INSTALLATION AND COMMISSIONING MANUAL

# DALI-TOUCH 3.4 AC

## Lighting control with Casambi




### CBU-DCS-DALI-TOUCH 3.4 AC

Casambi Gateway profile preconfigured at the factory.

# Choose how to control Casambi

**Casambi actions and scenes.** The panel sends GTS (Go to Scene) to trigger a virtual push button or recall a Casambi scene. You can use this mode without exporting devices or assigning DALI addresses.

**Direct DALI control.** The Gateway exports compatible Casambi devices as DALI gear. You can then operate them from the panel as ordinary DALI devices.

You can use either mode on its own or both together on the same panel.

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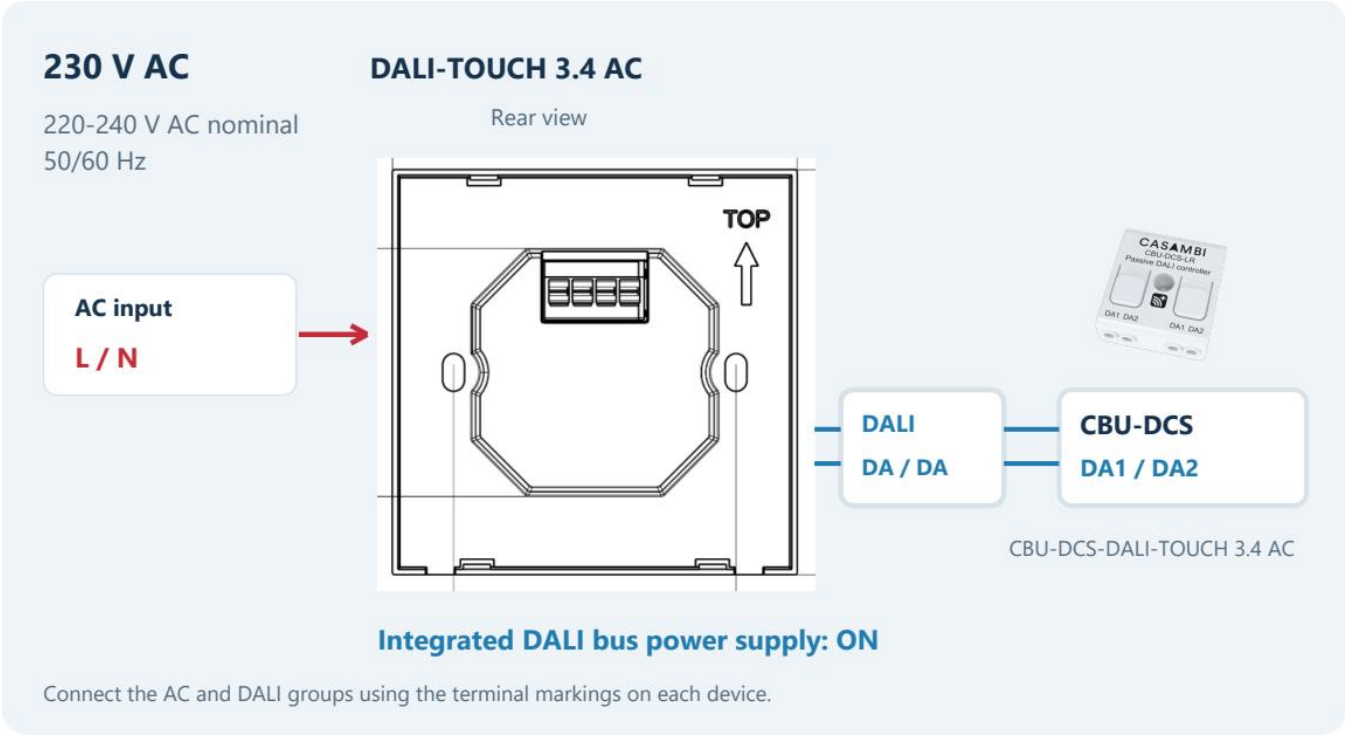
# Connect mains and the DALI bus

The DALI-TOUCH 3.4 AC panel takes power directly from the mains. Its integrated DALI supply powers the two-wire bus and the CBU-DCS-DALI-TOUCH 3.4 AC Gateway.




Use the terminal markings on the panel and Gateway to identify each connection.

## Wiring and first power-up

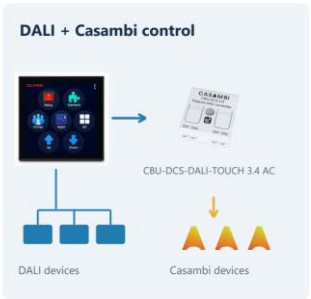
**1.** Have a qualified installer isolate the mains. Connect L and N to the AC input on the panel (230 V AC, 220–240 V AC nominal, 50/60 Hz). Maintain the required insulation and separation between mains and DALI wiring.

**2.** Connect the panel's two DALI terminals to DA1 and DA2 on the Gateway. The two DALI wires can be connected either way round. The mains connection belongs only at the panel's AC input.

**3.** Restore mains power and leave the integrated DALI bus supply enabled. It is on by default. This installation does not need an external power supply.

**Leave the DALI supply on. If it is switched off in this installation, the panel can stay lit while the Gateway loses power.**



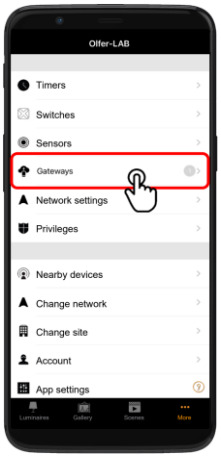

### Recessed installation

Panel 86 × 86 × 38.9 mm. Rear housing 60 × 52.7 mm, 26.9 mm deep. Allow room for the wiring.

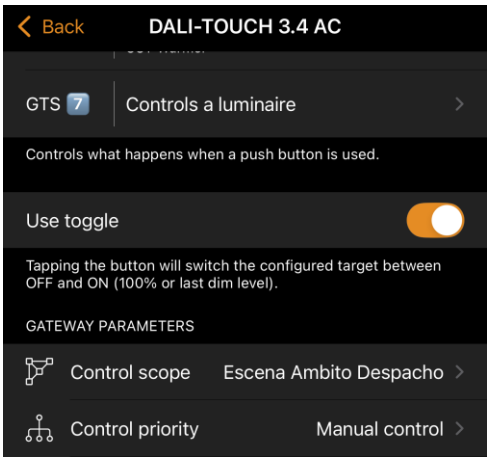
DALI supply up to 240 mA. Allow 5 mA idle and 30 mA peak for the Gateway.

# Add the Gateway to the Casambi network

Open the Casambi network that contains the luminaires. In More > Nearby devices, select the supplied Gateway and add it to that network. Then open More > Gateways and select DALI-TOUCH 3.4 AC. The dedicated profile is already installed.




Open Gateways in More.




Check the device name at the top of the app.

### Prepare the settings in Casambi first

**For Casambi actions or scenes,** create the scenes, assign the required entries in the Gateway and set the DALI destination each list will accept.

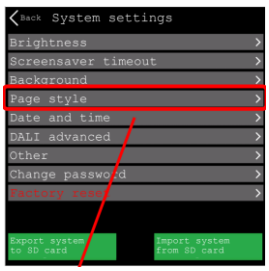
**For direct DALI control,** select the Control scope before discovery. If you plan to use both modes, complete both sets of Gateway settings before programming the buttons.

### Then choose the button layout on the panel

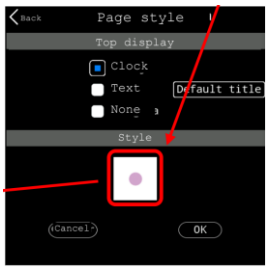
Hold a home-screen button for three seconds. Enter System settings (factory password 00000000) > Page style > Style. Choose a layout and tap Apply. Layouts vary in button count, shape and colour. A page can contain up to 16 buttons.



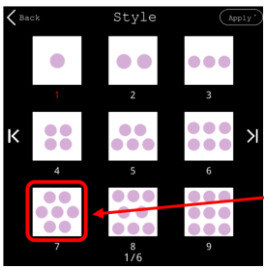

Settings




Page style




Style



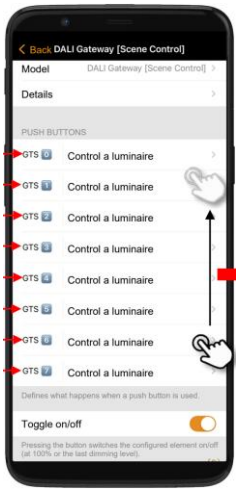

Layout selection

# Assign push buttons and scenes in Casambi

A tap on the panel sends a DALI GO TO SCENE command (GTS). The Gateway reads its scene number and destination, then runs the action you assigned in Casambi. You can use this mode without exporting or addressing any luminaires.

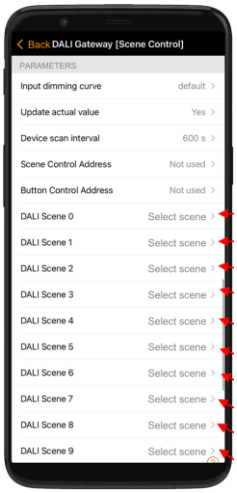
### What should happen when the user taps?

Create any scenes you need in the Casambi app. Open More > Gateways > DALI-TOUCH 3.4 AC. The Gateway offers two lists of assignments.




**8 virtual push buttons**

GTS0 to GTS7. Choose a function and what it controls. One tap can switch a group, cycle through scenes or resume automation.




**16 Casambi scenes**

DALI Scene 0 to 15. Assign the Casambi scene or animation you want each entry to recall. For example, assign Meeting to DALI Scene 3.

### Match the number and the destination

The number always matches the entry. GO TO SCENE 3 calls GTS3 in the push-button list or DALI Scene 3 in the scene list. The destination is a DALI group or Broadcast. Set the matching destination in Button Control Address or Scene Control Address. Control scope is a separate setting for exporting devices.

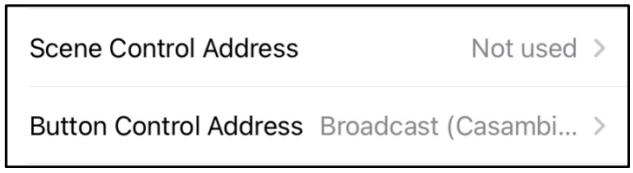
**This panel supports up to 16 buttons, which you can divide between the two lists. A DALI controller with enough buttons can call all 24 Gateway assignments by using separate destinations for the two lists.**

# Set up and test your first button

This example uses a panel button labelled Office to recall the Office scene through virtual button GTS0. The screenshots show where to set the DALI command.

## 1 In Casambi, assign the action and enable its destination

Create the Office scene and test it in the app. In the Gateway, open GTS0, choose Control scene and select Office. Set Button Control Address to Broadcast (Casambi scenes) and Scene Control Address to Not used. Only the push-button list will accept broadcast calls.




The push-button list accepts Broadcast. The scene list is disabled.

## 2 On the panel, tell the button what to send

Press and hold the chosen button for three seconds to open settings. Enter Button settings (default password 00000000). Name the button Office and choose its icon. Set Address to Broadcast, Function to ON and Action to Scene0. Tap Apply.




Open button settings.




Use the three highlighted fields.

Return to the home screen and tap Office once. The panel sends GO TO SCENE 0 to Broadcast. The Gateway receives it at GTS0 and recalls Office.

**To recall a scene from the 16-scene list, set Scene Control Address to the destination used by the panel and assign the scene to DALI Scene 0. Leave Button Control Address at Not used if you only need scenes. A list set to Not used ignores its calls.**

# Use both lists on the same panel

Give each list a different DALI group if you want to choose which one runs. The group acts as a filter. You can use it here without assigning individual DALI addresses or adding luminaires to the group.

### Example with two group filters

You can choose any suitable groups. For this example, set Button Control Address to G1 and Scene Control Address to G5. Assign the Night scene to GTS3 and Meeting to DALI Scene 3. Use Function = ON and Action = Scene3 for both panel buttons.

| Panel command | What happens with these settings |
|---|---|
| GO TO SCENE 3 to G1 | GTS3 runs its push-button action and activates Night. |
| GO TO SCENE 3 to G5 | DALI Scene 3 recalls Meeting. |
| GO TO SCENE 3 to Broadcast | Neither Gateway list responds. Both are set to specific groups. |

If both lists accept Broadcast, one tap can run both assignments. To combine them on Broadcast without overlap, you could use GTS0–GTS7 for actions and DALI Scene 8–15 for scenes, leaving DALI Scene 0–7 unassigned. An exported DALI device can also recall its own stored scene if the number and destination match.

### Which lights will the adjustment buttons change?

To dim Night, assign an increase or decrease action to another virtual button using Control function. Set the step in Casambi, for example 10% per tap for brightness. Give this panel button the G1 destination and the scene number of its own GTS entry. Tap Night via GTS3 first, then tap the adjustment button repeatedly. The same principle applies to shared colour-temperature adjustments.

**As on a Casambi Xpress, shared brightness and colour-temperature adjustments act on the last scene, group or luminaire activated by another virtual button on this Gateway. Calling Meeting from the 16-scene list does not select it for adjustment. Holding a panel button does not repeat the action.**

# Casambi push-button functions

Open one of the eight GTS entries to choose a function. For example, Cycle through scenes advances to the next selected scene with each tap. Resume automation releases manual control so the Casambi network can resume its programmed behaviour.

**Lights and groups**

- **Control a luminaire** — Tap to switch the luminaire on/off. Press and hold to adjust its brightness.
- **Control an element** — Tap to switch the device element on/off. Press and hold to adjust the element value.
- **Control a group** — Tap to switch a group on/off. Press and hold to adjust brightness.
- **Control scene** — Tap to activate or deactivate the scene. Press and hold to adjust the brightness of the luminaires in the scene.
- **Control all luminaires** — Tap to switch all luminaires on/off. Press and hold to adjust brightness.
- **Control priority** — Toggles scenes with control priority on and off.
- **Control function** — Changes the active preset, mode or control target.

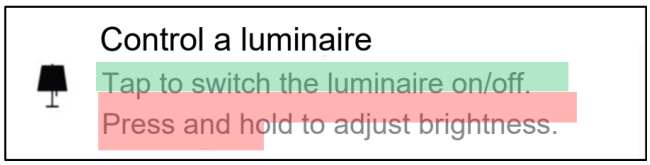
**Colour and scenes**

- **Adjust a luminaire colour temperature** — Tap or press and hold to adjust the colour temperature.
- **Adjust a group colour temperature** — Tap or press and hold to adjust the colour temperature.
- **Adjust all luminaires colour temperature** — Tap or press and hold to adjust the colour temperature.
- **Cycle through scenes** — Tap to cycle through selected scenes. Press and hold to adjust the brightness of the current scene luminaires.
- **Active/Standby** — Tap to switch between two scenes. Press and hold to adjust the brightness of the current scene.
- **Resume automation (group)** — Disables manual control of the affected luminaires and resumes automated lighting.
- **Resume automation** — Disables manual control of the affected luminaires and resumes automated lighting.

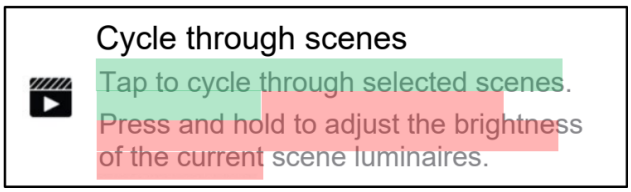
**Other functions**

- **Presence** — Activates a scene when presence is detected. When presence is no longer detected and the linger time expires, the scene is deactivated using a fade time.
- **Presence/Absence** — Activates a scene when presence is detected. When presence is no longer detected and the linger time expires, the absence scene is activated using a fade time.
- **Absence** — This is not a direct control. It disables manual control of the affected luminaires when presence is no longer detected and the linger time expires.
- **Cycle through modes** — Tap to cycle through the configured luminaire modes and Off. Press and hold to adjust the luminaire brightness.
- **Control function** — Changes the active preset, mode or control target.

## What happens on a short press?




Tap to switch the light on or off.




Tap to advance to the next scene.

The green text describes the short press sent by this panel. The red text describes a held press on other switches. To adjust in steps from this panel, assign a suitable Casambi function to a separate virtual button and tap it repeatedly.

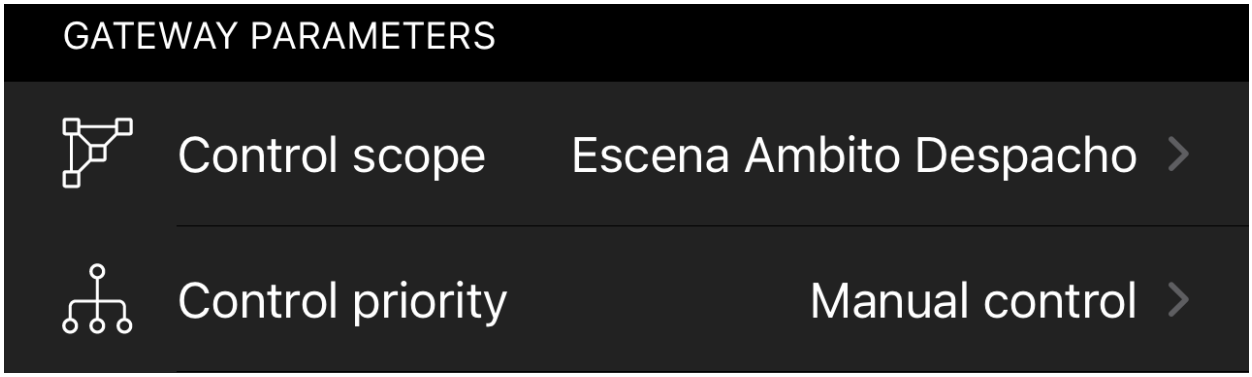
**If GTS3 was the last virtual button used to select a target and it activated Night, the shared brightness and colour-temperature buttons adjust Night. Calling Night from the 16-scene list alone does not select it for those adjustments.**

# Choose which luminaires DALI can control

Use this mode when you want the panel to control the luminaires themselves. The Gateway presents compatible Casambi luminaires to the panel as DALI control gear, typically DT6 for brightness and DT8 for tunable white or colour. If you only need Casambi scenes or virtual push buttons, you can skip this setup.

### Select the Control scope in Casambi

Before discovering any addresses, open More > Gateways > DALI-TOUCH 3.4 AC > Gateway Parameters > Control scope. Choose which luminaires to make available to DALI.




Here the installer has selected a Casambi scene containing the office luminaires.

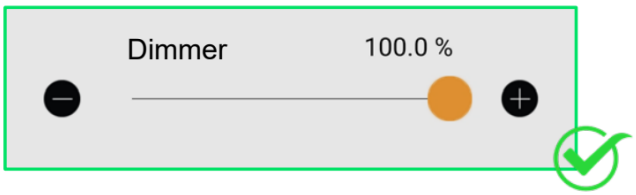
| Scope | When to use it |
|---|---|
| All luminaires | Choose this to control the whole network by DALI Broadcast. Compatible luminaires within the scope can respond even without an individual DALI address. |
| A Casambi scene | Create a scene containing just the luminaires you want to control, then select it here. The Gateway uses the scene to select its members. Selecting it does not recall its lighting levels. |

**For individual control, up to 64 Casambi luminaires can have a DALI short address. If the scope includes more, the selection of 64 is random. To choose exactly which luminaires get addresses, use a scope scene with up to 64 compatible luminaires. Broadcast still reaches all compatible luminaires in the selected scope.**

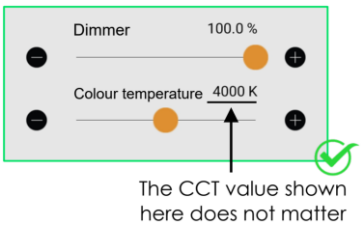
Check the Casambi profiles before addressing. A main dimming slider or white and colour controls are good starting points. Some switch inputs can be exported separately as DALI input devices. The following examples show which luminaire controls can be used from the panel.

# Recognise the controls in Casambi

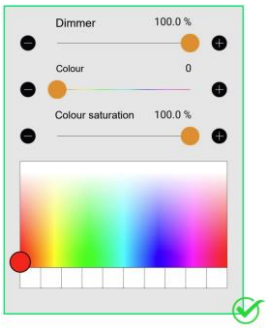
Open the luminaire's controls in Casambi and compare them with these examples. The Gateway presents compatible luminaires to the panel as DALI DT6 or DT8 gear. A different control layout may export only some functions. Test the function you need before assigning a panel button.



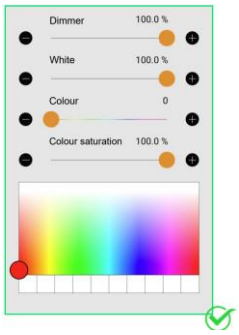

Brightness



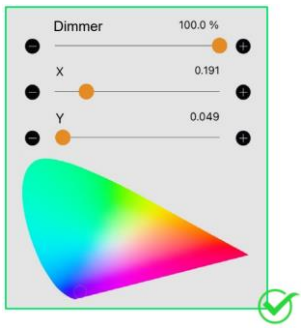

Brightness and colour temperature




RGB · Colour and saturation




RGBW · A separate White slider

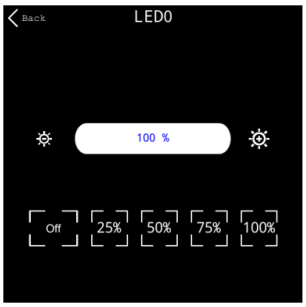



XY colour · X and Y coordinates

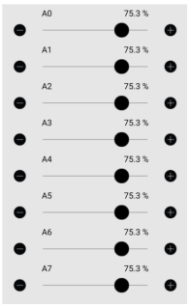
For tunable white (TC), look for a colour-temperature control. The current reading in kelvin can be any value within the luminaire's range.

### What happens when a profile has several linked sliders?

In the example, the profile links A0 to A7 to the main luminaire icon. Selecting 75% on the panel moves all eight sliders together. Each receives the same dimming level.




Tap the 75% preset




A0 to A7 follow the same level in Casambi

# Will the relay respond to the panel?

Open Luminaires in Casambi and tap the device's main icon. Watch the physical output you want to control. If the relay changes state, the panel can operate it through the exported device using ON and OFF.

### One CBU-RL-2P relay, two profiles



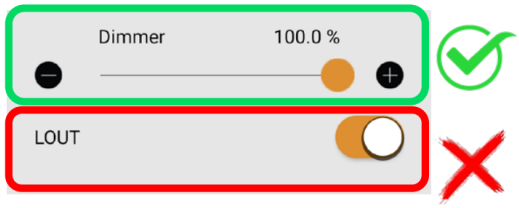
CBU-RL-2P

| Profile | | | | Description | App control | |
|---|---|---|---|---|---|---|
| Profile ID | Model / Name | Icon | Profile mode | | | |
| 39288** | Toggle | Toggle | PWM/Elements{OHI, HWTemp} | Relay profile. Toggle switch for the relay output. The All luminaires button or tapping/sliding on the profile icon DOES change the relay state. | OUT: Toggle button for the relay output (O) | OUT |
| 39289 | iToggle | iToggle | PWM/Elements{OHI, HWTemp} | Relay profile. Independent toggle switch for the relay output. The All luminaires button or tapping/sliding on the profile icon does NOT change the relay state. | OUT: Toggle button for the relay output (O) | OUT |

Compare the two OUT switches in Casambi

Both profiles show an OUT switch. With Toggle (39288), tapping the main icon changes the relay state. With iToggle (39289), only the independent OUT switch operates the relay. DALI ON and OFF therefore work with Toggle.

### A dimmer and a relay on the same device




**Dimmer** The level follows the main icon. The panel can dim this output.

**LOUT** This relay output has its own switch. Dimming the main icon leaves it in its current state.

### Other profiles with independent controls

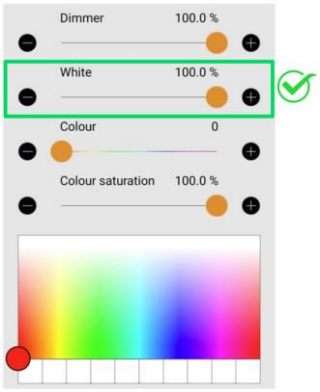



**CAS-UNI-NEMA-5P-010DA-RL-LX (0-10V Linear + iRelay)** | **R3000WCM (ON WHILE PRESS)** | **CSA2ip UP (CSA)** | **LIGA.AIR-EL.240+ (LIGA.AIR.REL-S)**

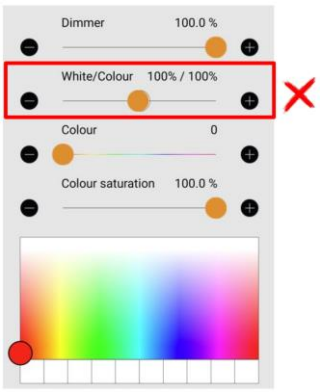
The crosses mark the product and profile combinations whose independent functions cannot be operated through the main icon.

# Check the white channel in an RGBW profile

To adjust the white channel from the DALI touchscreen, open the luminaire in Casambi and find its white-channel control. Its behaviour tells you whether the panel can adjust white independently of RGB.




RGBW · White has its own level




RGB/W · White/Colour sets a balance

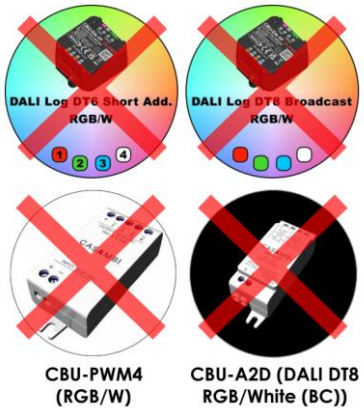
With RGBW, moving White adjusts the white channel on its own. Export the compatible device and set the panel button to DT8_RGBW. Its W slider now controls white.

With RGB/W, moving White/Colour to the left gives full white and switches RGB off. Moving it to the right gives full RGB and switches white off. DALI cannot export this balance as an independent white channel.

### Examples by profile name




Independent white channel · RGBW (DT6 or DT8), CBU-PWM4 (RGBW), CBU-A2D (DALI RGB White [auto]).




White/colour balance · RGB/W (DT6 or DT8), CBU-PWM4 (RGB/W), CBU-A2D (DALI DT8 RGB/White (BC)).

# Address and identify the luminaires

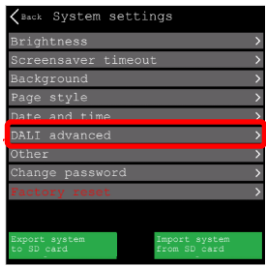
Follow these steps to control a luminaire by itself or as part of a DALI group. You can skip individual addressing when using only Broadcast or when recalling Casambi actions and scenes through the Gateway.

**1.** On the panel, hold a button for three seconds. Open System settings (factory password 00000000) > DALI Advanced (factory password 88888888) > DALI addressing. Choose Add address and wait for the results. This adds new devices and keeps existing addresses.

**2.** Even with fewer than 64 luminaires, addresses need not follow their physical order. Select a result, tap Identify address and find the flashing luminaire. Record its address, name and location, for example "A07, pendant, meeting table". You can also use Identify when selecting a button's destination.




System settings




DALI Advanced




Enter 88888888.




DALI addressing




Add the new devices.




Wait for the results.




Identify the selected address.




Check it again at the button.

We recommend addressing from the panel. Alternatively, open the Gateway in Casambi, then Details > Unit Address > Identify/extend DALI addresses.

### Set up a DALI group or store a DALI scene

For group control, open DALI Advanced > DALI group settings. Select an address and a group (G0–G15), then add the luminaire. Repeat for each member. Group membership is stored in the virtual DALI devices and is independent of Casambi groups.

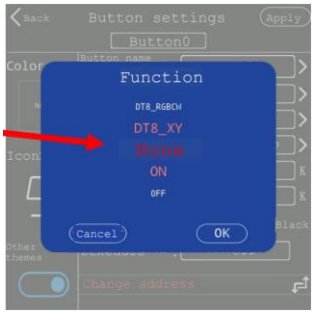
To store a lighting state, open DALI scene settings. Select the destination and scene number, set the levels or colours, then save. For example, after saving scene 2 in group G3, GO TO SCENE 2 addressed to G3 recalls the values stored in its devices. This works without creating a scene in Casambi.

# Program the direct DALI controls

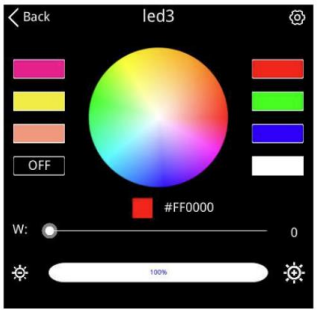
Open Button settings on the panel. Under Address, choose the luminaire you identified, its DALI group or Broadcast. Under Function, choose the control the device supports, then tap Apply.




Open Function.




Choose the control.




Example of A2 with DT8_RGBW.

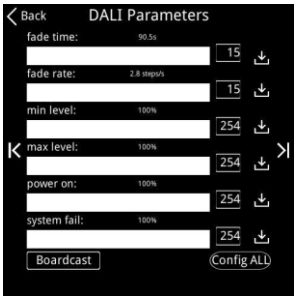
Tap the programmed button to test it. DIMMING opens a brightness slider and preset levels. DT8_TC opens the tunable white controls. DT8_RGBW opens the colour palette and independent white control. DT8_RGBCW and DT8_XY have their own screens.

**The colour controls work with compatible Casambi luminaires exported to DALI. A palette button needs a DALI destination, whether an individual address, a group or Broadcast. Recalling a Casambi RGBW scene through the Gateway does not enable the palette.**

### Set the response to repeated taps

For direct brightness control, set one button to UP and one to DOWN. With the lights on, tap repeatedly. Each press sends one command to that button's DALI destination, regardless of the last Casambi action. Holding the button does not repeat the command.

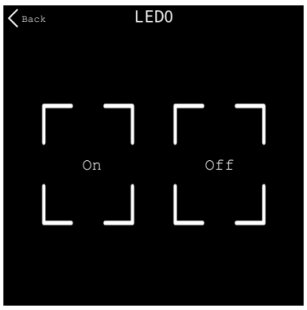
If the factory setting takes too many taps, open System settings > DALI Advanced > DALI Parameters. Select the target at the lower left. In Fade Rate, choose a higher speed in steps/s, send it using the icon on that row and test. The numeric field is a code. Fade Time, in seconds, sets the transition to a level or scene.



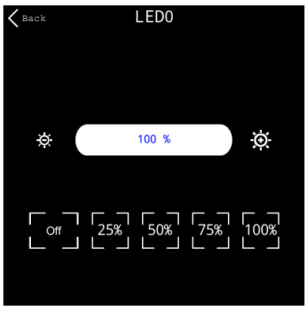

In this example, Fade Rate code 15 corresponds to 2.8 steps/s.

# Which screen does the button open?

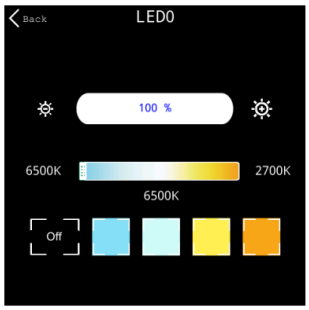
In Button settings, select the DALI destination under Address, then select a Function supported by the exported luminaire. For example, a button with Address A2 and Function DT8_RGBW opens the palette for the compatible device at A2.




SWITCH · Off switches off. On runs the configured Action.




DIMMING · Brightness slider and presets of 25%, 50%, 75% or 100%.



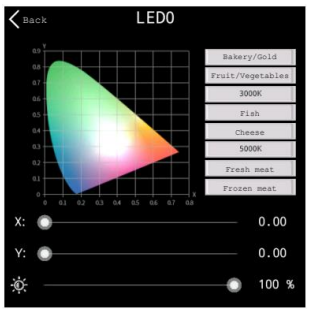

DT8_TC · Brightness, a colour-temperature slider and warm to cool presets.




DT8_RGBW · Colour palette, W slider for independent white and overall brightness.




DT8_RGBCW · RGB palette, brightness and colour temperature for tunable white.




DT8_XY · Colour palette, X and Y coordinates, brightness and colour presets.

ON, OFF, ON/OFF, UP and DOWN act from the home screen. The Action setting determines what ON does for ON, ON/OFF and SWITCH. Choose the last state, a dimming level or a DALI scene from 0 to 15.

**To use these colour controls with Casambi, export a compatible luminaire to DALI and choose its individual address, a DALI group it belongs to, or Broadcast. An RGBW luminaire recalled only by a Casambi scene or virtual button cannot be adjusted with the panel's DALI palette.**

# Seven buttons for actions and dimming

Five buttons trigger Casambi functions. The Up and Down arrows send direct DALI commands. This layout lets you try both modes on one panel.




Example seven-button layout.




Direct DALI UP.

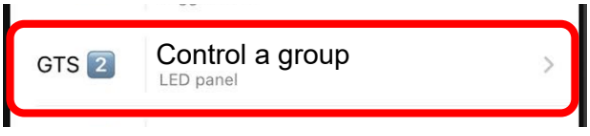



Direct DALI DOWN.

**Casambi settings.** Set Button Control Address to Broadcast and Scene Control Address to Not used. Assign GTS0 to GTS4 as shown below. Set the Control scope for the two direct dimming buttons.

| Panel button | Function / Action | Result of a tap |
|---|---|---|
| Relay | ON / Scene0 | GTS0 operates the selected relay luminaire. |
| Element | ON / Scene1 | GTS1 operates the selected Casambi element. |
| Group | ON / Scene2 | GTS2 operates the chosen Casambi group. |
| Night | ON / Scene3 | GTS3 recalls Night. |
| All | ON / Scene4 | GTS4 controls all luminaires. |
| Up / Down | UP / DOWN | Direct DALI dimming. The Action field is unused. |

Use Broadcast in the Address field of the five GTS buttons. The arrows in the screenshots also use Broadcast, so they dim every compatible luminaire in the Control scope. For a smaller area, address its luminaires, add them to a DALI group and select that group on both arrows.




**Try Group, then Night, then Up.**

Group runs GTS2. Night recalls its scene. Up still dims its own DALI destination.

To dim Night as the last selected Casambi scene, configure the arrows as virtual push buttons in Casambi. Direct DALI arrows use no GTS slots. Eight GTS buttons plus two DALI arrows occupy ten panel buttons.

# Sixteen buttons for Casambi scenes

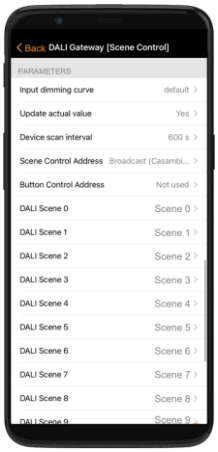
In this layout each button recalls a Casambi scene or animation. The installation needs only the scene list. You can commission the entire panel without exporting luminaires or assigning individual DALI addresses.




Names and icons identify each scene.




Button 4 sends GO TO SCENE 4.




The Gateway recalls the scene in entry 4.

**1.** Create the scenes in Casambi. In the Gateway, set Scene Control Address to Broadcast (Casambi scenes) and Button Control Address to Not used. Assign each scene to DALI Scene 0 through DALI Scene 15.

**2.** Choose the 16-button layout. In every button set Address = Broadcast and Function = ON. In Action select its own scene number. Apply each button's settings.

| Button | Action | Button | Action |
|---|---|---|---|
| Office | Scene0 | Dining | Scene8 |
| Meeting | Scene1 | Bedroom | Scene9 |
| Reading | Scene2 | Break | Scene10 |
| Relax | Scene3 | Workout | Scene11 |
| Cinema | Scene4 | Day | Scene12 |
| Party | Scene5 | Night | Scene13 |
| Home | Scene6 | All | Scene14 |
| Living | Scene7 | Off | Scene15 |

Test Cinema. It sends GO TO SCENE 4 to Broadcast and the Gateway recalls the Casambi scene assigned to entry 4. For Off, create a Casambi scene that switches the required lights off and assign it to entry 15.

# Troubleshooting

| What happens | What to check |
|---|---|
| The panel is lit but the Gateway is silent. | Check that the integrated DALI supply is on, both DALI wires reach the Gateway and the Gateway belongs to the correct Casambi network. |
| A button does nothing. | For a GTS call, check the assigned action or scene. Match its number and destination to the panel. Check Scene Control Address for scenes or Button Control Address for actions. Not used disables the corresponding list. |
| One tap triggers several changes. | Check for the same number in both Gateway lists and in scenes stored from the panel in DALI devices. Broadcast also reaches physical DALI gear on this bus. Separate overlapping lists by group or disable the unused list. |
| A light is missing or the wrong group responds. | Check Control scope, the device profile and the 64-address limit. Identify the luminaire again and check its DALI group membership. |
| The palette opens but the colour stays the same. | Check that the target luminaire is exported with compatible colour control and that the panel uses its DALI destination. Independent white requires the correct RGBW profile. |
| The virtual +/− buttons do not adjust the scene. | Activate the scene via another virtual push button on this Gateway. A recall through the 16-scene list does not select it for shared adjustment. |
| Dimming is slow or holding has no effect. | Tap repeatedly. For a virtual push button, adjust its step in Casambi. For direct DALI UP/DOWN, turn the light on, check the DALI destination and adjust Fade Rate on the receiving devices. |

## Before handover

Press each button once and check the actual lights. Test one scene recall, one virtual adjustment and one direct DALI control if fitted. Confirm the icon and label describe the result.

**Product information** Black panel · White panel · CBU-DCS-DALI-TOUCH 3.4 AC