Blind Clock & Pedestrian Crossing Button

SPECIFICATION

Version:V1.0

Digitally signed by Eni Maria
Date: 2024.05.15 08:36:47 EEST
Reason: MoldSign Signature
Location: Moldova

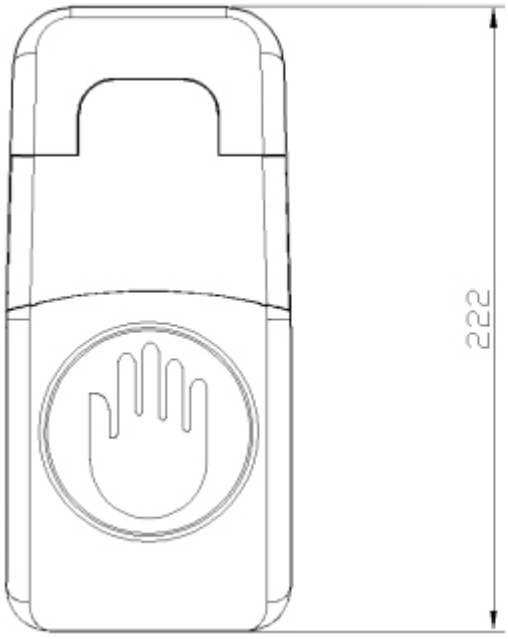
Features:

1. Structure of independent property rights，use ABS / PC injection molding，Support customized shell color and silk screen color.
2. The blind clock and pedestrian application buttons are in one, with touch buttons and infrared sensing buttons available.
3. Multi voltage optional（DC12、DC24、DC36、AC110、AC220）.A variety of voltage types are available.
4. Multi working mode optional（Learning style、Trigger type、Communication type）.
5. Button :can be soak in water & Outdoor & touch type.
6. Centimeter level infrared sensing distance trigger button.
7. Intelligent multi period volume and language control.
8. Support different light color (red, green) tapping sound, voice prompt, voice countdown client-side.
9. Support customized light color full light reminder, text reminder.
10. Client-side settings support 485 interface (PC on Windows) and Bluetooth interface (mobile app).
11. Support customized many language voice prompt, default Chinese and English.

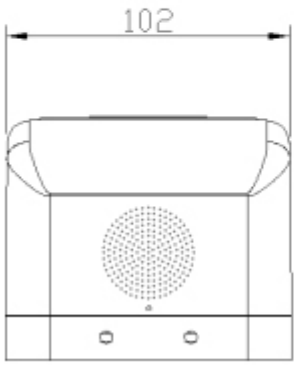
Technical Parameters:

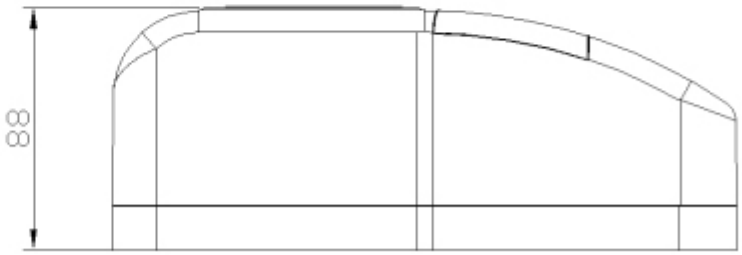
1. Operating Voltage: Multiple voltages are available for choice (DC12、DC24、DC36、AC110、AC220)
2. Overall power consumption: <15W
3. Operating Temperature: -20℃～+70℃
4. Relative Humidity: < 95%
5. Waterproof Grade: IP65

External Dimension:

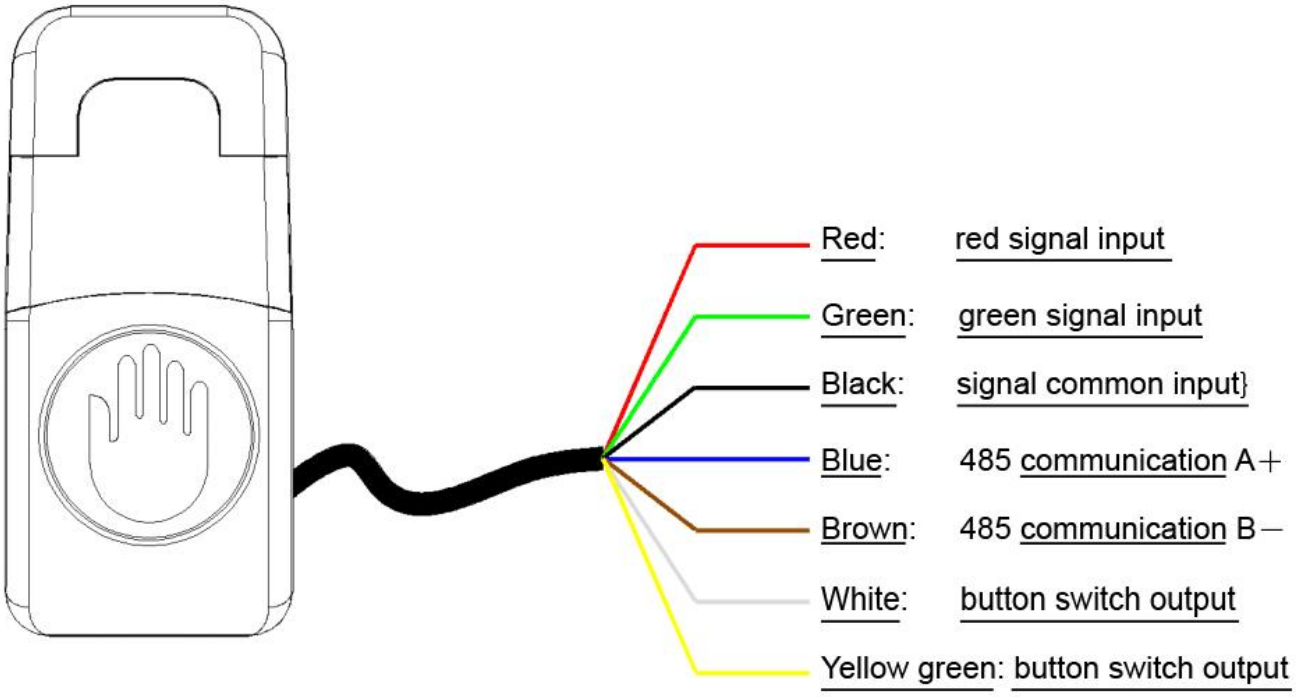


Unit：mm

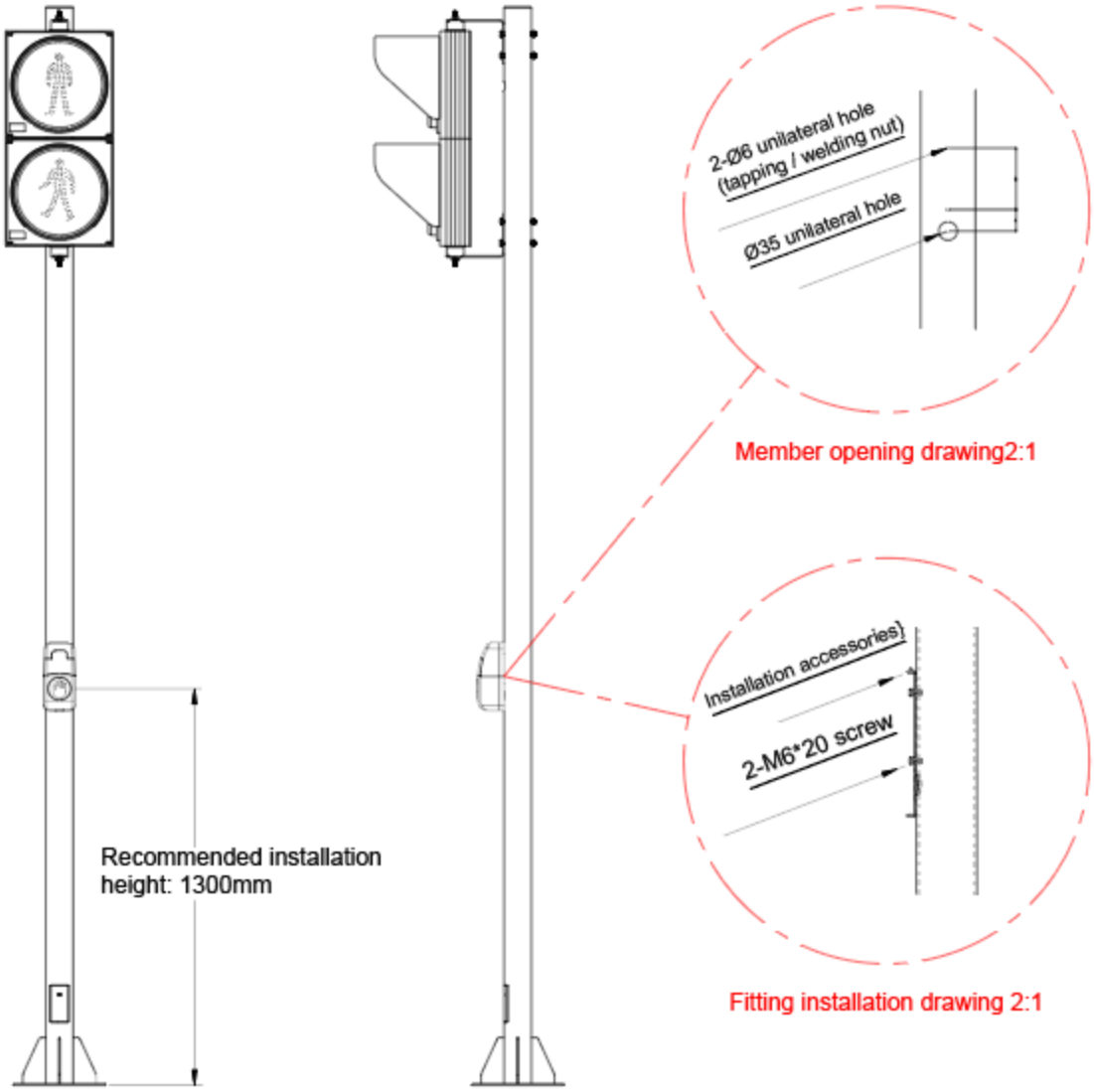




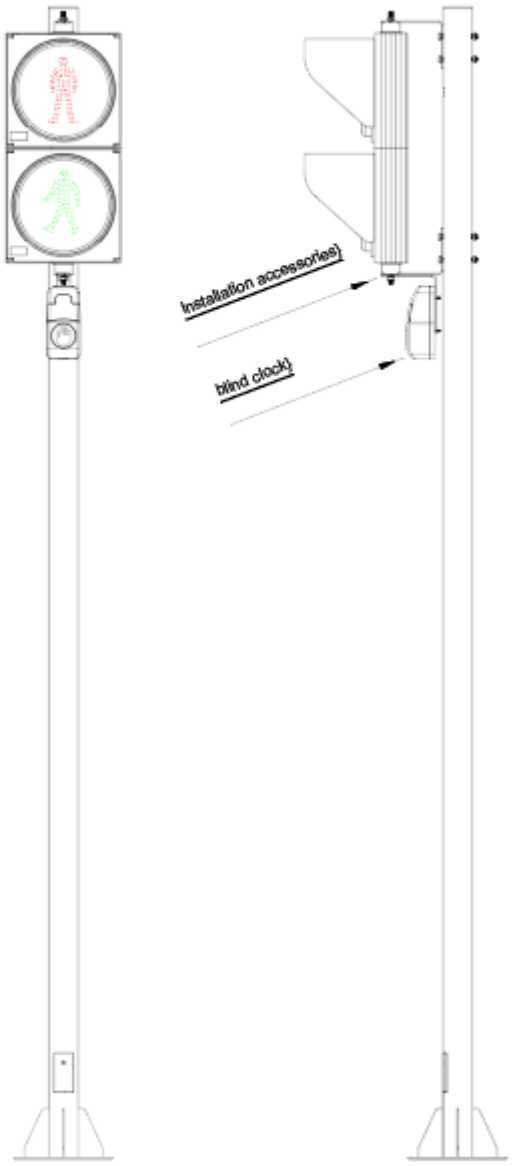
Wiring Diagram:



Installation Mode 1:



Installation Mode 2:



APP Instructions:

1. Application Installation And Start-up:

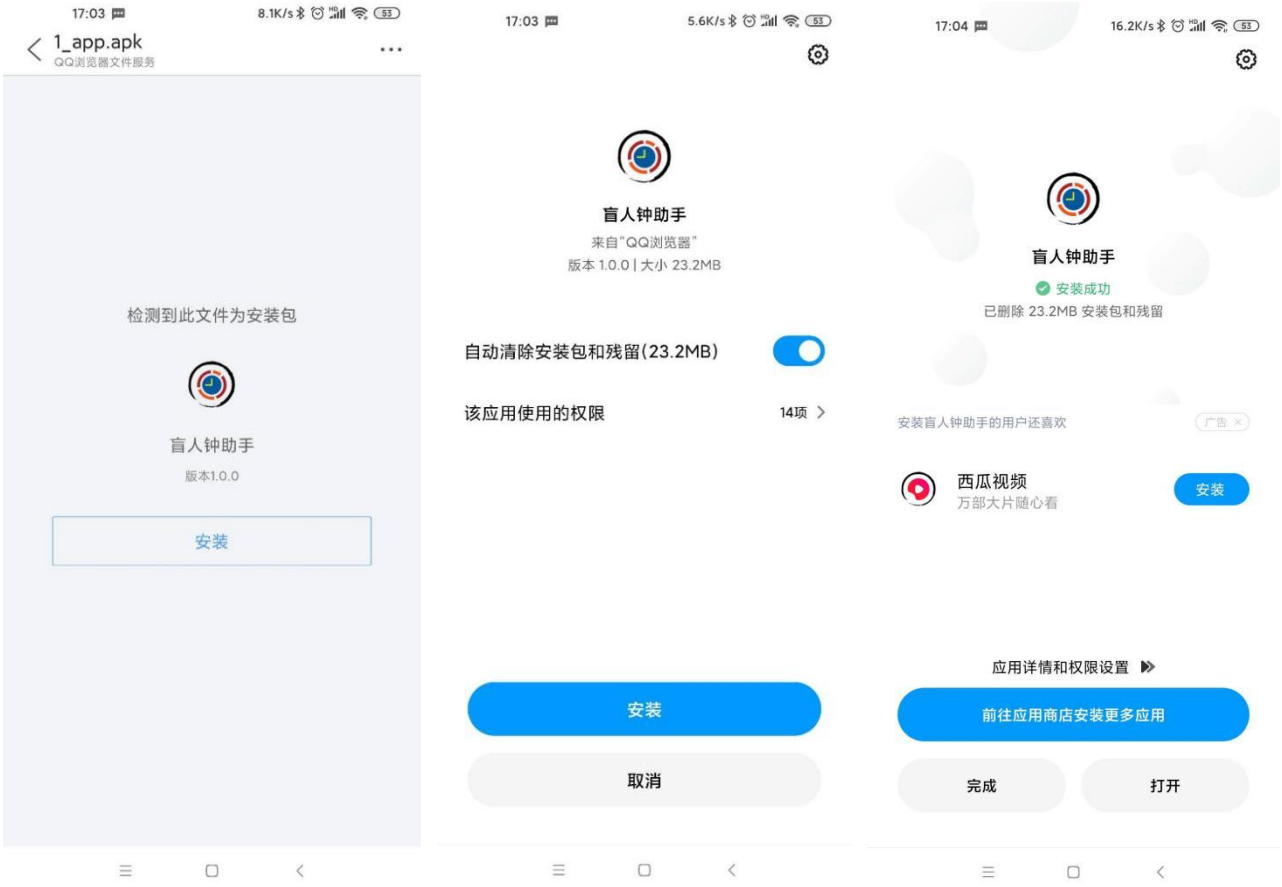
System requirements:

(1) Android version: 7.0 or above;
(2) Bluetooth version: 4.2 or above;
(3) Storage space: over 100M

Application Installation:

Select the installation file of "**Blind Clock Assistant**" to install.
During the installation process, you can choose to delete the installation package after installation and check the permissions of the application, etc.
Some applications recommended by the system or unrelated to this APP during the installation process can be installed or not according to your own requirements.
As shown in the figure below: (The following is the reference for the Display page of Chinese cell phone system. The language display is determined by the language of the cell phone system.)

Launch application installation page **Clear setup to view the permissions page** **Installation completion page**



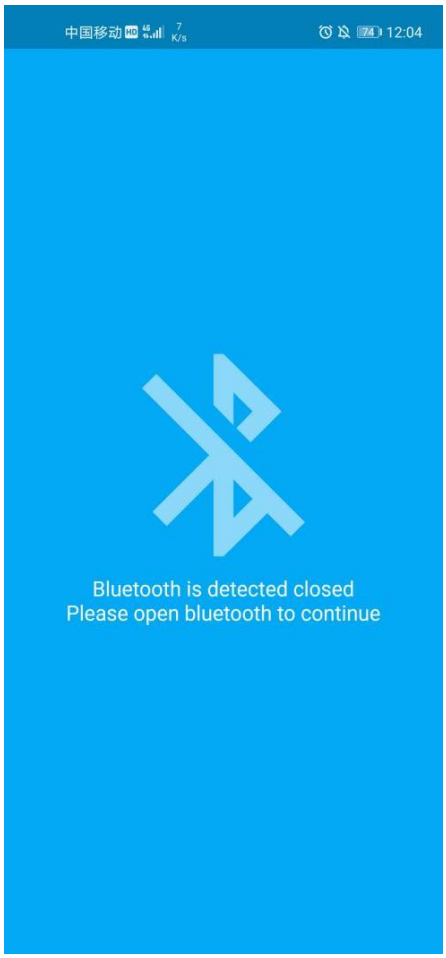
Application Start-up:

The first boot after the application is installed requires access to some devices in the system. The option always allows this reminder not to be displayed on the next boot. After the application is started, it will detect whether the system Bluetooth is enabled or not.

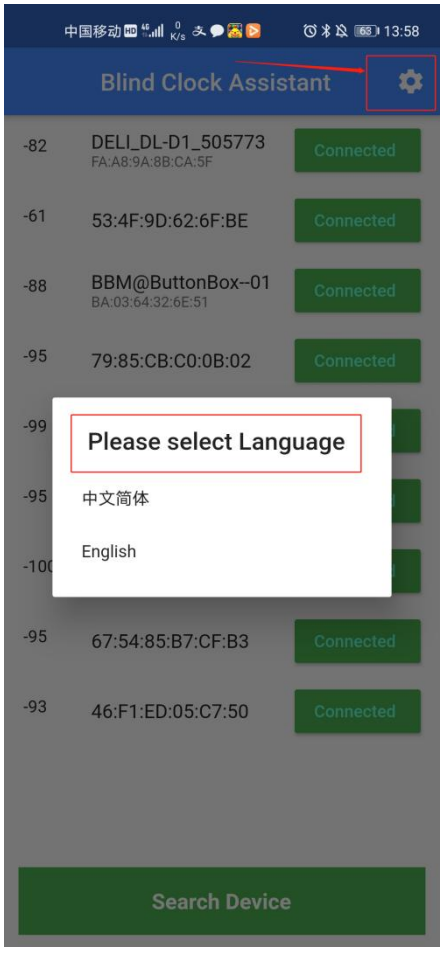
If the system Bluetooth is not enabled, the unenabled Bluetooth page will pop up. After the Bluetooth is enabled, the application will enter the device search page. As shown in the figure below:

Start the get permission page for the first time

It is not enabled by Bluetooth page



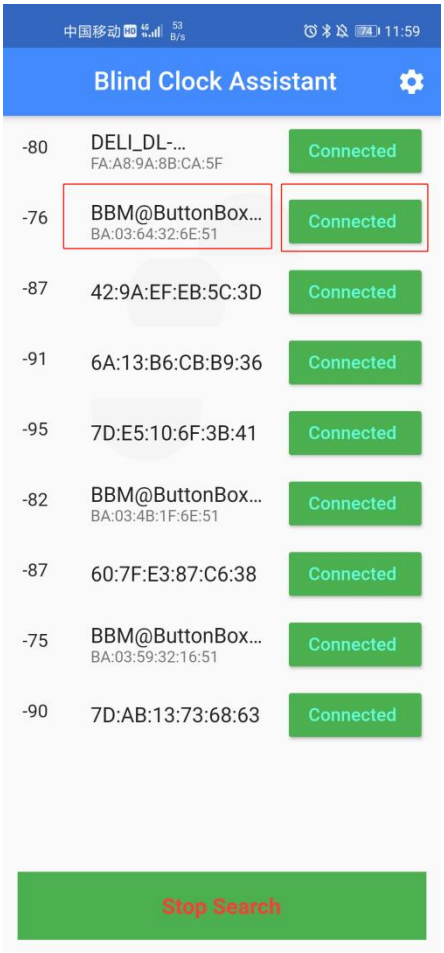
Search device page and select language



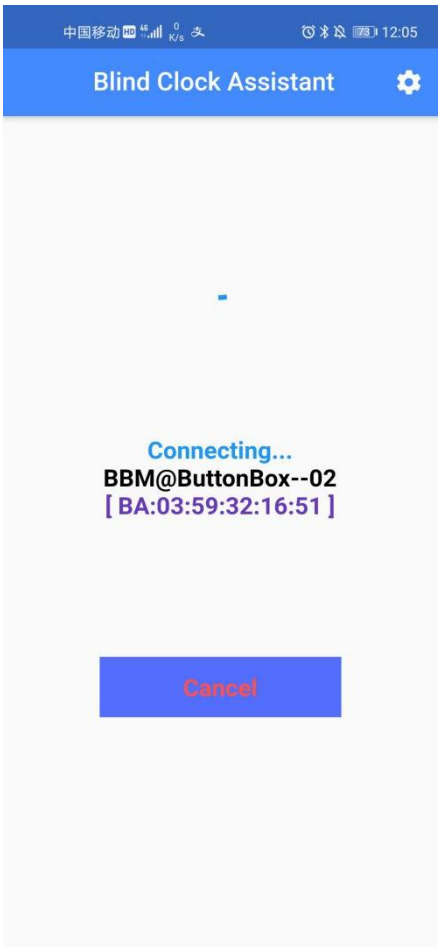
2. Search and Connect Devices:

On the Search Devices page, click "**Search Device**", and the app will search and list all discoverable devices.
The Bluetooth name "**BBM@ButtonBox--****" is the device name of BBM Company.
Click the **"Connect"** to establish a connection with the device you want to configure.
After the device is successfully connected, you will enter the Timeslot config page. As shown in the figure below.

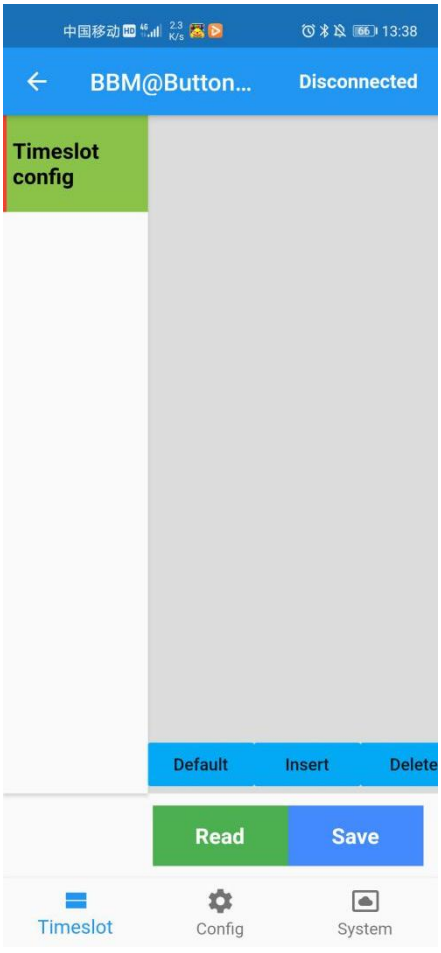
Device List page



Device Connection page



Timeslot config page



3. Timeslot Function Description:

Description of timeslot config:

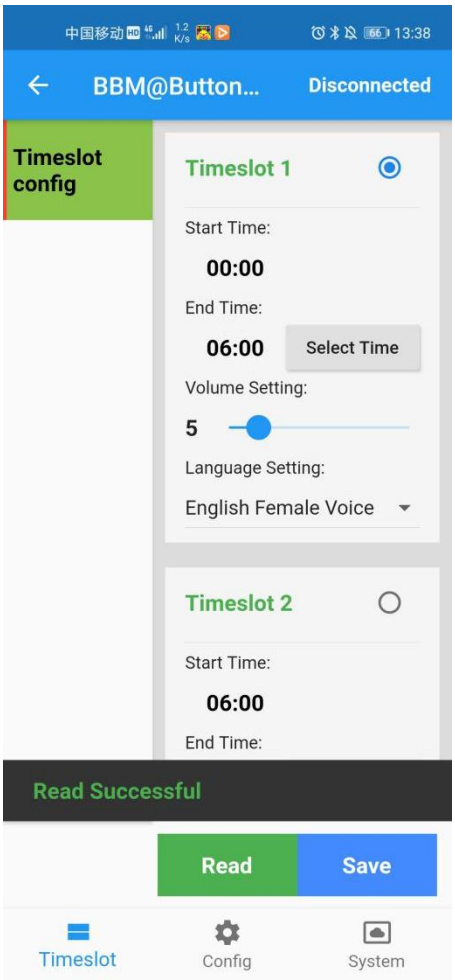
The timeslot is divided into several time periods of a day (24 hours), starting from 00:00 and ending at 24:00, and the end time of the previous timeslot is the beginning time of the next timeslot. You can configure different volumes and languages for each timeslot, The default Settings of the system are as follows:

00:00 --- 06:00 Volume: 5 Language: Chinese Female Voice
06:00 --- 22:00 Volume:25 Language: Chinese Male Voice
22:00 --- 24:00 Volume:5 Language: Chinese Female Voice

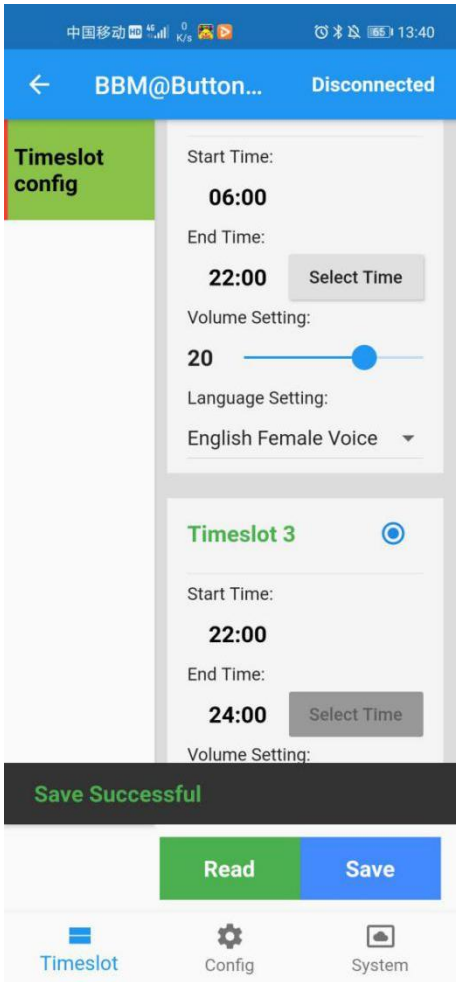
Read and Save Instructions:

Click **"Read"** will read and display the current device's state, and click**" Save"** will send the state set according to the guest's request to the device to save. "Read", "Save" will have failed or success status prompts. As shown in the figure below: (Read and Save: It is recommended to read the original data of the device before config. If it needs to be modified according to your own requirements, click save after modification to be effective. After saving, click read again to display the current modified data. There will be a status prompt after successful reading and saving.)

Read successful page



Save successful page



Default, Insert, Delete Instructions:

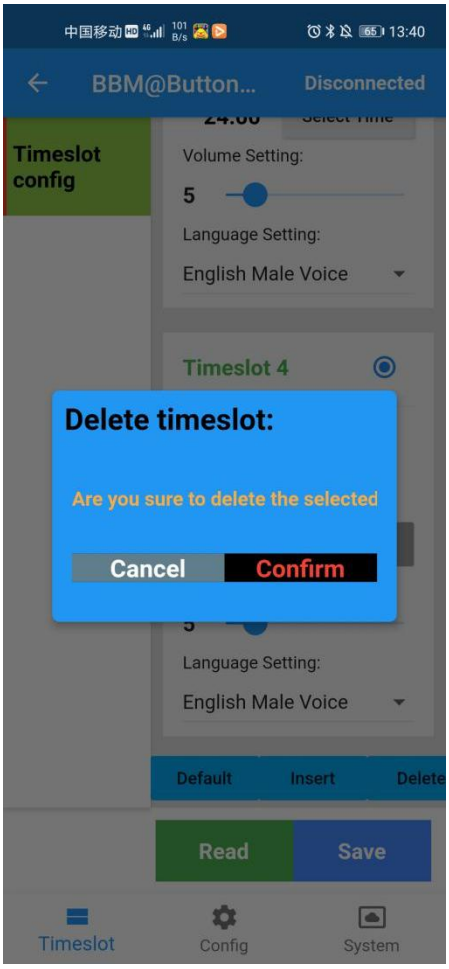
Click **"Default"**, will clears all previously set timeslot states and uses the system default state;

Click **"Insert"** will add a timeslot after the selected timeslot; (Note: click "Save" each time the new state is added or modified.)

Click **"Delete"** to delete the selected timeslot, and the confirmation page of the deletion timeslot will appear. After confirming the deletion, the timeslot will be deleted.

As shown in the figure below:

Confirm the delete timeslot page



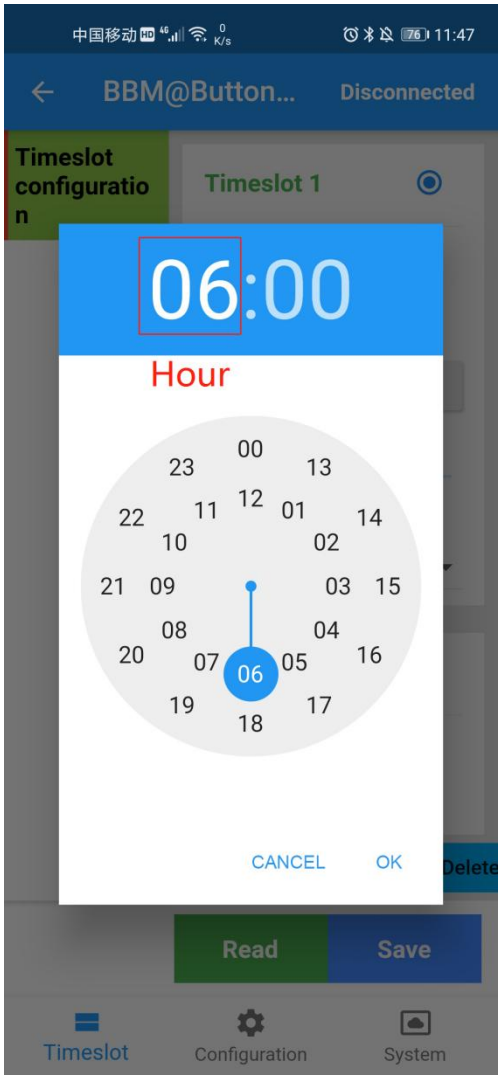
Modify end time in one of the timeslot Instructions:

We can only modify the end time of each Timeslot, and the start time of the next timeslot is determined by the end time of the previous timeslot. After modifying the end time of the last timeslot, the start time of the next timeslot will be automatically updated. The end time of the last timeslot cannot be modified and is fixed at 24:00.

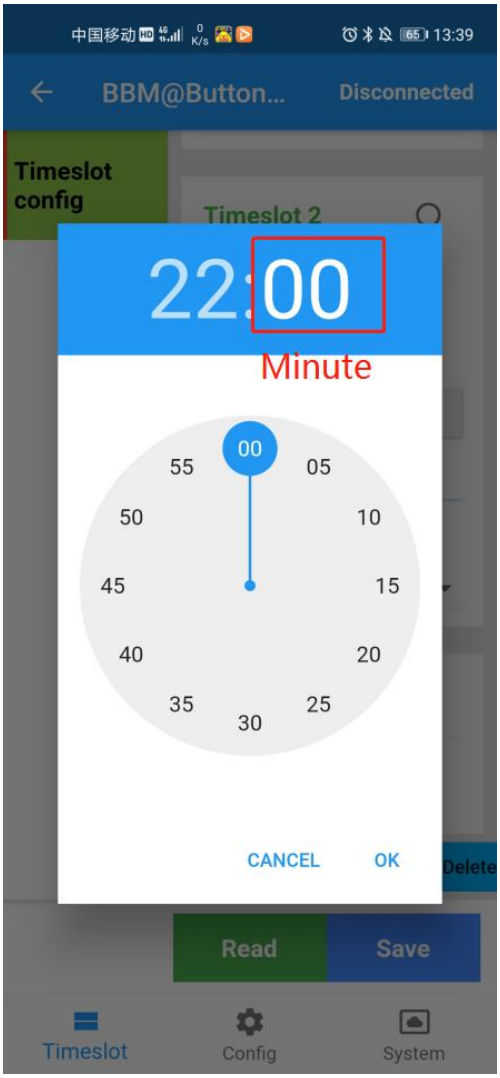
If you want to modify the end time of one of the timeslot, click **"Select Time"** of that session to appear the select Time page, drag the scale pointer or click the number to modify.

Click "Hour" and "Minute" on the page to modify the time. Click "OK" on the page after modification. As shown in the figure below:

Select Hour page



Select Minute page

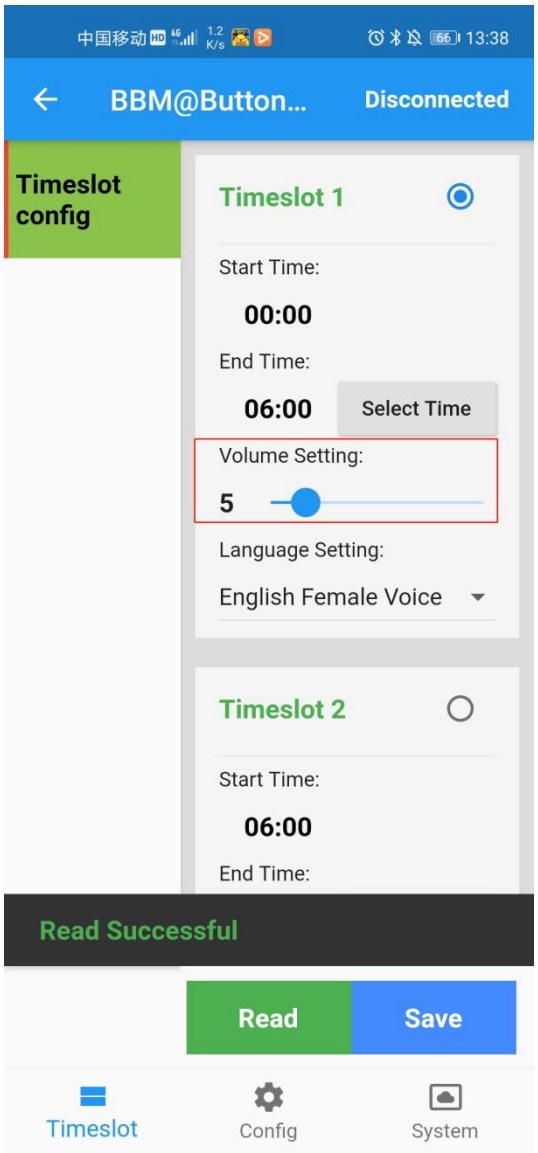


Modify Volume and Language Instructions:

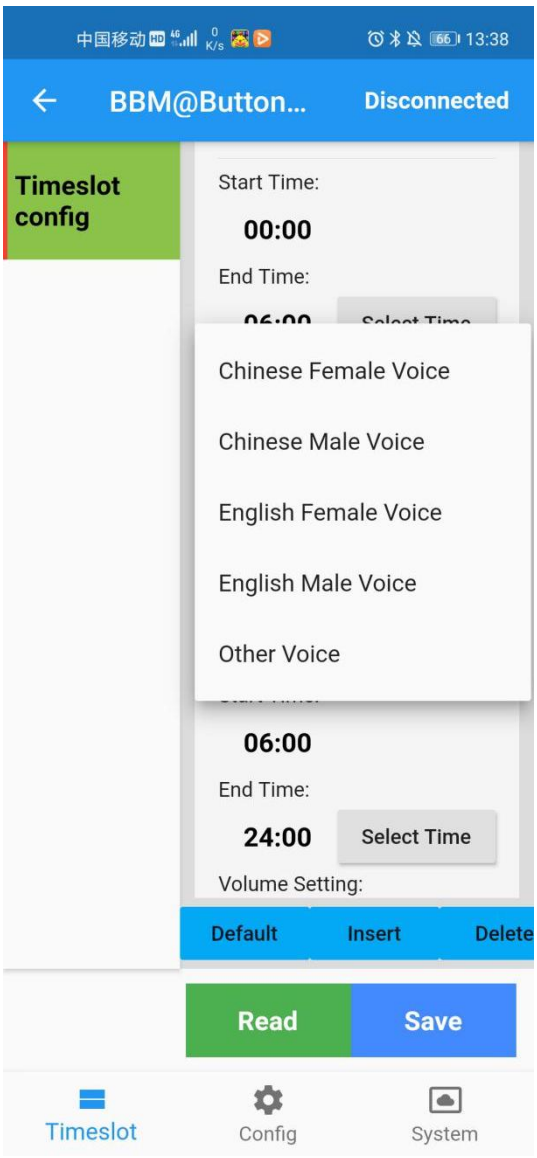
To modify the **volume** of a certain timeslot, directly drag the volume slider to the desired volume value (value range: 0-30).

To modify the **language** of a certain timeslot, click the current language to display the language selection, and select the desired language. As shown in the figure below: (Click "Save" after each modification.)

Drag to select volume



Drop down to select language

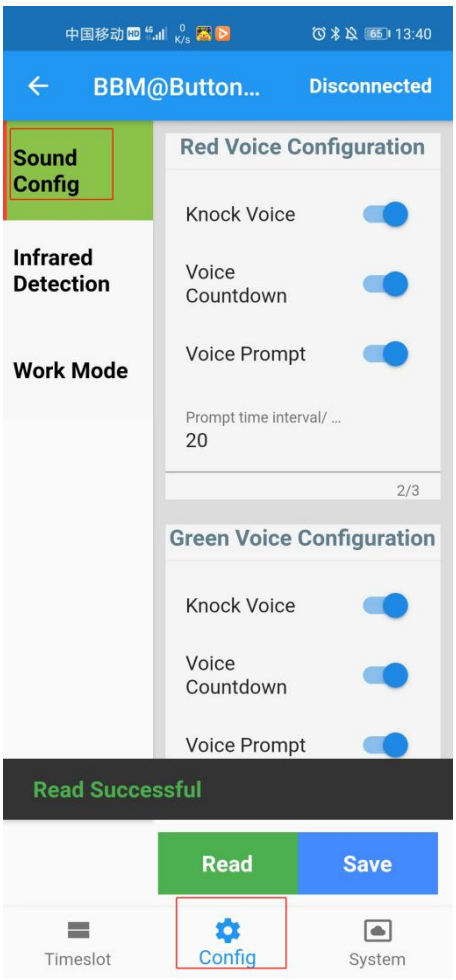


4. Config Function Description:

Sound Config Instructions:

1. On the home page of "Config", the first config is sound config, which is divided into Red voice configuration and Green voice configuration, which can be set in the voice mode under red light or green light respectively.
2. **Knock Voice:** Clicking select will play the knocking voice, if not selected, it will not play the knocking voice.
3. **Voice Countdown:** Click Select and the voice countdown will begin with the last 9 seconds before the end (9-8-7...2-1), if it is not selected, it will not be played.(The time can only be counted backwards from 9 seconds, and those that need other time to count backwards need to be customized).
4. **Voice Prompt:** Clicking select, the voice prompt will be played in the corresponding state (For example, red light, please wait; Green light, please go), do not select or do not play.
5. **Voice Prompt Interval:** After the voice prompt is selected, this time will be effective. The device will play the voice prompt repeatedly according to the set time interval.
6. Read and Save: It is recommended to read the original data of the device before config. If it needs to be modified according to your own requirements, click save after modification to be effective. After saving, click read again to display the current modified data. There will be a status prompt after successful reading and saving.

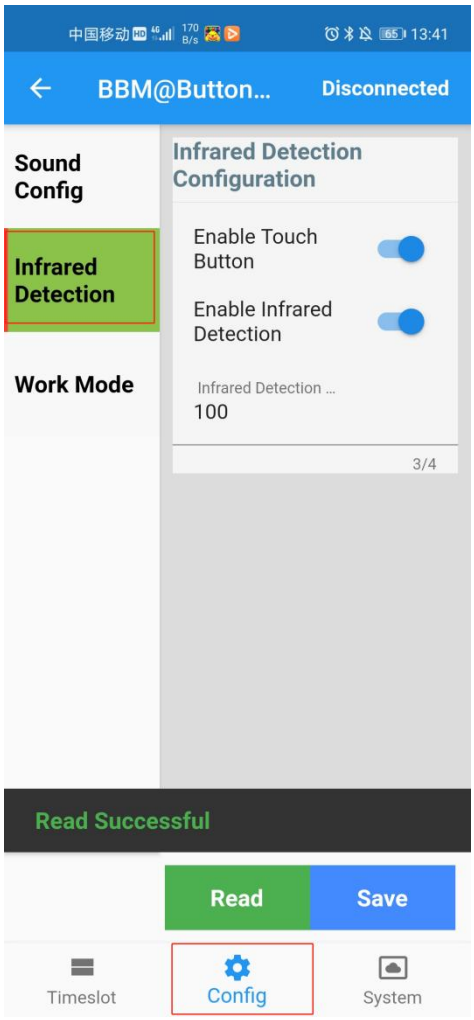
Sound config page



Infrared Detection Instructions:

1. On the home page of "Config", the second config is Infrared Detection, which is divided into three parts: Enabled Touch Button , Enabled Infrared Detection , Infrared Detection Distance.
2. **Enabled Touch Button:** Select to turn on the touch button function, don't Select, is not to turn on the touch button function.
3. **Enabled Infrared Detection:** Select to enable this feature, don't select is not enable its. (This function only works if the device has an infrared laser ranging module)
4. **Infrared Detection Distance:** This part is only effective when the infrared detection function is enabled, and the value range is 0-4000cm. There are two infrared ranging modules of 2000cm and 4000cm, and the setting range should not exceed the maximum distance of the infrared module.
5. If the infrared detection distance is modified in the state of red light, the infrared detection module will be initialized immediately; if the infrared detection distance is modified in the state of green light, the infrared detection module will be initialized after the end of the next red light. (This function only works if the device has an infrared laser ranging module)
7. Read and Save: It is recommended to read the original data of the device before config. If it needs to be modified according to your own requirements, click save after modification to be effective. After saving, click read again to display the current modified data. There will be a status prompt after successful reading and saving.

Infrared detection config page



Work Mode Instructions:

1. On the home page of "Config", the third configuration is work mode, It has three modes: **Learning mode, Trigger mode, Communication mode**, each of which can be configured differently. Need to according to the road intersection controller to choose the appropriate mode of work.
2. **Trigger Pulse Width**: Valid only in Trigger Mode.

In the trigger mode, the junction controller will output the flash pulse width. Please select according to the actual situation. If you do not use the voice countdown, you can ignore this option.

3. **Trigger Start Time:** Valid only in trigger mode

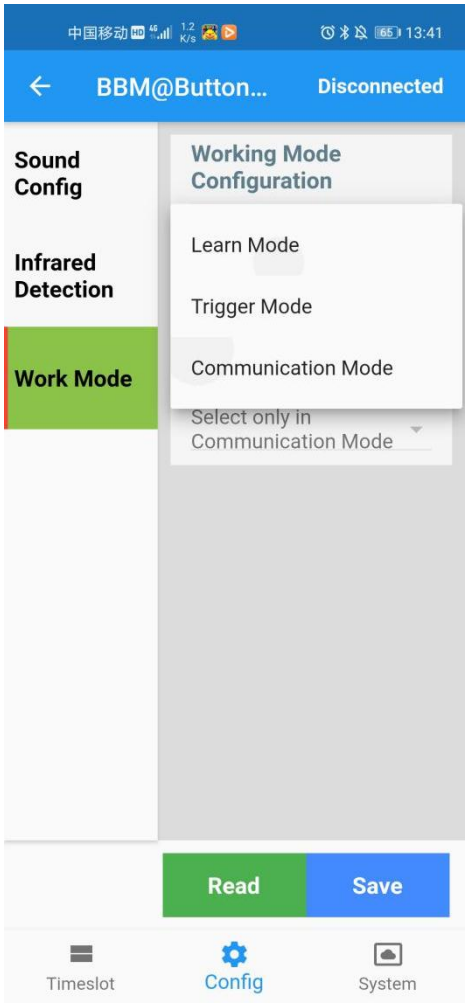
In the trigger mode, the junction controller will output the flash pulse start time. Please select according to the actual situation. If you do not use the voice countdown, you can ignore this option.

4. **Communication Mode Device Address:** Valid only in communication mode.

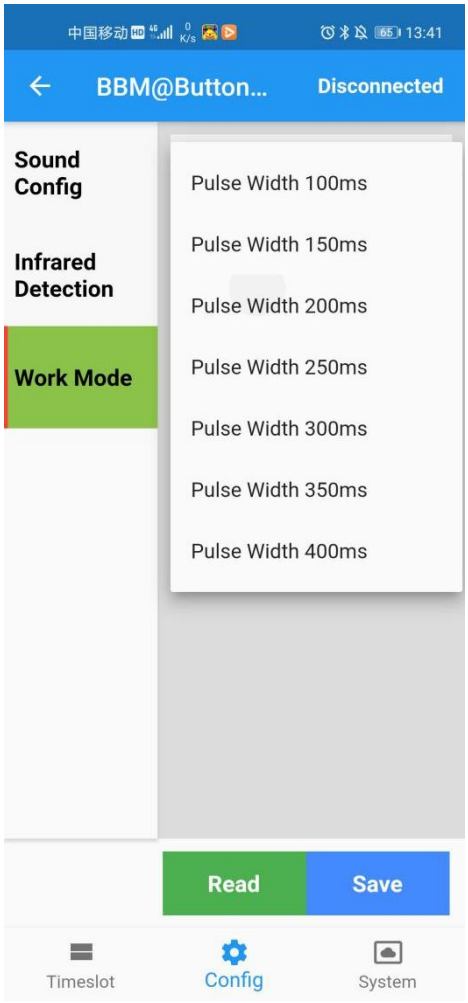
Baud rate of communication mode uses 9600, national standard 2014 single light protocol, which is set to receive the time and status data of a certain light group of intersection control machine.

5. Read and Save: It is recommended to read the original data of the device before config. If it needs to be modified according to your own requirements, click save after modification to be effective. After saving, click read again to display the current modified data. There will be a status prompt after successful reading and saving.

Select work mode

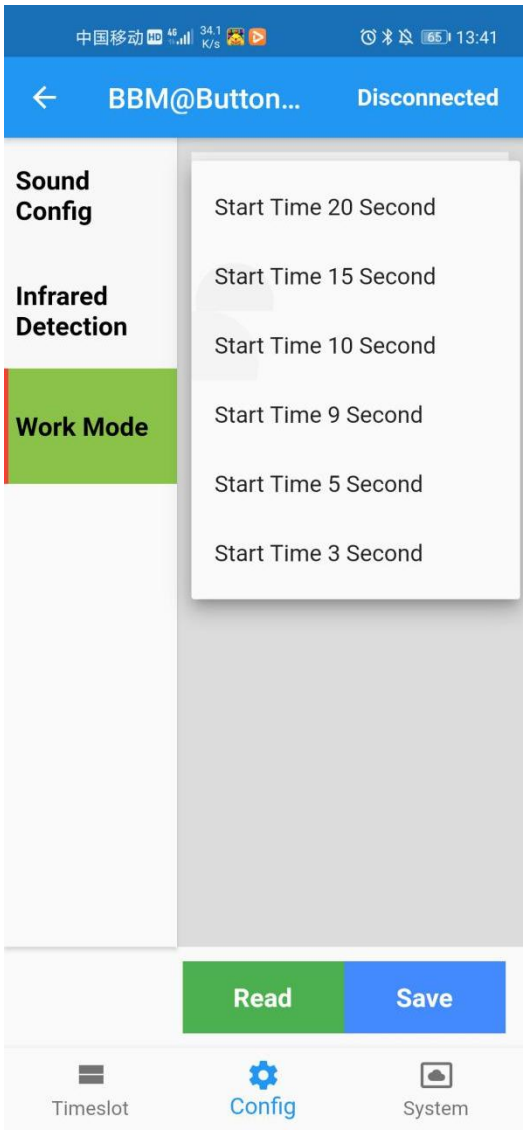


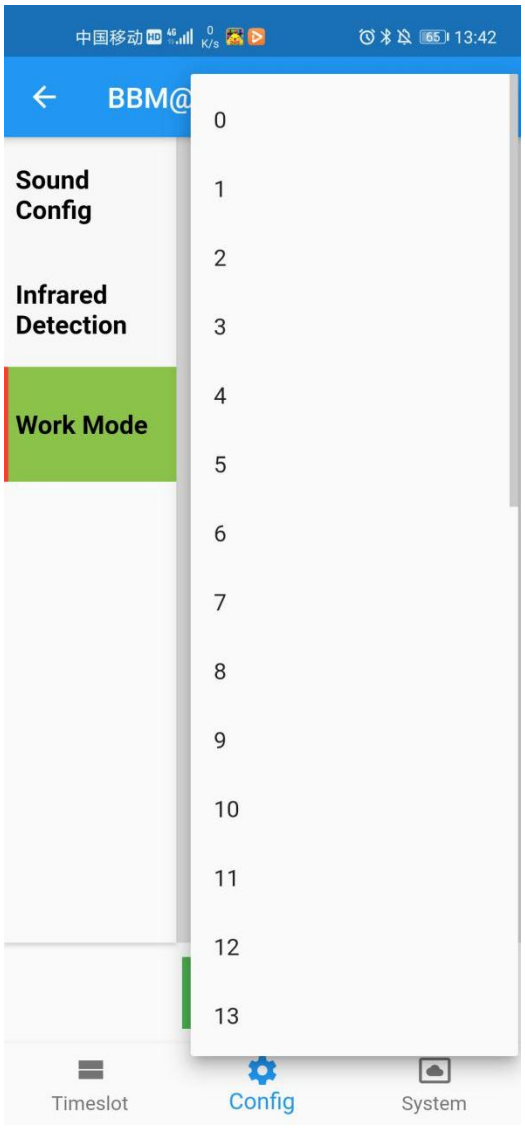
Select the trigger mode pulse width



Select the trigger mode start time

Select the communication device's address


中国移动
13:41
BBM@Button...
Disconnected
Sound Config
Infrared Detection
Work Mode
Start Time 20 Second
Start Time 15 Second
Start Time 10 Second
Start Time 9 Second
Start Time 5 Second
Start Time 3 Second
Read
Save
Timeslot
Config
System

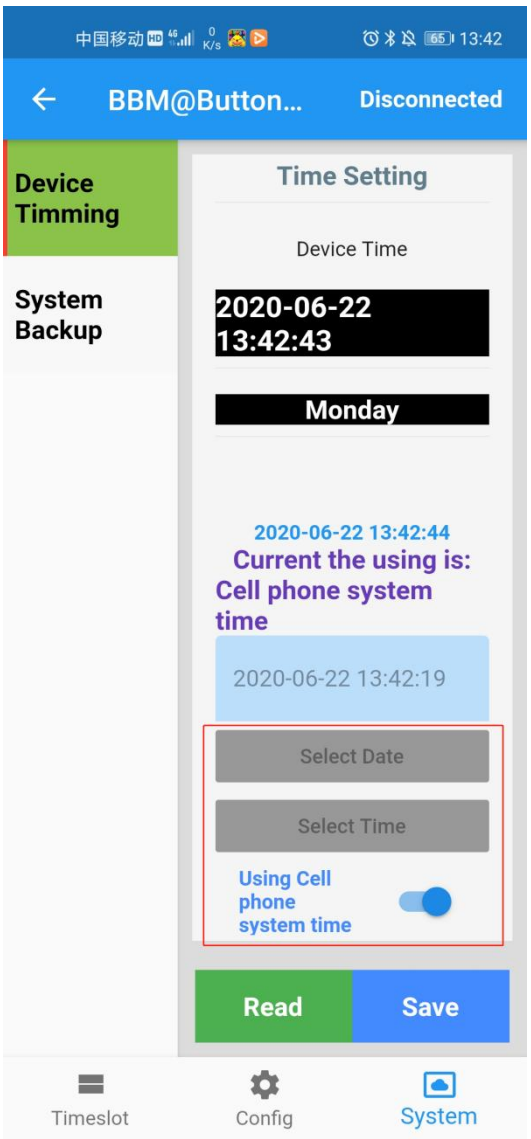

中国移动
13:42
BBM@
Sound Config
Infrared Detection
Work Mode
0
1
2
3
4
5
6
7
8
9
10
11
12
13
Timeslot
Config
System

5. System Description Function:

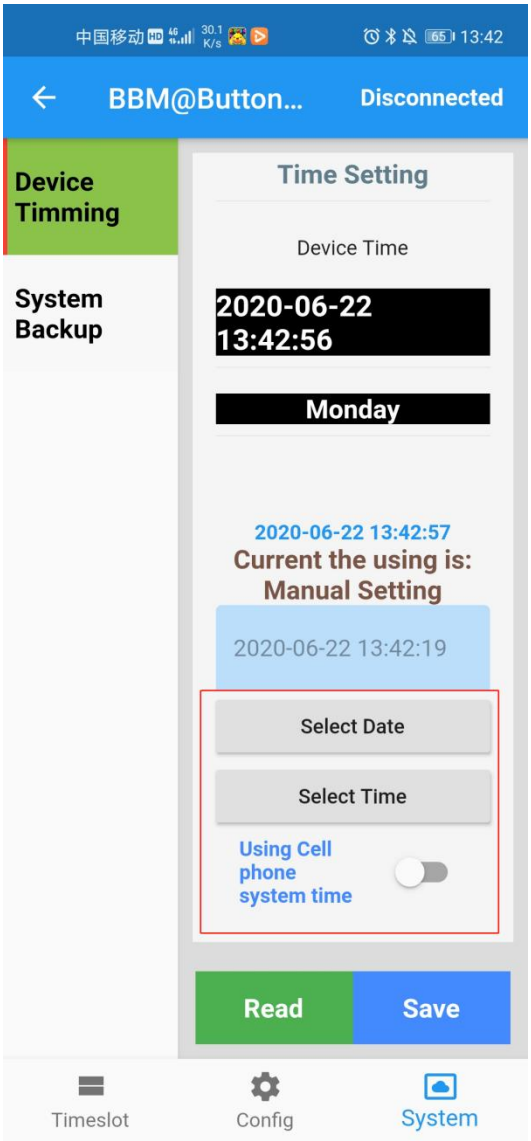
Device checking time:

1. Click "System" to switch to the home page of the system. The first part is Device Timming.
2. After the time is set, the device will adjust the data of the corresponding time to run according to its own clock, There will be errors in the device clock. If need the time very accurate, it is recommended to check once a month.
3. The default is to use cell phone system time. If you want to change it to other time, turn off the option of using use cell phone system time and manually select the date and time.

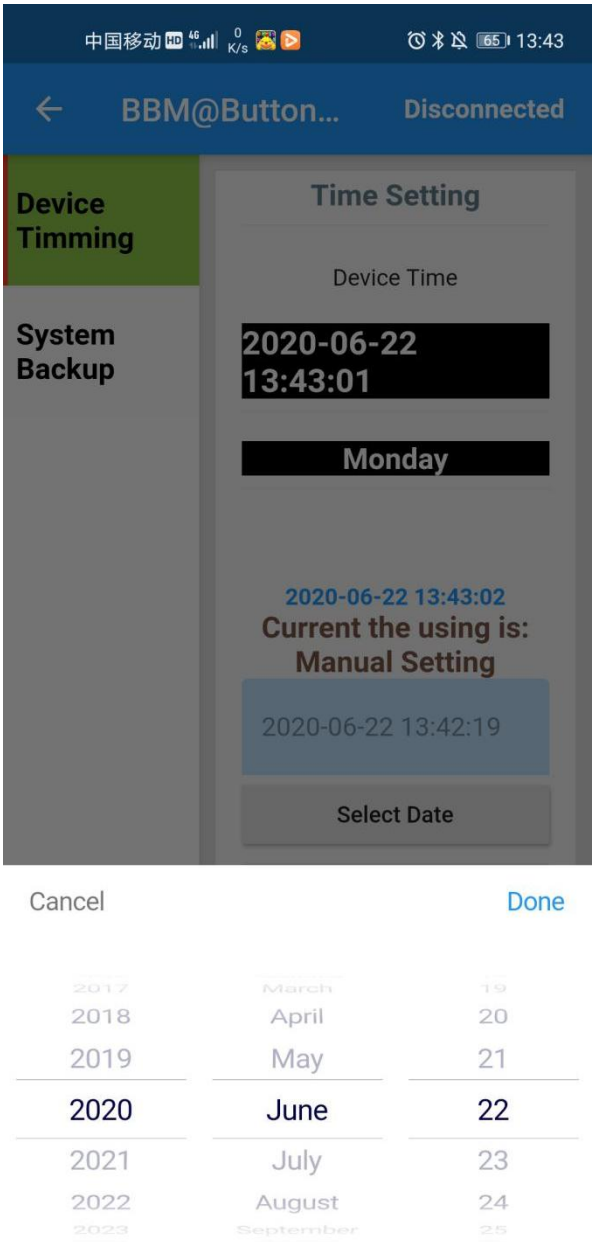
Select to use your cell phone system time



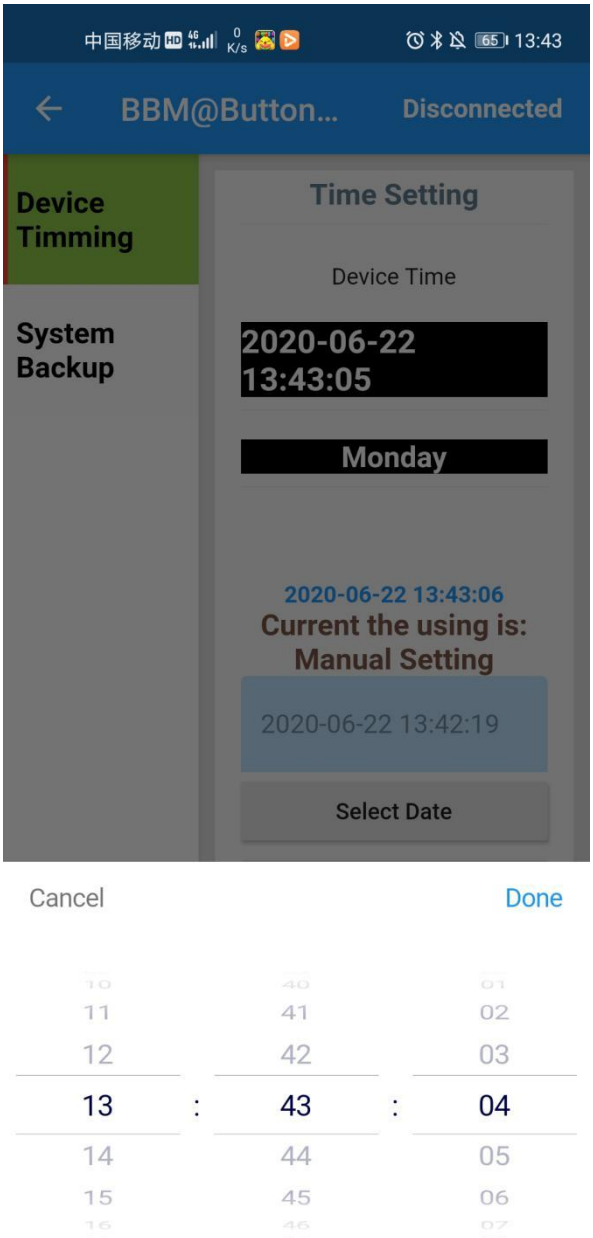
Don't Select to use your cell phone system time



Manually select the date



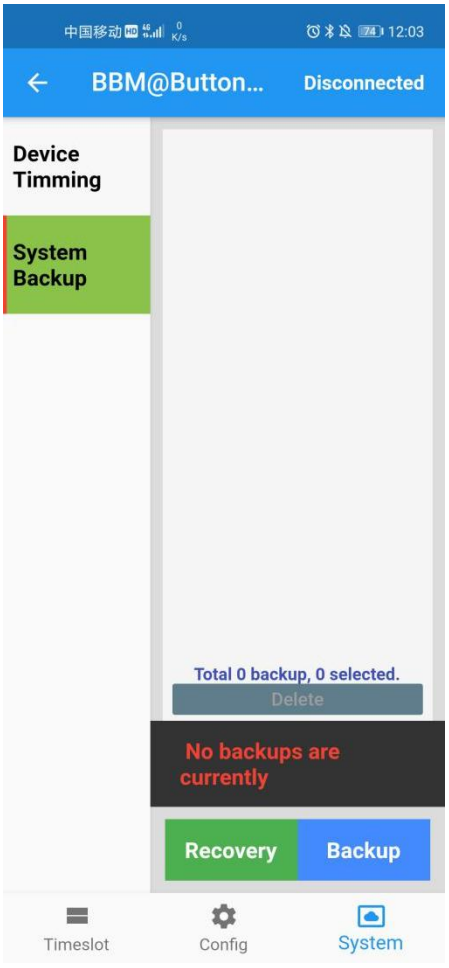
Manually select the time



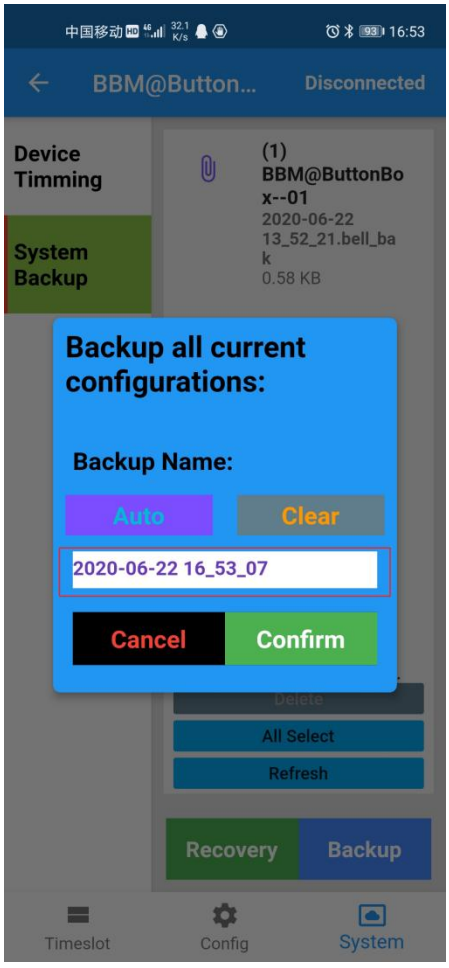
System Backup:

1. Click "System" to switch to the home page of the system. The second part is System Backup.
2. **Backup:** When all the Settings for the device you are connecting are complete, clicking "Backup" will save all the data for that device. The backup list name appears on the list and can be modified to suit your needs.
3. **Recovery**: If the APP system is set up with backup, clicking will enable the device to use the backup function. (Means When the connected device is replaced later, if the setting requirements are the same as before, you can choose to backup the file and click the “Recovery” to complete the copy at one time, without requiring each function setting.) Special note: Device backup and recovery does not include clock data, which should be configured separately.
4. **Refresh:** If the system has backup Settings, click to display the backup list.
5. **All Select:** All backups in the list can be selected.
6. **Delete:** Select the backup in the list and confirm that it will be deleted.

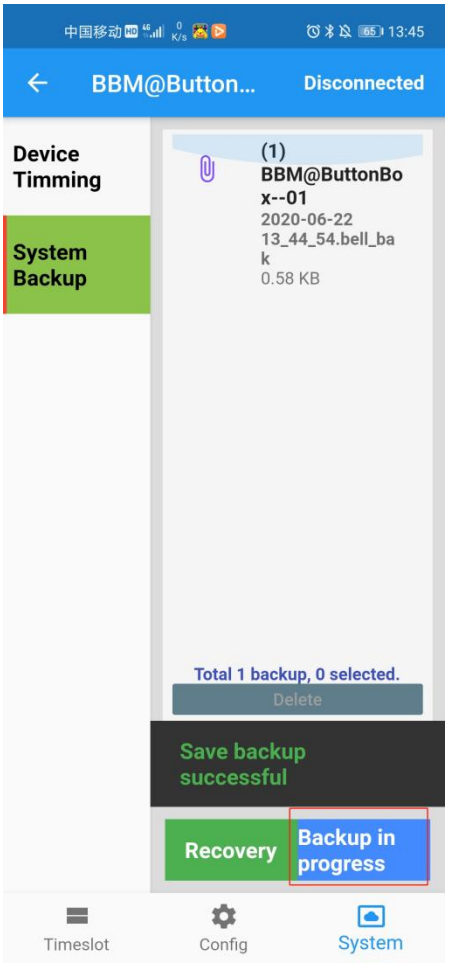
No backup page



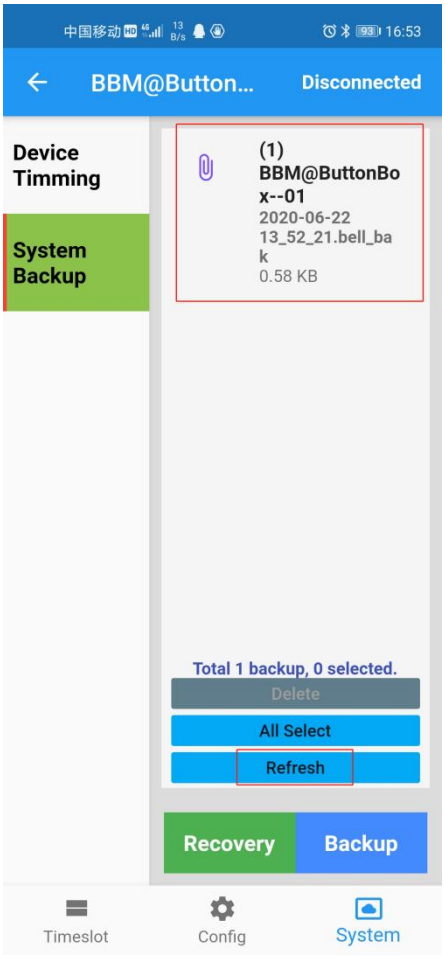
Set up a backup name page



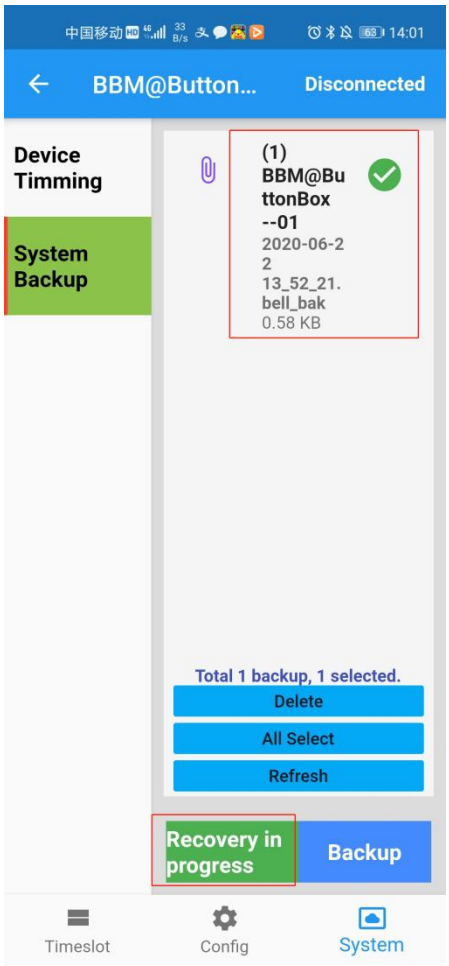
Backup setup success page



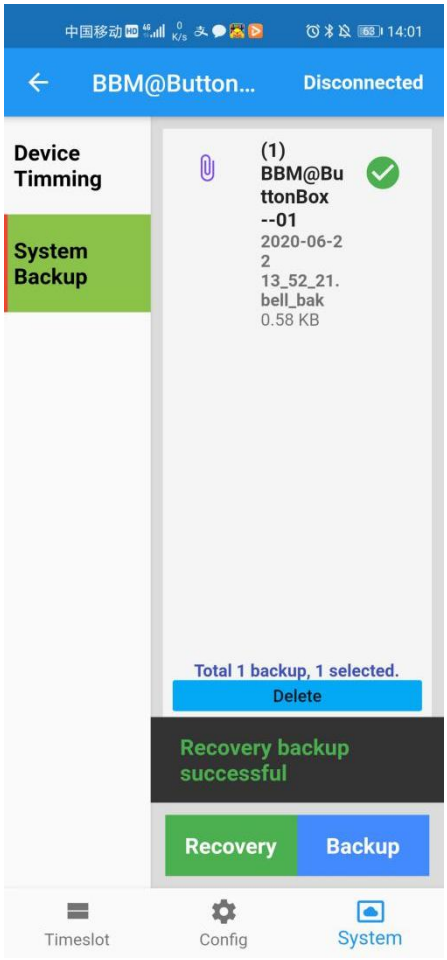
Refreshed page



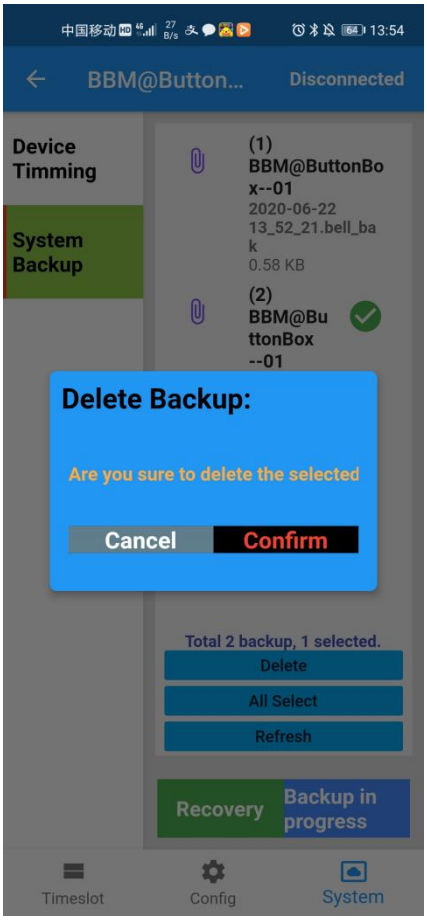
Select recovery in progress



Recovery setup success page



Delete backup page



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