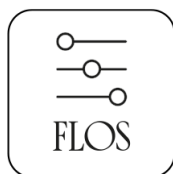
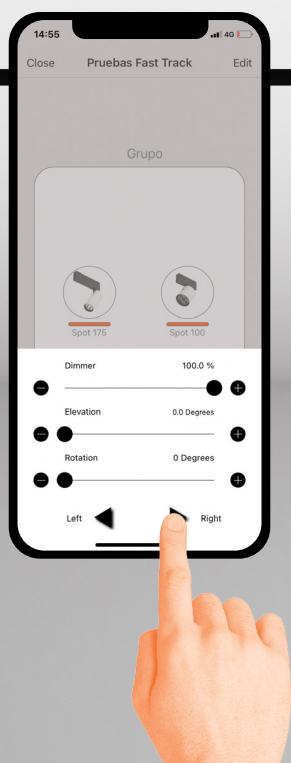


FLOS

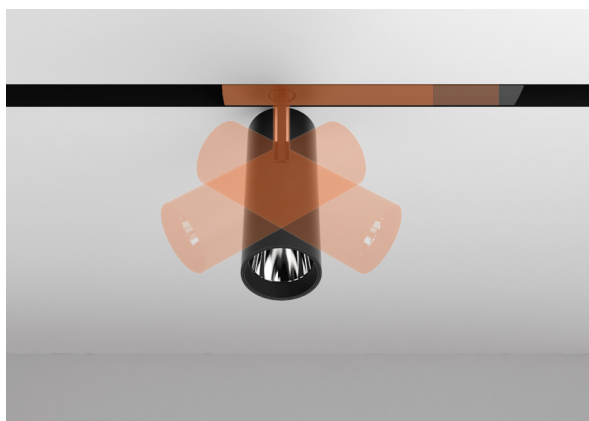
FLOS Control App User Guide **Fast Track**



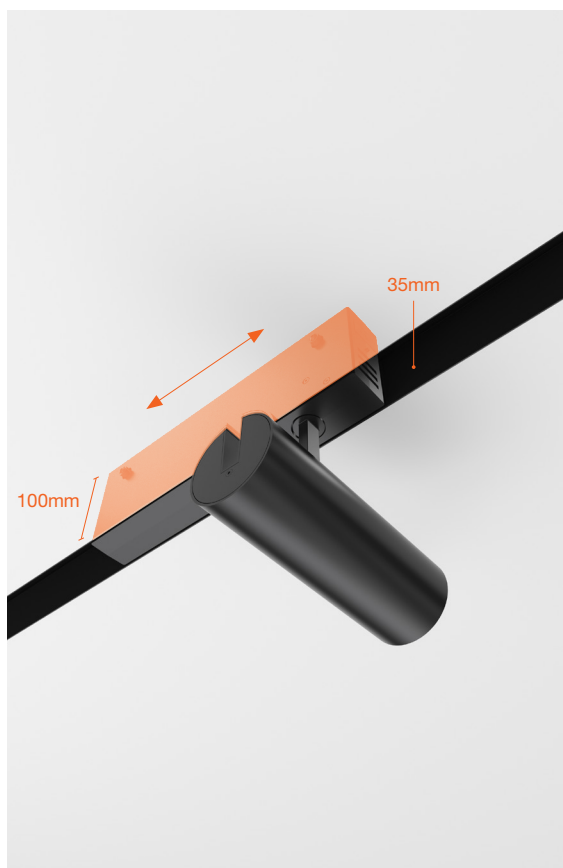
Flos Control®
Powered by Casambi

INTRODUCTION

The Fast Track system allows to move and guide motorized projectors along the structure. Featuring high efficiency versions with optics from superspot to flood and easy handling through the exclusive FLOS Control® app powered by Casambi this revolutionary product allows movement management in the three axes: rotation, tilting and translation.



NOTE: *Beside the remote control available for this series each luminaire has special features integrated*



End of stroke buttons:

Each Spot has two buttons in each side of the track adapter with multiple functions pre-set:

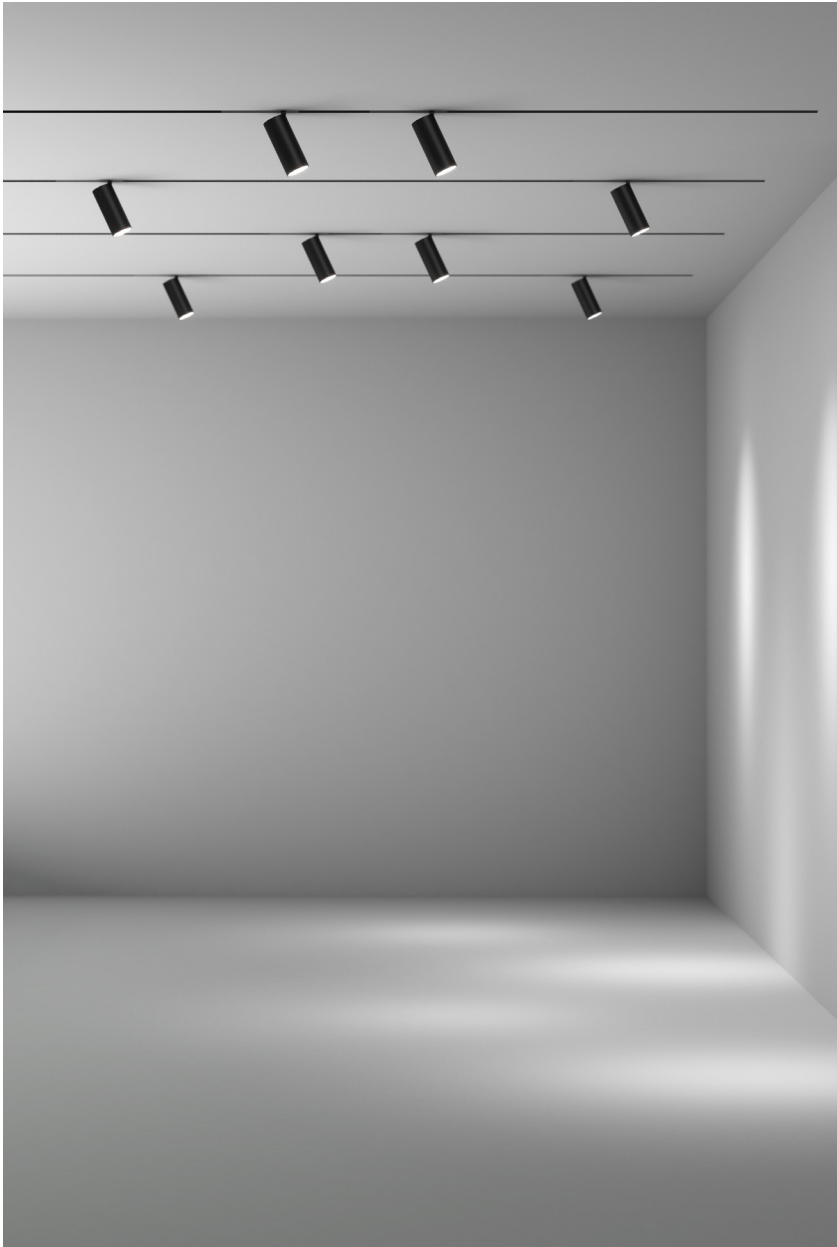
When translating a fixture, if it reaches another luminaire, the end of the track or some other obstacle, the button is pressed and stops immediately the translation motor to prevent overheating.

Manually pressing the button a number of times:

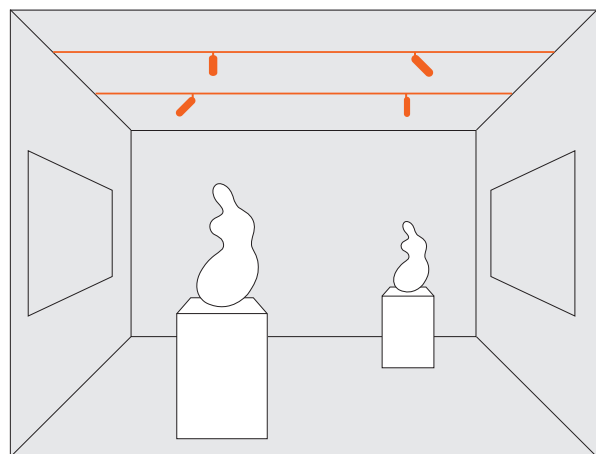
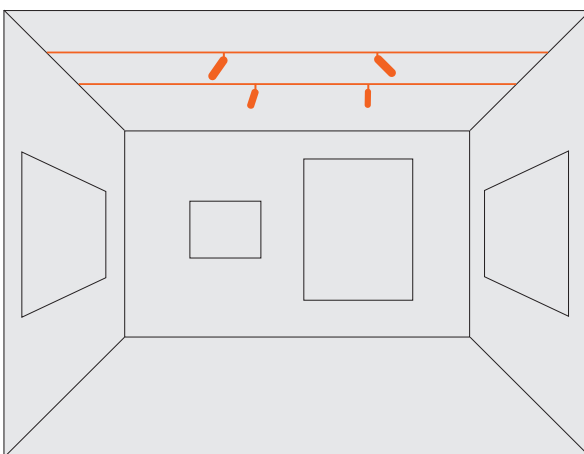
5 times: homing.

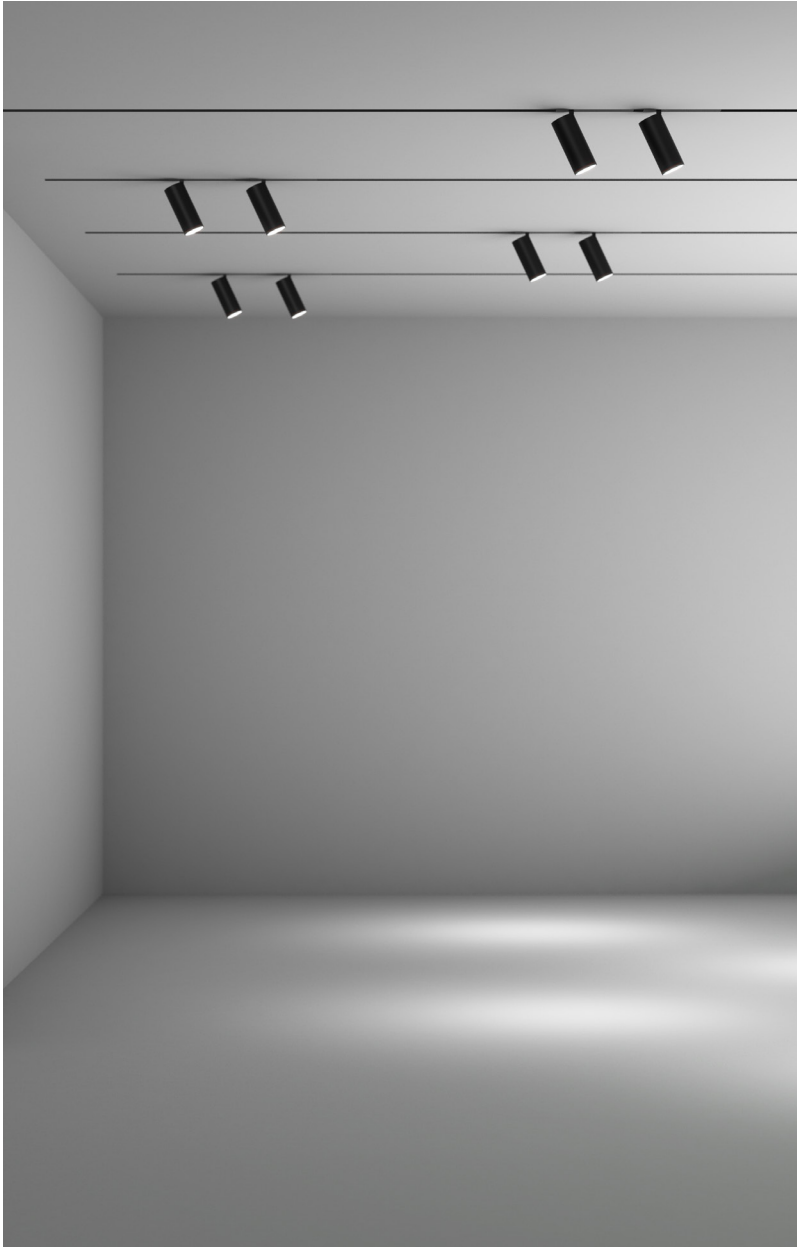
7-9 times: Spot testing (short translation forward and backward, 90° elevation and 360° rotation).

13 times or more: all Spots in the same network blink.

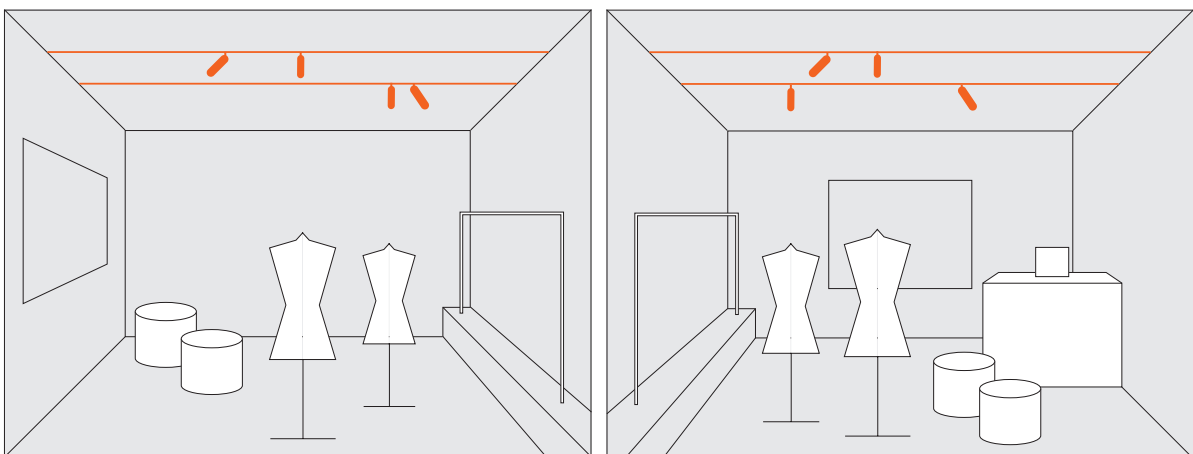


Thanks to the application you can set up each luminaire, save their orientation and generate a lighting scenario.





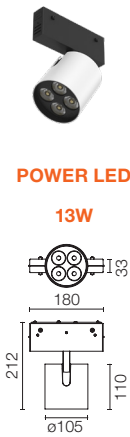
The application also offers the possibility of scenario management and scheduled activation.



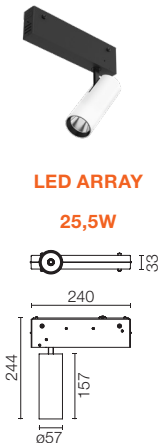


LIGHT MODULES

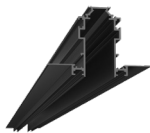
THE FAST TRACK
SPOT 100



THE FAST TRACK
SPOT 150



RECESSED



14 Black
14 Negro

SURFACE



40 White
40 Blanco

14 Black
14 Negro



14 Black
14 Negro



BW White
BW Blanco



Table of contents

12	Introduction
12	System Overview
13	Using the FLOS Control App
13	First time use
13	Taking luminaires into use: Additional info
14	Luminaires
14	Basic Gestures
16	Using a group
17	Creating a group
17	Editing a luminaire control
19	Changing a device profile
19	Gallery
19	First time use
20	Controlling luminaires
21	Arranging the pictures
21	Scenes
23	Daylight control
24	Creating Animations
26	Time-based scenes
28	App Settings
28	App Settings
28	Help

Note: This manual compiles the basic functionalities of the Fast Track Casambi. For more information, please refer to the general manual.

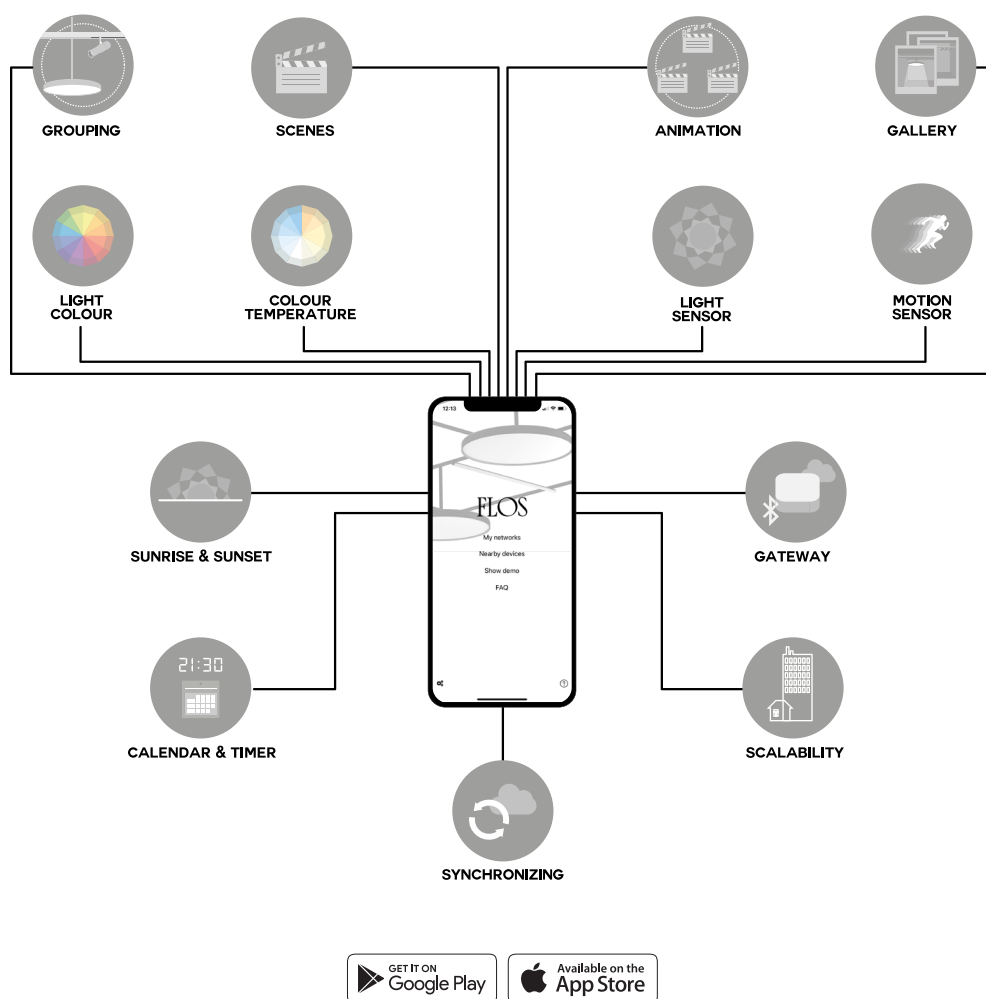
System Overview

Casambi is an advanced lighting control solution based on Bluetooth Low Energy (BLE). Bluetooth Low Energy is the only low power wireless technology in all modern smartphones, tablets and even smart watches, making it the only mainstream and future proof low power radio technology in the world.

Casambi technology can be integrated into luminaires, LED-drivers and even within LEDmodules or bulbs, creating an optimal solution in terms of ease of installation and functionality with minimal additional hardware and deployment costs.

Casambi technology provides a mesh network where all the intelligence of the system is replicated in every node. This means that there are no single points of failure.

FLOS Control app works as one of the user interfaces in a Casambi lighting control solution, the commissioning tool and also as a remote gateway. FLOS Control app works with iOS and Android devices, like smartphones, tablets and smartwatches. The app is free to download from Google Play and Apple App Store.



Using the FLOS Control App

First time use

FLOS Control app is easy to use. Follow these simple steps:

1. Download the app from Apple App Store or Google Play Store.
2. Switch on your Casambi enabled luminaires.
3. Open the app.
4. FLOS Control app will automatically find all Casambi enabled luminaires that are switched on.
5. Select Take all luminaires into use
6. FLOS Control app will automatically add all of the located luminaires to one network and open the 'Luminaires' tab.

FLOS Control app has four tabs: Luminaires, Gallery, Scenes and More. All of these will be covered in this document.

Taking luminaires into use

When first taking all luminaires into use the FLOS Control app will automatically create a network. All the luminaires are added to the same network so that they can be easily controlled from the Luminaires tab. One luminaire can only be in one network at a time. When a luminaire is part of a network it is in a 'paired' state and cannot be added to any other network before 'unpairing'. i.e. removing it from the network.

The network that is automatically created is always a Not shared network. This means that the network is only stored on the device that has created it and is not shared with other devices. If you would like to share the network you need to change the network sharing. Go to the More tab and select Network setup > Sharing settings. Select Sharing settings to change the sharing mode. There are four different sharing modes: Not Shared, Administrator only, Password protected and Open.

When you select Administrator only, Password protected or Open mode the network will be uploaded to cloud server and then it can be accessed also from other mobile devices. Remember to add also an email address and a password for the network so it can be recovered later if needed.

Luminaires

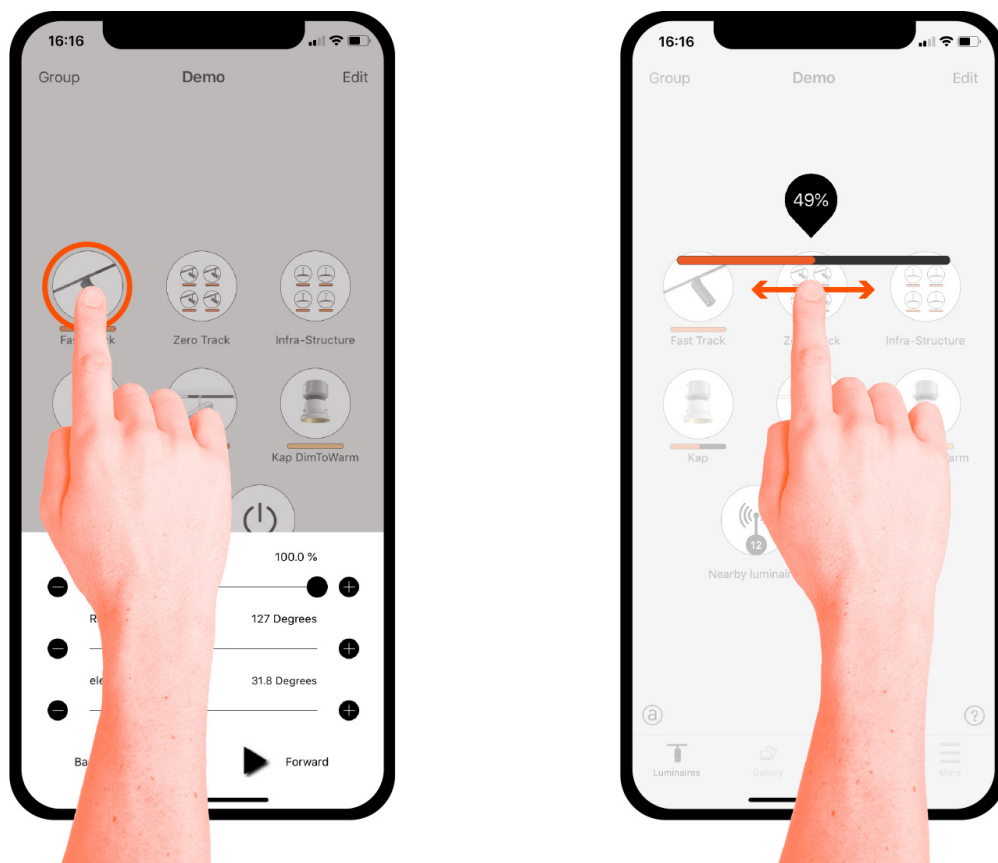
Basic Gestures Fast Track

After you have taken your luminaires into use they are displayed in the Luminaires tab with a picture, name and the current brightness level.

Here are the basic gestures to control your lights:

To turn off or on your luminaire just tap the luminaire control.

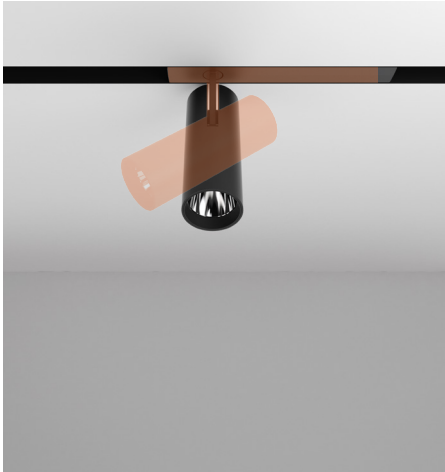
Pan the luminaire control left or right to adjust the light level of the luminaire. The app will remember the last light level, so when you turn on the light on again it will return to the previous level.



Tip: use the basic gestures on the All luminaires icon to control all of your lamps simultaneously or Nearby luminaires icon to control luminaires that are close to you.

Beside standard gestures available, Fast track enables one more function.

Tap and hold the luminaire to control movement of the fixture within the track.



- **Elevation slider:** set the elevation degree of the head of the Spot from 0° to 90°.
- **Rotation slider:** set the rotation degree of the head of the Spot from 0° to 360°



- **Right button:** tap and hold to move the Spot forward along the track.
- **Left button:** tap and hold to move the Spot backward along the track



NOTE: tap and hold Forward button and Backward button at the same time for 1 second to do a “homing” (The head of the spot will go to 0° elevation and 0° rotation automatically and it will try to correct any misalignment). This is necessary to do when the lamps are taken out of the box and installed for the first time.

Using a group

After creating a group you can control all of the luminaires within it simultaneously.

Use the normal gestures - select, pan and hold - to control the whole group. If you would like to control luminaires separately, even if they are part of a group, just double tap the group to expand it and a separate screen will open which then allows you to control the luminaires separately.

1. Note that groups are predominantly designed for manual control, whereas scenes are designed primarily for automation. **The same luminaire can be used in multiple different scenes.** See the Scenes section later for more information.

After creating a group with Fast Track luminaires Use the normal gestures available for Fast Track. All functions will be available – Dimming, Elevation and Rotation – except for the Right and Left buttons.

If you would like to control luminaires separately, even if they are part of a group, just double tap the group to expand it and a separate screen will open which then allows you to control the luminaires separately.



Creating a group

There are two ways to create a group:

1. Select **Group** at the top of the screen and select the lamps for the group by tapping them. Create the group by tapping the 'folder' icon on top. At the top you can also see + or - icons. They can be used to select or deselect all luminaires. Tap **Done** to save the changes.
2. Select **Edit** at the top of the screen. Drag the lamp controls on top of each other to create a group.

If you want to add more lamps into the group, select **Edit** and drag and drop them on top of the group.

If you want to edit the group just select the group while in edit mode and it will open for editing.

In the edit window you can rename the group and remove lamps from it by dragging and dropping them outside the group area.

When you have finished editing the group, select **Done** and **Close** to go back to luminaires tab.

If you want to remove a group just select **Edit** or **Group** and then select the X sign in the corner of the group icon.

Editing a luminaire control

To edit a lamp control either double tap the lamp control you want to edit or tap on the **Edit** on top of the screen and select the lamp control you want to edit.

In the edit screen there are multiple options. You can adjust the luminaire's state, mode, smart-switching features and control hierarchy options etc.

MODES: Modes can be use to store different dimming levels, colours or colour temperatures. To edit a mode, select and hold the **Default** or Mode X text and an Edit option will appear. Select Edit and then adjust the luminaire's settings as needed. The mode will be automatically saved after adjusting and exiting the luminaire setting. NOTE: the Default option is used to set the luminaire state after a power cut. For Fast Track luminaires edit the Default option to set the Spot state after a power cut, including head position.

SMART SWITCH and PUSH BUTTON: Smart-switching and Push Button allow you to select the mode for a luminaire's switch, depending on the type of Casambi device which you are using. For detailed information about *smart-switching* and push-buttons,

please see the *Smart Switching* and Push Button sections of this document.

DEDICATED DAYLIGHT SENSOR: This option allows you to select a daylight sensor which can affect the luminaire. You can also adjust the *Daylight gain* for this luminaire using the slider.

STARTUP STATE FOR POWER ON: Allows you to set the luminaire to use either the Default mode (default light level) or Last state when switching on the luminaire. The Last state option will cause a luminaire to go to the same dimming level and colour which were previously in use before the luminaire was switched off. You can also configure minimum and maximum dimming levels for the luminaire. The luminaire will always operate within these restriction, although dimming to 0% will always turn off the luminaire.

NOTE: *For Fast Track luminaires select the Spot to use either the Default mode or Last state when switching on the Spot. If user didn't select Last state, each time power is cut off and on again, the Spot will go to default position, which means that the head will go to 0° elevation and 0° rotation if you did not change the 'Default mode' state.*

MANUAL CONTROL: The *Behaviour* and *Timeout* options allow you to over-ride the network's default manual control settings and create individual options for an individual luminaire. Select *Behaviour* to change how manual control should work for the luminaire and select *Timeout* to over-ride the default timeout value.

NOTE: *the Manual Control option will only appear if Use control hierarchy is enabled in the Control options section of the network settings.*

INFORMATION: Within this section you can change the luminaire's name and create a new icon which replaces the luminaire's default image. The icon can be an existing picture from your device's photo gallery or you can take a new photo. The Details section also displays further technical information about the luminaire. Some luminaires, such as Fast track Spots, also allows to Select Appearance; This will let you choose between different sets of icons and product names (ex. Spot 100 or Spot 150).

UNPAIR DEVICE / REPLACE DEVICE: Use the *Unpair device* option to remove a luminaire from a network. If a luminaire has become damaged and is powered off, the Replace device option can then be used to replace a luminaire. When using the Replace device option, an identical luminaire device must be used. This allows all of the previous settings for the luminaire to be used by the new luminaire device.

Changing a device's profile

A Casambi device's profile may need to be changed depending on the type of luminaire which it controls. For example, different profiles are required for 1ch dim, 2ch dim, RGB, TW etc. To change a devices profile:

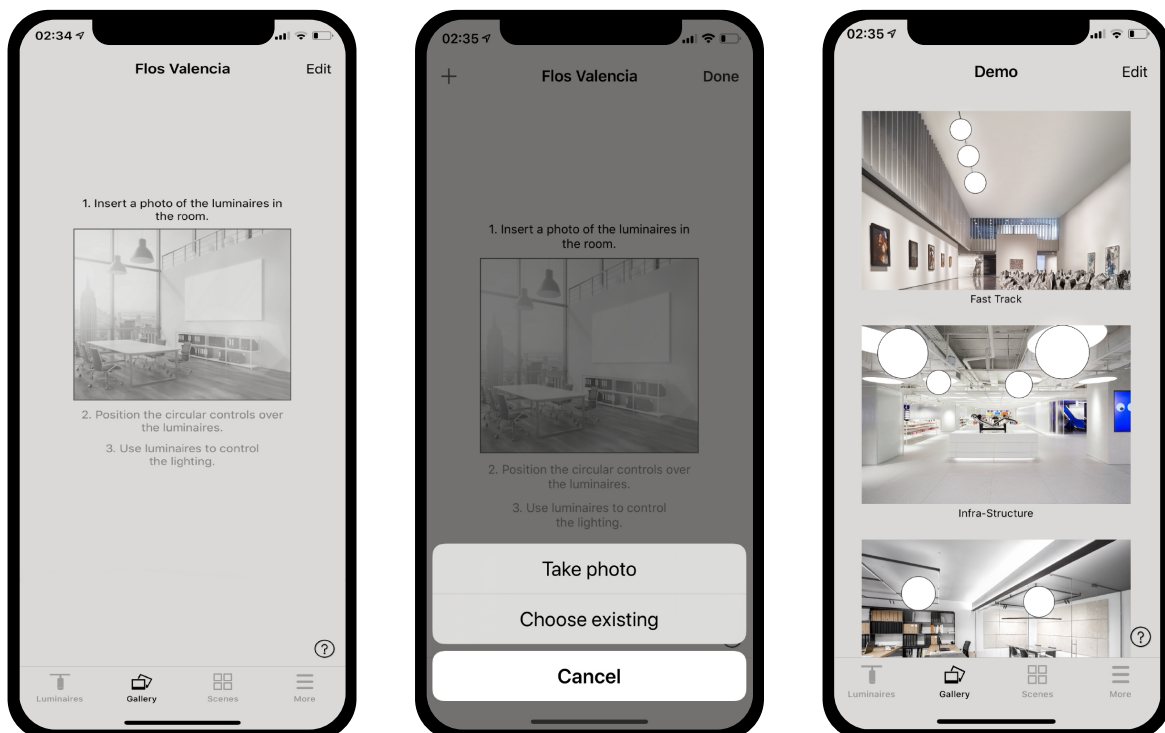
1. Unpair the device from your network
2. Select the device from the **Nearby Devices** list
3. Choose the **Change profile** option
4. Select the correct profile from the list
5. Once the profile has been configured, add the device to your network.

Gallery

First time use

The Gallery in FLOS Control app is the most intuitive way of controlling your luminaires. Take a picture of the room where your luminaires are and place lamp controls over them in the photograph.

To add the first photograph, select the black and white image and choose whether you want to take a photo or use an existing picture from your device's gallery.



After you have taken a photo or selected a photograph it is added to the Casambi Gallery.

The next step is to add lamp controls to the picture.

Tap on the **+** sign to open the selection screen containing your luminaires

Select a luminaire that is in the photograph and confirm your selection using **Done**. If the required luminaire is in a group, first double tap the group and you can then select the required luminaire.

A lamp control circle will appear in the centre of the photograph. Drag the control circle on top of the luminaire. You can resize the circle by pinching.

If you have more than one luminaire in the picture tap on **+** sign to add other controls. When you have added controls over all of the luminaires in the photograph, select **Done**.

To return to the Gallery and add more photographs, select **Close**.

If you would like to add more photographs, select the **+** on top of the Gallery screen. If the **+** sign is not visible, select **Edit** and the **+** sign will appear.

Tip: take a panorama picture of your room to capture more luminaires in one photo. Alternatively, use a graphical floor plan of your building to control luminaires based on their location.

Controlling luminaires

After adding at least one photo you can open it from Gallery and control the luminaires in it from the photograph. Tap on a photograph to open it in full screen.

Use the normal gestures, select, pan and hold on the lamp control circles to control the luminaires in the picture.

If you open the photograph in portrait orientation then related scenes are shown next to it. The scene icon is shown if even one lamp in the photograph is part of the scene.

Tip: pan or hold anywhere outside the control circles in the photograph to dim or change colour for all luminaires simultaneously.

Arranging the pictures

You can arrange the order and change the size of photographs in Gallery.

First select **Edit** at the top of the screen.

In edit mode you can drag and drop photographs to arrange them.

If you want to resize the photographs, move the orange bar up or down between the photographs. Note that this feature is only available for Apple iOS.

Confirm the changes by selecting **Done**.

Scenes

Scenes allow you to create different lighting situations for different occasions. Multiple luminaires can be controlled with a single scene to create perfect ambience for different needs. The same luminaire can also be used in multiple scenes. Note that a basic scene must first be created before time-based scenes and animations can be created. And a scene is active when it's highlighted.

Scenes can be a powerful tool, specially for Fast Track Spots. Many head positions (or different luminaires aiming settings) can be saved as scenes to recall them later easily.



Select **Edit** and **+** then enter a name for the scene and select **Add a scene**. Select and adjust the luminaires for this scene. With **+** you can add all luminaires and with **-** you can remove all luminaires from the scene. You can adjust the luminaires separately or if you want to have same dim level or colour for all you can use **Luminaires in scene** control to adjust all luminaires in the scene.

If you want to add luminaires that are in a group, double tap the group to open the selection screen. If you want to add all luminaires in the group to the scene tap on the **+** sign on left bottom corner. Or if you want to remove all the luminaires in the group from the scene tap on the **-** sign

To adjust all the luminaires in the group use basic gestures anywhere on the group area (in iOS app). In Android app close the group with **Close** and then you can adjust all luminaires in the group from the group control icon.

Luminaires can also be added from a gallery image. Simply open the appropriate gallery image and select the required luminaire(s).

To change the name, icon and colour for the scene control, select the settings icon in the bottom right corner. Use the colour palette to define a colour for the scene icon, if required. A scene can also be hidden from the user view by selecting the **Hidden** option. To return to the scenes tab, select **Done**.

To create more scenes just select the **+** sign at the top of the scenes tab. You can also copy scenes by selecting and holding an existing scene. A copy will then be created in edit mode and the number 2 will appended to the scene name.

Tip: also select any luminaires which should be off during the scene and adjust their brightness level to 0%.

Daylight control

To change the daylight control mode, select the Settings icon in the bottom right corner and then choose the Daylight control option. Below is a description of each available setting:

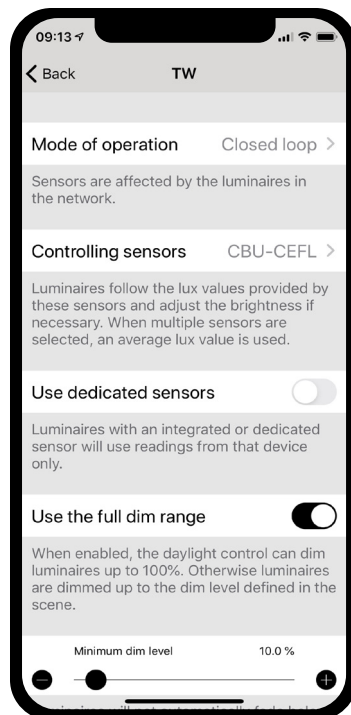
Basic (ON/OFF) Luminaires will switch ON or OFF based on two configurable Lux threshold levels. Sensors may or may not be affected by the nearby luminaires and the mode only operates when it is the highest priority item on control hierarchy. The scene's output is always defined by the dimming level(s) of the luminaires selected within the scene.

Open loop Luminaire output level (0-100%) is obtained by comparing the sensor's lux reading against a response graph. Sensors should not be affected by the luminaires in the network and this mode can operate on the control hierarchy even if it is not the highest priority item. Some examples of this are: a group of luminaires controlled by a daylight sensor installed in a separate location to the luminaires, or controlled by a sensor facing towards a window away from the luminaires.

Closed loop A target lux level is manually specified and the sensor will actively try to reach and maintain the lux level via a feedback loop (by observing the results of its own changes). Sensors are affected by luminaires and this mode can only operate when it is the highest priority item on the control hierarchy. An example of this is a group of luminaire controlled by a daylight sensor located in the same area as the luminaires.

External Similar to the open loop option, but is based on a 0-100% dimming signal rather than a Lux level. This option is designed to be used to combine a Casambi unit with a sensor which is not Casambi-activated. Examples include a CBU-ASD connected to a non-Casambi activated sensor, or when dimming is performed by an external DALI controller or DALI 2 sensor.

Casambi-ready sensors created by our partners already contain the Casambi firmware so there would be no need to use the External option with those devices



Creating Animations

In the Scenes tab it is also possible to create animations. Animations are a special type of scene that fade from scene to scene. Animations can be activated in the same way as standard scenes and it is also possible to set animations to repeat.

NOTE: although creating animations is possible as a succession of scenes, this function is not encouraged with Fast Track Spots. Infinite movement animations can bring the Spots to fail.

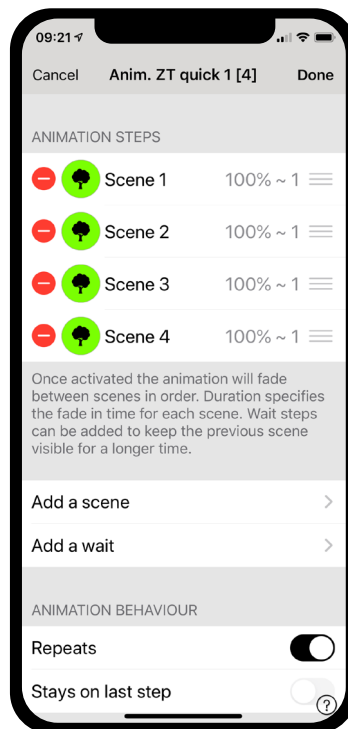
Select **Edit** and then the **+** in the top right corner. Then select **Add an animation**. At least one scene must already exist in order to create an animation.

Next you need to add animation steps. Steps are scenes and waiting times. You can add as many steps as you like.

Example animations:

Add Scene Red, fade time 10 sec
 Add wait 3 min
 Add Scene Blue, fade time 10 sec
 Add wait 5 min
 Add Scene All Off, fade time 10 sec

This animation above will fade in to scene Red within 10 seconds and Red will be active for 3 minutes. Then the scene Red will fade into scene Blue in 10 seconds and Blue will be active for 5 minutes and fade out in 10 seconds.



Under the GENERAL section you can set the animation to repeat. You can also change the name, colour and icon. The animation can also be hidden from the Scenes tab view if needed. It will, however, reappear once **Edit** has been selected.

When you have finished editing the animation, select **Done**. The time displayed next to the animation's name is the total time length of the animation.

Please note that non-repeating animations can not be used with time-based scenes.

Tip: you can also use timers to control animations. This way an animation can be turned on and off based on time.

Example animations:

Add Scene Red, fade time 10 sec
 Add wait 3 min
 Add Scene Blue, fade time 10 sec
 Add wait 5 min
 Add Scene All Off, fade time 10 sec

This animation above will fade in to scene Red within 10 seconds and Red will be active for 3 minutes. Then the scene Red will fade into scene Blue in 10 seconds and Blue will be active for 5 minutes and fade out in 10 seconds.

Add Scene SHOWROOM1, 100% fade time 1 sec

Add wait 15 sec
 Add Scene SHOWROOM1, 0% fade time 1 sec
 Add Scene SHOWROOM2, 100% fade time 1 sec
 Add wait 15 sec
 Add Scene SHOWROOM2, 0% fade time 1 sec
 Add Scene SHOWROOM3, 100% fade time 1 sec
 Add wait 15 sec
 Add Scene SHOWROOM3, 0% fade time 1 sec
 Repeat ON

This animation above will fade in to scene SHOWROOM1 within 1 second and be active for 15 seconds before fading off (to 0%) within 1 second. Then the scene SHOWROOM2 will fade on in 1 second and remain active for 15 seconds before fading off (to 0%) within 1 second. Then the scene SHOWROOM3 will fade on in 1 second and remain active for 15 seconds before fading off (to 0%) within 1 second. The whole animation will then repeat itself.

Time-based scenes

Time-based scenes can be used to alter dimming levels of scenes at specific times. While this can also be achieved by using a timer, a time-based scene has its advantage in that it can be triggered so that a luminaire is not permanently on. For this reason they are primarily designed to be used with presence sensors.

For example:

A time-based scene (Kitchen lwr1 timed) is created to set scene Kitchen lower 1's dimming level at 40% between 08.00 and 21.00. Between 21.00 and 08.00, the dimming level will be 15% (to not disturb people if the scene is activated during the night).

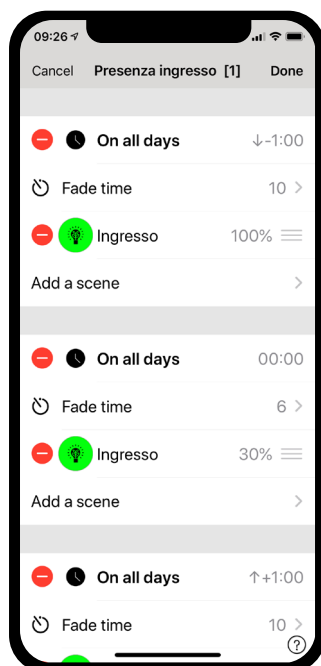
The scene is not running 24 hours / day. Instead, a presence sensor triggers scene Kitchen lwr1 timed whenever presence is detected. Depending on when the time-based scene is triggered, it then sets the dimming level of scene Kitchen lower 1 appropriately.

To create a time-based scene, follow the same procedure for a basic scene, but then choose:

- the time and days when it should alter the basic scene
- the fade time
- the basic scene
- the basic scene's dimming level

Multiple conditions can be added using the **Add a condition** option.

Please note that non-repeating animations can not be used with time-based scenes.



App Settings

The App settings page offer the following options:

- change the FLOS Control app's language
- Automatically select the previous network you used
- enable/disable un-paired device notification
- enable/disable Bluetooth luminaires
- enable/disable a Philips Hue bridge
- enable/disable help buttons
- enable/disable the Site feature
- Send feedback to Casambi Technical Support (also used to request diagnostic trouble-shooting feed back)
- Reset application

Note: the Reset application option will reset all app settings, data and also delete any networks that you have visited from the device. Use this option with caution.

Help

This sections displays a list of Frequently asked questions (FAQ) and release notes for Casambi each software version.

Note: This manual compiles the basic functionalities of the Fast Track Casambi. For more information, please refer to the general manual.

