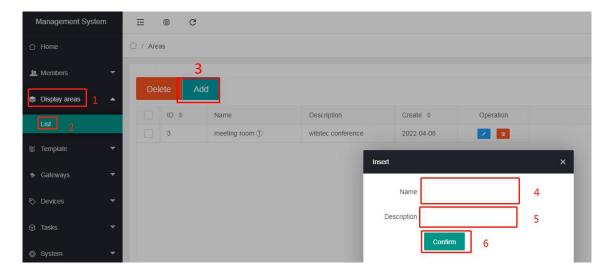




Module 3: The area where the sign is located

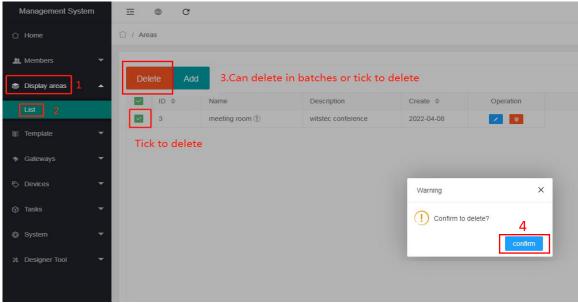
In this module, users can enter the location of the signage equipment through this function, which is convenient for equipment management.

Set room related information: Click the Add button to create a new area, enter room name/description notes. Steps to add meeting room information: Click: "Signage Management" \rightarrow "List" \rightarrow "Add" \rightarrow Enter information about the meeting room \rightarrow Click "Confirm" to complete the meeting room creation.



The created meeting room will be displayed in the list. To modify the meeting room information, click the Edit button of the corresponding meeting room in the list.

Delete: The user selects the meeting room to be deleted, and clicks the delete button and the OK button in the pop-up window to complete the deletion operation. Check the box to the left of "ID" on the page and click the delete button to delete all meeting rooms.





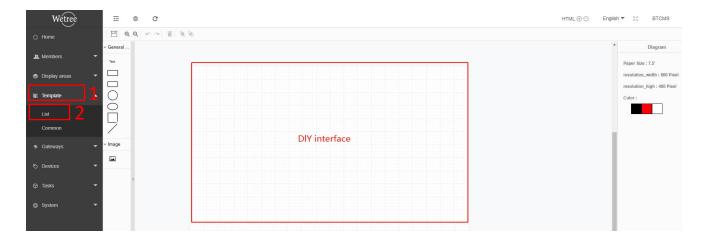
Module 4: Custom Templates

The template is the format of the display content of the table card, which needs to be pre-designed and made. This module is divided into two parts: A. List (used to create a new template, bind parameters and view, rename, edit, delete the completed template list). (Please note that the template is saved locally after the completion of the template. If the user changes the computer to log in to the system, the user will not see the template record made before) B. Public templates (you can download shared templates for use or reference)

A. List (New template, Binding parameters, List)

1. New template

Steps: Click "List" \rightarrow "New" \rightarrow select the device size \rightarrow enter the DIY template editing interface \rightarrow save & name the template.

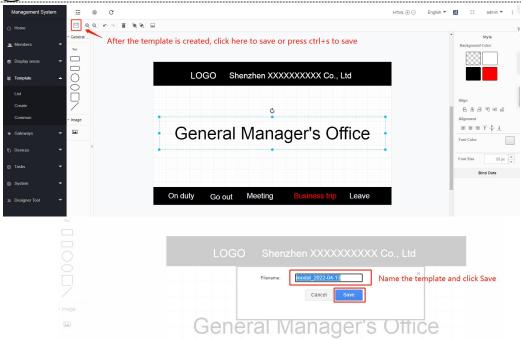


Use the tools on the left to design and make the template, as shown above. Tools include: text, rectangle border, square border, circle, ellipse, double line segment, single line segment. Click a tool icon with the mouse, and the corresponding tool icon will be displayed in the template area. On the right, you can set the background color, alignment, font color, and font size.

In addition, you can also bind parameters to the content in the edit box (company, name, position, department, contact number). The meaning of the binding parameters is that in the case of sharing the template format, only one template needs to be created. After all the information of the participants are bound to the template, the content sent to the conference table card device will display the information entered in the roster. , the format and layout will be the same as on the template.



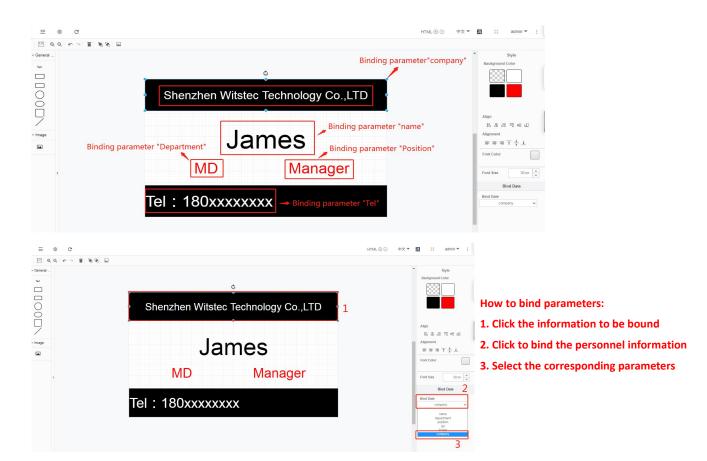
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2. Binding parameters

For example: Yang Haoyu's information in the roster, after binding this person's information and the equipment to be displayed, click "Refresh Template", then select "Attendance Card 1" (the template is Wan Zhiguo's information), and finally the table card equipment The information displayed above will be Yang Haoyu.

The function of binding parameters saves users a lot of time in creating templates. When the template format is shared, the user only needs to create a template, and the information of the personnel in the template can be bound.

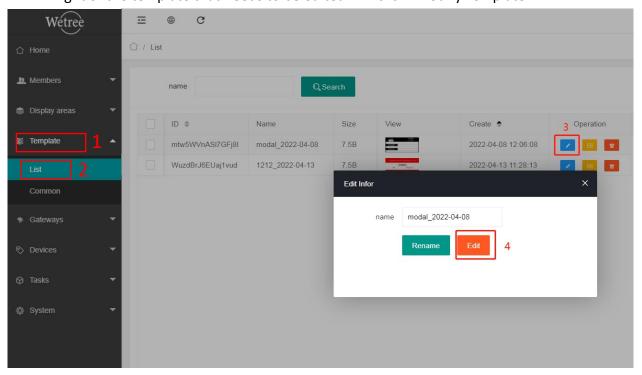




3. List

After the template is created, it can be viewed, re-edited or deleted. These operations are implemented in the submodule "list" under the "custom templates" module.

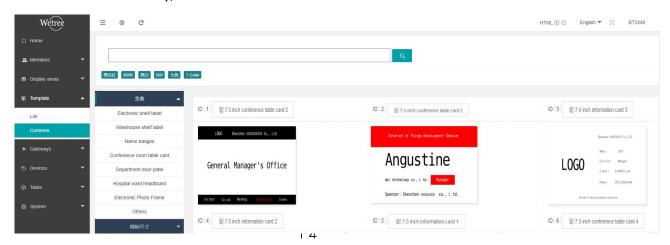
Re-edit template steps: Click "Custom Template" \rightarrow "List" \rightarrow "Click "Edit" on the right of the template that needs to be edited \rightarrow click "Modify Template".



B. Public templates (you can download shared templates for use or reference)

You can download public templates and use them as reference objects for making templates. Click on the template name to: view the template, modify/edit the template, save the template. These operations are implemented in the submodule "Common Templates" under the "Custom Templates" module.

Steps to download the public template: Click "Custom Template" → Public Template → "Save" or "Modify/Edit".



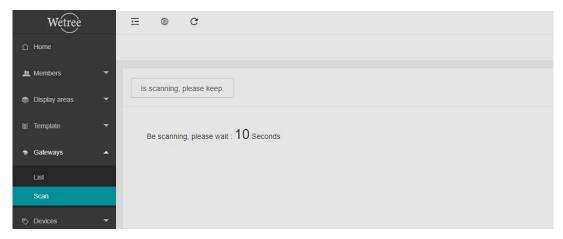


Module 5: Bluetooth Gateway

The Bluetooth gateway is the transfer station for the communication between the BTCMS management system software and the conference table cards and other size equipment. After the BTCMS management system software is installed, the system needs to be bound to a Bluetooth gateway, and one system can be bound to multiple Bluetooth gateways. A Bluetooth gateway can bind multiple table cards or other size devices. In practical applications, a gateway is generally placed in each conference room, and the gateway is bound to the table card in the conference room.

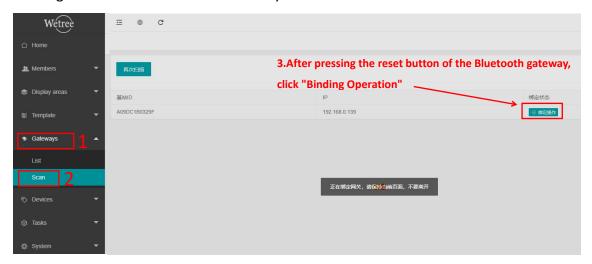
How to bind a bluetooth gateway?

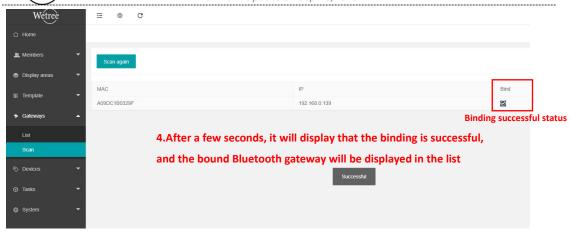
Steps: Click "Bluetooth Gateway" → "Search Gateway" → "Start Scanning" During gateway scanning, the following interface will pop up:



After the gateway search is completed, the "list" of the "Bluetooth Gateway" sub-module shows that the system has found the Bluetooth gateway → press the Bluetooth gateway reset button to send an authorization interface request → click "Binding Operation" to complete the binding.

Note: Every time you bind the Bluetooth gateway, you need to press the reset button of the Bluetooth gateway device to send an authorization interface request to the BTCMS management system software, and the binding is successful. Long press the LAN light to turn off to reset successfully.

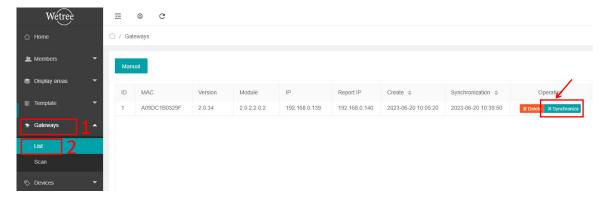




If the gateway information cannot be found or the synchronization time column displays a red X, it means that the gateway device is not connected, you can try to click the synchronization button on this interface.

There are two possibilities for not finding the gateway: A. The power supply of the gateway is interrupted B. The network of the gateway is interrupted.

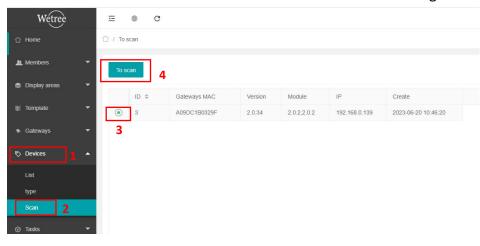
In addition, the Bluetooth gateway can also be manually bound, click the manual binding base station on the list to manually bind the gateway.



Module 6: Electronic Signage

The electronic conference table card is the terminal equipment for the information display of the BTCMS management system software. After the system binds the Bluetooth gateway, it also needs to bind the electronic conference table card through the gateway, so that the system can communicate with the table card.

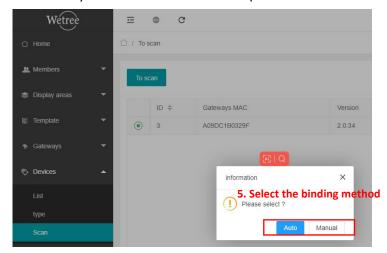
Steps: Click "Electronic Table Card" → "Search Table Card" → check the gateway that needs to be bound → click "Scan Device" → select "Binding Method" to bind.





Binding mode: There are two ways of manual and automatic

- (1) Automatic binding: \rightarrow turn on the power of the table card \rightarrow select automatic binding \rightarrow enter the number of table cards to be bound \rightarrow the number of table cards required for successful binding and the table cards that have been powered on and online \rightarrow successfully bound tables will be displayed The cards will be shown in the list.
- ②Manual binding: Turn on the power of the table card \rightarrow select manual binding \rightarrow search for the device, and the searched table card will be displayed after a few seconds \rightarrow check the table card that needs to be bound \rightarrow click "Bind Device" at the top \rightarrow it will display success Bind the required number of table cards and the table cards that have been powered on and online \rightarrow successfully bound table cards will be displayed in the list \rightarrow manually bound table cards will be automatically refreshed as the default template.



After the electronic conference table card is successfully bound, it will be displayed in the sub-module "list" under the "electronic table card" module. If the table card cannot be found, there are three possibilities: A. The power of the device is interrupted B. The network of the device is interrupted

C. The device and the gateway are not in the same LAN. Binding table cards can be done manually or automatically.

The sub-module "equipment model" under the "electronic table card" module can be used for adding new sizes.

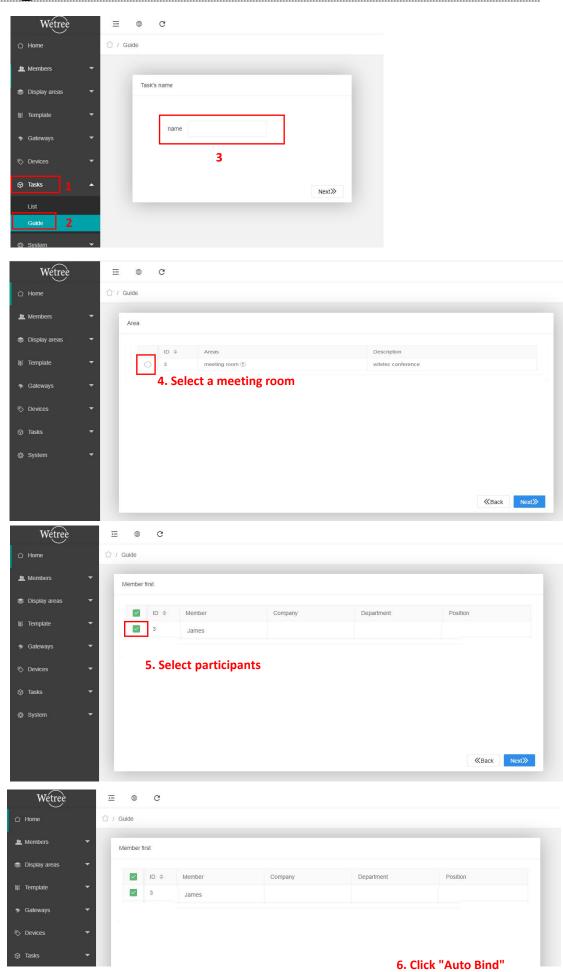
Module 7: Signage Projection

This function can add mapping tasks, view the added mapping task information, and edit the created mapping task information. This function can enter information such as task name, area, and participants, and this function can send the prepared template content to the conference table card.

Steps: Click 1 "signage projection" \rightarrow 2 "projection wizard" \rightarrow 3 "input task name" \rightarrow 4 "select meeting room" \rightarrow 5 & 6 "select participants to bind electronic table cards" \rightarrow 7 "click list & select Edit" \rightarrow 8&9"Bind/modify signage" \rightarrow 10"Click to confirm \rightarrow 11&12Refresh the signage.

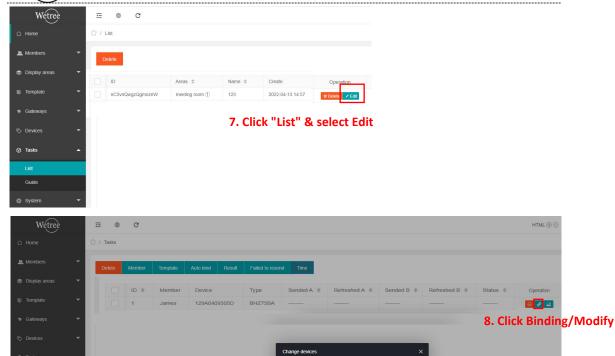


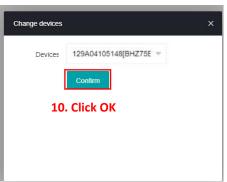
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9. Click the triangle drop-down menu and select the table card to be bound

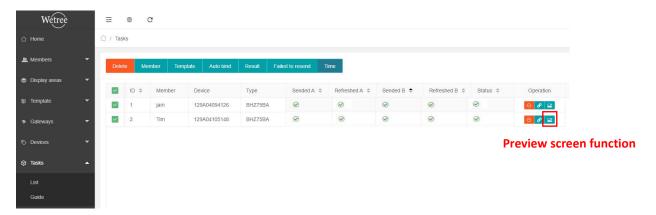


12. Click the triangle drop-down menu and select the template you want to display on the table cards. If the two sides of the table card need to be displayed the same, select the same template as the template for side A and side B. If the display needs to be different, select a different template. If you only want to display one side, select only one template, and then click "Confirm"



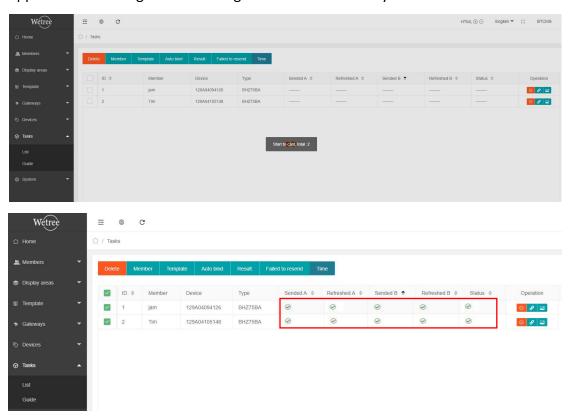
After the template is refreshed to the table card device, the sub-module "List" under "Conference Projection" will display the refreshed record

record. For example: conference room information, conference name, mapping task name, template creation time.



The preview screen function can map the picture on the table card screen to the computer side for users to check and read.

After the template refresh task is released, the user will see the following prompts in turn: "Start projection, a total of n devices" \rightarrow "Send A/B of a certain device has not started sending" \rightarrow "Successful projection, start refresh below" \rightarrow "A" \checkmark " will appear after sending and refreshing the B side successfully.



If it prompts that the image projection fails when the template is refreshed, select the ID of the device to be imaged, and click "Refresh Table Card" again.



Module 8: System Settings

This module is divided into two submodules. A: Gateway OTA B: Signage OTA C: Check the system log (note: the password login module has been cancelled, and the function of changing the password will be removed after the update)

1. Gateway OTA

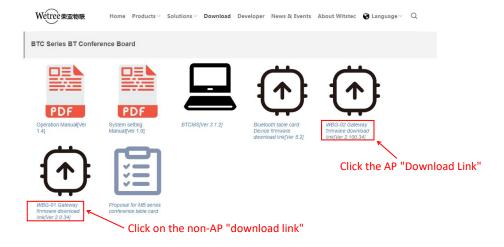
Please go to the official website to download the firmware file before the gateway OTA upgrade

→ BTC series Bluetooth gateway device firmware upgrade and download process:

Step 1: Open the browser and enter https://www.witstec.com/download-2/ to enter the download center of the official website of Witstec



Step 2: Download the BTC series Bluetooth gateway device firmware from the WBG-01/WBG-02 Bluetooth gateway firmware "download link" below the BTC series. There are two types of table board Bluetooth gateway firmware (the firmware of other size devices is the same): both hardwares are the same, but the firmware is different, users can choose different table board Bluetooth gateways according to their needs, defined as WBG-01 (non-AP), defined as WBG-02 (AP). Non-APs cannot be used as APs, APs can be used as APs, and APs can open WiFi hotspots for computers to use.





→ BTC series Bluetooth gateway device firmware upgrade operation process:

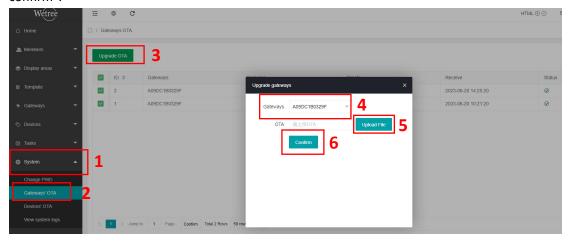
Gateway OTA refers to gateway firmware upgrades. When the gateway function is optimized, a green icon will appear next to the Bluetooth gateway version number. Click the "green arrow icon" to pop up the version upgrade page, and the user can click to add "firmware file" to choose whether to upgrade.

OTA upgrade can perform firmware upgrade in Bluetooth gateway or system setting module:

① Bluetooth gateway module OTA steps: Click "Bluetooth Gateway" → "List" → "Green Icon" → "Upgrade".



②System setting module OTA steps: Click "System Settings" \rightarrow "Gateway OTA" \rightarrow "Firmware Upgrade" \rightarrow "Select the Bluetooth gateway to be upgraded" \rightarrow "Upload OTA file" \rightarrow "Click to confirm".



2. Signage equipment OTA

→BTC series table card equipment firmware upgrade and download process: Step 1: Open the browser and enter https://www.witstec.com/download-2/ to enter the download center of the official website of Witstec





Step 2: Download the Bluetooth table card firmware "download link" below the BTC series to download the BTC series table card device firmware.

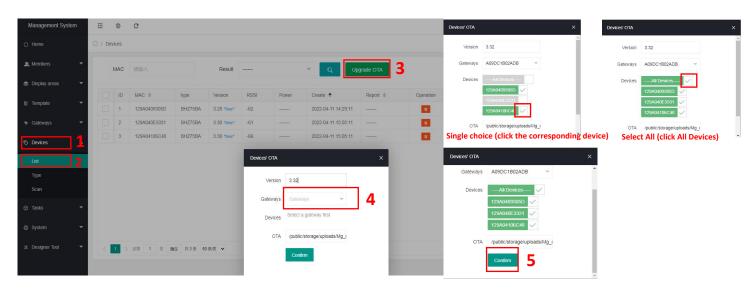


→ BTC series table card equipment firmware upgrade operation process:

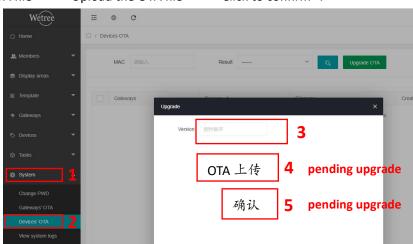
OTA upgrade of signage equipment refers to the firmware upgrade of conference table equipment. When the function of the table equipment is upgraded, "New" will appear next to the version number. Click "Batch Upgrade Firmware" to pop up the version upgrade page, and users can choose whether to upgrade.

OTA upgrade can perform firmware upgrade in the electronic signage or system setting module:

① OTA steps: Click "Electronic Signage" → "List" → "Batch Upgrade Firmware" → "Select Gateway ID" → "Select Device ID" (device ID can be single or all selected) → "Confirm".

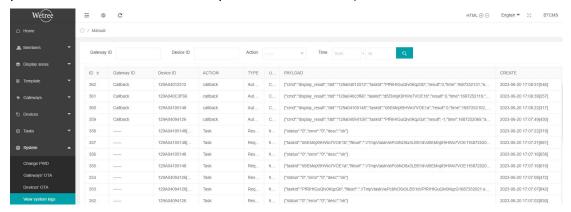


② System setting module OTA steps: Click "System Settings" \rightarrow "Signage Device OTA" \rightarrow "Firmware Upgrade" \rightarrow "Select the signage to be upgraded" \rightarrow "Enter the version number of the OTA file" \rightarrow "Upload the OTA file" \rightarrow "Click to confirm".





3. Check the system log (record the system operation process, used to query the problems that occur when the operation is abnormal)



Note: This version adds "multi-language" and "btcms.exe startup tool" products.

When the functional modules of the system are optimized, we will update the version information. After the user enters the BTCMS management system software, in the version information area on the right side of the homepage, you can view the "upgrade content" and upgrade the system version.

The added "btcms.exe startup tool" supports simultaneous login to multiple systems to ensure that the systems can be started and used normally.