

Hytronik Lighting Controls with



Wireless 4 Mesh Network Technology



Interior App

Software User Manual

Lighting Control With  Bluetooth® Wireless Technology

HYTRONIK®

Interior App User Manual

* Hytronik reserves the right to change without notice.

This user manual refers to the Hytronik configuration tool described as the “Interior” App, which may be downloaded from the App Store for iOS based devices. Before downloading, please ensure your device is compatible:



iOS 9.0 Operating system or later



Android 5.0 Operating system or later

There may be several Hytronik App's found when searching the store, so please ensure the correct and latest version is downloaded and installed with the following desktop icon:



The App is free of charge to download and install.

It is strongly recommended that this user manual is read and fully understood before attempting to commission any Hytronik wireless lighting control system.

Before you start...

Before attempting to create your wireless network, please check:

The nodes have been installed by a qualified electrical engineer and are powered on.

The connected light fixtures are operational in situ before adding them to the network.

Adding and removing nodes to an existing Bluetooth® network is a simple process via this app and it is not necessary to attempt to commission the entire installation at one time.

Install and open the App!

If this is the first time you have used Hytronik wireless controls, you will need to set up a super user or Installer account. The account type may be changed later as required. Below is a brief description of the account types and a quick guide to choosing the correct account type.

Super user Account

An account is required to store your network information on the local device to which the App is installed and to a cloud service to provide back-up. The cloud service is also used to provide the sharing of your 'live' lighting settings with other users or installers. An internet connection is required to complete this process.

By choosing a super user account, you will by default be designated as the 'owner' of any new networks you create. This account is the top level account and is intended for the property owner. The super user' account can manage permissions for other basic 'family member' accounts and can transfer ownership or invite other installer accounts.

Family member account types are automatically created when a network super user shares their network to another smart device. Further details can be found in Section 3 of this guide.

Installer Account

This account type is intended for electrical contractors and commissioning engineers. This account will allow full access to the features of the App to set up the network and lighting controls on behalf of their client. When the work is completed, he may transfer the network details to a super user account on the client's smart device.

Which account type do I need?

Are you:

- 1) The owner or occupier of the building, your smart device will be used to control the lights and you intend to set up and commission the lighting yourself?
- 2) The owner or occupier of the building, your smart device will be used to control the lights and you intend to use a contractor to set up the lighting on your behalf?
- 3) An occupier of the building who wants simple daily control of the lighting using your smart device?
- 4) A contractor who will set up the lighting of the installation first, and will transfer the network to the smart device of the owner/occupier of the installation at a later date?

If your requirement is 1) you should choose the 'Super user' account type.

If your requirement is 2) You should choose the 'Super user' account type and invite an installer as per section 3 of this guide. It is recommended that you do not attempt to search or add any devices, as it may prolong the commissioning process for the installer if he needs to undo any incorrect settings or reset devices.

If your requirement is 3) You should choose the 'Super user' account for sign-up purposes. You then may get a network sharing key or QR code from the super user of the network as per section 3 of this guide. You will automatically be assigned a basic 'Family member' account for their network.

For option 4) You should choose an 'Installer' account. Your client should open a 'Super user' account to receive the transfer of the network as the new owner as per section 3 of this guide.

A comparison of features and permissions is given on the next page...

Account Type Comparison

| Feature | Account Type | | |
|---------------------------------|---------------|-----------|------------|
| | Family member | Installer | Super user |
| Account Management | | | |
| Accept or Transfer Ownership | X | X | ✓ |
| Invite Installer / Super User | X | ✓ | ✓ |
| Create Regular Users | X | X | ✓ |
| Manage User Permissions | X | X | ✓ |
| Network/Hardware Setup | | | |
| Search / Add / Remove Devices | - | ✓ | ✓ |
| Network Management | - | ✓ | ✓ |
| Manage Rooms | - | ✓ | ✓ |
| Configure Switch Ports / Panels | - | ✓ | ✓ |
| Configure Device Settings | - | ✓ | ✓ |
| Software Set-up | | | |
| Set Vacation Mode | - | ✓ | ✓ |
| Scheduling / Bio-alarm | - | ✓ | ✓ |
| Scene Creation | - | ✓ | ✓ |
| Circadian Rhythm Setup | - | ✓ | ✓ |

Key:

✓ = Account always has permission.

- = Managed permission by Owner.

X = Feature disabled in account type.

By default, all accounts (including basic user) may operate lights from the APP which are already set-up in the network:

On/off control
 Dimming control
 Color temperature control
 Recall scenes.

When you have successfully logged into your account, you will be prompted to turn on your device's bluetooth connection if it is not already enabled. If you are connecting to an existing network, the APP will automatically attempt connection to the most recent. If you have installed the APP for simple control of an existing lighting system, you may skip to section 3.3: Network Management to learn how to add your device to the network using a QR code or network sharing key.

If you are creating a new network, the following sections of this manual contain information in how to set-up and maintain your Hytronik  Bluetooth® wireless lighting controls.

Section 1: Commissioning the devices (creating the mesh network). Please see Annex A and B for supported devices list and system capacity.

- 1) Search for Hytronik  Bluetooth® enabled devices.
- 2) Name the device to add them to your wireless network.
- 3) Place the new device in a logical 'room'.
- 4) Configure the mode of operation for the device (load type).

Section 2: Features and Functions Settings. Please see Annex C for device memory capacity.

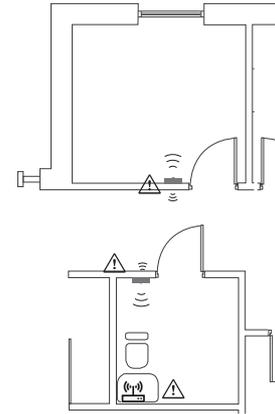
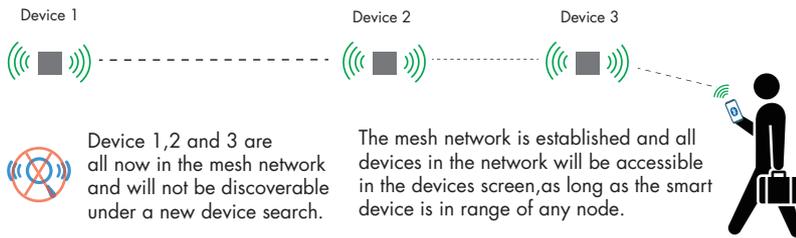
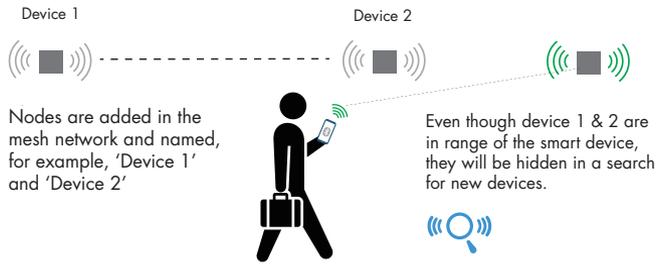
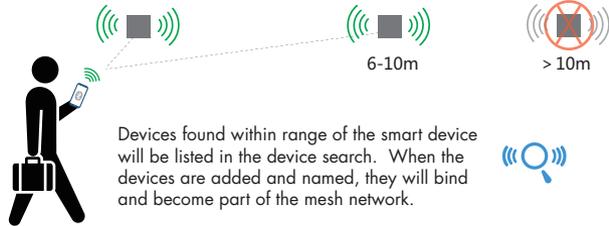
- 1) Complete hardware configuration for device settings and switch inputs.
- 2) Create scenes.
- 3) Schedule automated lighting patterns around your day.
- 4) Bio-alarm.
- 5) Holiday mode.
- 6) Circadian rhythm settings.

After this set-up is complete, the lighting can simply be used by the click of the wall switch or the App user interface.

Section 3: Network Maintenance and Account Administration

- 1) Manage Users
- 2) Network Settings
- 3) Network Management.
- 4) Account Settings

Basic Principle of building the Hytronik Bluetooth® enabled mesh network.



Notes:

The range for which a smart phone can communicate with the switch points will vary from model to model and is dependant on its Bluetooth® capability.

Device placement will also effect the smart phone communication range and may appear different for each switch position.

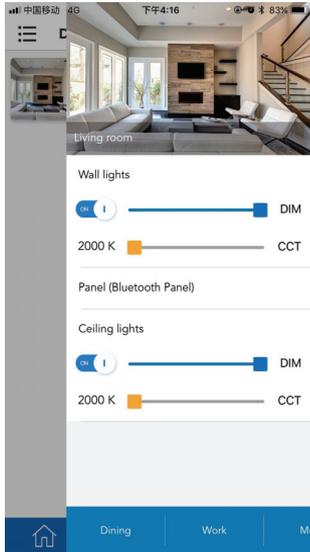
Finally, other environmental factors (as above) will influence the ultimate achievable range of communication between smart phone and luminaire device.

Please refer to the hardware datasheet for further details.

Home Screen Navigation

Network Settings
Covered in section 3

Tap a room picture to access individual light controls for the room (or groups if multiple lights are connected to a single device)



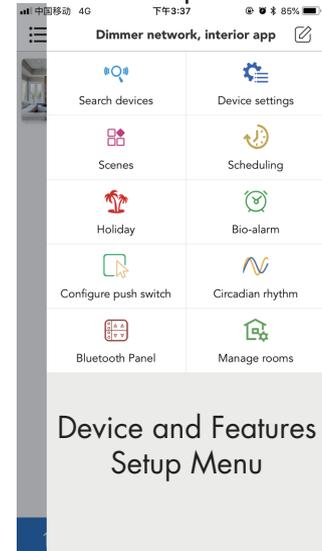
Any scenes created for the room are also available for selection here.



Rooms overview and live global control

Navigation bar

Home (This screen) Manage Devices Menu Scenes Menu Account Management



Section 1: Commissioning the Network

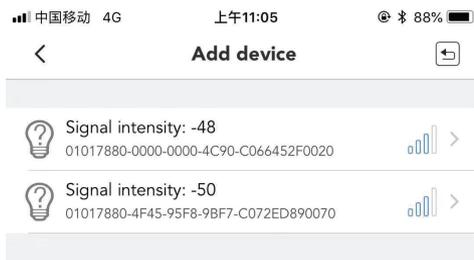
① Search Bluetooth® Enabled Devices

Select  → 

or  → 

The device search will start immediately. Please allow up to 1 minute for the search to complete. The devices are listed in order of signal strength, however please be aware this may not always be the closest device to you. After the device is selected you may identify the connected lights as below.

② Identify and Name the Device

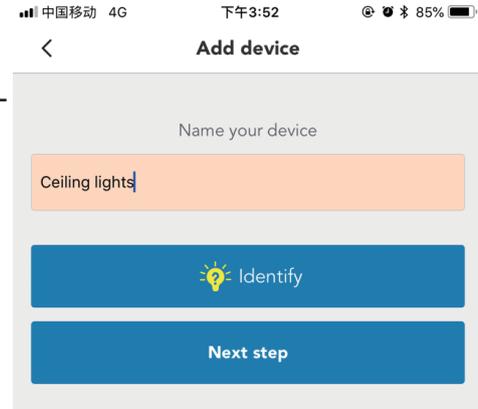


Tap on a device to begin adding it to the network.

It is NOT recommended to use the '<' (back) button at this point*

*Even if the device identified isn't the one you expected, it is recommended to complete the following 2-step process and amend it in further detail later.

Pressing the back button will leave the device in a state where it will need factory reset as described in section 3.4 of this user guide (requires the power supply to the device to be cycled).



Identify the device to confirm its location, the connected light(s) will flash.

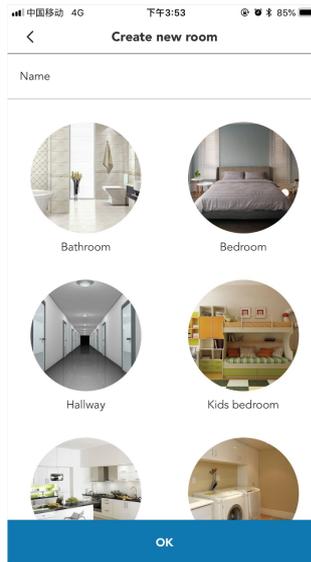
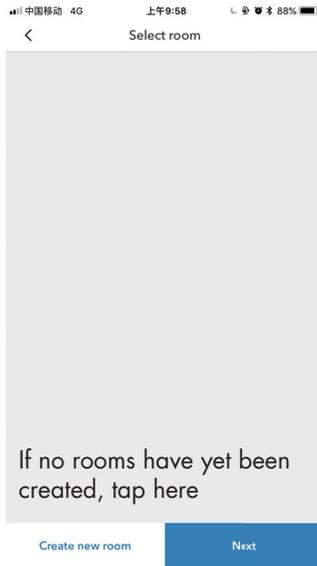
Name the device* and press Next to continue.

*Tip: If multiple lights are connected to the device, you may want to consider using a name descriptive of the group's function, such as in this example.

③ Add the device to a 'logical' room

After the device has been named, you will be prompted to add it to a 'room'. Enter a name for the room and select a typical picture which best fits the room description.

The room will automatically be named, depending on the room type chosen. Tap here to re-name it if required.



Select the room picture which best fits the installation

Save to continue

Press next to confirm room selection

- ④ Configure the basic load type for the connected lamp/driver combination.
The options displayed will be dependant upon the device type detected:

DALI Version (HBTD8200D)

中国移动 4G 下午4:58 91%

< Type of light

Please select the correct option according to the device's different models or labels
If you select the wrong option, it may cause the device to run abnormally

Adjust dimming level ✓
Only adjust dimming

Colour tuning & dimming
Adjust colour temperature and dimming

Switch type
On(100% dimming) / Off

Next step

Select for on/off and dimming control.

Select for on/off, dimming and color tuning control.
Requires connection of DALI DT8 compatible drivers to the DALI connections.

Select to operate the fixture only as an on/off light
The 'on' mode will always assume 100% light output.

Trailing Edge Version (HBTD8200T)

中国移动 下午2:04 35%

< Load type

Please select the correct option according to the device's different models or labels
If you select the wrong option, it may cause the device to run abnormally

Trailing edge ⚠️
Trailing edge dimming

Leading edge Not selectable, reserved for Leading edge version.
Leading edge dimming

Switch type
On / Off

Next



This option should be selected for light fixtures which are dimmable using trailing edge dimming systems. Unstable operation or damage to the fixture may result if an incompatible device is connected.
If you are unsure, please contact your light fixture supplier.

Load type

Please select the correct option according to the device's different models or labels
If you select the wrong option, it may cause the device to run abnormally

1-10V / 0-10V Versions

1-10V
With relay



Dimming is enabled using the analogue +/- dimming interface. The supply to the fixture is controlled by the relay within the device for on/off control.

0-10V
Without relay

Full control to the LED driver is made via the +/- dimming interface. The mains supply to the fixture is made by permanent connection and on/off control is performed by the dimming interface.

Switch type
On / Off

Select this option if the light fixture is not dimmable and requires only on/off control via the relay. In this mode, please note that the 'on' mode will always assume 100% (even if the fixture type is dimmable).

Dimming & Colour Tuning Models

The final configuration step for any dimming device type is to set the minimum dimming level %. This option is provided for compatibility with phase dimming LED drivers / lamps, in which the lamp can be seen to flicker if dimmed down too far. By setting the minimum dimming level above the point at which the lamp is known to flicker can prevent this unwanted condition. It may also be used for areas such as stairways, in which a minimum light level is required for safety reasons.

If unsure, the minimum dimming level is usually satisfactory when set at around 10%, and can be adjusted later if required.

If colour tuning is selected, you can enter the minimum and maximum CCT to ensure accuracy across the range of 'warmest to coolest'. This data can be obtained from the fixture or lamp manufacturer's datasheet. If unsure, keep the default setting for the full range of adjustment supported.

Repeat steps 1-4 for each installed device to complete the network set-up.

Initial Min. settings

If the lamp(s) connected to this point begin to flicker at the minimum dimming level, use this feature to set a higher minimum dimming level to prevent the flickering.

Min. Dimming

- 0% +

Min. CCT

- 2000 K +

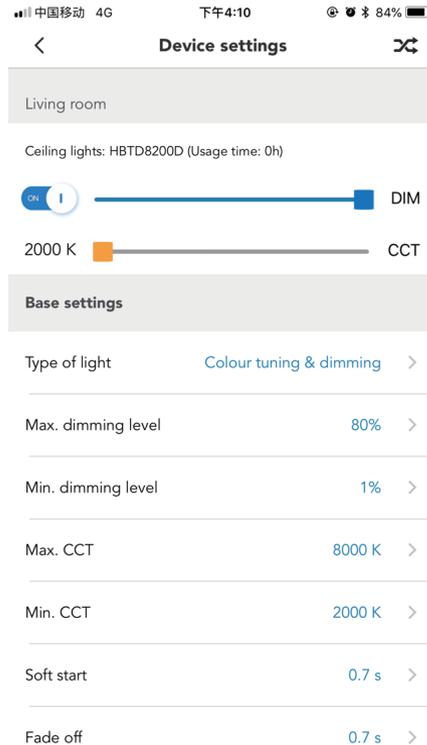
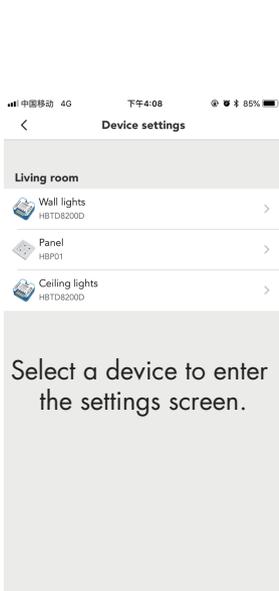
Max. CCT

- 8000 K +

Section 2: Features and Functions

① Complete hardware set-up: Device Configuration: Select  —> 

A list of all the networked devices will be displayed.



Base settings
(Settings available will be dependant on device).

The room to which the device belongs.

The device name, model number are displayed. Tapping here will display the version number relating to the hardware. If the smart device is not in range of the network, only its name will be displayed.

An on/off button and dimmer/CCT slide controls are provided for identification and viewing the effects of any setting changes.

Load type can be used to re-configure the function of the connected lights.

So to limit the maximum brightness the lamp(s) can be operated. Useful if the connected light(s) appear too bright for a room, or for energy savings if acceptable light level is achieved without maximum output. The minimum light output is also settable for safety or prevention of flicker at low dim levels.

When using tunable white fixtures, setting the max and min CCT range according to the manufacturer's specification will ensure greater accuracy of color control from the HBTD8200D device.

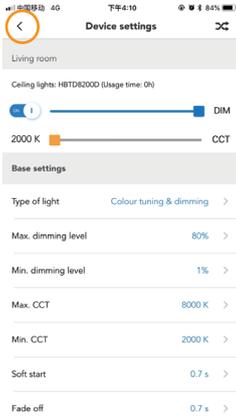
The lamp output may be configured to increase or fade slowly from switch on or off over a set time period.

*When using soft-start, it may appear the lamp is reaching full brightness more quickly than the set-time. The Hytronik HBTD8200x series utilises a linear dimming profile, however the light output of a lamp may not always be linear with the electrical inputs.

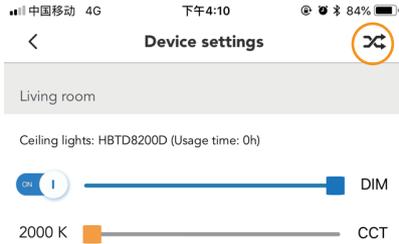
Copy settings to other devices.

For convenience, device settings may be copied to other compatible devices.

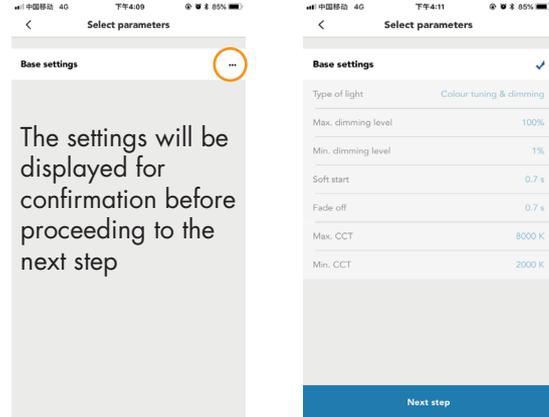
- 1) Complete the setup of the first device with the required settings. Press the back button to return to the device settings screen



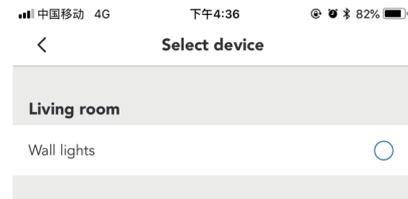
- 2) Press the copy settings button in the top right corner of the device settings screen.



- 3) Choose the settings subsection which you wish to copy to the next devices.



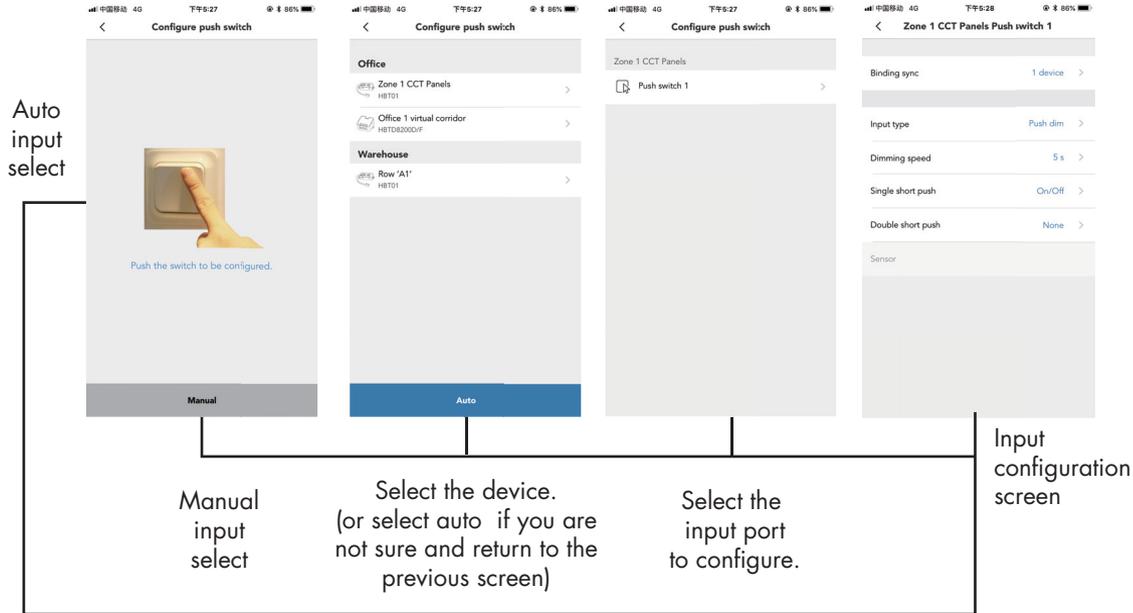
- 4) Choose the devices to copy the settings to. Select next step to complete the upload.



Complete hardware set-up: Push-switch configuration: Select  → 

Where a device supports hard-wired switch inputs, the switch can be configured to function from a number of options.

Auto - If you have already wired the switch connection to the push input, you may simply press that switch to short-cut directly to the input configuration screen.



Ceiling lights Push switch 1

Binding sync 1 device >

Input type Push dim >

Dimming speed 5 s >

Single short push On/Off >

Double short push None >

Sensor

Binding Sync allows wireless synchronization of the switch to operate other device(s) on the mesh network.



Input Types

Switch dim - standard switch dim function

Switch CCT - as above but 'press and hold' will color tune.

Sensor - the input is wired to a N/O contact of an occupancy sensor



Choose which lights you want to include in the group.

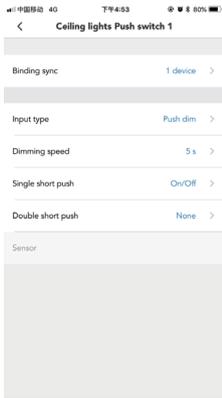


The device to which the switch is connected is highlighted with blue text and already checked, simply check the circle on all devices which you want to synchronize with this switch.

Note, it is possible to uncheck the device to which the switch is connected, the switch action will still be communicated to the other selected devices.

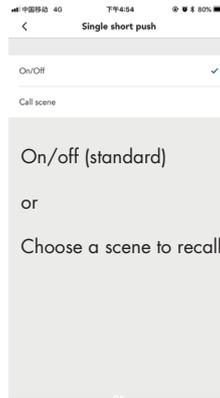
After configuration of multiple devices to a switch, it may be that the lamps do not appear synchronised.

Simply press the switch on/off to synchronize.



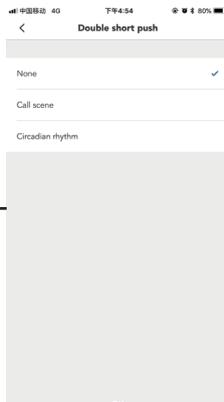
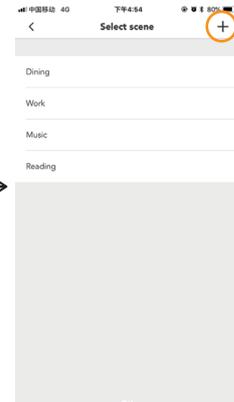
Dimming speed:
Set the time for dimming cycle
or color tuning cycle (max to min.)

Define switch response to a
single short push or a
double short push.



Select scene to be recalled
from any created scenes

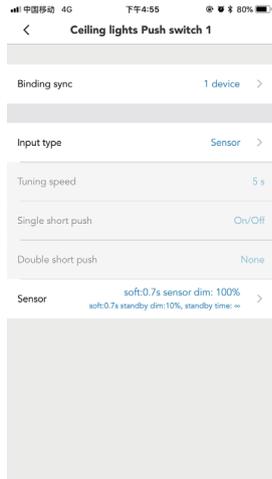
If you wish to create a new
scene, press '+' to open
the create scene menu



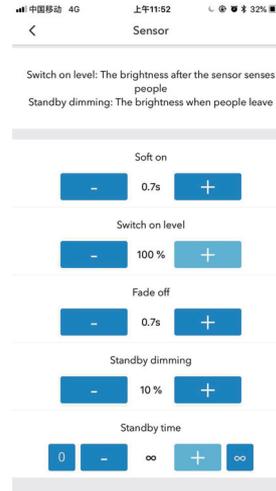
The double short push has the same options
for switch response as the single short push,
but includes one further option for the HBT8200D DALI
model with colour tuning.

The double push maybe used to turn on or off the
circadian rhythm function.

With this option selected, the double short push
will toggle between automatic circadian rhythm
mode or manual settings.



When the sensor input is selected, A further set-up menu is available. Even if the sensor is a simple on/off type, tri-level control (corridor function) settings can be applied to dimmable fixtures.



Time for lights to reach full brightness after occupancy sense

The maximum brightness after switch-on. Consider matching with max. dimming level in the device setup page for consistency in the installation.

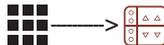
Fade 'off' time for lights to turn off after the standby time has expired.

After the sensor has timed out, the lights will be dimmed to the level set here.

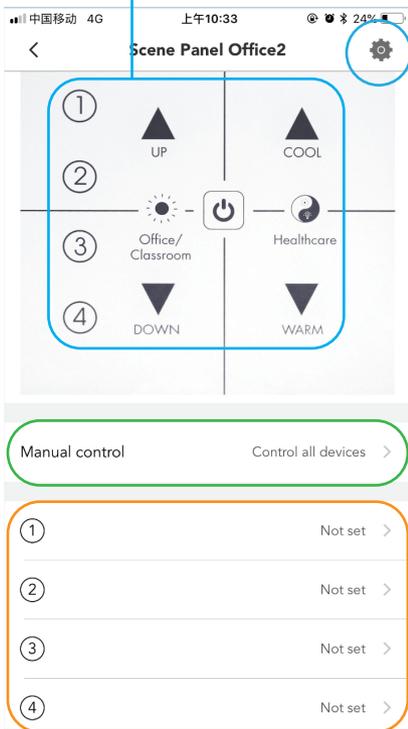
The time period for which the lights will remain at the standby dimming level after the sensor has timed out.

Note: 0s = on/off operation, ∞ = 'always on', either 100% with presence, or standby dimming level in absence .

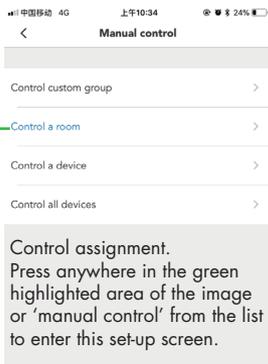
Complete hardware set-up: Scene Panel: Select



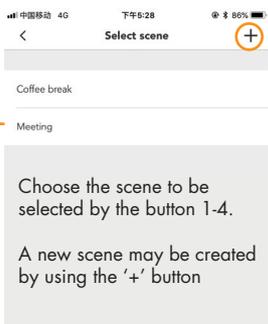
As you make settings, the image of the panel will become active for testing the button responses.



Device Settings - see next page.

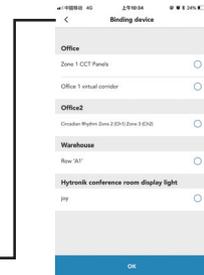


Control assignment. Press anywhere in the green highlighted area of the image or 'manual control' from the list to enter this set-up screen.

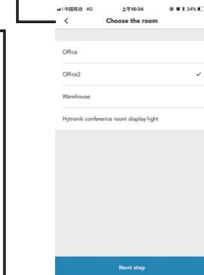


Choose the scene to be selected by the button 1-4.
A new scene may be created by using the '+' button

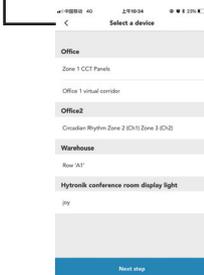
Scene assignment. Press button 1-4 from the image or the list to open the scenes menu.



Control custom group
Choose this option when you wish the panel to control selected devices in 2 or more rooms.



Control a room
Choose this option when you wish the panel to control all the devices in a single room



Control a device
Choose this option when you wish the panel to control a single device.



Where a device has multiple output channels, select the channel to be controlled.

The panel controls all the devices in the network.

Device Settings

中国移动 4G 上午10:36 23%

Scene Panel Office2

Sounds

Turns on/off the keypad sounder

Switch type **ON-OFF** Only OFF Only ON

Define the function of the standby button:

ON-OFF - Toggle lights on/off

Only OFF - Standby button will switch lights off. Turned on again by timer or sensor.

Only On - Standby button will switch the lights on. Turned off by timer or sensor.

OFF type Normal OFF

OFF type:

Normal OFF - Switch lights off, they may be turned on again by timer or sensor.

Always OFF - Switch lights off, sensors and timers will be ignored. Pressing the standby button again will return the system to sensor and timer control.

Dim step
- 1% +

Dim step:

Choose the lighting % change each time the UP/DOWN buttons are pressed.

CCT Step
- 50K +

CCT step:

Choose in Kelvin the Colour change step each time the COOL/WARM buttons are pressed

Backlight

Turns on or off the keypad backlight

Backlight dim 100%

Control the keypad backlight brightness

Backlight mode **Photocell** Timer

Backlight mode **Photocell** Timer

The keypad backlight can be programmed to automatically switch on using the built-in photo-cell or by using a time clock

Turns on 18:00 >

Turns off 06:00 >

Photocell disable

In photocell mode, set the natural light level at which the keypad backlight turns on/off. Select disable for always on.

In timer mode, set the times at which the keypad back light turns on/off

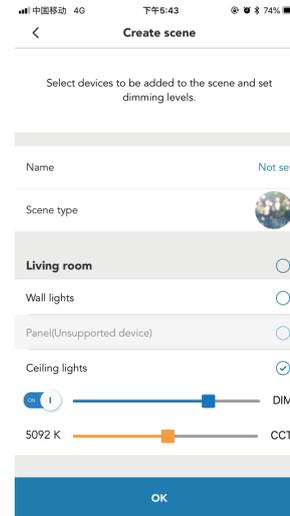
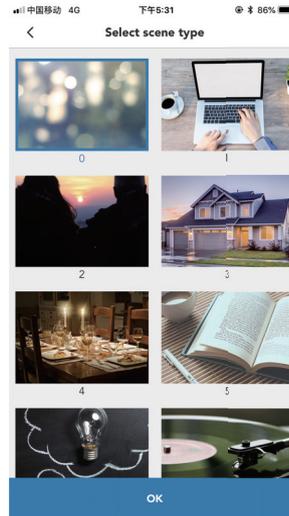
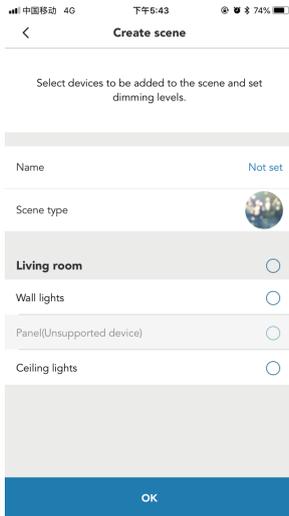
② Creating Scenes: Select  →  → Create Scene, or  → 

Scenes are used to create different lighting conditions according task, such as “reading”, dining”, “relax”etc. Once created, a scene may be recalled by using the App or via the wall switch (as described in the previous section) or even from a function, such as a timer/scheduler. A maximum of 32 scenes/timer functions may be stored by each device.

1) Enter a name for the scene.
Select the devices which you wish to use for the scene.

2) Choose a picture to which best fits the scene type.

3) Choose the device(s) which should be on/off for the scene. When on, you can select dimming level and CCT for each device.



The lights will react “live” during the setting process so you can see the result immediatly.

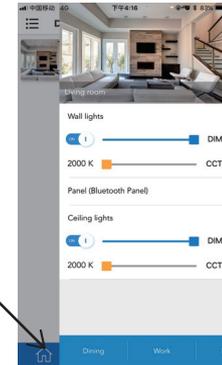
Press save to upload the scene when ready

Scene Recall



Scenes screen
(Displays all Scenes)

A scene may be recalled at any time using the scenes menu or room screen of the APP, or they may be recalled via a wall switch, timer function or even to a sensor.



Room Screen
(Displays only relevant scenes)

Edit Scene

Edit scene from the navigation bar: 

Edit scene from the setting menu:  → 

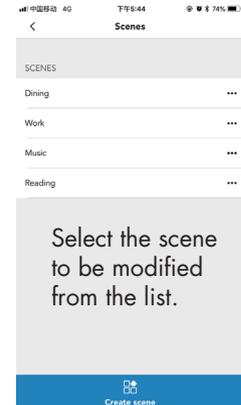


2 options are available from the pop-up menu:

Edit scene - The settings screen with all the relevant adjustable parameters will be displayed. Press save to update the devices with the new settings.

Delete - Selecting this option will delete the scene from memory. Once the scene has been removed it will be permanently deleted from memory.

Note: If a timer function was using the scene, the timer will also be deleted.

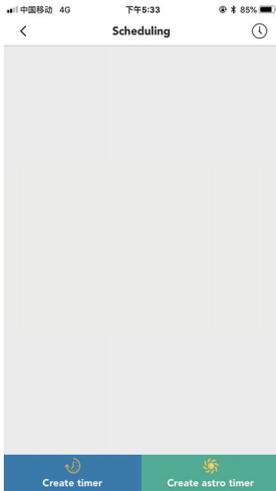


③ Scheduling: Select →

The scheduling function is used to automate switching patterns based around your day. The device clock is synchronised with the smart device clock for this feature. A timer may be configured to operate individual devices or recall a scene. For further flexibility, a sensor may also be included in the timing window to temporarily over-ride the timer while the space is occupied. A maximum of 32 scenes/timer functions may be stored by each device.

An innovative second 'astro timer' function is available which will dynamically alter the time at which lights are operated depending on the sunrise and sunset information.

Setting a new timing function.



Select the '🕒' icon in the top-right corner of the screen to open the synchronisation settings.

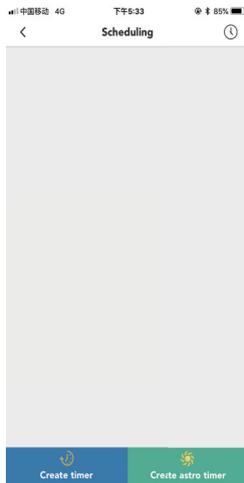
Ensure that your smart device clock time and date settings are synchronised with the network device clock.

According to your time zone, the smart device will display sunset and sunrise times for your region to assist in settings.

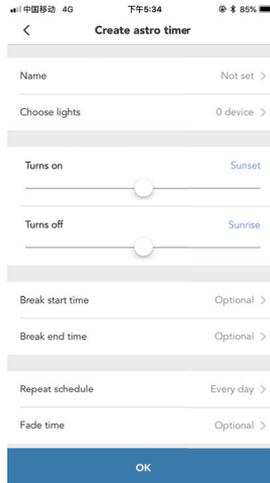


Calendar and time functions are displayed using the system language of the smart device.

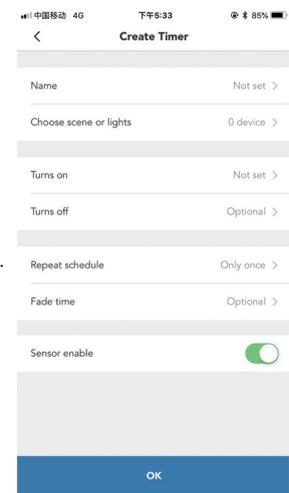
The bluetooth device internal clock will synchronise with the smart device clock when the 'Resync' tabs are pressed.



Select the type of timer you wish to add. You can add multiple timer functions, but only one astro timer.



The relevant settings screen will open. The set-up of the two timers is explained in the following sections.



A timer will operate the lights at fixed times as set.

An astro timer will track the hours of sunrise / sunset and operate dynamically change the time at which the lights operate.

Please be aware of over-lapping timing functions on the same scenes/devices when using multiple timers, the start time of any timer will be ignored if a previous timer function has not yet completed its cycle.

Example:

We wish to set up a security scene timer between the hours of 19:00 at night and 07:00 in the morning. We then wish to set a second timer to operate the same lights for daily use between 07:00am and 19:00pm.

The correct setting should be: 'Night security timer' Turn on - 19:01, Turn off 06:59
 'Day time lights' Turn on - 07:00, Turn off 19:00

Enter a name for the timer

'Turn on' is a mandatory field

'Turn off' is optional

For comfort or safety reasons, it may not be desirable to switch the light off instantly when the timer expires. The fade time is settable from 0 - 254 seconds.

Enabling the sensor will allow occupancy sensors to during operate during the timer period

After the sensor has timed out, the timer settings will be restored.

The created timer functions will show in the 'Scheduling' main screen and may be activated, edited or removed by tapping on the required timer.

中国移动 4G 下午6:33 85%

< Create Timer

Name Not set >

Choose scene or lights 0 device >

Turns on Not set >

Turns off Optional >

Repeat schedule Only once >

Fade time Optional >

Sensor enable

OK

Press OK to store and upload the settings to the devices.

中国移动 4G 下午6:33 85%

< Choose lights

Select a scene directly

Customise a timing scenario

Select the individual devices you wish to switch on or select a scene when the timer starts.

中国移动 4G 下午6:34 85%

< Repeat schedule

Choose the day(s) you want to repeat every week

Sunday

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

OK

If the timing function is required on a re-curring weekly or daily basis, the repeat function allows the day(s) of the week to be selected for the re-occurrence. If no days are selected, the timing function will operate only once at the next 'Turns on' time.

Press OK to confirm the settings and return to the timer set-up screen

中国移动 4G 下午6:04 90%

< Scheduling

Timer 2
Turns on: 16:20
Turns off: Not set

Timer 1
Turns on: 16:19
Turns off: Not set

Create timer Create astro timer

Enter a name for the timer

中国移动 4G 下午5:34 85%

< Create astro timer

Name Not set >

Choose lights 0 device >

Turns on Sunset

Turns off Sunrise

Break start time Optional >

Break end time Optional >

Repeat schedule Every day >

Fade time Optional >

OK

The astro clock will operate relative to sunrise and sunset time

Repeat schedule function as per previous page.

The fade time is settable to allow gradual rise to full brightness or turn-off.

Press OK to store and upload the settings to the devices.

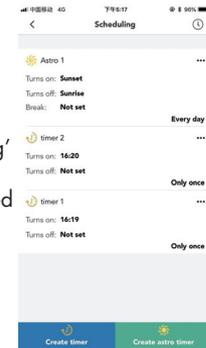
Select the individual devices you wish to switch on for the astro timer (Scenes are not selectable)

There are two timing periods settable which are configured as per the timing diagram below:



Note: During the astro timer period, all sensors are disabled. Lights may be manually operated from the wall switch or APP.

The created astro timer will show in the 'Scheduling' main screen and may be activated, edited or removed by tapping on the required timer.



④ Bio Alarm: Select  → 

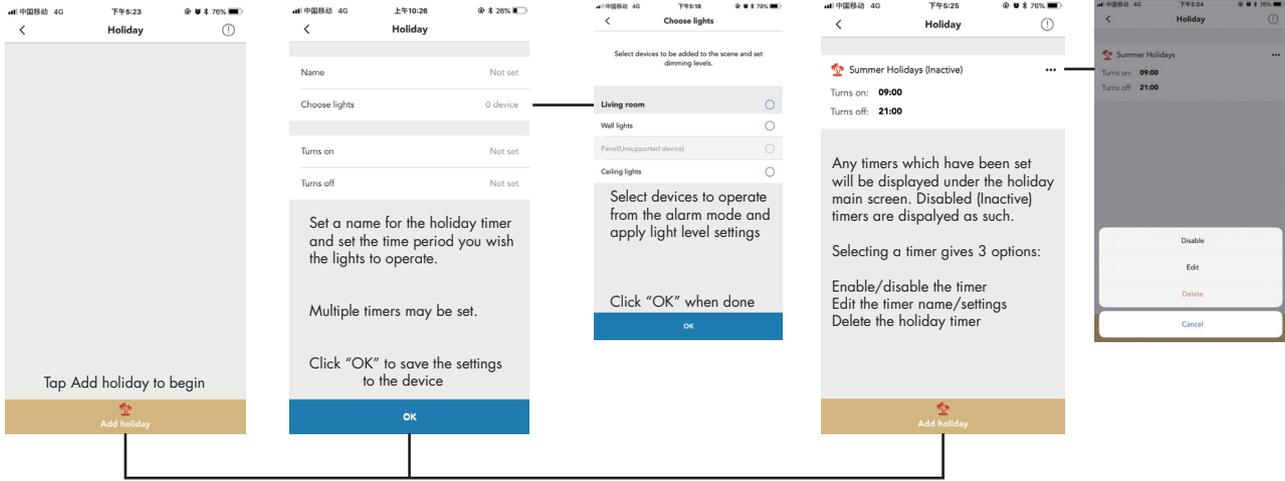
An innovative timer intended for use as a 'bio-alarm clock' to assist in a natural waking pattern. The bio-alarm can be set to increase the brightness and colour temperature of the lights over a slow and gentle time period. The alarm function has no 'off' timer - it will switch off at the next interruption - i.e. by manual switch or via next timing function. An activated motion sensor will end an alarm.

The bio alarm will operate continuously on schedule whilst it is active. To disable the alarm:

The fade time is settable from 0 - 254 secs to allow gradual rise to full brightness.

⑤ Holiday Mode: Select →

Holiday mode allows the automatic switching of lights whilst the property is vacated - it will automatically repeat any set holiday timers every day, for as long as the mode is active. Once the holiday mode is cancelled, all previous settings will be restored.



Tap Add holiday to begin

Add holiday

Set a name for the holiday timer and set the time period you wish the lights to operate.

Multiple timers may be set.

Click "OK" to save the settings to the device

OK

Select devices to be added to the scene and set dimming levels.

Living room

Wall lights

Panel(Unsupported device)

Ceiling lights

Select devices to operate from the alarm mode and apply light level settings

Click "OK" when done

OK

Any timers which have been set will be displayed under the holiday main screen. Disabled (Inactive) timers are displayed as such.

Selecting a timer gives 3 options:

- Enable/disable the timer
- Edit the timer name/settings
- Delete the holiday timer

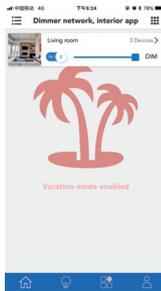
Add holiday

Disable

Edit

Delete

Cancel



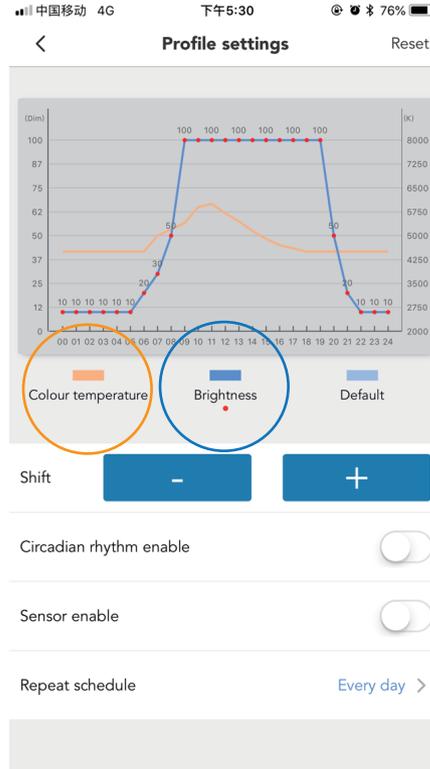
Whilst holiday mode is active, Timers, circadian rhythm mode etc are suspended. The lights will still operate from any sensor or, manual push switch.

⑥ Circadian Rhythm Function : Select  → 

The HBT8200D model supports DALI DT8 LED drivers with colour tuning functions. A dynamic lighting scene may be created which can automatically change brightness and colour of the lamp according to the time of day. The circadian rhythm function can be considered as a 24 hour timer in which the lights may be set to operate at any level at each hour of the day.



Compatible devices are listed for selection. Similar to the scheduling function, the device clock can be checked and calibrated by tapping the clock icon.



Reset to the default settings.

Tap and hold on the line in the chart area to drag the red points of the profile curve to the desired setting.

Double tap the screen to enlarge. Tap on Colour temperature  or brightness  to manually adjust the profiles on the chart. The light blue line provides reference to the default settings.

Shift the whole profile curve:
 Brightness 1% dimming per step
 Colour temperature 20K per step.

Enable / disable circadian Rhythm mode. Any scheduled timers are ignored whilst circadian rhythm mode is enabled.

If a sensor is configured to either S1 or S2 input, it can be enabled during circadian rhythm mode.

Choose which days the circadian rhythm mode should run.

Section 3: Network and Account Administration

① Manage Users

Select  →  to display the Account Management options.

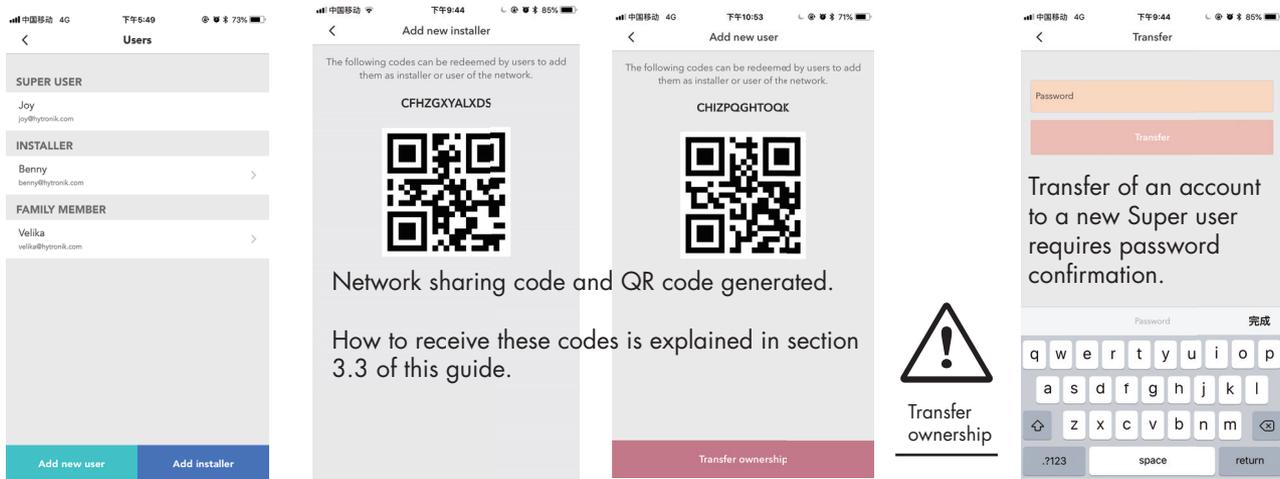
You must have Super user or Installer account permissions to access any further options from this menu.

Adding other users is by means of either a QR code or network sharing key generated in the manage users area.

Deleting users from the network is explained under the instructions of next section 3.2 of this guide: Network settings.

Different options are available to owner accounts and installer accounts:

Super user account options:



The first screenshot shows a list of users categorized by role: SUPER USER (Joy), INSTALLER (Benny), and FAMILY MEMBER (Velika). The second and third screenshots show QR codes and alphanumeric codes for adding a new installer (CFHZGXYALXDS) and a new user (CHIZPQGHTQQK). The fourth screenshot shows a password confirmation screen for transferring ownership.

Network sharing code and QR code generated.

How to receive these codes is explained in section 3.3 of this guide.

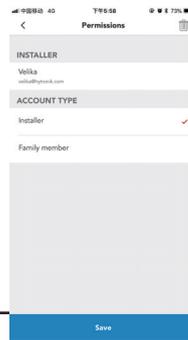
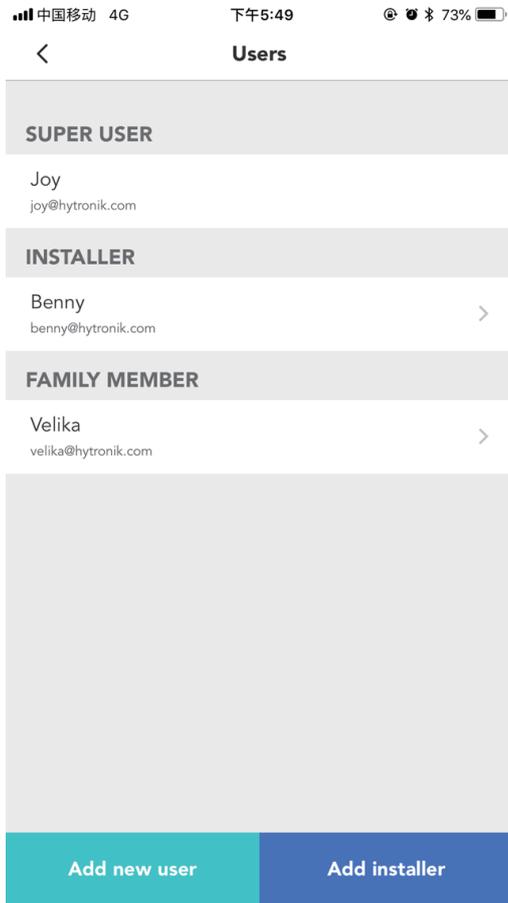
Transfer ownership

Transfer of an account to a new Super user requires password confirmation.

When ownership is transferred:

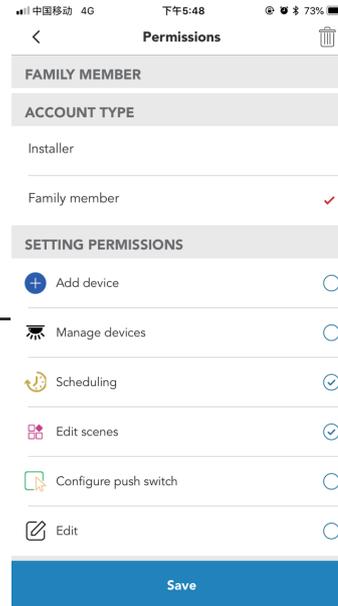
- 1) The network will be deleted from the previous owner's account
- 2) All previous Installer and user accounts will be deleted.
- 3) All device settings and scenes are retained.

Managing Permissions (available from super user accounts only):



By default, an installer account has permission to all areas of the APP.

The super user may change the account type to regular user or installer at any time.



By default, a regular user may only operate the lights and scenes from the APP.

Select additional permissions as required and press save to update.

Installer account options:

From the manage users page, the installer has the ability to add other installers to assist with the project commissioning process on the same network. The process for adding another installer is identical to that of the owner process.

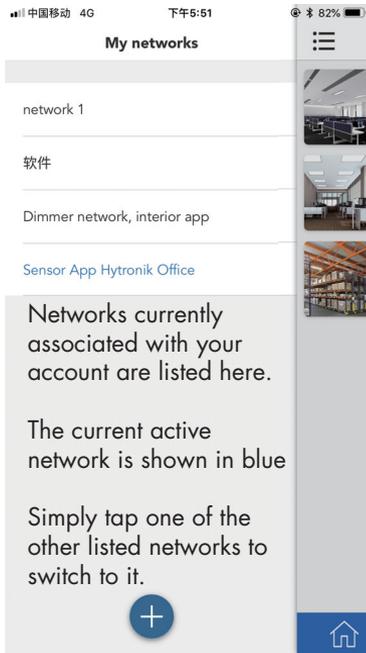
If the network has been created under an 'installer' account, and no super user account yet exists for the network, the 'transfer network' tab will be available for selection. The new intended owner must have downloaded the Hytronik APP onto his or her smart device and be signed into their unique Hytronik super user account. The network is transferred to the new super user via the QR code or network sharing key.

Screens displayed in manage users (installer Account):



③ My network settings

Select  to choose or add an existing network or create new network.



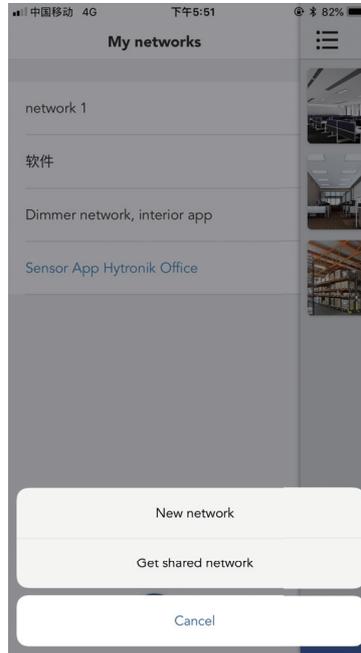
Networks currently associated with your account are listed here.

The current active network is shown in blue

Simply tap one of the other listed networks to switch to it.



Press '+' to add a new network



New network



Get shared network

To obtain a shared network via a QR Code or Network sharing key Details on next page



Simply enter the name for the new network and confirm with 'Add'

我 你 好 在 这 不 一 是



Get sharing network

Enter the shared network key, or scan the QR code automatically

Network share key



Confirm

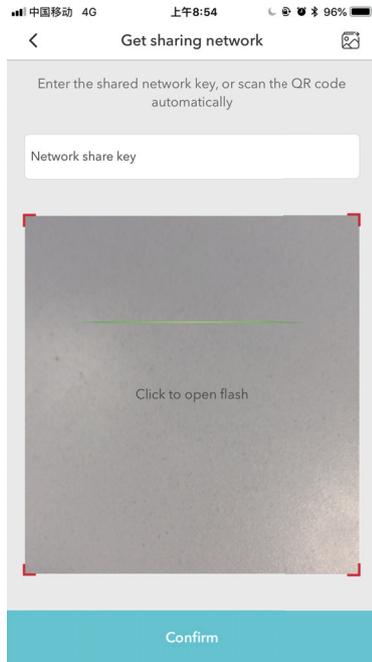


Important new network note!

Ensure that you have chosen the correct account type (Super user / Installer) before you create the new network. A Super user account will assume you as the owner of the network. See the following section 3.4: Account management for further details.

Get shared network details

There are 3 methods to receive a shared network:



Load a picture/photo of the shared QR code

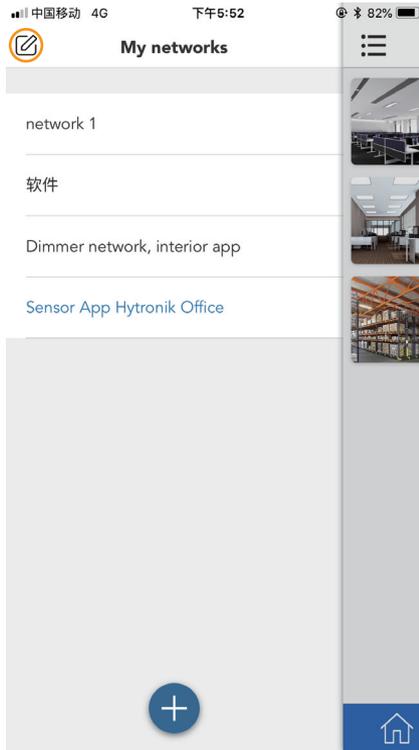
Enter network share key code provided by the inviter. Press confirm at the bottom of the screen to enter the code.

Tap on the screen to open the screen where indicated to open the scanner on your smart device. Scan the QR code provided to you.

Depending on who the network was shared to (i.e. as a family member or installer), your account type will be automatically defined for that network. If you have a family member account, you may only operate the lights and scenes via the APP. Contact the super user if you need more permissions granted for that network.

My network settings - Renaming and removing networks

From the network Settings screen, the network may be renamed or removed by tapping the edit icon, or by long-pressing the network name.



Only Super users and Installers are permitted to make re-name the network by default. A super user may give permission to a regular user to do so if required.

Remove a network (Super user account)



Deleting the network is irreversible and all settings, installers, family member accounts and device information will be lost.

It is not recommended to delete a network whilst active devices remain in it. All devices should be deleted from the network under the devices tab. If the network is deleted whilst devices remain linked to that network, they will require a full reset before they can be used on another network.

The account holder password must be entered to confirm deletion.

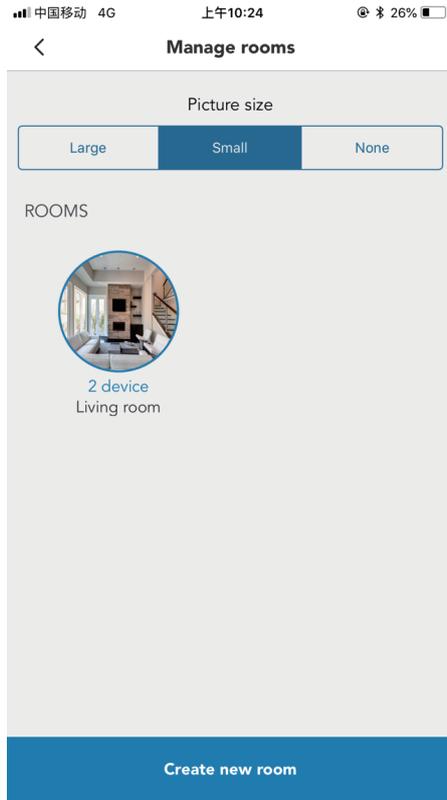
Remove a network (Installer & Family member accounts)

Deleting a network as an installer or family member will remove only the network access from your smart device & account. The network settings will not be affected. If you require access to the network again, you will need to be added by the super user or an authorised installer (installer account only)

An owner may also remove access to their network for installer or basic user accounts (without notification or permission). In this case, the result is identical to the above.

Managing rooms and devices is also considered part of network management and maintenance.

Manage Rooms: Select  → 



Picture size - alters the appearance of the "home screen"

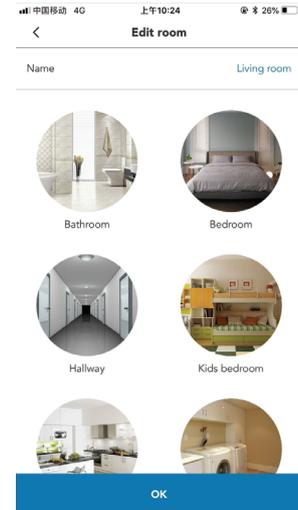
Selecting a room from the list will show 2 further options:

Edit: →

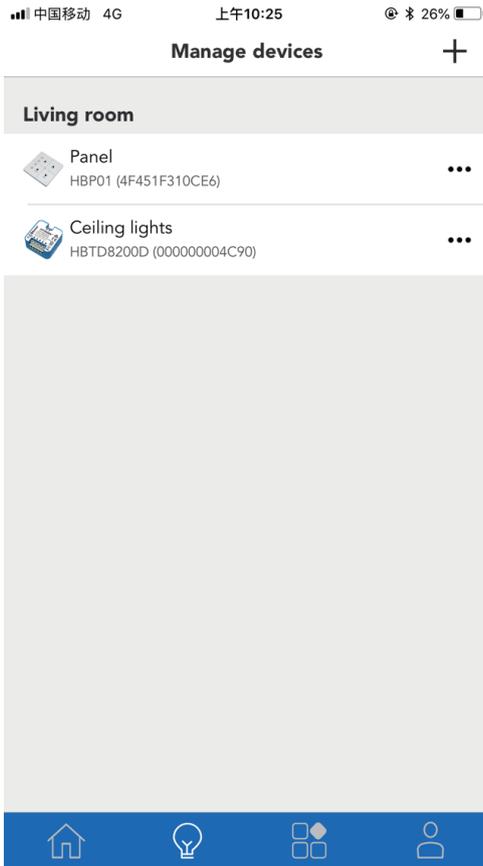
- Change the name of the room.
- Re-select the picture

Remove:

- Delete the room from the network. Please note that you will need to remove all the devices assigned to the room before the room itself can be deleted.



Manage Devices: Select



Selecting a device will allow you 4 further options:

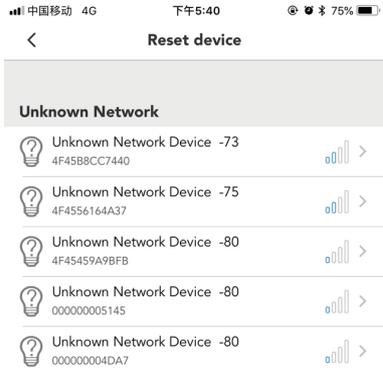
- Device settings. Will open the device settings set-up screen.
- Change the name of the device
- Change room. Choose one of the existing rooms which have already been setup, or you may create a new room by selecting the tab at the bottom of the screen.
- Remove. Delete a device from the network. Follow the on-screen instruction. Password will be required to confirm deletion.

If the device is being replaced because it can no longer be communicated with or has been physically removed from the installation, then the option to 'force delete' will be given and the device will be deleted from the network database.



Device factory reset: Select  → 

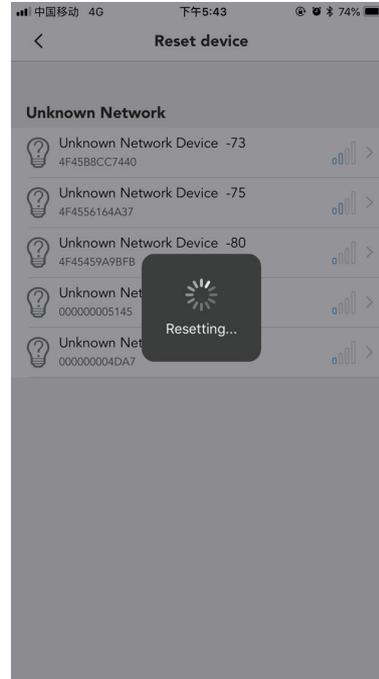
This method may be used to remove a device from a network other than your own, or if a device has stopped communicating in your network. To remove devices from your network, please see previous page.



Select the device to be reset...

The list will display devices which are in other networks under the heading of "Unknown network". They are listed in order of signal strength.

These may also be devices which used to belong to another network or to a network which no longer exists.



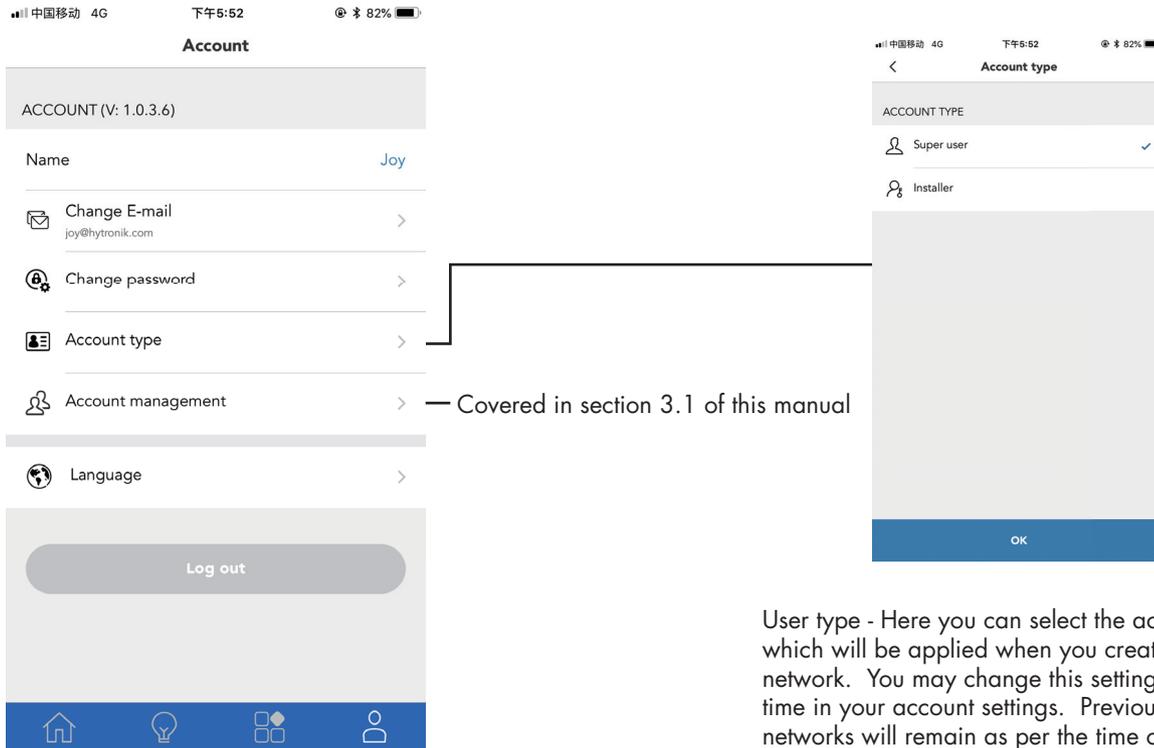
The lights which are connected to the device will flash twice.

A 15 second period is allowed to cycle the power supply to the device off/on.

This step is required to help prevent devices found in unknown networks from being reset when not in close proximity to the engineer

④ Account options

Most of the options contained on this screen are self-explanatory for those familiar with smart devices, however there are two very important options which require further understanding:



User type - Here you can select the account type which will be applied when you create a new network. You may change this setting at any time in your account settings. Previously created networks will remain as per the time of creation.

Annex A - Supported Bluetooth[®] Nodes

The Hytronik interior APP has been designed to support the following models:

HBTD8200T - Trailing edge dimmer node
HBTD8200D - DALI dimmer node
HBTD8200V - 1-10V / 0-10V dimmer node
HBTD8200S - On/off relay switch node

The full datasheet for the node hardware is available from our website. Please contact your luminaire supplier for any enquiry relating to the hardware devices.

Annex B - System Capacity

Per Network:

Number of Devices: No theoretical limit
Number of Rooms (groups): 250
Number of devices per room: No theoretical limit

Per device:

Scene memory: Maximum 32 timers and scenes in any combination. (Bio-alarm is classed as a timer).
Holiday mode does not use scene memory.

Switch/sensor input binding capacity: No theoretical limit