732.28.426

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1. Change History

Version	Date	Changes
1.0		Initial Documentation

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2. Table of Contents

3. Connect Mesh Remote Control (Mesh Mode)

3.1. What is the Connect Mesh Remote Control?

The Connect Mesh Remote Control is a smart wireless multi-purpose controller for BLE Mesh devices such as:

- lights (Monochrome, Multi-White/ Tunable-White, RGB)
- motors (eDrives, Lifts, Furniture-Locks)

The Remote Control offers direct control of the most important lighting settings (brightness, color temperature, color and saturation) for 6 individual groups and allows to store and activate three individual scenes (buttons A,B and C)

3.2. What is the Mesh Mode?

The standard mode of the Connect Mesh Remote Control is Mesh mode. In this mode, the Remote Control device can be added to a new BLE Mesh network like any other BLE Mesh device using the smartphone App.

3.3. Functions Overview

Please find a quick overview of the Connect Mesh Remote Control functions in the following image:

Status LED — 1 2 3 4 5 6 — Channels
Previous Channel — ◀ ▶ — Next Channel
— + Brightness/Saturation
- Temperature/Color — ⏻ — + Temperature/Color
- Brightness/Saturation — — On/Off
A B C
— Scenes

[image 3.3.1]

Internal hidden magnet —

— Removable Battery Compartment Cover
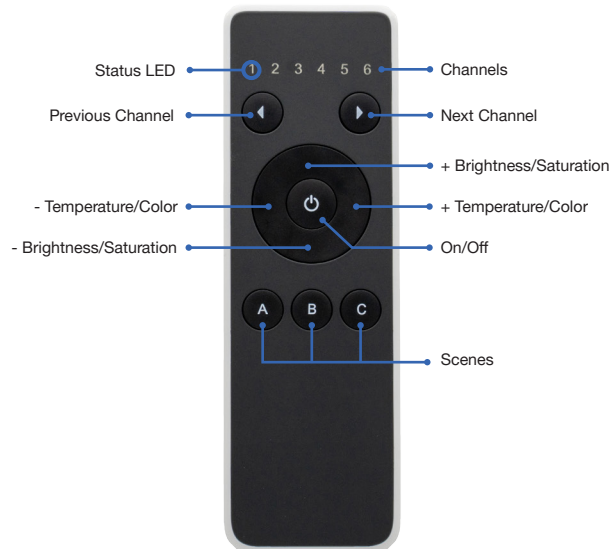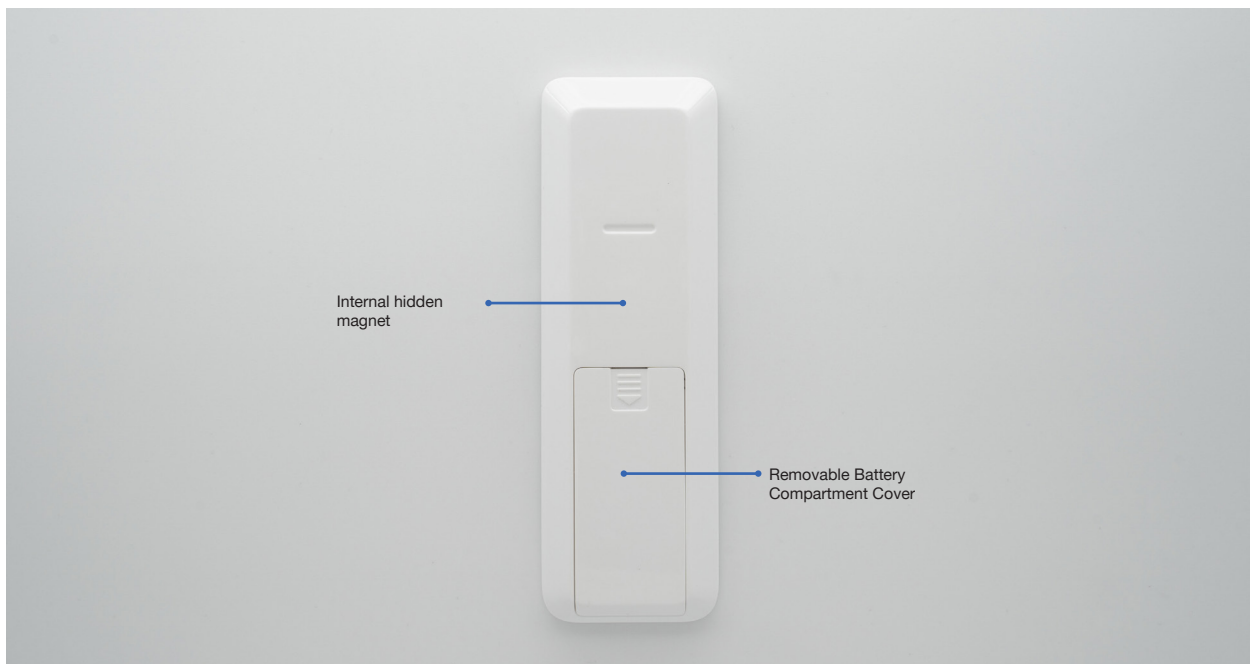
[image 3.3.2]

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3.4. Setup

Reset Button

Battery Compartment
(CR2032)

[image 3.4.1]

Open the battery compartment on the backside and insert two button cell batteries (CR2032). The LED of the first channel flashes regularly. Open the Connect Mesh app and tap on "Add devices". The remote control will be displayed in the list of devices found. Tap the remote control to start the provisioning mode. Follow the instructions in the app.

After provisioning, you can assign the individual functions of the remote control in the App. Read the detailed instructions for the Connect Mesh App.

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3.5. Changing the Channels

Every Connect Mesh Remote Control has 6 channels symbolized by the 6 numbers on top. Each channel can be individually assigned to a group in the Häfele Connect Mesh App and allows to control all devices in the group afterwards.
Use the buttons on top to change the active channel of your Connect Mesh Remote Control. Press on the „<" button to switch to the previous channel. Use the „>" button to switch to the next channel. The LED always shows the currently selected channel.

EXAMPLES

A typical use case could be for example:

- – Group with all lights assigned to channel 1
- – Group with all ceiling light assigned to channel 2
- – Group with all furniture lights assigned to channel 3
- – Group with all footer lights assigned to channel 4
- – Group with all mult-white (tunable white) lights assigned to channel 5
- – Group with all RGB lights assigned to channel 6

3.6. Switching a Group On/Off

You can toggle the active channel/group by pressing the ⏻ ON/OFF power button.

3.7. Changing Brightness / Saturation

You can control the brightness of devices in the same group by keeping "up" and "down" button pressed. "Up" increases the brightness, while "down" reduces the brightness until the lights turns off completely.

To control the saturation of RGB lights, you can double press and hold "up" to increase the saturation and double press and hold "down" to reduce it.

3.8. Changing Temperature / Hue (Color)

You can control the temperature of devices in the same group by keeping "left" and "right" button pressed. "Right" makes the light temperature colder, while "left" makes the temperature warmer. Releasing the press will set and lock the current state of the lights.

To control the hue (color) of RGB lights, you can double press and hold "right" to increase the hue and double press and hold "left" to reduce it.

3.9. Scenes

The scene buttons A, B and C allow to save and restore three individual scenes. By default, the scenes triggered by "A", "B" and "C" are the same scenes as available as the first three scenes of the selected group that you defined in the App.

Activating Stored Scenes

Press A/B/C to activate a scene that was previously saved on this scene-button. Please note, that the scene is applied only to the devices that are in the currently selected group (channel 1 to 6).

Saving New Scenes

Press a scene button longer than 2 seconds to store the current lighting-settings on this button.

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3.10. Reset

Option 1: Reset by App
1. In case the device is provisioned and connected through the app, the user can reset the mesh device via the Connect Mesh App (more information in the specific *Häfele Connect Mesh App*).

Option 2: Manual Reset by Reset Button
1. Press the Reset button for at least 8 seconds and release it.
2. This will reset the Remote Control and can be provisioned again in the Häfele Connect Mesh App.

Reset Button

Battery Compartment
(CR2032)
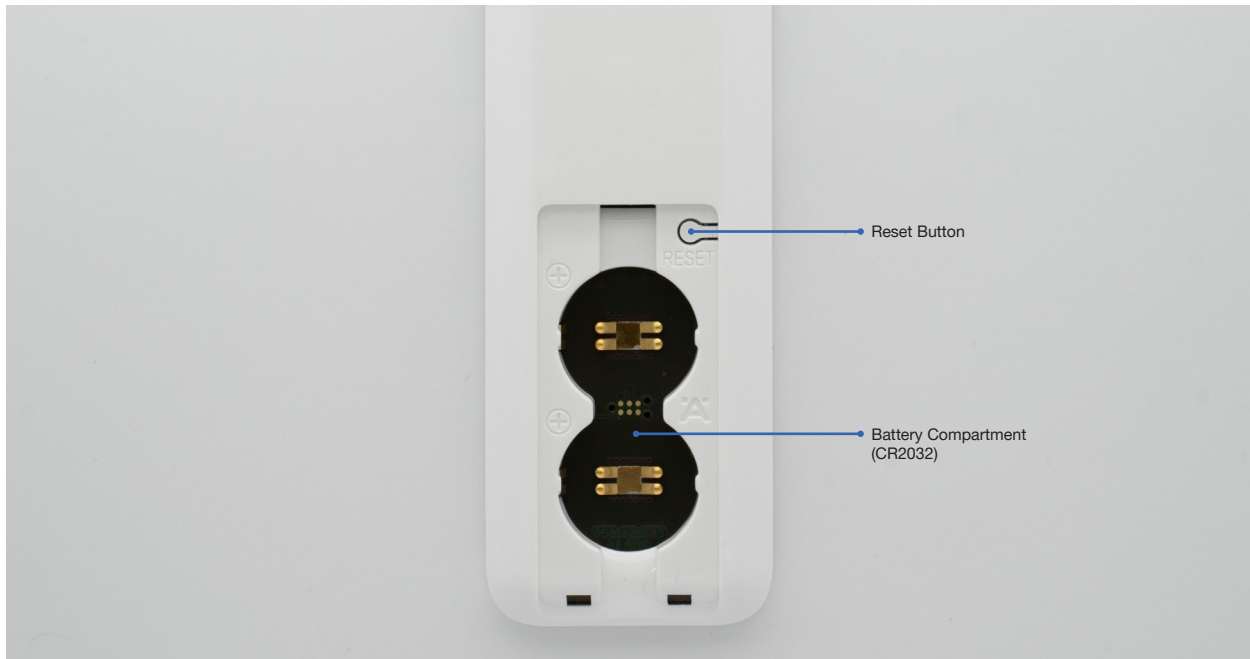
[image 3.10.1]

3.11. Update Mode

Option 1: Update Mode by App
1. In case the firmware is outdated, the user will be notified inside the Connect Mesh App. There the user can start and perform the update of the mesh device (more information in the specific *Häfele Connect Mesh App*).

Option 2: Manual Update by Power On/Off
1. Remove the battery and insert it again.
    Repeat this 4 times of consistent intervals of 2 seconds each.
2. The first group LED will start to light constantly.
    This identifies that the device is in Update Mode and can be updated using the Häfele Connect Mesh App.

Option 3: Manual Update by Reset Button
1. Press the Reset button for 6 seconds and release it.
    This will keep the mesh device into update mode for 60 seconds and can be updated using the Häfele Connect Mesh App.

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3.12. Status LED

Status LED

[image 3.12.1]

The **LED of channel 1** is used as status LED when the device is not in normal operations mode.

Status LED 1 Behavior	Meaning
Off	The Connect Mesh Remote Control is either in built-in energy save mode or its battery is empty.
Flashing	The Connect Mesh Remote Control is in provisioning mode and is ready to be added to an existing Bluetooth Mesh network.
On	The Connect Mesh Remote Control is either in normal operation mode or in OTA update mode. If it is OTA update mode, it will remain in OTA update mode for 60 seconds or until the power is uninterrupted.

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4. Connect Mesh Remote Control (Standalone Mode)

4.1. What is the Standalone Mode?

The *Standalone-Mode* of the Connect Mesh Remote Control is its optional mode of operation. In this mode the Remote Control device can be added to a new BLE Mesh network by self provisioning without the Connect Mesh App. Once the user created a new BLE Mesh network using the Connect Mesh Remote Control, it can further be used to provision and configure Connect Mesh 6 way distributors in provisioning mode.

4.2. Creating a new Mesh Network

To start in standalone mode, the Connect Mesh Remote Control must be in provisioning mode (the status LED is Flashing). This means that the device has not yet been added to an existing mesh network, or the device has been reset using the Reset button on the backside.

Press both for 4 seconds

[Bild 4.2.1]

To create a new mesh network using the Connect Mesh Remote Control and adding it to it, press the two channel buttons (< and >) simultaneously for 4 seconds. The status LED will flash 3 times to give feedback if the action was successful. Afterwards, the channel LEDs work as intended and channels can be changed using the buttons.

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4.3. Provisioner Mode

Press both for 4 seconds

[image 4.3.1]

To start the *Provisioner-Mode* of the Connect Mesh Remote Control, press and hold the two channel buttons again for 4 seconds. All channel LEDs will be turned on, if the Remote Control is in Provisioner Mode. The Remote Control is now waiting for further user input.

⚠ IMPORTANT

Hold the Remote Control in your hand and do not place it on a solid surface, otherwise the unit will go into power save mode!

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4.4. Provisioning and Configuration of a BLE Connect Mesh 6 way distributor

[image 4.4.1]

As soon as the Connect Mesh Remote Control is in Provisioner Mode, you can select one of the following buttons to provision and configure BLE Connect Mesh 6 way distributors within reach. The Connect Mesh 6 way distributor you would like to add to your network has to be in Provisioning Mode.

A   Configuration: Monochrome
     The Connect Mesh 6 way distributor will be configured with 6 single channels.

B   Configuration: Multi White
     The Connect Mesh 6 way distributor will be configured with 3 multi white channels.

C   Configuration: RGB
     The Connect Mesh 6 way distributor will be configured with 2 RGB channels.

After a configuration has been selected, the remote control starts provisioning the first Connect Mesh 6 way distributor within range. The status LEDs indicate provisioning with a running light. After the first Connect Mesh 6 way distributor has been successfully provisioned, the remote control searches for the next Connect Mesh 6 way distributor. This process must be cancelled manually when all desired Connect Mesh 6 way distributors have been configured.

4.5. Leave Provisioning Mode

To leave the provisioning mode, please press both channel buttons (< and >) at the same time. This will immediately stop the search for further mesh devices.

4.6. Controlling Lights in Standalone Mode

Depending on how the Connect Mesh 6 way distributors were configured, lights are controlled differently with the remote. Refer to the table below to see what the control looks like for your configuration.

Spots	Channel 1-6 mirror the Channels in the same order.
Multi White	Channel 1: Multi White Light attached to channel 1 and 2. Channel 2: Multi White Light attached to channel 3 and 4. Channel 3: Multi White Light attached to channel 5 and 6.
RGB	Channel 1: RGB Light attached to channel 1, 2 and 3. Channel 2: RGB Light attached to channel 4, 5 and 6.
Channel 7	When you are in channel 6, press the channel button ">" once and the LED 1-6 will lit up. Then you can control the entire lights together at the same time.

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5. Q&A

Question	Antwort
All Status LEDs are switched OFF. Does the device still work?	The Connect Mesh Remote Control has a built-in energy-saving mode. If the device is not moved for a longer period of time, it is activated and all status LEDs are switched off. Move the device or press a button to wake it up. If this does not work, replace the battery.

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