



INNERSCENE

Virtual Sun User Guide

A complete reference to every screen of the Virtual Sun controller interface.

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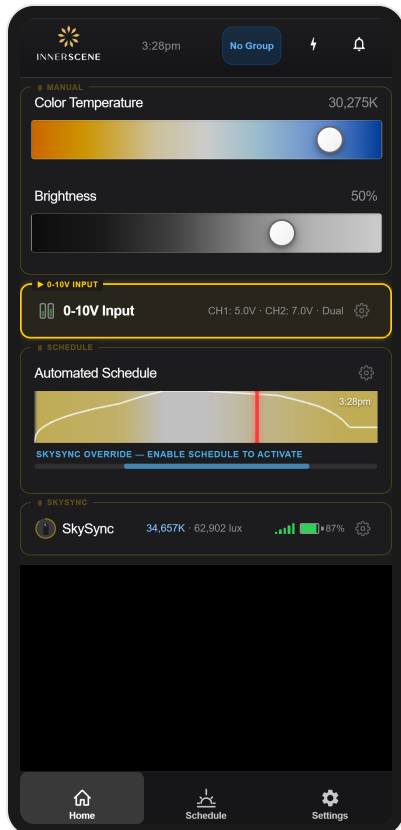
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Connecting to Your Fixture

There are two ways to set up and control a Virtual Sun fixture: the **Innerscene Studio** mobile app, which pairs over Bluetooth, or the fixture's built-in **WiFi web interface**, which works from any browser with no app required. Both reach the same controls, so use whichever is convenient.

With the Innerscene Studio app

Innerscene Studio is the official app for iOS and Android. It pairs with any nearby fixture over Bluetooth, with no QR codes or provisioning portals, and is the recommended way to control fixtures day to day.



The Innerscene Studio home screen.

[Download on the App Store](#)

[Get it on Google Play](#)

1. Install **Innerscene Studio** from the App Store or Google Play.
2. Open the app within Bluetooth range of the fixture. Nearby fixtures appear automatically in the device list, each showing its wireless group, firmware version, and signal strength.
3. Tap a fixture to connect. If it has a password set, you will be prompted to enter it.
4. You're in. Adjust color temperature and brightness, edit the schedule, pair a SkySync sensor, configure daughterboards, and update firmware, all from the app.

The in-app device list and password prompt are documented under [Device Connection](#) and [Authentication](#) in this guide.

Over WiFi (web interface)

Every fixture broadcasts its own WiFi network for direct configuration from any device with a browser, no app required. Use this for spec-time setup, fixtures shipped before Bluetooth support, or any device without the app.

Virtual Sun fixtures synchronize over wired Ethernet. The Studio app (Bluetooth) and the fixture's WiFi web interface are used only for configuration.

Primary vs Secondary fixtures

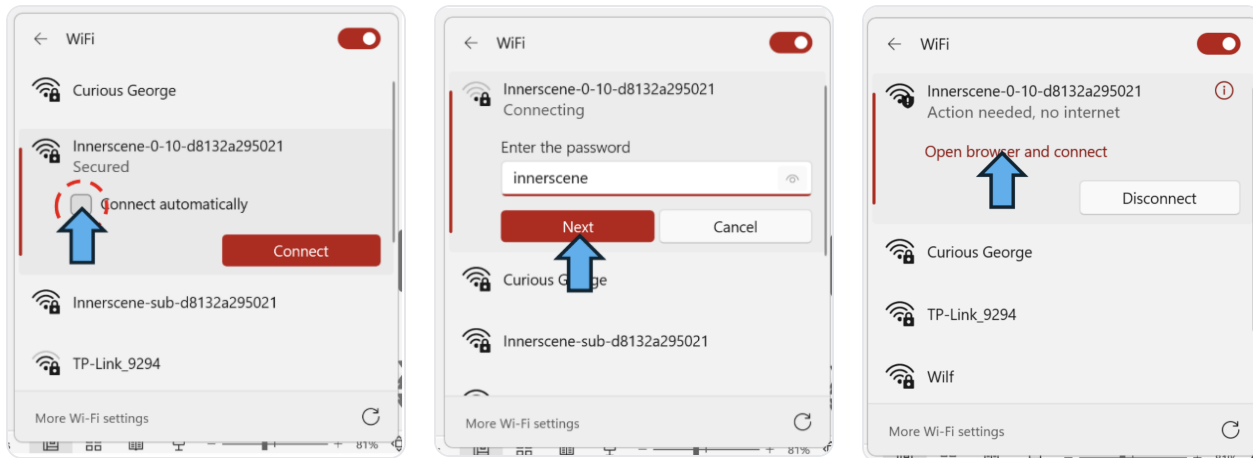
A **Primary** fixture has a daughterboard, receives external control (0-10V, DALI, DMX, Casambi), holds the clock battery backup, and broadcasts state to Secondaries over Ethernet. Configure schedules, time, and control settings here. Its network is named `Innerscene-<control-type>-XXXX`.

A **Secondary** fixture has no daughterboard and simply follows its Primary automatically over Ethernet. Its network is named `Innerscene-sub-XXXX`. You rarely need to connect to a Secondary directly.

The Primary's SSID prefix tells you the control type: `Innerscene-0-10-...` (0-10V), `Innerscene-dmx-...` (DMX), `Innerscene-dali-...` (DALI), `Innerscene-cas-...` (Casambi). The trailing characters are the fixture's MAC address; recording which suffix maps to which physical fixture makes future maintenance much easier.

Connecting

1. On your phone, tablet, or laptop, open WiFi settings and look for a network starting with `Innerscene-`. (iOS: Control Center, long-press the WiFi tile. Android: long-press WiFi in Quick Settings. Windows: WiFi icon in the taskbar. macOS: WiFi icon in the menu bar.)
2. Connect to the network. The default password is `innerscene` unless it has been changed. Turn off **Connect Automatically** so your device does not keep rejoining the fixture instead of your normal internet.
3. If your device warns there is no internet, choose to stay connected anyway (on iOS, tap **Use Without Internet**). The fixture's network is intentionally offline.
4. Open the configuration interface. The captive-portal page usually opens on its own; if it does not, browse to `172.30.0.1`.



Select the network; uncheck
Connect Automatically

Password: innerscene

Open the browser to reach the
interface

Connecting on Windows; the steps are similar on macOS, iOS, and Android.

Auto time sync: opening the web interface on a Primary fixture sets the fixture's clock from your device automatically. No manual time entry needed.

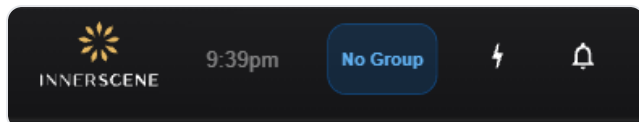
Set a custom password

Fixtures ship with the default password `innerscene`. Change it from **Settings** → **Advanced** → **WiFi/BLE Configuration** → **Password**. The home screen also shows a reminder banner while the default is still in use. See the [Device Password](#) screen.

Record any password change. If the new password is lost, the only recovery is a factory reset (six power cycles with a 5-second pause between each), which reverts every setting.

Identify which fixture you are connected to

When several fixtures are installed in the same area, tap the **Identify** icon (lightning bolt) in the top bar of the web interface (or in the app) and the connected fixture flashes briefly so you can confirm which one it is.



The Identify icon (lightning bolt) sits in the top bar,
between the group badge and the bell.

Set the group (mixed installations)

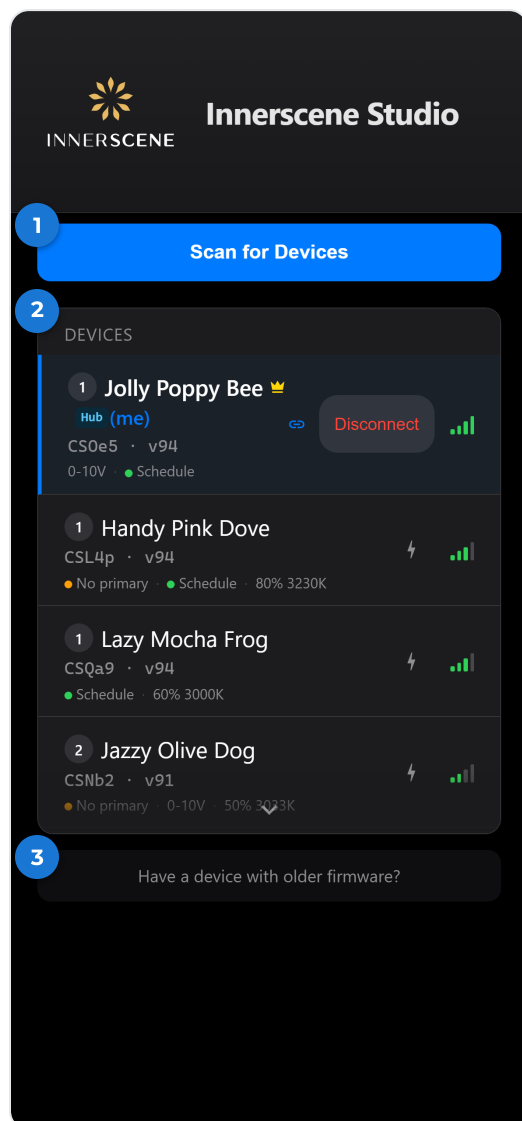
In a Virtual Sun-only deployment, fixtures on the same Ethernet switch or router synchronize automatically, so no group number needs to be set. A group number is only required for mixed installations that combine Virtual Sun and Virtual Sun fixtures controlled together. To set it, tap the group badge on the home screen (or **Wireless Group** under Settings), pick a number from 1 to 15, and confirm the reboot prompt. See the [Wireless Group](#) screen for details.

Troubleshooting

- **Can't see the network.** Stand within about 30 ft of the fixture; walls and metal can reduce range significantly.
- **Default password rejected.** Someone has changed it. If it cannot be recovered, factory-reset by power-cycling six times with a 5-second pause between each cycle, which restores the default `innerscene` password.
- **Browser shows "No Internet."** Expected: the fixture's WiFi is intentionally offline.
- **Can't reach 172.30.0.1.** Confirm you are on the fixture's network and not your normal WiFi.

Device Connection App only

Device Connection



The device scanning and connection screen shown when the app launches. Scans for nearby Innerscene fixtures via Bluetooth and displays them as a list with signal strength, status, and identify controls.

How This Screen Works

This is the first screen you see when opening the Innerscene Studio app. It scans for nearby Virtual Sun fixtures via Bluetooth Low Energy (BLE) and displays them as a list.

Each device in the list shows its name, wireless group number (as a colored circle), firmware version, signal strength bars, and a live status line with current brightness, CCT, and active control source. Devices marked with a crown icon are primaries in their wireless group.

Tap any device to connect. If the device has a password set, you will be prompted to authenticate. Once connected, the app navigates to the Home screen where you can control the fixture.

The "Scan for Devices" button starts a fresh 10-second scan. Devices you have connected to before appear immediately with a "(me)" label. The Legacy WiFi Upgrade link at the bottom is for devices running older firmware that does not support Bluetooth connections.

Controls & Options (6)

1 Scan for Devices

Starts a Bluetooth Low Energy scan for nearby Innerscene fixtures. Discovered devices appear in the list below as they are found. The scan runs for about 10 seconds.

2 Device List

Shows all Innerscene fixtures discovered during the scan. Each device shows its name, wireless group number, signal strength bars, firmware version, and live status (brightness, CCT, active source). Tap a device to connect.

3 Legacy WiFi Upgrade

For devices running older firmware that does not support Bluetooth. Opens the Legacy Firmware Upgrade screen where you connect to the device's WiFi network and upload firmware directly.

4 Title Bar *(conditional)*

Shows the Innerscene Studio branding and connection status indicator at the top of the screen.

5 Stop Scanning *(conditional)*

Stops the active Bluetooth scan. Use this if you have already found the device you want to connect to.

6 Simulator *(conditional)*

A built-in simulator option for testing the app without a physical fixture. Only visible in development and demo modes.

Device Authentication App only

Devices › Authentication

[< Devices](#)



CONNECTED TO

1 Lobby East 1x4

This fixture requires a password to continue.

 Flash this fixture

Not sure which one? Tap to flash it.

PASSWORD

2 Enter password

3 Remember password for this device

4 **Authenticate**

If you don't know the password, contact your administrator.

Password prompt shown after selecting a device. The device requires authentication before you can control it. The default password is "innerscene".

Controls & Options (5)

1 Device Name

Shows the name of the device you are connecting to. This name is derived from the device's Bluetooth broadcast name.

2 Password Field

Enter the device password to authenticate. The default factory password is "innerscene". Your administrator may have changed this.

3 Remember Password

When checked, the app stores the password locally so you don't have to enter it each time you connect to this device.

4 Authenticate Button

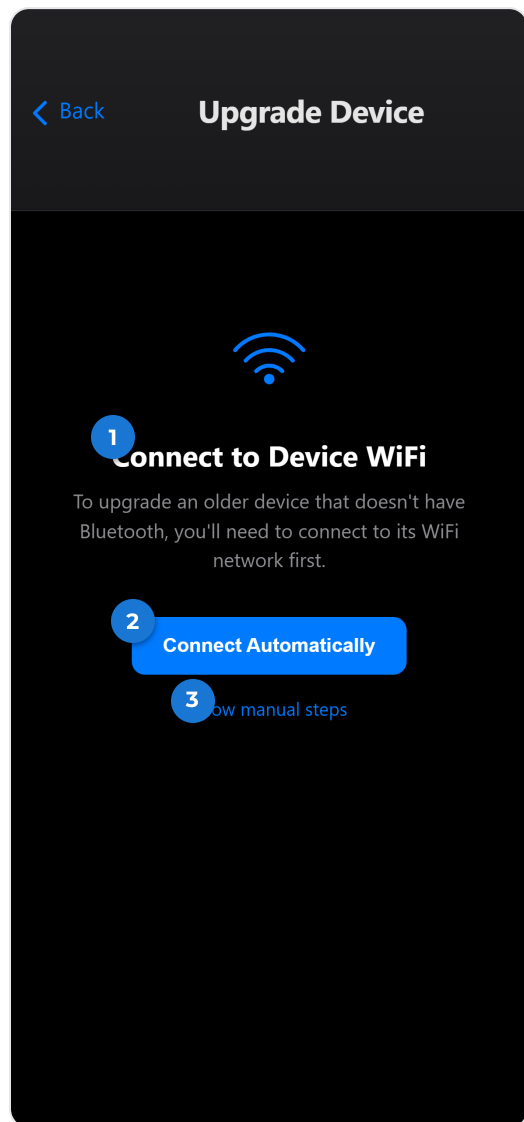
Sends the password to the device. If correct, the app connects and navigates to the Home screen. If wrong, an error message is displayed.

5 Status Message *(conditional)*

Shows the result of the authentication attempt — success, incorrect password, or connection error.

Legacy Firmware Upgrade App only

Devices › Legacy Firmware Upgrade



WiFi-based firmware upgrade for older devices that do not support Bluetooth connections. The Innerscene Studio app joins the fixture's built-in Wi-Fi access point with one tap and then uploads firmware directly over HTTP.

Controls & Options (3)

1 Step Title

Shows the current step of the upgrade process: "Connect to Device WiFi", "Device Found", "Uploading Firmware", or "Upgrade Complete".

2 Connect Automatically

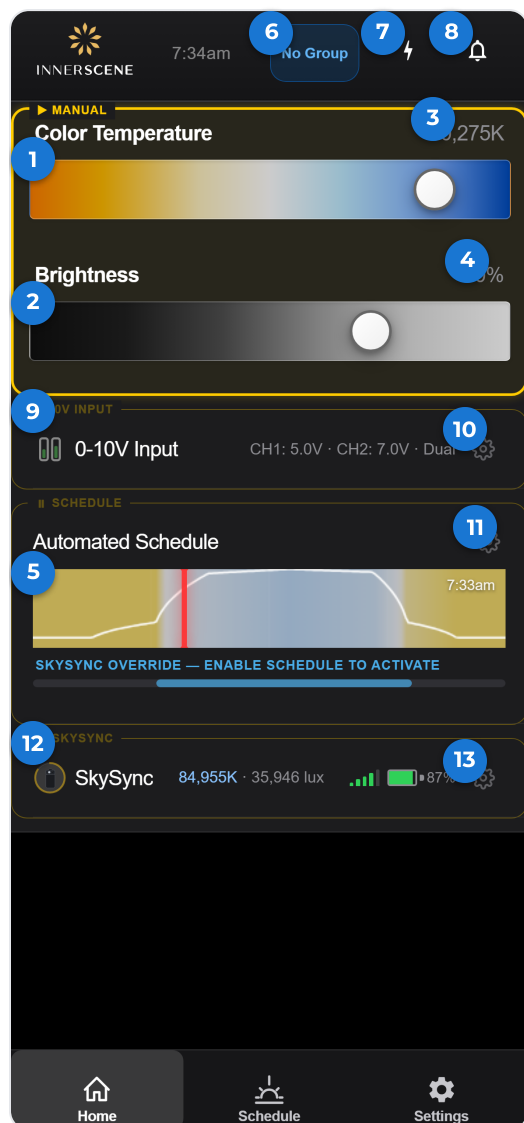
One-tap join: the OS prompts to join the fixture's Wi-Fi network (an SSID starting with "Innerscene-"). The app waits for the connection, probes the fixture at 172.30.0.1, and advances to the firmware comparison step. The phone rejoins your previous Wi-Fi when the upgrade finishes.

3 Show Manual Steps

Reveals the manual fallback: open phone Settings, pick the Innerscene network, return to the app. Use this if the automatic join cannot be used (for example, the fixture is not using the default Wi-Fi password, or the phone is on Android API 28 or older).

Home

Home



Main control screen with CCT and brightness sliders, quick presets, and schedule preview.

How This Screen Works

The home screen is organized as a vertical stack of control cards. At the top is the Manual section with color temperature (CCT) and brightness sliders for direct control. Below that, additional cards appear based on your device's configuration: 0-10V/DALI/DMX external inputs, the Automated Schedule with its preview graph, and a SkySync outdoor light sensor row.

At any given time, one card is the active controller — indicated by a yellow highlight border. This is the control source currently driving the fixture's light output. When you adjust a slider or enable the schedule, that card becomes the new active controller and receives the yellow highlight. When SkySync is linked to the schedule, both cards share a connected highlight to show they work together as a single control source.

Most cards have a ⚙ gear icon on their right side. Tapping the gear opens that card's dedicated settings page without changing which controller is active. For example, the schedule gear opens the schedule editor, while the SkySync gear opens sensor configuration. This lets you adjust settings without interrupting the current control mode.

Cards appear and disappear dynamically based on what peripherals are connected. SkySync appears when a sensor is linked, and external input cards appear when a daughterboard is installed. The bottom navigation bar provides quick access to the Home, Schedule, and Settings screens.

Controls & Options (19)

1 CCT Slider

Adjusts the color temperature of the light from warm (2200K) to cool/blue sky (200000K+). Drag left for warmer, right for cooler light.

2 Brightness Slider

Controls the light output from 0% (off) to 100% (full brightness). The percentage is shown to the right of the slider.

3 CCT Value

Displays the current color temperature setting in Kelvin (K).

4 Brightness Value

Displays the current brightness as a percentage.

5 Schedule Preview

Shows today's lighting schedule as a graph. Tap to toggle schedule mode on/off. Long-press to open the schedule editor.

6 Wireless Group Badge

Shows the current wireless sync group number. Tap to configure wireless group settings.

7 Identify Button

Flashes the physical light fixture to help identify which device you're controlling.

8 Messages

Shows notification messages from the device. Badge number indicates unread count.

9 0-10V Input

Shows the current 0-10V analog input readings (CH1 and CH2 voltage levels) and mode (Dual/Single). Appears when a 0-10V daughterboard is installed. Tap the row to select 0-10V as the active controller. The ⚙ gear icon on the right opens 0-10V configuration where you can set the input mode, channel mapping, and response curve.

10 0-10V Settings Gear

Opens the 0-10V Configuration page where you can set the input mode (Dual/Single channel), voltage trim, filter response, and dimming curve.

11 Schedule Settings Gear

Opens the Schedule Editor where you can add, edit, and remove schedule time points, set active days, and configure schedule behavior. This is different from tapping the schedule graph itself, which toggles the automated schedule on or off.

12 SkySync

Displays live SkySync outdoor light sensor readings: sky color temperature, ambient color temperature, and illuminance (lux). Signal strength bars and battery percentage are shown on the right. When SkySync is linked to the schedule, both cards share a connected yellow highlight indicating they work together as the active controller. The ⚙ gear icon opens SkySync Settings including calibration, aiming, and update interval.

13 SkySync Settings Gear

Opens the SkySync Settings page where you can configure the sensor update interval, sky CCT weight, ambient CCT weight, and illuminance response. Also provides access to Sensor Hardware info, calibration, and aiming tools.

14 Surface Lux *(conditional)*

Shows the measured light level at the surface in lux. Only visible when enabled in Diagnostics settings.

15 WiFi Status *(conditional)*

Indicates the device is connected to a WiFi network. Tap for network details.

16 Disconnected *(conditional)*

Indicates the device has no WiFi network connection.

17 Channels *(conditional)*

Opens individual LED channel control for fine-tuning white, cool, green, blue, and sun channels.

18 Password Reminder *(conditional)*

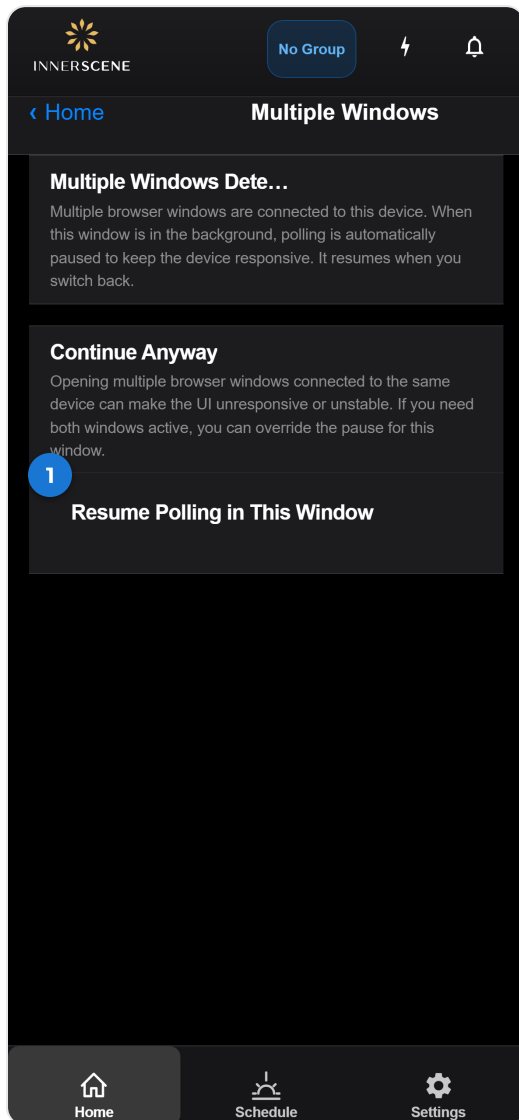
Banner reminding you to change the default device password for security.

19 Calibration Banner *(conditional)*

Indicates a calibration session is in progress. Tap to view calibration status.

Multiple Windows

Home › Multiple Windows



Warning shown when the device interface is open in multiple browser windows on the same network. Polling is automatically paused in inactive windows to keep the device responsive — this page lets you override that pause for the current window.

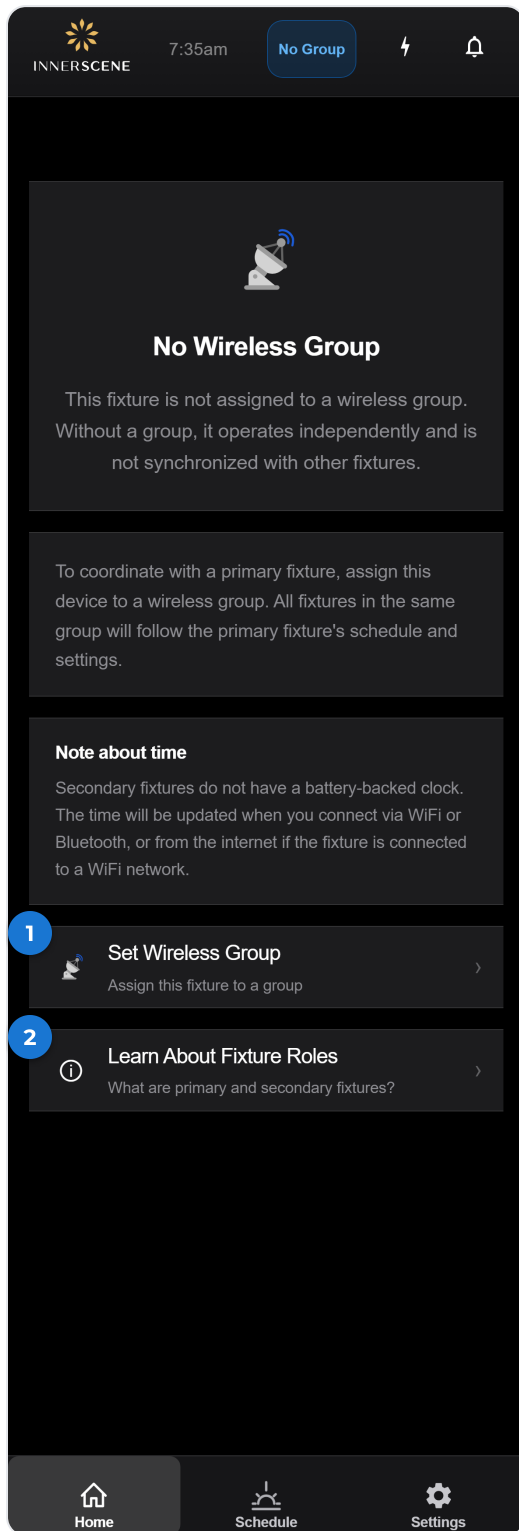
Controls & Options (1)

1 Resume / Pause Polling

Overrides the automatic background-pause for this window. The label toggles between "Resume Polling in This Window" and "Pause This Window" depending on the current state. Use carefully: running active polling from multiple windows against the same device can cause UI instability or unresponsiveness, so prefer closing the duplicate window when possible.

Secondary — No Wireless Group

Home › No Wireless Group



Shown on a secondary fixture that has not been assigned to a wireless group. Without a group the fixture operates independently and does not synchronise with anything. Offers a shortcut to assign it to a group and a link to learn what primary/secondary fixtures are.

Controls & Options (2)

1 Set Wireless Group

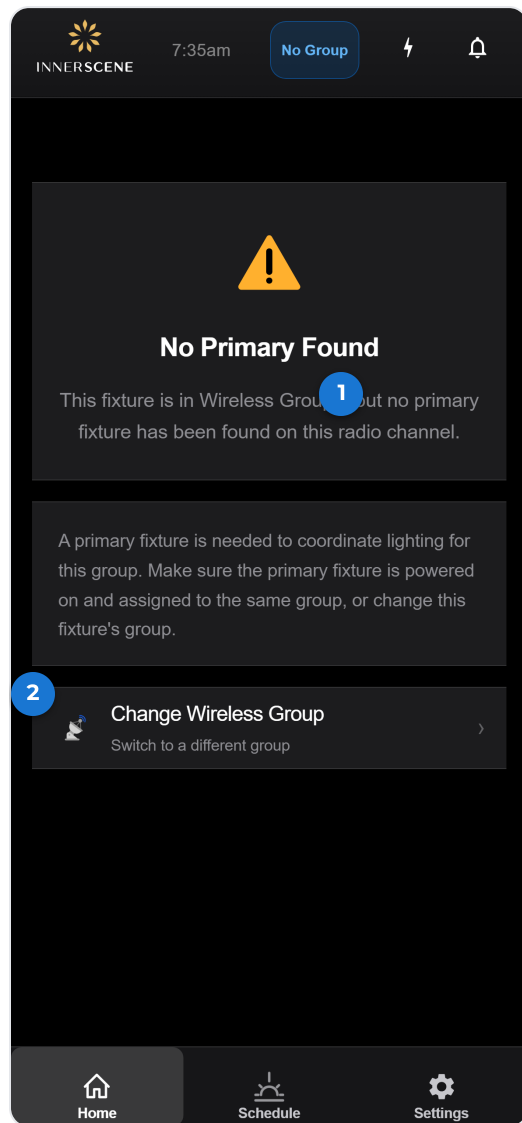
Navigates to the Wireless Group page so you can assign this fixture to a group. Pick the same group as the desired primary fixture and this device will start following that primary's schedule and settings.

2 Learn About Fixture Roles

Opens the Fixture Roles explainer covering what a primary fixture is, what a secondary fixture is, and how wireless groups tie them together.

Secondary — No Primary Found

Home › No Primary Found



Shown on a secondary fixture that is in a wireless group but cannot reach a primary fixture on this radio channel. The schedule and lighting state come from the primary, so without one the fixture is stuck. Offers a single recovery — change the wireless group — for cases where the secondary was provisioned to the wrong group.

Controls & Options (2)

1 **Current Wireless Group**

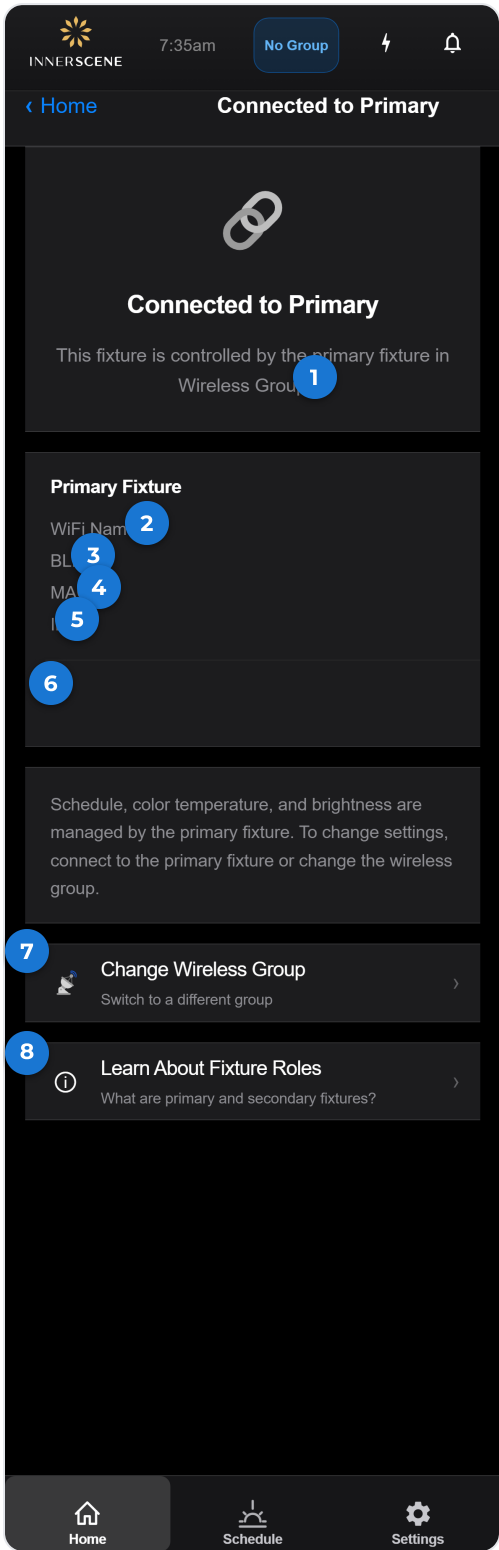
The wireless group this fixture is in. Inlined into the headline so you can see which group has no primary at a glance.

2 **Change Wireless Group**

Navigates to the Wireless Group page so you can move this fixture to a different group — useful if the secondary was provisioned to a group with no primary fixture installed.

Secondary — Connected to Primary

Home > Connected to Primary



Healthy-state page on a secondary fixture: it is in a wireless group and has located the primary fixture for that group. Shows the primary's WiFi/BLE/MAC/IP for identification, optionally offers a one-tap switch to connect this browser session directly to the primary, and provides shortcuts to change group or learn about roles.

Controls & Options (10)

1 Current Wireless Group

The wireless group both fixtures share. The primary in this group is the one whose details appear below.

2 Primary WiFi Name

The hostname/SSID-suffix of the primary fixture — useful for matching it to a device label or to a network you might want to connect to.

3 Primary BLE Name

The Bluetooth Low Energy name advertised by the primary fixture. Use this if you want to find the primary in a BLE scanner.

4 Primary MAC Address

WiFi MAC address of the primary fixture. Unique per device and useful for identifying which specific fixture is acting as primary in this group.

5 Primary IP Address

Local IP address of the primary fixture on the WiFi station network, if the primary is connected. Lets you open the primary's control page directly from your browser.

6 Connection Help

Context-sensitive guidance — depending on what addressing info is available (BLE only, BLE + IP, neither), this text explains how to reach the primary.

7 Change Wireless Group

Navigates to the Wireless Group page so you can move this fixture to a different group — for example to detach from the current primary or join a different room's grouping.

8 Learn About Fixture Roles

Opens the Fixture Roles explainer.

9 Connect Section (*conditional*)

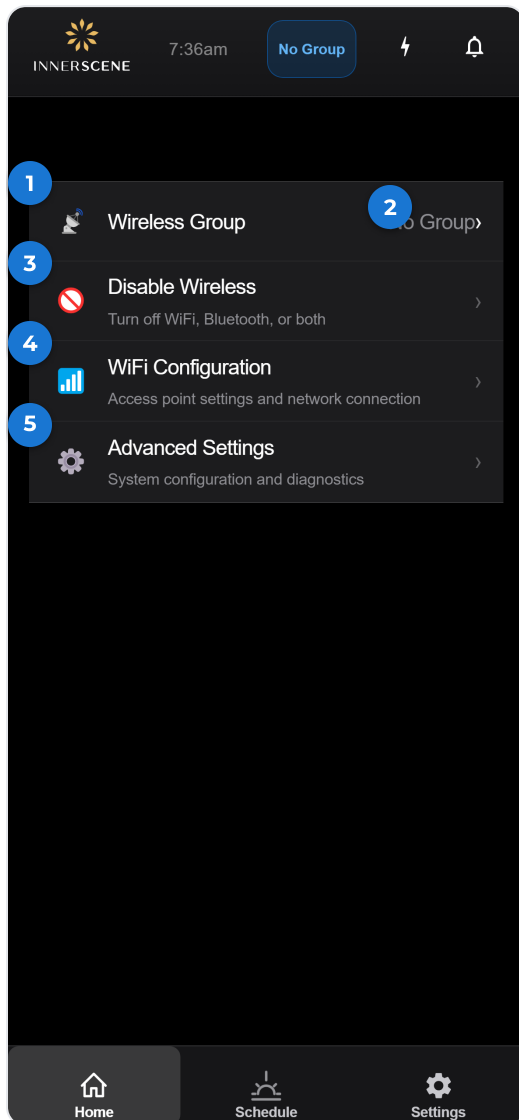
Conditional section shown when BLE or STA IP for the primary is available. Wraps the Connect to Primary button.

10 Connect to Primary (*conditional*)

Switches this browser session over to the primary fixture's control interface. Useful when you opened the secondary by accident and want to control the schedule/CCT instead — those settings only live on the primary.

Secondary Settings

Home › Settings (Secondary)



Simplified Settings page shown on secondary fixtures. Secondaries do not have their own schedule, CCT, brightness, or daughter-board controls (those come from the primary), so the menu is reduced to just the wireless and system-level controls that still apply locally.

Controls & Options (5)

1 Wireless Group

Opens the Wireless Group page. The current group is shown on the right (e.g. "Group 3" or "No Group"). Changing this re-targets which primary this secondary follows.

2 Current Group Value

Inline value of the current wireless group. Updates immediately when the group is changed on the next page.

3 Disable Wireless

Opens the Disable Wireless page to permanently turn off WiFi, Bluetooth, or both on this fixture — typically used in installations with strict RF policies. Note: the action is a one-way burn into NV storage and cannot be reversed from the UI.

4 WiFi Configuration

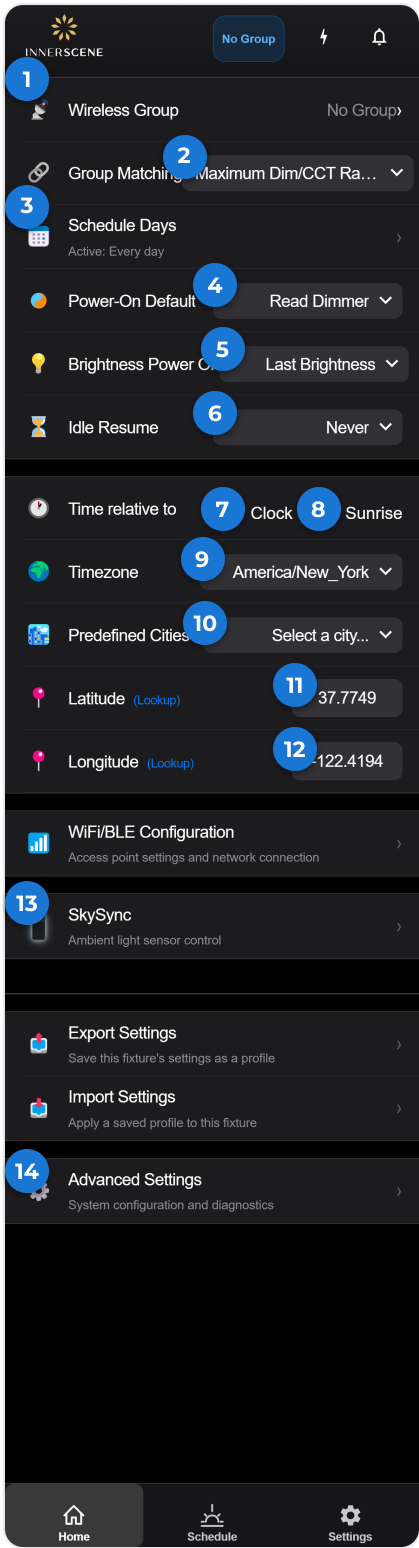
Opens the WiFi Configuration page where you can manage this fixture's WiFi access point and station settings.

5 Advanced Settings

Opens the Advanced Settings hub. From there you can reach diagnostics, hardware control, firmware updates, and other system-level tools — all of which apply to the secondary itself, not the primary it follows.

Settings

Home > Settings



Configure device behavior including schedule, time settings, location, weather, and connected accessories.

Controls & Options (17)

1 Wireless Group

Configure wireless synchronization group. Devices in the same group sync their lighting state using Innerscene's proprietary wireless protocol.

2 Group Matching

Controls how a wireless group handles members that are not identical. Maximum surface lux varies with fixture size, and the smaller sizes are the brighter ones at the surface: a larger fixture emits more total light, spread over more area, so its peak surface lux is lower. All Virtual Sun fixtures cover the same CCT range whatever their size, so color temperature only has to be reconciled in a group that mixes product lines. "Maximum Dim/CCT Range" lets each fixture use everything it is capable of. "Match Dim/CCT Ranges" holds every fixture to the narrowest range the group has in common. Turn matching on when a group mixes fixture sizes that sit close enough together for the brightness difference to be visible.

3 Schedule Days

Select which days of the week the lighting schedule is active. Allows different schedules for weekdays vs weekends.

4 CCT Power On

Sets the color temperature when the device first powers on. Options include: follow dimmer input, follow schedule, use last CCT value, demo mode, or a fixed temperature from 2200K to 200000K.

5 Brightness Power On

Sets the brightness level when the device first powers on. Choose "Last" to resume previous brightness, "Off" to start dark, or a fixed percentage.

6 Idle Resume

How long the fixture stays in manual mode before automatically rejoining the schedule. The countdown starts at the last manual change (dimmer, app, or button) and the fixture holds your manual CCT and brightness until it expires, at which point it returns to the active circadian schedule. One safety carve-out: if the fixture is off when the timer would fire, the schedule does not switch it back on, the fixture stays off. Choose "Never" to remain in manual mode indefinitely. Range: 30 seconds to 24 hours.

7 Clock Time Mode

Schedule times are based on the wall clock (e.g., 8:00 AM is always 8:00 AM regardless of season).

8 Sunrise Time Mode

Schedule times are relative to sunrise/sunset. Schedule points shift automatically with the seasons for natural circadian alignment.

9 Timezone

Set the device's timezone for accurate schedule timing and sunrise/sunset calculations.

10 Predefined Cities

Quick-select from ~80 major world cities to set your latitude and longitude for sunrise calculations.

11 Latitude

Your geographic latitude coordinate for sunrise/sunset calculations. Positive = North, Negative = South.

12 Longitude

Your geographic longitude coordinate for sunrise/sunset calculations. Positive = East, Negative = West.

13 SkySync

Configure the SkySync ambient light sensor. When connected, the fixture automatically matches outdoor sky color and brightness.

14 Advanced Settings

Access advanced configuration including WiFi, system config, diagnostics, hardware control, calibration, device values, and firmware updates.

15 Configure Controls *(conditional)*

Opens 0-10V or DMX configuration for fixtures with external control inputs. Only visible on primary fixtures with daughter boards.

16 Sunrise Location *(conditional)*

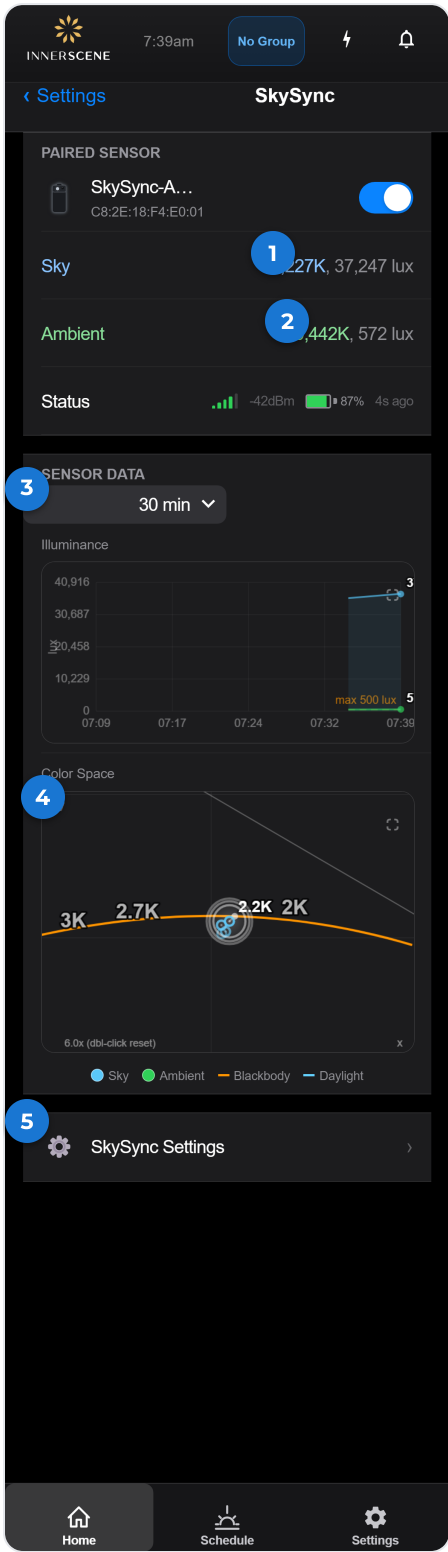
Set your geographic location for accurate sunrise/sunset times. Opens a map selector.

17 World Map *(conditional)*

Click/tap on the map to set your geographic location. The selected point determines sunrise/sunset times.

SkySync

Home › Settings › SkySync



Monitor and manage the SkySync ambient light sensor. When paired, the fixture automatically tracks outdoor sky color and brightness to match indoor lighting to natural conditions.

Controls & Options (8)

1 Sky Sensor Reading

Live color temperature and lux reading from the sky-facing (narrow angle) sensor. This sensor is aimed at the sky through a window and reads the color of natural daylight above the horizon.

2 Ambient Sensor Reading

Live color temperature and lux reading from the ambient (wide angle) sensor. This sensor reads the general ambient light level in the room or area near the window.

3 Chart Time Window

Sets the time span shown in the Illuminance and Color Space charts below, from 5 minutes up to 24 hours, or "All" to show every sample collected during this session. A shorter window shows recent detail; a longer window shows the trend across the day.

4 CIE Color Space Chart

A CIE 1931 chromaticity diagram plotting the color coordinates of recent sensor readings. Green dots represent sky sensor samples, blue dots represent ambient sensor samples. The orange curve is the Planckian (blackbody) locus and the cyan curve is the CIE daylight locus. Points closer to the blackbody curve indicate light with a more natural color rendering.

5 SkySync Settings

Opens the SkySync Settings page where you can set the control mode (CCT & Brightness, CCT Only, or Brightness Only), choose which sensor to use, set lux and CCT limits, and configure night mode behavior.

6 Enable/Disable SkySync *(conditional)*

Master toggle to enable or disable SkySync control. When enabled, the fixture continuously reads the paired sensor and adjusts its color temperature and/or brightness to match outdoor conditions. When disabled, the fixture ignores the sensor and uses manual or schedule control.

7 Unpair Sensor *(conditional)*

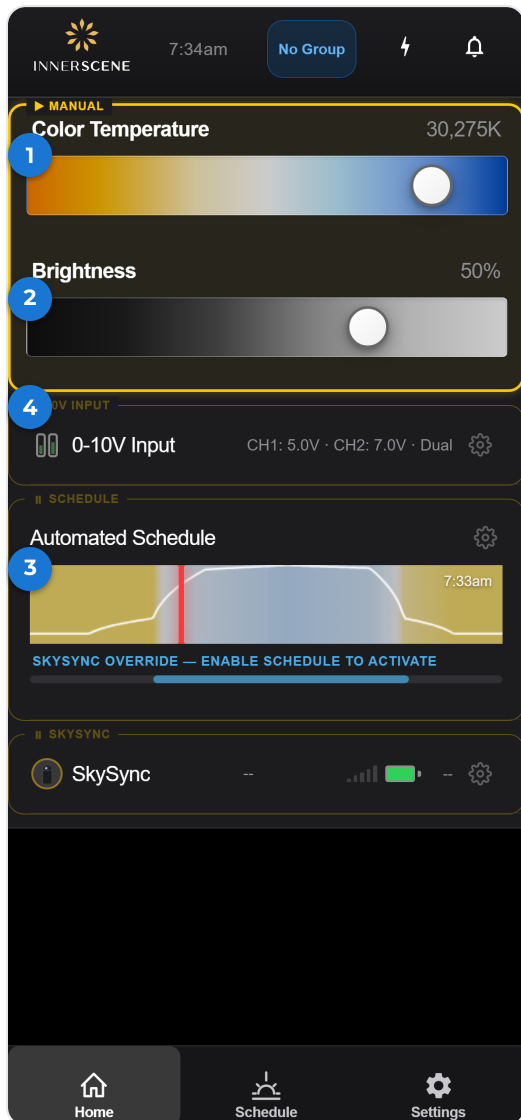
Removes the paired SkySync sensor from this fixture. After unpairing, the fixture returns to manual or schedule control and will no longer respond to the sensor.

8 Available Sensors *(conditional)*

Lists SkySync sensors detected nearby via Bluetooth. Sensors are identified by name and signal strength. Tap a sensor to pair it with this fixture. Only one sensor can be paired at a time.

Home — SkySync Detected

Home — SkySync Detected



Home screen showing the "SkySync Found" discovery banner. This appears when an unpaired SkySync sensor is detected nearby via Bluetooth — typically when a fixture is delivered with a SkySync that has not yet been paired.

How This Screen Works

When an unpaired SkySync sensor is detected nearby via Bluetooth, a "SkySync Found" discovery banner appears on the home screen between the schedule and the bottom navigation. This is the first thing you will see if your fixture was shipped with a SkySync sensor that has not been pre-paired.

Innerscene typically pairs the SkySync sensor to the fixture before shipping, so most customers will not see this screen. However, if the sensor arrives unpaired (for example, if ordered separately or after a factory reset), this banner tells you that a compatible sensor is nearby and ready to be paired.

Tap the banner to navigate to the SkySync page, where you can select the sensor from the "Available Sensors" list and pair it with one tap.

Controls & Options (6)

1 CCT Slider

Adjusts the color temperature of the light from warm (2200K) to cool/blue sky (200000K+). Drag left for warmer, right for cooler light.

2 Brightness Slider

Controls the light output from 0% (off) to 100% (full brightness). The percentage is shown to the right of the slider.

3 Schedule Preview

Shows today's lighting schedule as a graph. Tap to toggle schedule mode on/off. Long-press to open the schedule editor.

4 0-10V Input

Shows the current 0-10V analog input readings. Appears when a 0-10V daughterboard is installed.

5 SkySync Found *(conditional)*

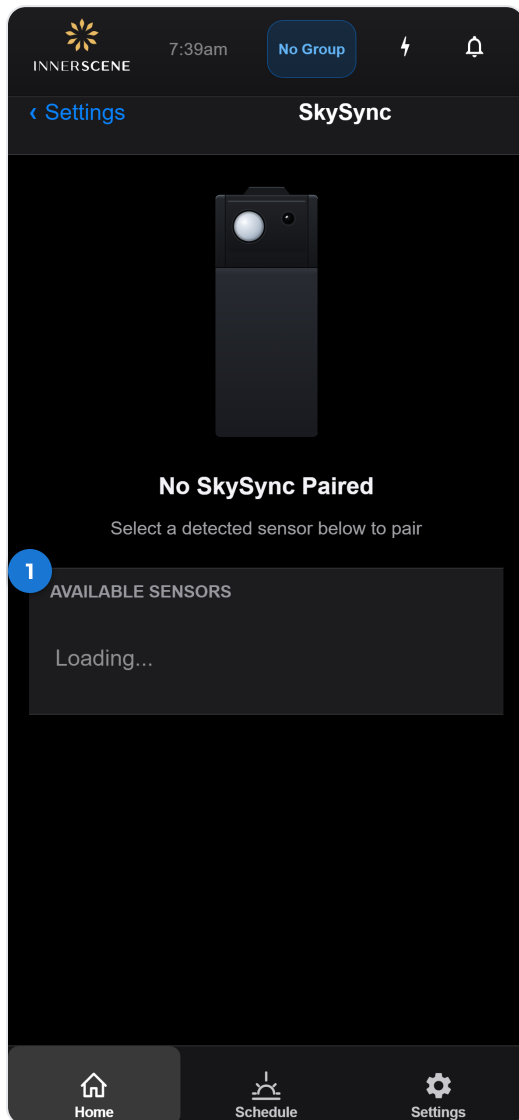
A discovery banner that appears when an unpaired SkySync sensor is detected nearby via Bluetooth. Innerscene typically ships fixtures with the SkySync sensor already paired, but if the sensor arrives unpaired (or has been reset), this banner will appear on the home screen. Tap to navigate to the SkySync Pairing page where you can pair the sensor.

6 Password Reminder *(conditional)*

Banner reminding you to change the default device password for security.

SkySync — Unpaired

Home › Settings › SkySync (Unpaired)



The SkySync page when no sensor is paired but one or more sensors are detected nearby. Shows the "Available Sensors" list instead of live readings. This is the view customers see when they first navigate to SkySync to pair an included sensor.

How This Screen Works

This is the SkySync page when no sensor is paired but one or more sensors are detected nearby. Instead of the live CIE chart and readings shown on the paired SkySync page, you see a sensor illustration, a "No SkySync Paired" heading, and the Available Sensors list.

Each sensor in the list shows its Bluetooth MAC address, battery percentage, and signal strength. Tap a sensor to pair it with this fixture. Pairing takes a few seconds — once complete, the page transitions to the paired view with live readings.

Controls & Options (2)

1 Available Sensors

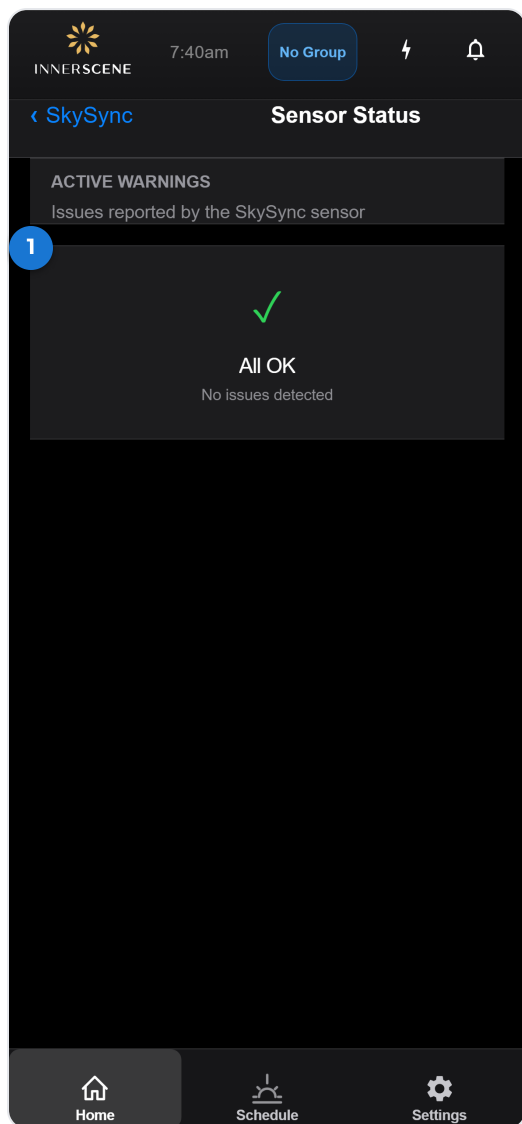
Lists SkySync sensors detected nearby via Bluetooth. Each sensor shows its name, signal strength, and battery level. Tap a sensor to pair it with this fixture. Only one sensor can be paired at a time. Innerscene typically ships fixtures with the sensor already paired, but if the sensor arrives unpaired or has been reset, use this list to pair it.

2 Enable/Disable SkySync *(conditional)*

Master toggle to enable or disable SkySync control. Greyed out until a sensor is paired.

SkySync Sensor Status

Home › Settings › SkySync › Sensor Status



Lists active warnings and faults reported by the SkySync outdoor sensor. Reached from the SkySync page when the sensor reports issues that need attention (low battery, lost signal, obstructed view, etc.). When the sensor reports no issues, the page shows an "All OK" confirmation instead.

Controls & Options (2)

1 All OK

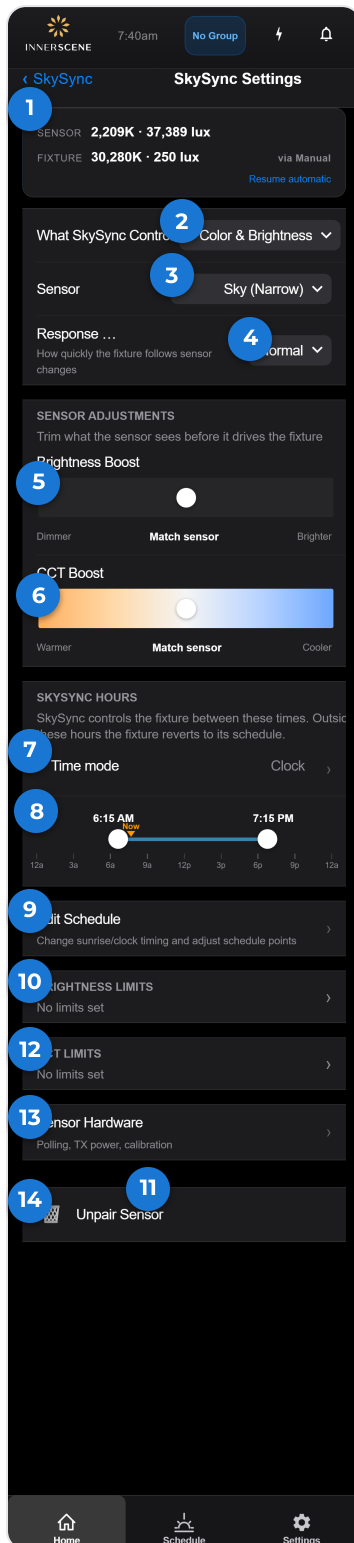
Shown in place of the warnings list when the sensor is reporting no issues. Confirms that the sensor is connected, has fresh readings, and is operating within expected ranges.

2 Active Warnings (*conditional*)

List of current issues reported by the SkySync sensor. Each entry describes one warning — common examples include low battery, weak Bluetooth signal, sensor obstruction, or a stale reading. Populated dynamically from the device's most recent sensor status report.

SkySync Settings

Home › Settings › SkySync › Settings



Configure how the SkySync sensor controls the fixture including control mode, sensor selection, brightness and CCT limits, and night mode behavior.

Controls & Options (14)

1 Live Preview

Shows the current sensor reading alongside the resulting fixture output (CCT and lux). Updates continuously so you can see how your adjustments change the light.

2 What SkySync Controls

Which aspects of the fixture follow the sensor. Choose Color & Brightness, Color Only (brightness stays on schedule), or Brightness Only (CCT stays on schedule).

3 Sensor Source

Which physical sensor on the SkySync unit drives the fixture. Sky (narrow angle, aimed at the sky) reads outdoor light quality. Ambient (wide angle) reads general room light. Average Both blends the two.

4 Response Time

How quickly the fixture tracks sensor changes. Fast reacts immediately but can flicker when conditions fluctuate. Slow smooths out transient shadows and clouds at the cost of responsiveness.

5 Brightness Boost

Biases the fixture brighter or dimmer than the sensor reading suggests. Keep at "Match sensor" for direct 1:1 tracking; slide toward Brighter to add headroom on overcast days, toward Dimmer to cap peak output.

6 CCT Boost

Biases the fixture's color temperature warmer or cooler than the sensor reading. Keep at "Match sensor" for direct tracking; slide Warmer for a cozier feel, Cooler for more daytime clarity.

7 Time Mode

How the SkySync operating window is expressed — Clock time (e.g., 8:00 AM to 6:00 PM) or Sunrise-relative (e.g., from 30 min after sunrise to 30 min before sunset).

8 SkySync Hours

The daily window during which SkySync drives the fixture. Outside these hours the fixture falls back to the scheduled lighting. Drag either end to adjust.

9 Edit Schedule

Opens the Schedule Editor so you can adjust what the fixture does outside the SkySync window, or shift sunrise/sunset points.

10 Brightness Limits

Optional floor/ceiling on the brightness SkySync produces. Prevents the sensor from dimming too low at dusk or from pushing to full output on exceptionally bright days.

11 When it's too dark

What the fixture does when the sensor reads below the minimum brightness threshold — dim to minimum, follow the lighting schedule instead, or hold at a fixed level.

12 CCT Limits

Optional warm/cool limits on the color temperature SkySync produces. Useful to keep the fixture within a comfortable range regardless of sky conditions.

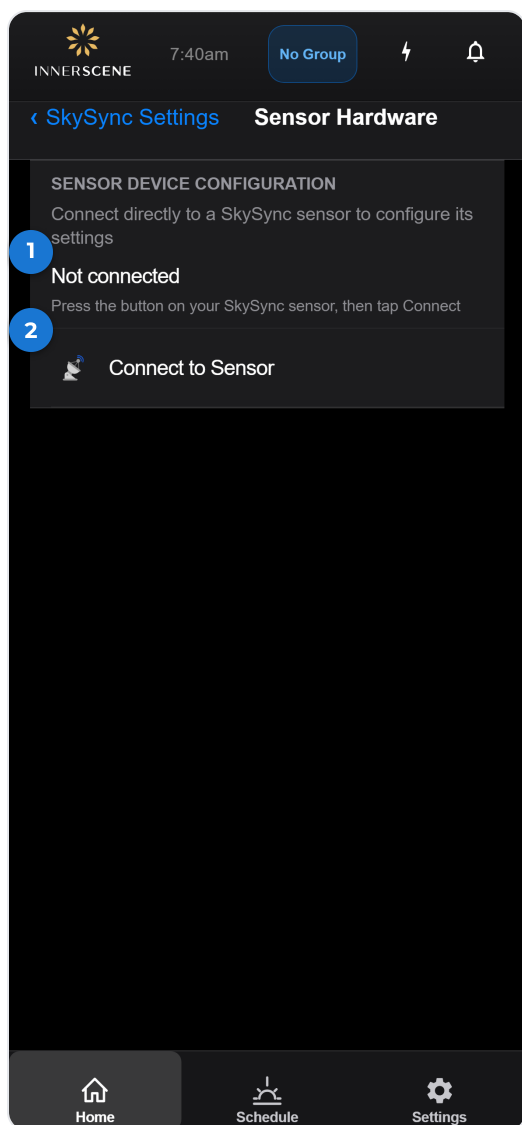
13 Sensor Hardware

Opens the Sensor Hardware page for polling interval, transmit power, calibration, and diagnostics on the paired SkySync unit.

14 Unpair Sensor

Removes the paired SkySync sensor from this fixture. After unpairing, the fixture returns to manual or schedule control and stops responding to the sensor.

Sensor Hardware



Connect directly to the SkySync sensor for configuration, calibration, and aiming. Useful during installation and troubleshooting.

Controls & Options (2)

1 Sensor Connection Status

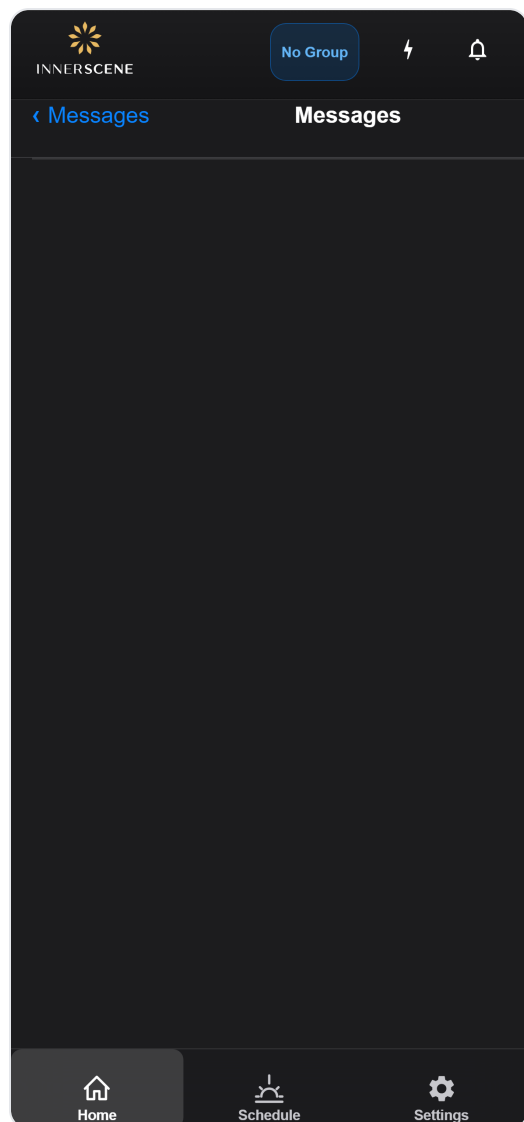
Shows whether the fixture currently has a direct Bluetooth session with the paired sensor. Direct sessions are needed for calibration, aiming, and firmware updates on the sensor.

2 Connect to Sensor

Initiates a direct Bluetooth connection to the paired SkySync. Press the button on the sensor first to put it in pairing-ready mode, then tap here.

Messages

Home › Settings › Messages



View system notifications and alerts from the device, such as firmware update availability, connection events, and error reports.

Controls & Options (2)

1 Messages List *(conditional)*

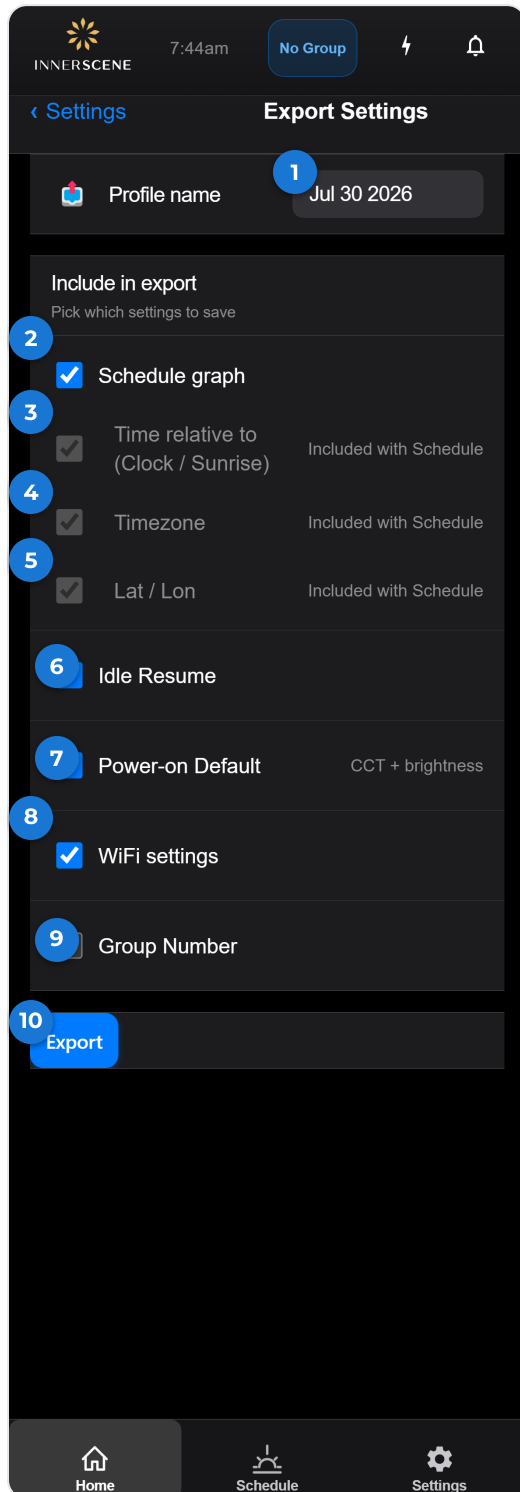
Displays device notifications in chronological order. Each message includes a timestamp and description. Messages cover events like successful firmware updates, connection changes, calibration results, and system warnings.

2 Empty State *(conditional)*

Shown when there are no messages. Displays "No Messages — You're all caught up!" indicating no pending notifications.

Export Settings

Home › Settings › Export Settings



Save a named profile of this fixture's settings to a file so they can be copied to another fixture or kept as a backup. Choose exactly which settings to include before exporting.

How This Screen Works

Export Settings saves a named profile of this fixture's configuration to a file. The profile can then be applied to another fixture from the Import Settings screen, or kept as a backup. Give the profile a recognizable name, then choose exactly which settings to include.

The schedule is the central item: selecting Schedule automatically includes and locks Clock Type, Timezone, and Lat/Lon, because the schedule's timing depends on them. The remaining items (Idle Resume, Power-on Default, WiFi settings, Group Number) are independent toggles you can include or leave out.

Including WiFi settings copies the network name and password into the file. Because the password is stored in plaintext, a warning is shown before the file is downloaded so you can keep it somewhere safe. Tap Export to build the profile, then Download .json to save it.

Controls & Options (10)

1 Profile Name

Name for this settings profile. Pre-filled with a default based on the fixture and date. The name appears in the saved profiles list when importing later, so use something that identifies the room or fixture.

2 Schedule

Includes the full circadian schedule (the day-long CCT and brightness curve). Selecting Schedule automatically includes and locks Clock Type, Timezone, and Lat/Lon below, since the schedule depends on them.

3 Clock Type

Whether schedule times are relative to a fixed clock or to local sunrise/sunset. Included automatically with Schedule.

4 Timezone

The fixture timezone. Included automatically with Schedule so the imported schedule lands at the correct local times.

5 Lat / Lon

The fixture geographic location, used to compute local sunrise and sunset. Included automatically with Schedule.

6 Idle Resume

Includes the idle-resume behaviour: how the fixture returns to following the schedule after a manual override.

7 Power-on Default

Includes the CCT and brightness the fixture starts at when first powered on.

8 WiFi Settings

Includes the WiFi network name and password so the imported fixture can join the same network. Shows "No WiFi configured" when the fixture has no saved network. Exporting WiFi triggers a plaintext-password warning before download.

9 Group Number

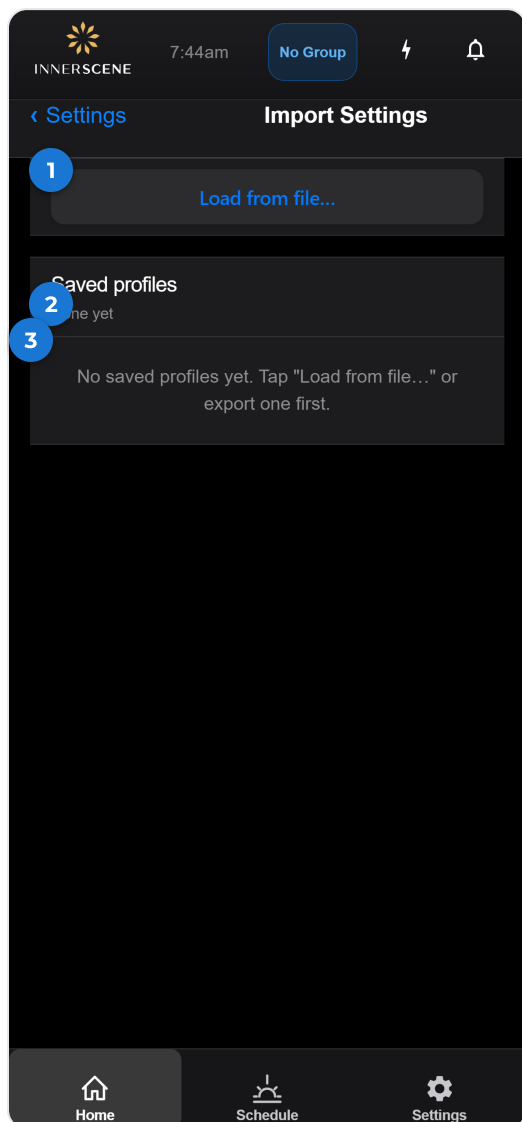
Includes the wireless sync group number, so an imported fixture joins the same group.

10 Export

Builds the settings profile from the selected items and saves it. Once complete a confirmation appears with a Download .json button.

Import Settings

Home › Settings › Import Settings



Apply a settings profile that was previously exported, either from a saved profile or from a .json file on your device. Pick which of the saved settings to apply before importing.

How This Screen Works

Import Settings applies a configuration profile that was previously exported. Load a profile from a .json file with Load from file, or pick one from the saved profiles list (saved profiles live in the Innerscene Studio app, so on the web interface you usually load from a file).

After a profile is selected, its contents are listed so you can review them and choose which settings to apply. Importing only the items you select leaves everything else on the fixture unchanged.

Applying WiFi settings disconnects the fixture from its current network, so you may need to reconnect through SoftAP or your home WiFi to verify. Changing the Wireless Group number requires a reboot to take effect, which is flagged on screen when it applies.

Controls & Options (3)

1 Load from File

Opens a file picker to load a settings profile (.json) that was exported from another fixture or saved as a backup. The profile's contents then appear for review before applying.

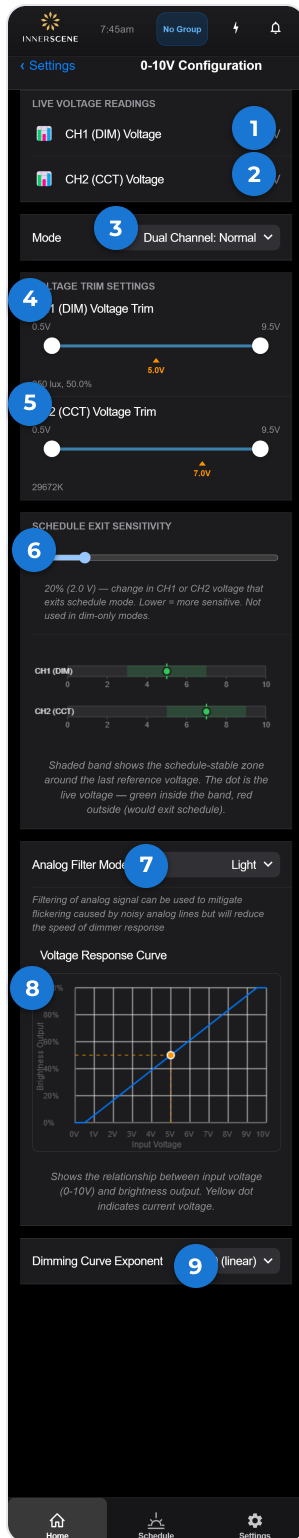
2 Saved Profiles

Shows how many settings profiles are saved in the app. Saved profiles live in the Innerscene Studio app; on the web interface this list is usually empty and you load from a file instead.

3 Profile List

List of saved profiles available to import. Tap a profile to review which settings it contains and choose what to apply.

0-10V Configuration



Configure dual-channel 0-10V analog dimming input for primary fixtures with a 0-10V daughter board.

Controls & Options (11)

1 CH1 (DIM) Voltage

Live reading of the voltage present on Channel 1 (DIM input). Updates every second. Range: 0-10V. This channel controls the brightness of the light output.

2 CH2 (CCT) Voltage

Live reading of the voltage present on Channel 2 (CCT input). Updates every second. Range: 0-10V. This channel controls the color temperature of the light output.

3 Mode

Selects how the two 0-10V input channels are interpreted. Dual-channel mode uses both inputs (one for brightness, one for CCT). Single-channel modes use only one input for dim-to-warm or dimming-only control.

4 CH1 (DIM) Voltage Trim

Sets the usable voltage window for Channel 1 (DIM). Drag the two handles to define the minimum and maximum input voltage that map to 0% and 100% brightness output. Narrowing the window lets a controller that only swings across part of the 0-10V range still reach full brightness.

5 CH2 (CCT) Voltage Trim

Sets the usable voltage window for Channel 2 (CCT). The two handles define the input voltages that map to the warmest and coolest color temperature, so you can match the output range of your 0-10V controller.

6 Schedule Exit Sensitivity

Sets how large a change in CH1 or CH2 voltage is needed to pull the fixture out of schedule mode and hand control to the 0-10V input. Lower values make the fixture more sensitive to small voltage changes. Not used in dim-only modes.

7 Analog Filter Mode

Controls the amount of signal filtering applied to the analog voltage inputs. Heavier filtering reduces flicker from noisy wiring but slows the response to dimmer changes.

8 Voltage Response Curve

Visual graph showing the relationship between input voltage (0-10V) and brightness output. The curve shape is determined by the dimming exponent and voltage trim settings. A yellow dot indicates the current live voltage reading.

9 Dimming Curve Exponent

Controls the shape of the dimming response curve. Linear (1.0) maps voltage directly to brightness. Lower values (<1.0) make low voltages brighter. Higher values (>1.0) concentrate brightness at higher voltages, giving finer control at low levels.

10 CCT Source *(conditional)*

In dimming-only mode, selects where the color temperature value comes from since the 0-10V input only controls brightness. Choose to follow the schedule, keep the current CCT, or use a fixed temperature.

11 Fixed CCT Value *(conditional)*

When CCT Source is set to "Fixed CCT", selects the constant color temperature to use. Range: 2,200K (warm candlelight) to 200,000K (blue sky).

Voltage to Light Output (factory defaults)

In dual-channel mode, CH1 voltage sets brightness and CH2 voltage sets color temperature. With the factory voltage trim, inputs at or below 1.0 V read as minimum and inputs at or above 9.5 V read as maximum. Brightness follows the dimming exponent (factory setting 3.0, a log-style curve that gives fine control at low levels); the linear column shows the same voltages with the exponent set to 1.0. Color temperature steps through a perceptually even color scale, so equal voltage steps produce similar-looking color shifts even though the Kelvin numbers climb steeply at the cool end.

Input voltage	Brightness (exp 3.0)	Brightness (linear)	CCT output (CH2)
1.0 V or less	Off	Off	2,200 K
2.0 V	0.2%	12%	~3,000 K
3.0 V	1.3%	24%	~3,600 K
4.0 V	4.4%	35%	~4,400 K
5.0 V	10%	47%	~5,400 K
6.0 V	20%	59%	~6,900 K
7.0 V	35%	71%	~9,400 K
8.0 V	56%	82%	~14,700 K
9.0 V	83%	94%	~40,000 K
9.5 V or more	100%	100%	200,000 K

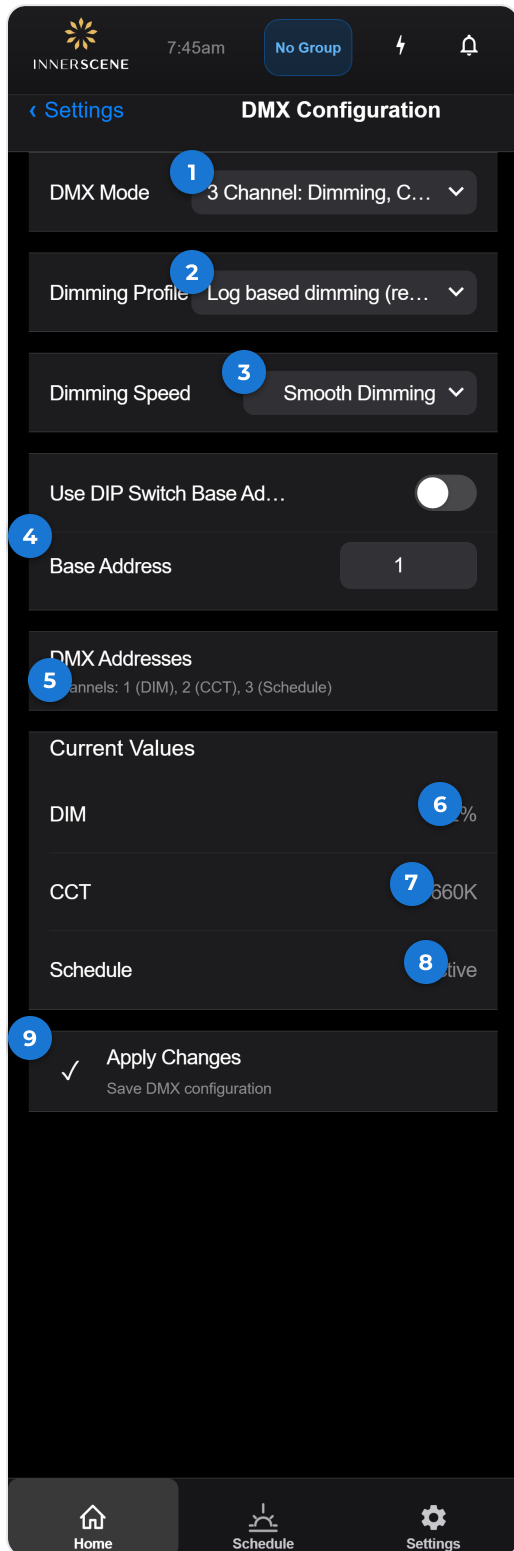
Brightness is a percentage of the fixture's maximum output at the current color temperature.

Voltage trim, dimming exponent, and channel roles are all adjustable on this screen; the table shows factory defaults (trim 1.0 to 9.5 V, exponent 3.0, dual-channel mode).

In dim-to-warm mode one voltage drives both columns at once, so dimming down also warms the color. In dimming-only mode the CCT column is replaced by the CCT Source setting (schedule, fixed value, or last used).

To have a fixture ship pre-configured for single-channel dimming with the built-in schedule driving color temperature (Mode: Dimming only, CCT Source: Schedule), order it with control code 10VIC_SCH paired with a schedule program such as P0001 (wall-clock) or P0002 (solar-clock).

DMX Configuration



Configure DMX512 digital lighting control for primary fixtures with a DMX daughter board.

Controls & Options (10)

- 1 DMX Mode**

Selects how many DMX channels are used and what each channel controls. Options range from 3-channel mode (brightness, CCT, and schedule override) to single-channel dim-to-warm.
- 2 Dimming Profile**

Controls the mathematical curve used to translate DMX values (0-255) into brightness output. Logarithmic dimming matches human perception for smooth visual transitions.
- 3 Dimming Speed**

Controls whether brightness changes happen instantly or fade smoothly over a short duration. Smooth dimming prevents jarring jumps when DMX values change rapidly.
- 4 Base Address**

The starting DMX channel address (1-512) for this fixture. The fixture will occupy consecutive channels starting from this address, based on the selected mode.
- 5 DMX Addresses**

Displays the actual DMX channel numbers assigned to this fixture based on the base address and mode. Shows which channel controls DIM, CCT, and Schedule.
- 6 Current DIM Value**

Live reading of the DMX value currently being received on the brightness (DIM) channel. Range: 0-255.
- 7 Current CCT Value**

Live reading of the DMX value currently being received on the color temperature (CCT) channel. Range: 0-255.
- 8 Current Schedule Value**

Live reading of the DMX value on the schedule override channel. 0 = follow schedule, 255 = full manual control. Only active in 3-channel mode.
- 9 Apply Changes**

Saves the current DMX configuration to the device. Changes take effect immediately after applying.
- 10 Use DIP Switch Address *(conditional)***

When enabled, the DMX base address is read from the physical DIP switches on the daughter board. When disabled, the base address is set manually in software.

DMX Value to Light Output

Each function occupies one 8-bit DMX channel (values 0 to 255) starting at the fixture's base address. In the default 3-channel personality, channel 1 is brightness, channel 2 is color temperature, and channel 3 selects schedule control. Brightness uses a gamma 2.2 curve by default (a linear profile is available on this screen); color temperature steps through the same perceptually even color scale as the other control inputs.

DMX value	Brightness (gamma 2.2)	Brightness (linear)	CCT output
0	Off	Off	2,200 K
32	1%	13%	~3,000 K
64	5%	25%	~3,700 K
96	12%	38%	~4,600 K
128	22%	50%	~5,800 K
160	36%	63%	~7,600 K
192	54%	75%	~11,000 K
224	75%	88%	~20,400 K
255	100%	100%	200,000 K

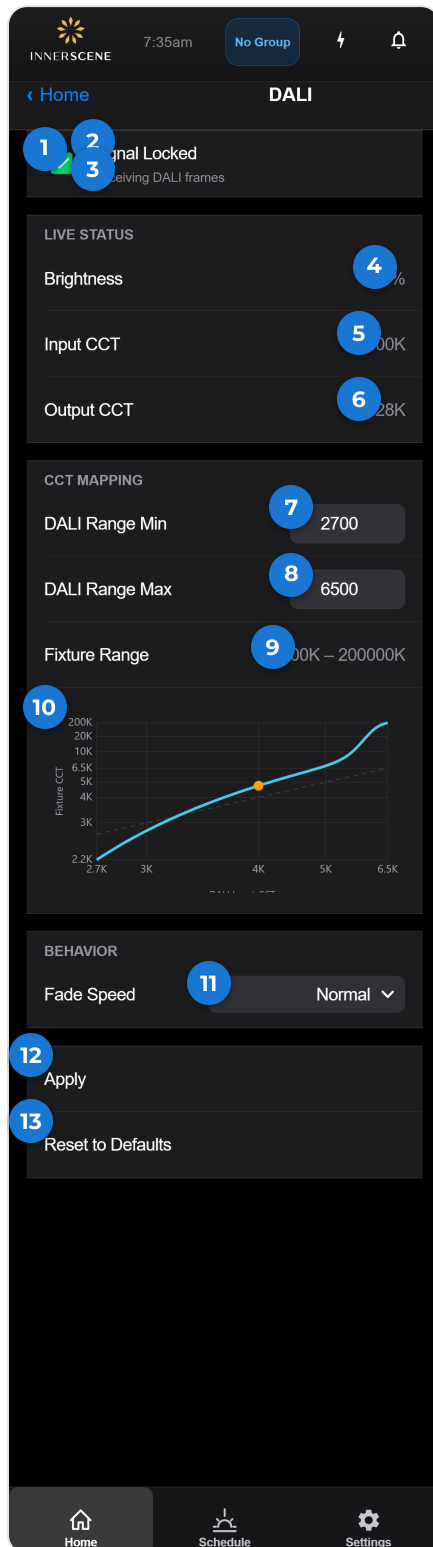
Schedule channel: values 0 to 127 leave the fixture under DMX control; 128 to 255 hand control to the built-in circadian schedule.

In the dim-to-warm personalities a single channel drives both columns at once: the same value sets brightness on the gamma curve and color on the CCT scale.

If the DMX signal stops, the fixture holds its last received values.

DALI

Home › DALI



Status and configuration page for a fixture wired to a DALI control bus. Shows whether DALI commands are being received, the live brightness and color temperature being requested, the mapping between the DALI CCT range and the fixture's native range, and the fade speed.

Controls & Options (13)

1 Signal Indicator

At-a-glance icon for the DALI bus state. Green when valid DT8 commands are arriving, dim or warning when the bus is idle or unreachable.

2 Signal Status

Short label describing the current DALI bus state, for example Receiving Commands, Idle, or No DALI Signal.

3 Signal Detail

Additional context on the bus state, typically the time since the last valid command or guidance to check the wiring.

4 Live Brightness

Current brightness level requested by the DALI controller, shown as a percentage. Updates as the DALI master changes the output.

5 Input CCT

Raw color temperature value the DALI controller is requesting, in Kelvin, before the CCT mapping is applied.

6 Output CCT

Color temperature the fixture is actually driving after the input CCT has been mapped onto the fixture range, in Kelvin.

7 DALI Range Min

Lower bound of the DALI color temperature range. Set this to the warmest value your DALI controller can send. Anything at or below this value maps to the fixture's warmest output.

8 DALI Range Max

Upper bound of the DALI color temperature range. Set this to the coolest value your DALI controller can send. Anything at or above this value maps to the fixture's coolest output.

9 Fixture CCT Range

The native color temperature range of the fixture itself, in Kelvin. DALI input values are mapped linearly into this range using the min and max above.

10 CCT Mapping Curve

Visual graph of how DALI input CCT values translate to the fixture output. Helpful for confirming the chosen DALI Range Min and Max line up with the controller you are using.

11 Fade Speed

Sets how quickly the fixture transitions between successive DALI commands. Faster speeds feel more responsive; slower speeds smooth out flicker when the controller updates rapidly.

12 Apply

Saves the current DALI Range Min, Max, and Fade Speed values to the fixture. Required for changes to take effect.

13 Reset to Defaults

Restores DALI Range Min, Max, and Fade Speed to their factory defaults. Useful if the current values produce odd mapping behavior.

DALI Tc Command to Light Output

The DALI interface accepts DT8 tunable-white commands. The configured DALI CCT range (factory setting 2,700 K to 6,500 K, adjustable on this screen) is spread across the fixture's full 2,200 K to 200,000 K output range on a perceptually even color scale. The warm end of the DALI range reaches the fixture's warmest output and the cool end reaches its deepest sky blue.

DALI Tc (Kelvin)	DALI Tc (mired)	Fixture CCT output
2,700 K	370	2,200 K
3,200 K	313	~3,200 K
3,800 K	263	~4,300 K
4,500 K	222	~5,700 K
5,000 K	200	~6,800 K
5,500 K	182	~9,400 K
6,000 K	167	~27,000 K
6,500 K	154	200,000 K

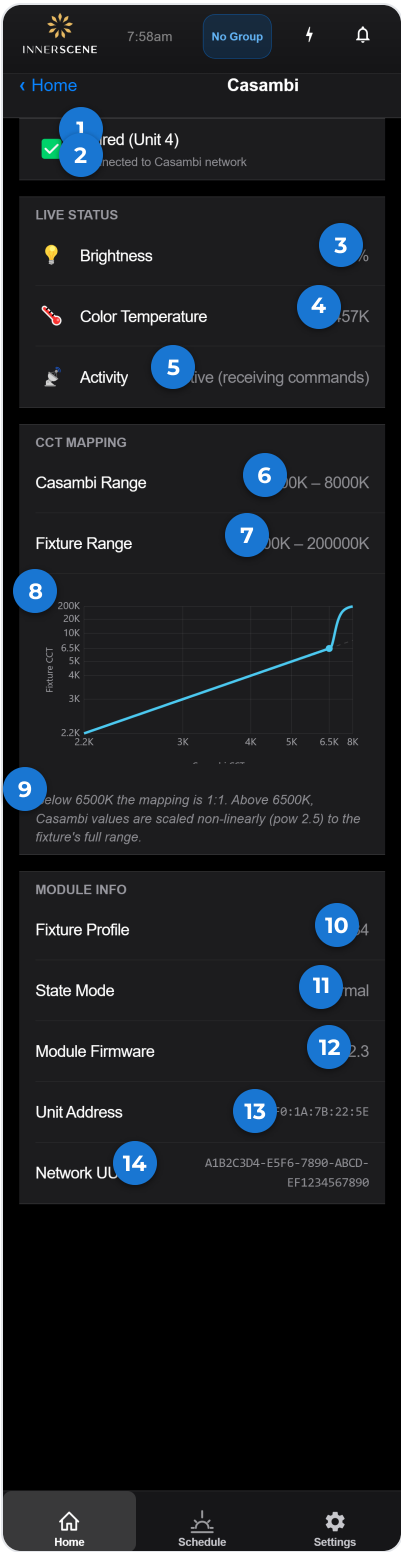
Brightness: the DALI dim level applies linearly, so a 50% level produces 50% of the fixture's maximum output at the current color temperature, and level 0 is off.

Tc commands outside the configured range are clamped to the nearest end.

Narrowing or widening the DALI CCT range on this screen re-spreads the fixture's full output range across the new command range.

Casambi

Home > Casambi



Status and configuration page for a fixture equipped with a Casambi daughterboard. Shows pairing status with the Casambi network, live brightness/CCT readings from the wireless mesh, the CCT mapping curve between Casambi values and the fixture's range, and module identification info.

Controls & Options (14)

1 Pairing Status

Indicates whether the Casambi module is currently paired with a Casambi network. Paired modules accept lighting commands from the Casambi app and any associated wireless switches; unpaired modules ignore Casambi traffic and behave as a stand-alone fixture.

2 Pairing Detail

Additional context for the pairing status — typically the name of the paired network, or instructions to pair the module via the Casambi mobile app.

3 Live Brightness

Current brightness level being driven by the Casambi network, shown as a percentage. Updates in near real-time as Casambi controls the fixture.

4 Live Color Temperature

Current color temperature requested by the Casambi network, shown in Kelvin. Reflects the fixture's actual output after applying the CCT mapping shown below.

5 Activity

Indicates whether Casambi is actively driving the fixture or sitting idle. Useful for confirming a Casambi command actually reached the module.

6 Casambi CCT Range

The color-temperature range that Casambi can request, in Kelvin. This is the range exposed to the Casambi app/wireless switches.

7 Fixture CCT Range

The native color-temperature range of the fixture itself. Casambi values are mapped onto this range so requests outside the Casambi range still produce reasonable output.

8 CCT Mapping Curve

Visual graph of how Casambi color-temperature values translate to the fixture's output. Below 6500K the mapping is 1:1; above 6500K, Casambi values are scaled non-linearly (power 2.5) to reach the fixture's full upper range without sacrificing resolution at typical color temperatures.

9 Mapping Description

Explanation of the mapping shape. Below 6500K the mapping is direct; above 6500K the curve compresses higher Casambi values to access the fixture's extended cool range.

10 Fixture Profile

Identifier of the Casambi fixture profile this module is operating as. Determines which DT-8 commands the module accepts and how it advertises itself on the Casambi network.

11 State Mode

Internal operating mode of the Casambi module — typically reflects whether it is in normal operation, pairing, or error state.

12 Module Firmware

Firmware version reported by the Casambi daughterboard. This is separate from the fixture's main firmware shown on the Device Info page.

13 Unit Address

The Casambi unit address — a short identifier used within the Casambi network to route commands to this specific module.

14 Network UUID

The unique identifier of the Casambi network this module is currently paired with. Used by the Casambi app and other Casambi devices to recognise this network.

Casambi Slider to Light Output

The Casambi app presents a dim level and a color temperature slider. The fixture reports a 2,200 K to 8,000 K control range to Casambi. Up to 6,500 K the slider maps 1:1 to the light output. Because the fixture's sky range extends far beyond what Casambi's tunable-white profile can represent, the top of the slider (6,500 K to 8,000 K) expands onto 6,500 K to 200,000 K with a curve that keeps fine control near daylight white.

Casambi CCT slider	Fixture CCT output
2,200 K	2,200 K
4,000 K	4,000 K
6,500 K	6,500 K
7,000 K	~18,900 K
7,250 K	~40,700 K
7,500 K	~76,700 K
8,000 K	200,000 K

Brightness: the Casambi dim level applies linearly with 12-bit (4,096-step) resolution; 50% is half of the fixture's maximum output at the current color temperature.

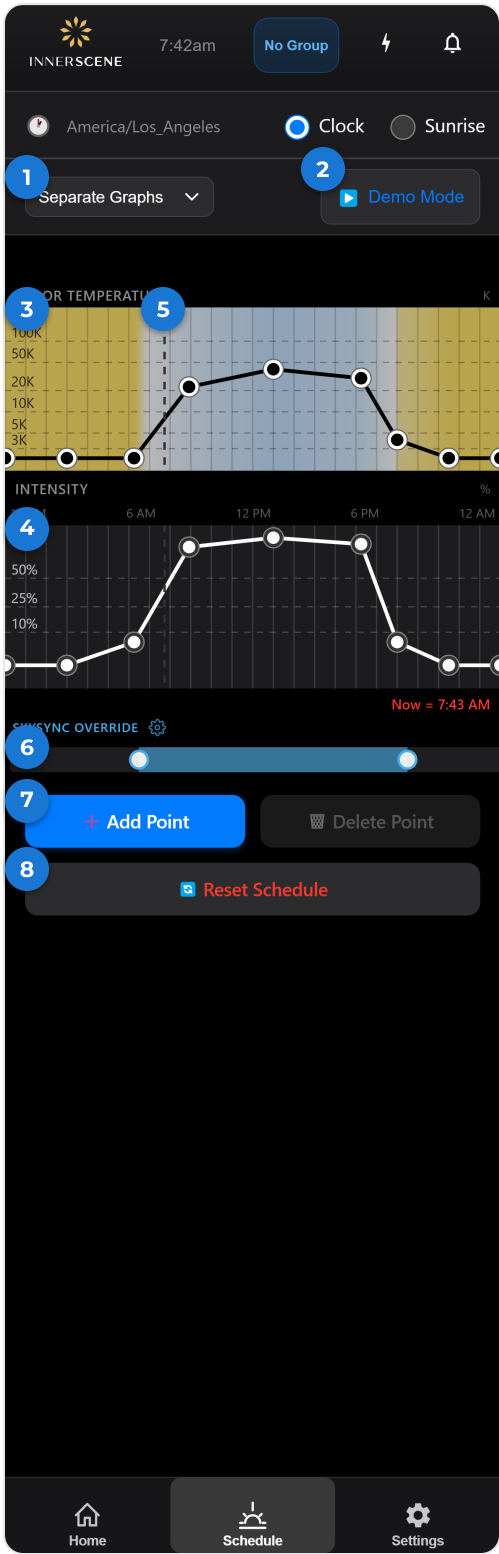
Some fixture profiles report an extended 2,200 K to 16,000 K range to Casambi; the same expansion then applies above 6,500 K across the wider span.

Setting the third Casambi channel (Circadian) to its top of range hands control to the fixture's built-in schedule.

If Casambi stops sending updates the fixture holds its last values; the Casambi card on the home screen shows as inactive after 30 seconds.

Schedule

Home > Schedule



Create and edit the daily lighting schedule. The interactive graph shows color temperature and brightness throughout the day with draggable control points.

Controls & Options (9)

1 View Mode

Switch between Graph View (visual timeline with draggable points) and List View (table of all schedule points with exact values). Both views edit the same schedule.

2 Demo Mode

Plays through the entire day's schedule in fast-forward on the physical fixture. Useful for previewing how the light will change throughout the day. The demo timeline indicator moves across the graph as it plays.

3 Color Temperature Graph

Top graph showing how color temperature (in Kelvin) changes across a 24-hour day. Each schedule point appears as a draggable dot on the curve. Tap a point to select it (this also selects the matching point in the Intensity graph below). Once selected, drag up or down to change its color temperature, or drag left or right to shift its time of day. Press and hold a selected point to open the edit dialog for exact entry of time, CCT, and intensity. Tap empty space to deselect.

4 Intensity Graph

Bottom graph showing how brightness (0 to 100%) changes across the same 24-hour day. Each dot is the same schedule entry shown in the Color Temperature graph above, so selecting a point here also selects it there. Drag a selected point up or down to change brightness, or left or right to shift its time. Press and hold to open the edit dialog. A vertical "Now" line marks the current time, and a green line appears while Demo Mode is previewing the day.

5 Current Time Indicator

Vertical dashed line marking the current clock time. The line crosses both the Color Temperature graph and the Intensity graph at the same x-position so you can see at a glance what CCT and brightness the schedule is targeting right now. The matching "Now = HH:MM" label appears below the Intensity graph. Line and label slide from left to right as the day progresses. While Demo Mode is previewing the day, a separate green line moves at fast-forward speed alongside this one.

6 SkySync Override Bar

Horizontal bar below the graphs that defines the time-of-day window during which a paired SkySync outdoor sensor is allowed to override the schedule. Two draggable handles set the start and end of the window (the shaded region between them). Drag either handle left or right to change that time, a tooltip shows the exact value while you drag. The handles can wrap past midnight, in which case the window spans from the start time through to the end time the following morning. Tap the bar (a short tap with no drag) to toggle between two modes: "SkySync Override" (uses the time window between the handles, label shown here) and "SkySync Always Active" (no time restriction, SkySync controls the fixture whenever the sensor has valid data). When SkySync is inside the active window it takes over and aligns the indoor light to outdoor conditions. Outside the window, or when the sensor is offline or reads too little light, the regular schedule controls the fixture and a status line below the bar explains which fallback is active. The gear icon next to the label opens the SkySync Settings page for sensor pairing and tuning.

7 Add Point

Adds a new schedule control point. The point is placed at the current time with default values. You can then drag it to the desired position or tap to edit its values precisely.

8 Reset Schedule

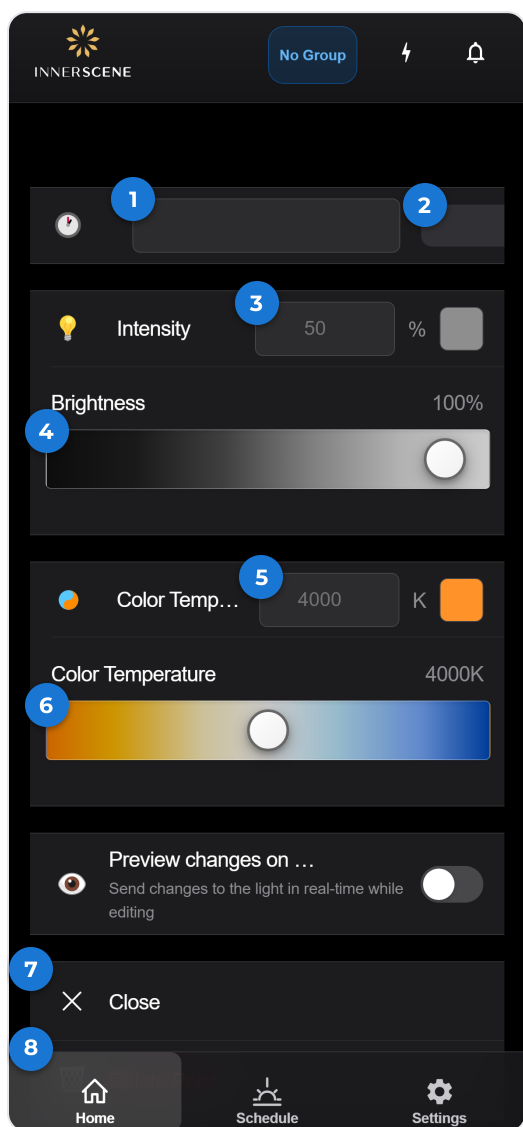
Replaces the current schedule with Innerscene's default circadian curve (seven points from 2,200 K at midnight, ramping up through 5,500 K at noon, back down to 2,200 K at end of day). You are prompted to confirm before the reset runs, and the previous schedule is saved so you can use Undo to restore it.

9 Schedule Graph *(conditional)*

Combined view of the same 24-hour schedule, available when View Mode is set to "Combined Graph". The upper filled area represents brightness (0-100%) and the colored line represents color temperature. Tap a point to select it, then drag to adjust time and brightness. Press and hold a selected point to open the edit dialog. A "Now" indicator shows the current time.

Edit Schedule Point

Home › Schedule › Edit Point



Edit an individual schedule point's time, brightness, and color temperature. Changes can be previewed live on the fixture before saving.

Controls & Options (9)

1 Time Input

Set the time for this schedule point. Enter a time in hours and minutes. When using Sunrise mode, times are shown as offsets from sunrise/sunset (e.g., "sunrise + 1h"). The midnight point (12:00 AM) is fixed and cannot be changed.

2 Time Picker

Dropdown with preset time options for quick selection. The available options depend on whether the schedule uses Clock or Sunrise time mode.

3 Intensity Input

Enter the brightness percentage for this schedule point (0-100%). You can type a precise value including decimals (e.g., 0.1% for the minimum visible level). The slider below updates to match.

4 Brightness Slider

Drag to set the brightness visually. The slider maps 0-100% brightness with fine-grained control. The numeric input above updates in real-time as you drag.

5 CCT Input

Enter the color temperature in Kelvin for this schedule point (2200K-6500K). Lower values produce warmer light, higher values produce cooler/bluer light. A color preview swatch shows the approximate light color.

6 CCT Slider

Drag to set the color temperature visually. The gradient shows the full range from warm (left) to cool blue (right). The numeric input and color preview swatch update in real-time.

7 Close

Closes the editor and returns to the schedule view. Any changes you've made to this point are automatically saved when you close.

8 Delete Point

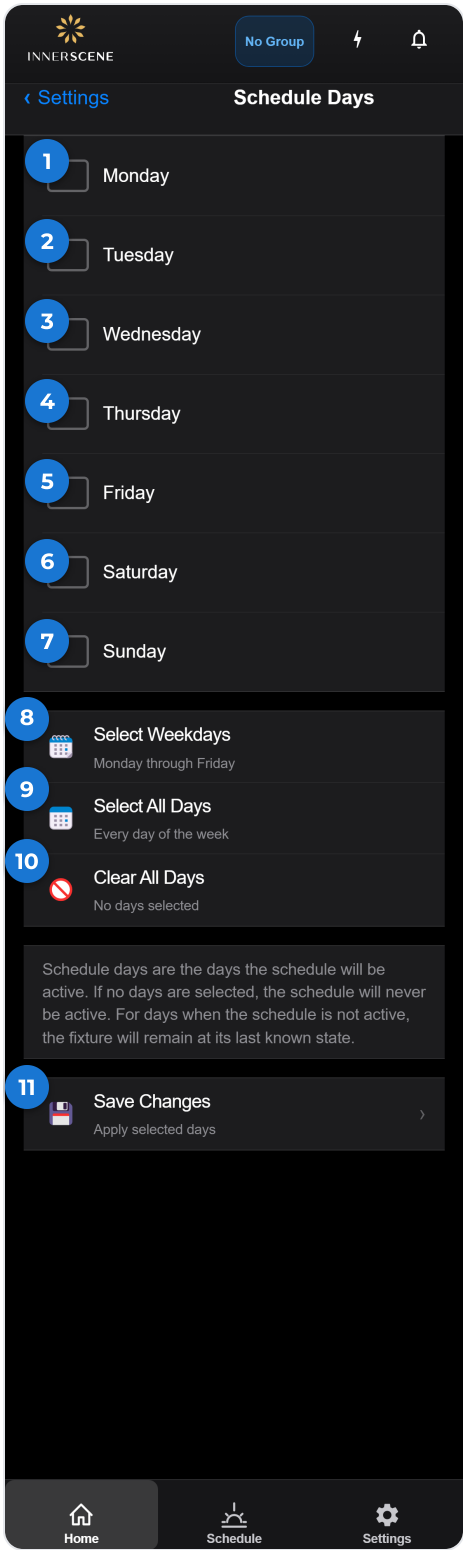
Permanently removes this schedule point. The schedule will interpolate between the remaining adjacent points. The midnight point cannot be deleted as it serves as the schedule's anchor.

9 Preview on Fixture *(conditional)*

When enabled, changes you make to brightness and CCT are sent to the physical fixture in real-time as you adjust the sliders. This lets you see exactly how the light will look at this schedule point before saving.

Schedule Days

Home › Settings › Schedule Days



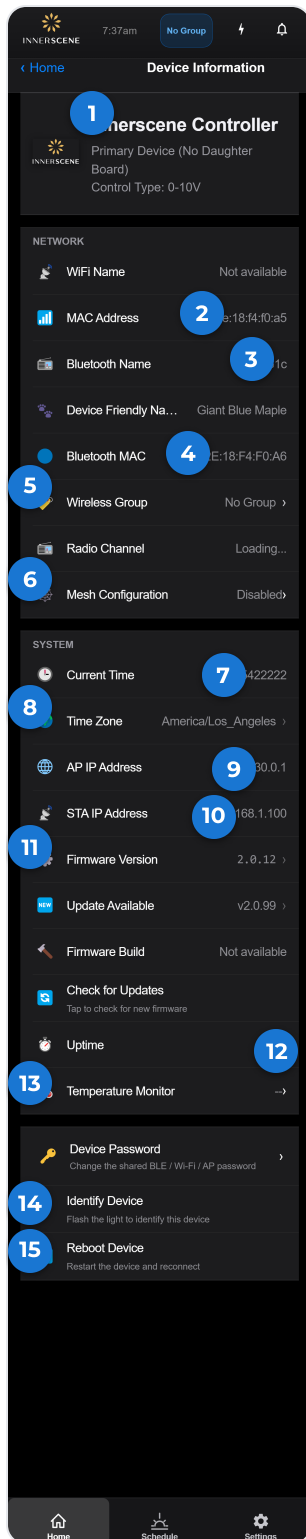
Select which days of the week the automated schedule is active. On inactive days, the fixture remains at its last known state.

Controls & Options (11)

- 1 Monday**
Toggle whether the automated schedule is active on Mondays.
- 2 Tuesday**
Toggle whether the automated schedule is active on Tuesdays.
- 3 Wednesday**
Toggle whether the automated schedule is active on Wednesdays.
- 4 Thursday**
Toggle whether the automated schedule is active on Thursdays.
- 5 Friday**
Toggle whether the automated schedule is active on Fridays.
- 6 Saturday**
Toggle whether the automated schedule is active on Saturdays.
- 7 Sunday**
Toggle whether the automated schedule is active on Sundays.
- 8 Select Weekdays**
Quick-select Monday through Friday. Useful for office or commercial installations where the schedule should only run on business days.
- 9 Select All Days**
Selects all seven days. The schedule will run every day of the week. This is the most common setting for residential and 24/7 spaces.
- 10 Clear All Days**
Deselects all days. The schedule will not run on any day, effectively disabling it. The fixture will stay at whatever state it was last set to.
- 11 Save Changes**
Saves the day selection to the device. Changes take effect immediately — the schedule will only activate on the selected days going forward.

Device Info

Home › Device Info



Displays device identity, network addresses, system status, firmware version, mesh configuration (primary fixtures only), and provides quick access to device actions.

Controls & Options (15)

1 Device Name

The name of this Innerscene Controller. Shown at the top of the device info page along with the device role (Primary or Secondary fixture).

2 MAC Address

The unique hardware MAC address of the device's WiFi interface. This address is factory-assigned and cannot be changed. Used to identify the device on the network.

3 Bluetooth Name

The Bluetooth Low Energy (BLE) broadcast name used when scanning for devices from a phone or tablet. This is the name that appears in the Devices tab.

4 Bluetooth MAC

The unique hardware MAC address of the device's Bluetooth interface. Used for BLE device identification and pairing.

5 Wireless Group

Shows the current wireless synchronization group. Tap to navigate to the Wireless Group configuration page where you can change the group or scan for peer fixtures.

6 Mesh Configuration

Shows the current Mesh Rebroadcast setting and provides quick access to change it. Tap to jump to the System Configuration page and scroll directly to the Mesh Rebroadcast Range control. Only appears on primary fixtures, since mesh rebroadcast is configured on the primary that originates the broadcasts.

7 Current Time

The device's current local time, based on its timezone setting and NTP synchronization. If the device has internet access, time is automatically synchronized.

8 Time Zone

Shows the currently configured timezone. Tap to navigate to the Settings page where you can change the timezone.

9 AP IP Address

The IP address of the device's own WiFi access point. Connect to the device's WiFi network and navigate to this address in a browser to access the control interface. Default is 192.168.6.1.

10 STA IP Address

The IP address assigned to the device when it's connected to an external WiFi network. Only visible when the device has an active WiFi station connection.

11 Firmware Version

Shows the currently installed firmware version. Tap to view additional firmware details. Firmware can be updated via the Advanced > Firmware & Updates page.

12 Uptime

How long the device has been running since its last reboot. Shown in days, hours, and minutes. Useful for verifying device stability.

13 Temperature Monitor

Shows the current internal temperature of the device. Tap to open the Temperature Monitor page with a historical graph, min/max/average readings, and peer device temperatures.

14 Identify Device

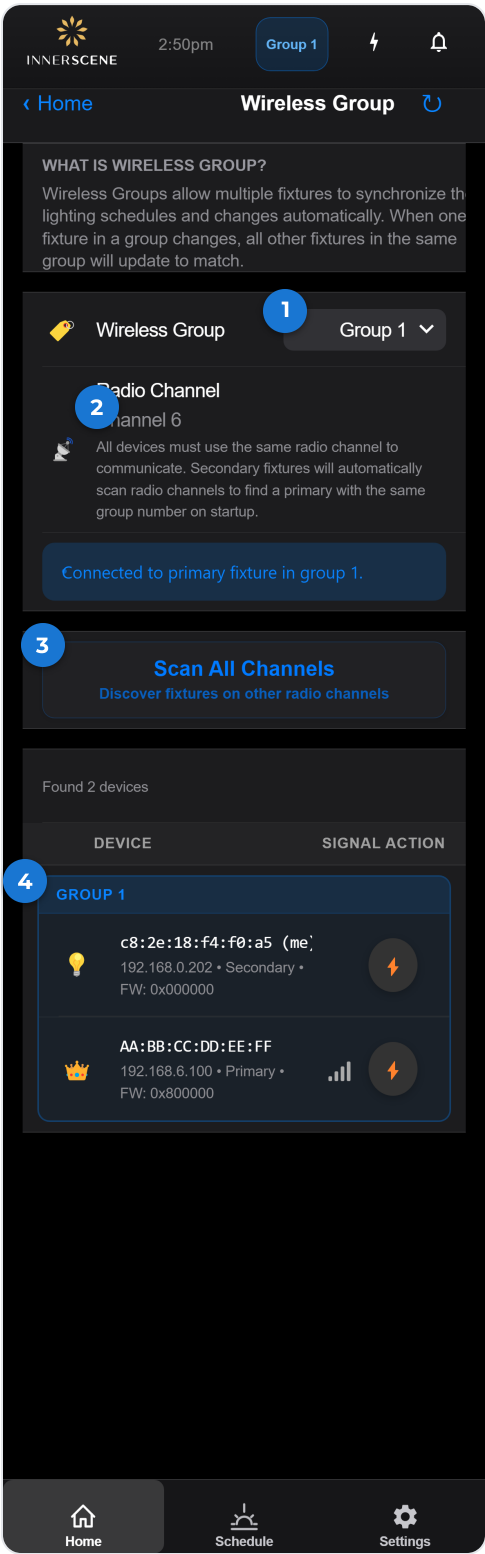
Briefly flashes the physical light fixture to help you identify which device you're viewing information about. Useful when managing multiple fixtures in an installation.

15 Reboot Device

Immediately restarts the device. The device will disconnect briefly and reconnect once the reboot is complete. All saved settings are preserved across reboots.

Wireless Group

Home > Device Info > Wireless Group



Configure wireless synchronization between multiple Innerscene fixtures. Devices in the same group automatically sync their lighting state.

Virtual Sun note: On Virtual Sun, the Wireless Group setting is only required for mixed installations that combine Virtual Sun and Circadian Sky fixtures controlled together. In a Virtual Sun-only deployment, fixtures attached to the same Ethernet switch/router synchronize automatically via UDP broadcast — no group number needs to be configured.

Controls & Options (4)

1 Wireless Group

Select a group number (1-15) to synchronize this fixture with others, or "Disable Sync" to operate independently. All fixtures assigned to the same group number will automatically mirror each other's color temperature, brightness, and schedule state.

2 Radio Channel

Shows the current radio channel used for wireless communication. All devices must be on the same radio channel to communicate. Secondary fixtures automatically scan channels on startup to find a primary fixture with the matching group number.

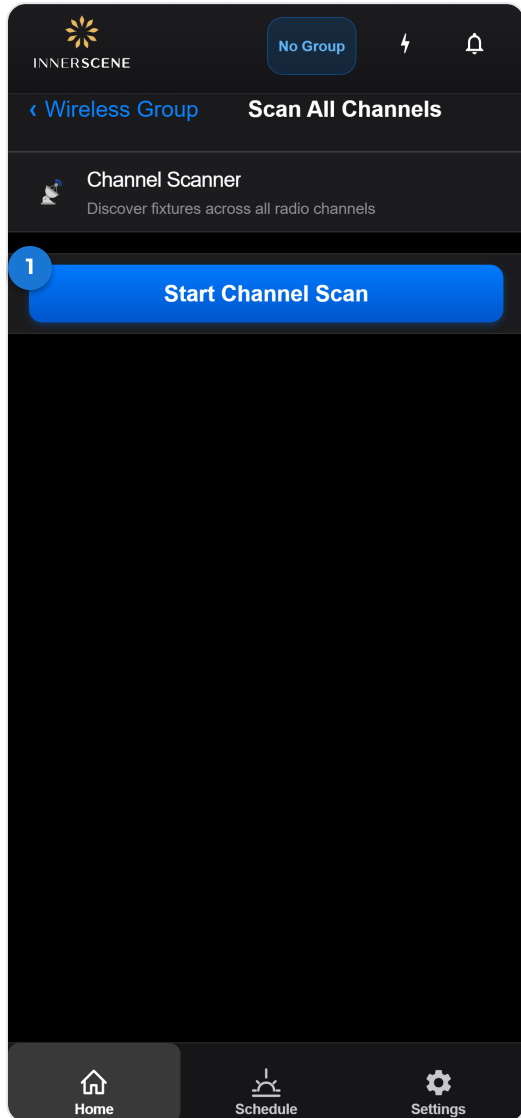
3 Scan All Channels

Scans all radio channels (1-11) to discover Innerscene fixtures that may be on different channels. Useful when setting up a new group or troubleshooting connectivity between fixtures.

4 Discovered Peers

Lists other Innerscene fixtures discovered on the network. Shows each fixture's name, group assignment, radio channel, and allows you to interact with them. Peers are discovered automatically via the wireless protocol.

Scan All Channels



Scans every wireless group channel to discover all nearby Innerscene fixtures, regardless of which group they belong to. Useful during commissioning and for locating unknown fixtures on the network.

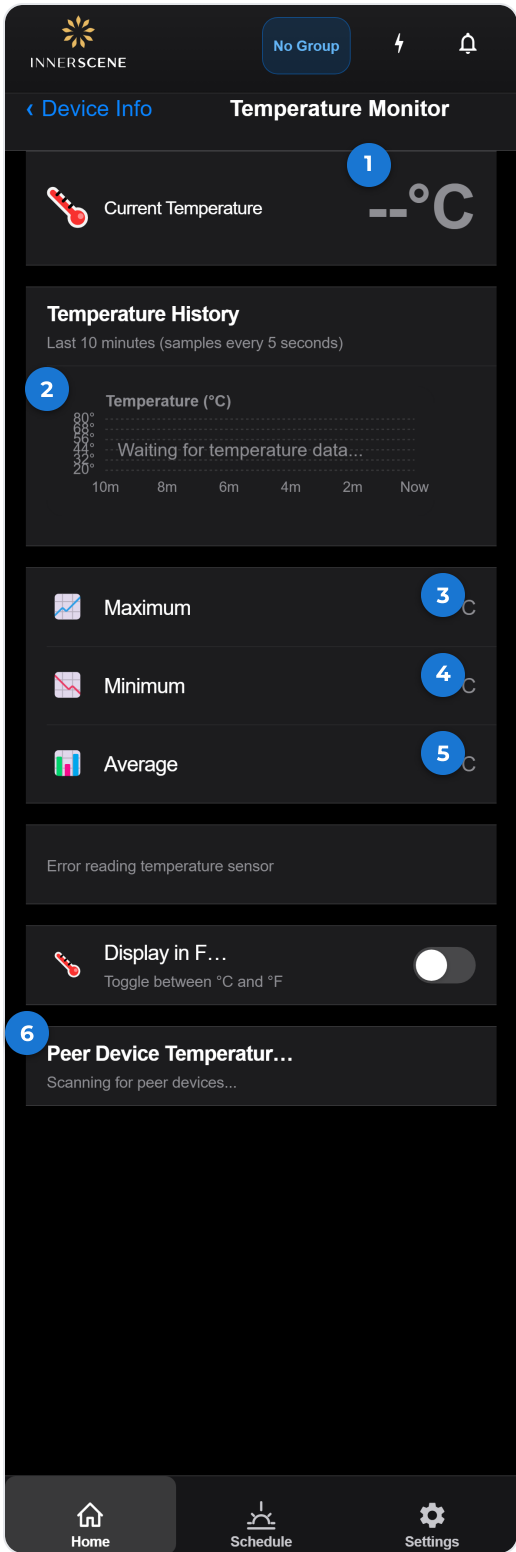
Controls & Options (1)

1 Start Channel Scan

Begins scanning all wireless channels for fixtures. The device temporarily tunes to each channel in turn and listens for broadcasts. Takes about a minute to complete.

Temperature Monitor

Home › Device Info › Temperature



Real-time temperature monitoring with a historical graph, statistical summary, unit toggle, and peer device temperature comparison.

Controls & Options (7)

1 Current Temperature

The current internal temperature of the device, displayed in large text. Updates every 5 seconds while this screen is open. Normal operating range is typically 30-60°C depending on brightness and ambient conditions.

2 Temperature History Graph

A rolling chart showing temperature readings over the last 10 minutes. Samples are taken every 5 seconds. The Y-axis auto-scales to the data range. Useful for monitoring thermal stability and identifying overheating trends.

3 Maximum Temperature

The highest temperature recorded since monitoring began on this screen. Resets each time you navigate away and return.

4 Minimum Temperature

The lowest temperature recorded since monitoring began on this screen. Resets each time you navigate away and return.

5 Average Temperature

The average of all temperature readings collected since monitoring began on this screen. Provides a good indicator of the device's typical operating temperature.

6 Peer Device Temperatures

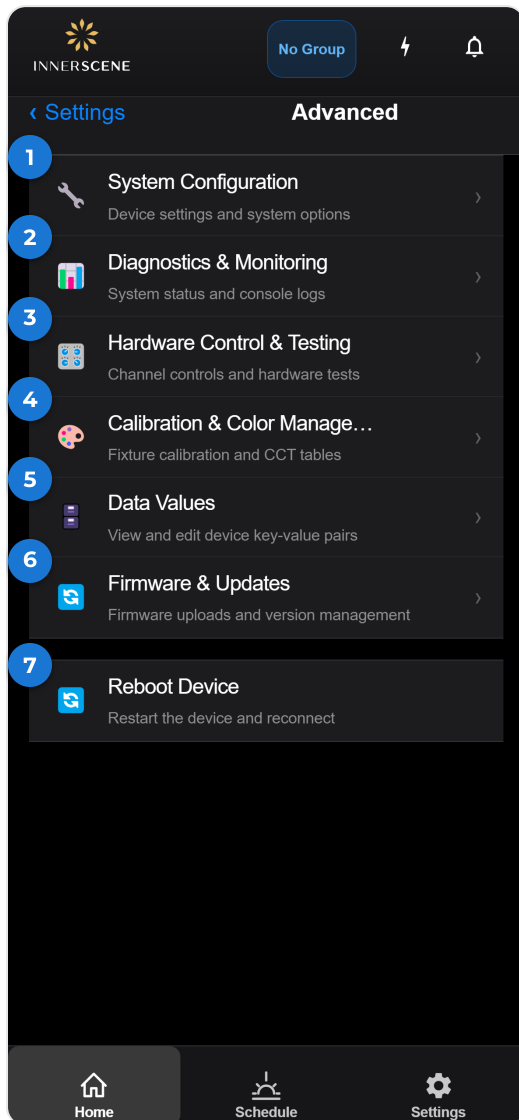
Shows the temperature of other Innerscene fixtures in the same wireless group. Each peer device is shown as a card with its name, current temperature, and last update time. Also displays group-wide min, max, and spread statistics when multiple peers are connected.

7 Fahrenheit Toggle *(conditional)*

Switches the display between Celsius (°C) and Fahrenheit (°F). Affects all temperature values on this screen including the graph, statistics, and peer device temperatures.

Advanced Settings

Home › Settings › Advanced



Hub page for advanced device configuration including system settings, WiFi, diagnostics, hardware control, calibration, device values, and firmware management.

Controls & Options (7)

1 System Configuration

Configure system-level device settings including status LED brightness, device network address, and factory reset.

2 Diagnostics & Monitoring

View real-time system status including connection state, console log output, WiFi events, peer information, and IP details. Adjust log verbosity levels for troubleshooting.

3 Hardware Control & Testing

Direct control of individual LED channels (Warm, Cool, Green, Blue, Sun) with raw PWM sliders. Includes radio channel configuration and hardware test functions for manufacturing verification.

4 Calibration & Color Management

Run the automated color calibration process, upload or download CCT lookup tables, and configure the calibration server. Used during manufacturing to ensure accurate color temperature output.

5 Data Values

View and edit the device's key-value configuration store. Each setting is stored as a named key with a typed value. Supports adding new keys, editing existing values, and making temporary values permanent.

6 Firmware & Updates

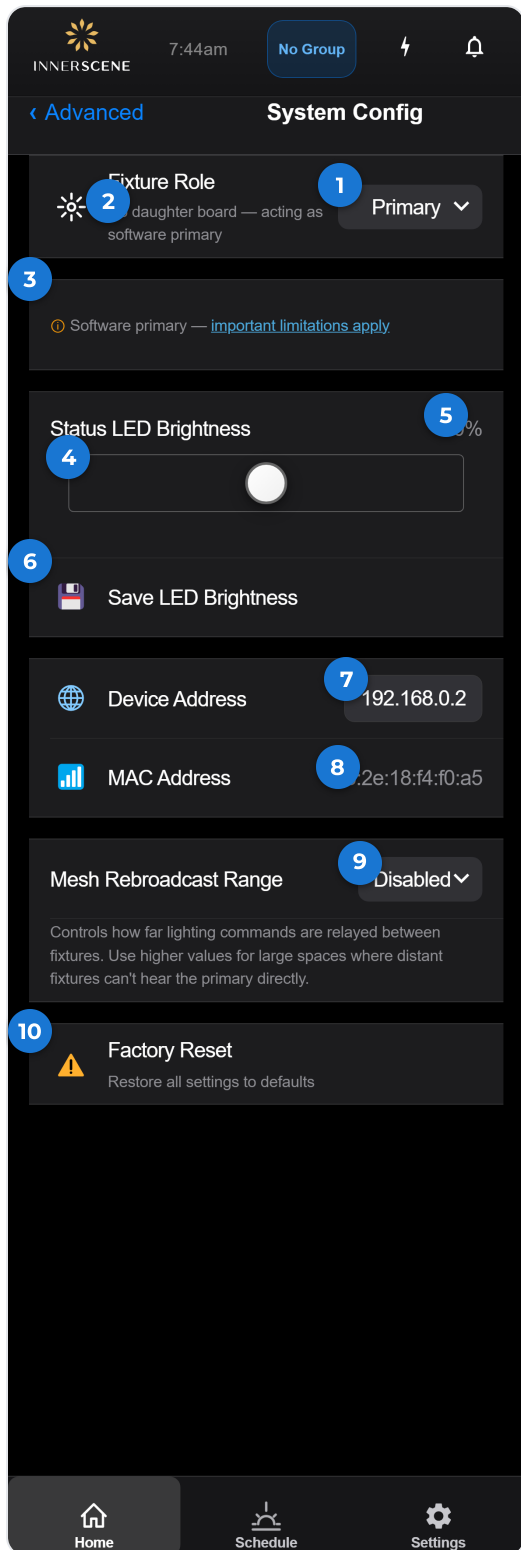
Upload new firmware to the device via OTA (over-the-air) update. Shows current firmware version, upload progress, and update log. Also provides access to mass device update for flashing multiple fixtures at once.

7 Reboot Device

Immediately restarts the device. The device will disconnect briefly and reconnect once the reboot is complete. All saved settings are preserved across reboots.

System Configuration

Home › Settings › Advanced › System Config



Configure system-level device settings including the fixture role, status LED brightness, network address, mesh rebroadcast range (primary fixtures only), and factory reset.

Controls & Options (10)

1 Fixture Role

Sets the role this fixture plays in its wireless group. "Auto" decides automatically from the hardware: a fixture with a daughter board (0-10V, DALI, DMX, or Casambi) becomes a Primary, and one without a board stays a Secondary. "Primary" forces the fixture to run its own schedule and broadcast it to the group. "Secondary" forces it to follow another primary in the same group. Virtual Sun Controller and SkySync Hub are specialized roles used in those product configurations. See Fixture Roles for a full explanation of primary, secondary, and software-primary fixtures.

2 Current Role Detail

Describes how the current role was arrived at, for example "No daughter board, acting as software primary" when a board-less fixture has been set to run as primary.

3 Software Primary Notice

Appears when a fixture without a daughter board is acting as a primary (a "software primary"). Software primaries run the schedule from internet time sync rather than a hardware clock, so they carry some limitations. Tap important limitations apply to read them.

4 Status LED Brightness

Controls the brightness of the small colored status LEDs on the device (red, orange, green). Set to 0% to turn them off entirely for a cleaner look in visible installations, or increase for easier status identification during setup.

5 LED Brightness Value

Displays the current status LED brightness as a percentage (0-100%).

6 Save LED Brightness

Saves the current LED brightness setting to the device. The change is applied immediately and persists across reboots.

7 Device Address

The IP address used to communicate with the device. This is automatically detected but can be manually overridden if needed (e.g., when accessing through a proxy or port forward).

8 MAC Address

The device's WiFi MAC address. This is a unique hardware identifier that cannot be changed. Useful for identifying the device on your network or in router settings.

9 Mesh Rebroadcast Range

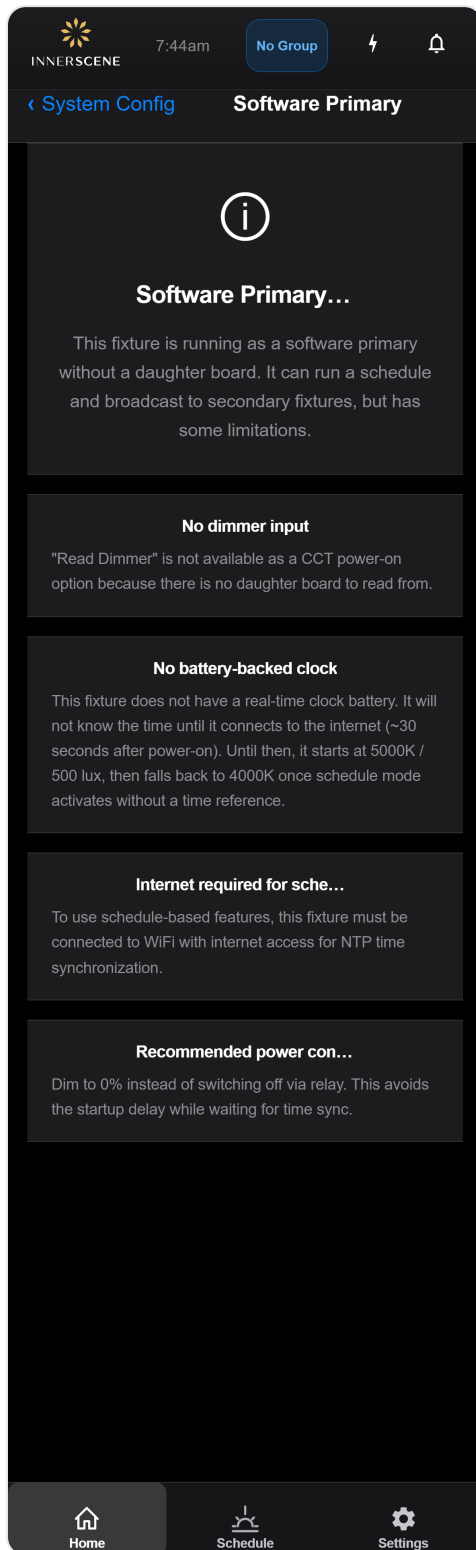
Controls how far lighting commands are relayed (rebroadcast) between fixtures in the wireless sync group. The default, "Disabled", means each secondary must hear the primary's broadcast directly and no fixture relays to its peers. Switch to one of the hop options ("1 Hop", "2 Hops", or "3 Hops") only when some fixtures are out of direct radio range of the primary. Each additional hop allows one more peer-to-peer relay step in the chain at the cost of a small amount of extra latency before the command is applied. This setting only appears on primary fixtures.

10 Factory Reset

Restores ALL settings to factory defaults. This erases the schedule, wireless group, WiFi credentials, calibration data, and all other configuration. The device will reboot and return to its initial setup state. This action cannot be undone.

Software Primary

Home › Settings › Advanced › System Config › Software Primary

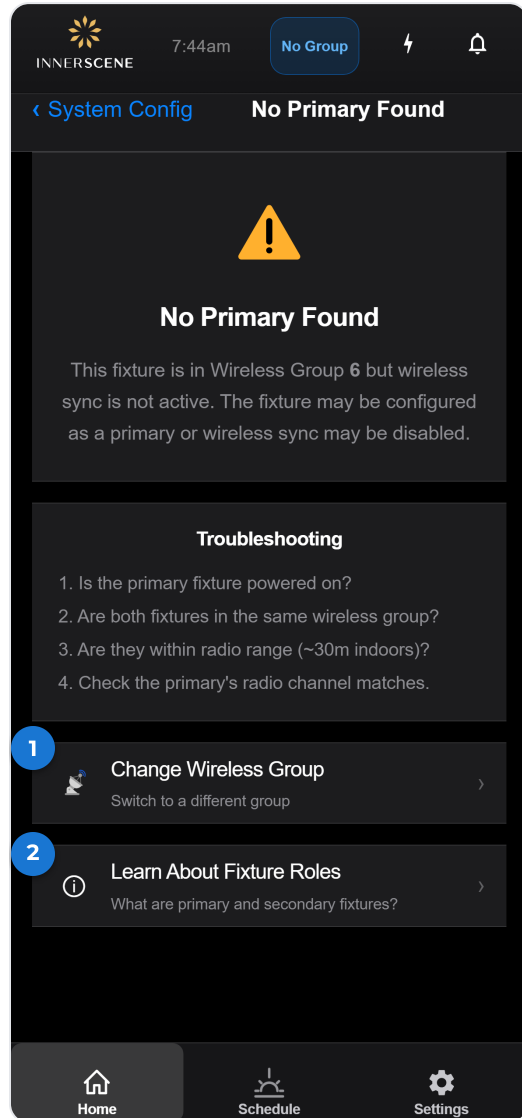


Information page shown when a fixture is acting as a "software primary" — i.e. running the schedule for its wireless group despite not having a 0-10V or DMX daughter board. Lists the four practical limitations of this mode so installers know what to expect: no dimmer input, no battery-backed clock, internet required for

schedule, and a recommended power-control strategy. Reached from the System Configuration page when this fixture's role is "software primary".

No Primary Found

Home › Settings › Advanced › System Config › No Primary Found



Troubleshooting screen shown when this fixture is a secondary but cannot find a primary on its wireless group. The status message at the top adapts to the actual condition — "no group assigned", "wireless sync inactive", or "no primary found" — and includes the current group number. The page offers two recovery paths: changing the wireless group, or learning more about fixture roles.

Controls & Options (2)

1 Change Wireless Group

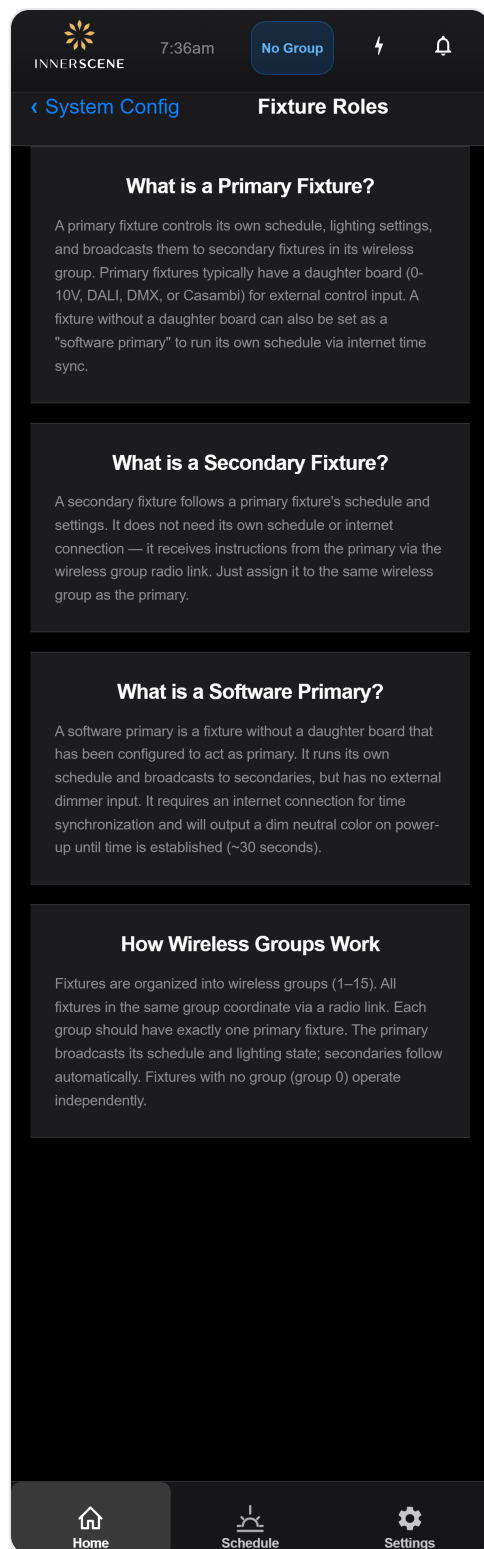
Navigates to the Wireless Group page so you can switch this fixture to a different group — useful if the fixture was provisioned to the wrong group, or if the primary is on a different group than expected.

2 Learn About Fixture Roles

Opens the Fixture Roles explainer describing what primary and secondary fixtures do, how they pair up, and the difference between hardware primaries, software primaries, and secondaries.

Fixture Roles

Home › Settings › Advanced › System Config › Fixture Roles



Educational page explaining the three fixture roles (primary, secondary, software primary) and how wireless groups tie them together. Reached from any page that offers "Learn About Fixture Roles" — typically on the No Primary Found, Secondary — No Wireless Group, or Secondary — Connected to Primary pages.

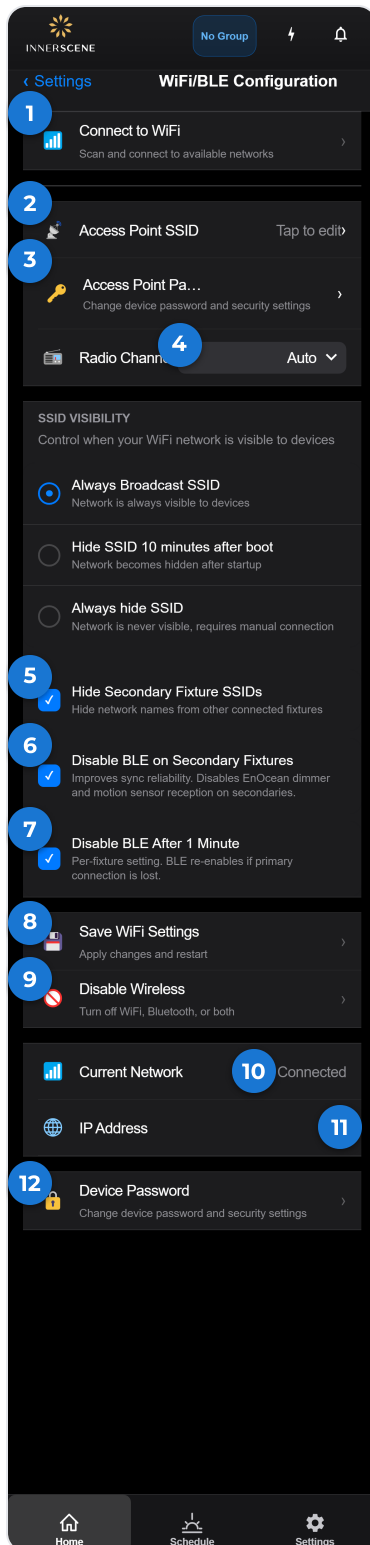
How This Screen Works

Every fixture on the wireless network takes one of three roles. A primary fixture runs its own lighting schedule and broadcasts it to the rest of its wireless group; it usually has a daughter board (0-10V, DALI, DMX, or Casambi) for external control. A secondary fixture has no schedule of its own and follows whatever the primary broadcasts over the group radio link, so you only need to assign it to the same wireless group. A software primary is a fixture with no daughter board that has been set to act as primary: it runs its own schedule but depends on an internet connection for time sync, and outputs a dim neutral color for about 30 seconds on power-up until the time is established.

Roles are tied together by wireless groups, numbered 1 to 15. All fixtures in the same group coordinate over the radio link, and each group should contain exactly one primary; the secondaries follow it automatically. A fixture left in group 0 has no group and operates on its own. This page is reached from the System Configuration menu and from the Learn About Fixture Roles links on the secondary and no-primary screens.

WiFi Configuration

Home › Settings › Advanced › WiFi



Manage the device's WiFi access point, connect to external networks, configure radio channel, SSID visibility, and security settings.

Controls & Options (16)

1 Connect to WiFi

Scan for nearby WiFi networks and connect the device to one for internet access. This enables cloud features like weather modulation, NTP time sync, and remote firmware updates. The device maintains its own access point while also connecting to the external network.

2 Access Point SSID

Change the name of the device's own WiFi access point. This is the network name that appears when you scan for WiFi on your phone or computer. The default name includes the device model and a unique identifier.

3 Access Point Password

Change the password required to connect to the device's WiFi access point. Also configures security settings for the device's web interface.

4 Radio Channel

Set the WiFi radio channel for the device's access point. "Auto" lets the device choose the least congested channel automatically. Manually selecting a channel (1-11) can help avoid interference in environments with many WiFi networks.

5 Hide Secondary Fixture SSIDs

When enabled, secondary fixtures in a wireless group hide their individual SSIDs, leaving only the primary fixture's network visible. Reduces WiFi clutter in multi-fixture installations.

6 Disable BLE on Secondary Fixtures

When enabled, secondary fixtures in the group turn off their Bluetooth radio. This improves wireless sync reliability, but disables EnOcean dimmer and motion-sensor reception on those secondaries. The primary fixture keeps Bluetooth on.

7 Disable BLE After 1 Minute

A per-fixture setting that turns the Bluetooth radio off one minute after the fixture boots, to reduce RF activity. Bluetooth re-enables automatically if the fixture loses its connection to the primary, so the fixture can still be recovered.

8 Save WiFi Settings

Applies all WiFi configuration changes and restarts the WiFi subsystem. The device may briefly disconnect while the new settings take effect.

9 Disable WiFi

Completely turns off the device's WiFi access point. Warning: this will make the device unreachable via WiFi. You will need a physical connection or BLE to re-enable it.

10 Current Network

Shows the name of the external WiFi network the device is currently connected to, or "Not Connected" if it hasn't joined any network.

11 IP Address

The IP address assigned to the device on the external WiFi network. Use this address to access the device's web interface from other devices on the same network.

12 Device Password

Navigate to the device password configuration page. Here you can change the password used to access the device's web interface and control functions.

13 Always Broadcast SSID *(conditional)*

The device's WiFi network name is always visible when scanning for networks. This is the default and recommended setting for easy access.

14 Hide After 10 Minutes *(conditional)*

The SSID is visible for 10 minutes after the device boots, then becomes hidden. You can still connect by manually entering the network name. Useful for reducing WiFi clutter once initial setup is complete.

15 Always Hide SSID *(conditional)*

The SSID is never broadcast. The device's network won't appear in WiFi scans — you must manually enter the network name to connect. Provides the cleanest WiFi environment but requires knowing the SSID.

16 Disconnect WiFi *(conditional)*

Disconnects the device from the current external WiFi network. The device's own access point remains active. Only visible when the device is connected to a network.

WiFi Scan

Home › Settings › Advanced › WiFi › Scan



Scans for nearby WiFi networks and displays them sorted by signal strength. Tap a network to connect the device to it.

Controls & Options (4)

- 1 Scan Status**

Shows the current state of the WiFi scan — scanning, complete, or error. During scanning, a progress bar shows the estimated time remaining (typically 5 seconds).
- 2 Scan Progress Bar**

Visual progress indicator for the WiFi scan. The bar fills from left to right during the scan. After completion, it disappears and the network list is shown.

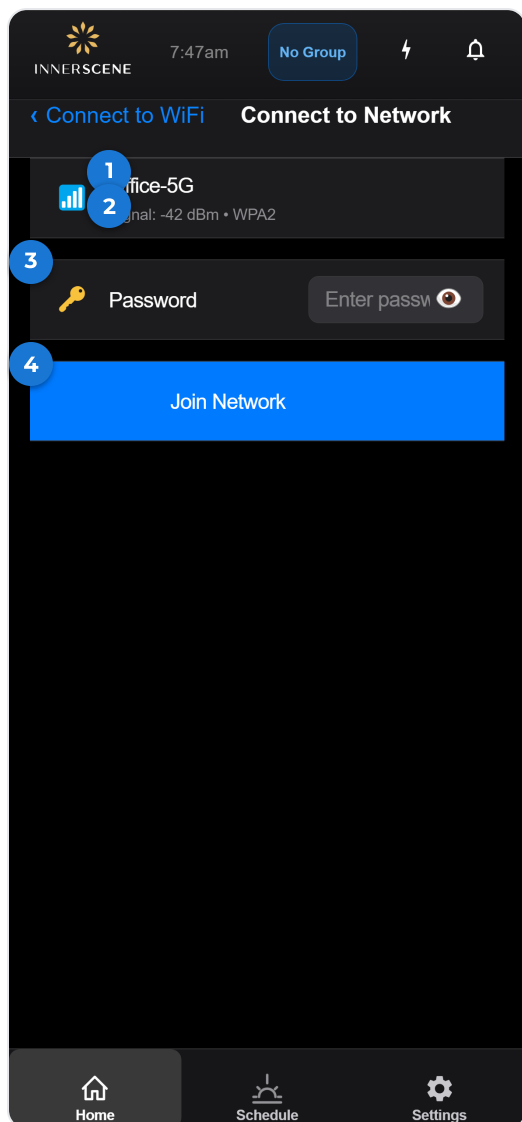
3 Available Networks *(conditional)*

List of discovered WiFi networks sorted by signal strength. Each entry shows the network name (SSID), signal strength indicator, and security type. Tap any network to connect to it. Networks you've previously connected to are marked.

4 Scan Again *(conditional)*

Starts a new WiFi scan to refresh the list of available networks. Useful if the network you're looking for didn't appear in the initial scan.

Connect to WiFi Network



Enter the password and join a selected WiFi network. Shows connection progress and status.

Controls & Options (5)

1 Network Name

The name (SSID) of the WiFi network you are connecting to.

2 Network Details

Signal strength and security type of the selected network.

3 Password Field

Enter the WiFi network password. Not shown for open (unsecured) networks. The password is sent to the device and stored securely.

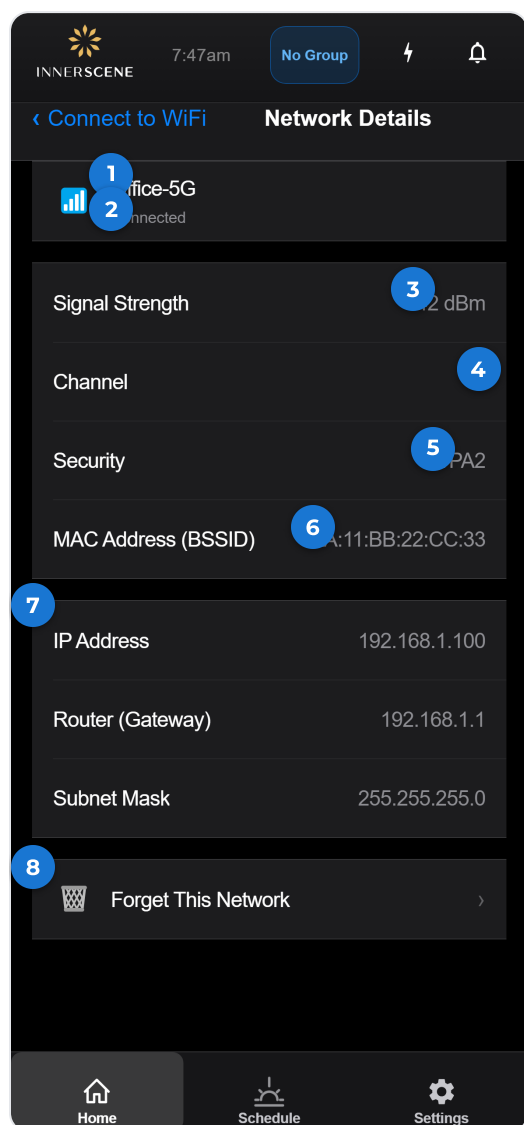
4 Join Network

Initiates the connection attempt. The device will try to connect to the network and report back the result. This may take up to 15 seconds.

5 Connection Status *(conditional)*

Shows the progress and result of the connection attempt — connecting, connected successfully, or failed with an error message.

WiFi Network Details



View detailed information about a WiFi network including signal strength, channel, security, and connection status with IP addressing.

Controls & Options (8)

1 Network Name

The SSID of the WiFi network being viewed.

2 Connection Status

Whether the device is currently connected to this network or not.

3 Signal Strength

The signal strength in dBm. Closer to 0 is stronger. Typical ranges: -30 to -50 (excellent), -50 to -70 (good), -70 to -85 (fair), below -85 (poor).

4 Channel

The WiFi radio channel the network operates on (1-11 for 2.4GHz, 36-165 for 5GHz).

5 Security

The encryption and authentication type used by the network (WPA2, WPA3, Open, etc.).

6 MAC Address (BSSID)

The hardware address of the access point. Useful for identifying specific access points when multiple share the same SSID.

7 Connection Info

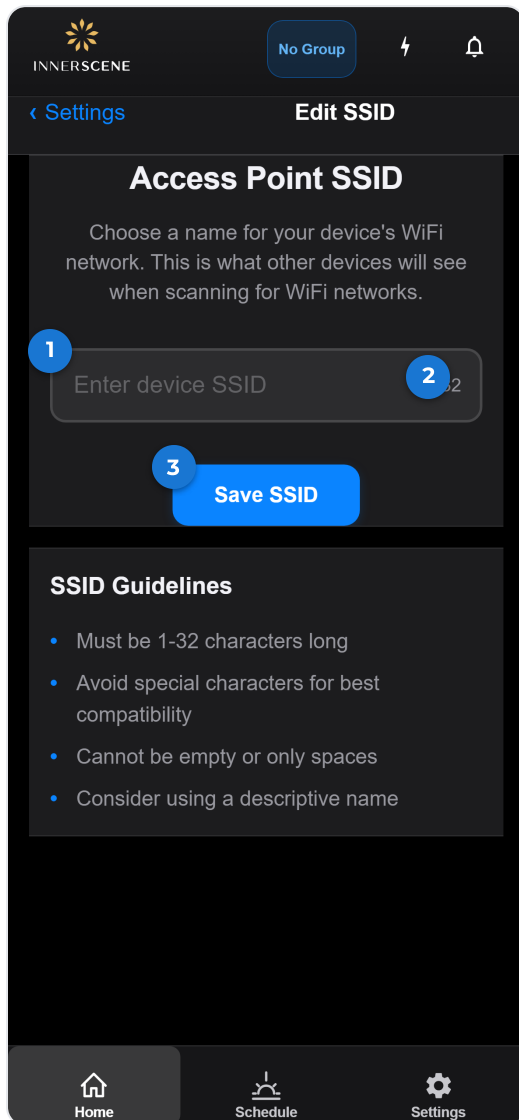
IP address, gateway, and subnet mask assigned to the device when connected to this network.

8 Forget Network

Removes the saved credentials for this network and disconnects. The device will no longer auto-connect to this network on boot.

SSID Editor

Home › Settings › Advanced › WiFi › SSID Editor



Change the name (SSID) of the device's WiFi access point. This is the network name visible when scanning for WiFi.

Controls & Options (3)

1 SSID Input

Type the new name for the device's WiFi network. The name can be 1-32 characters long. This is what appears when you or other users scan for WiFi networks on phones, tablets, or computers.

2 Character Counter

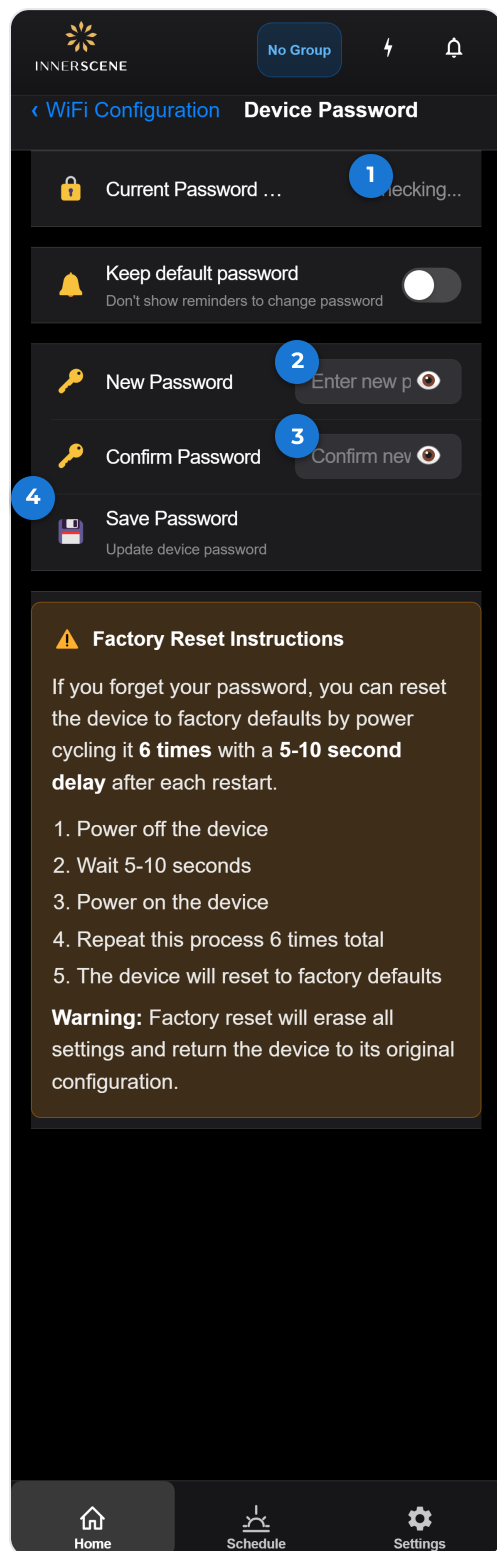
Shows how many characters you've typed out of the 32-character maximum. WiFi SSIDs are limited to 32 characters by the WiFi standard.

3 Save SSID

Saves the new SSID name to the device. The WiFi access point will restart with the new name. You will need to reconnect to the device using the new network name.

Device Password

Home › Settings › Advanced › WiFi › Password



Change the device password used to access the web interface and protect the device from unauthorized control.

Controls & Options (5)

1 Current Password Status

Shows whether the device is using the factory default password or a custom password. If using the default, a reminder banner appears on the Home screen.

2 New Password

Enter the new password for the device. This password will be required to access the device's web interface and control it remotely. Choose something memorable but secure.

3 Confirm Password

Re-enter the new password to confirm. Both fields must match before the password can be saved.

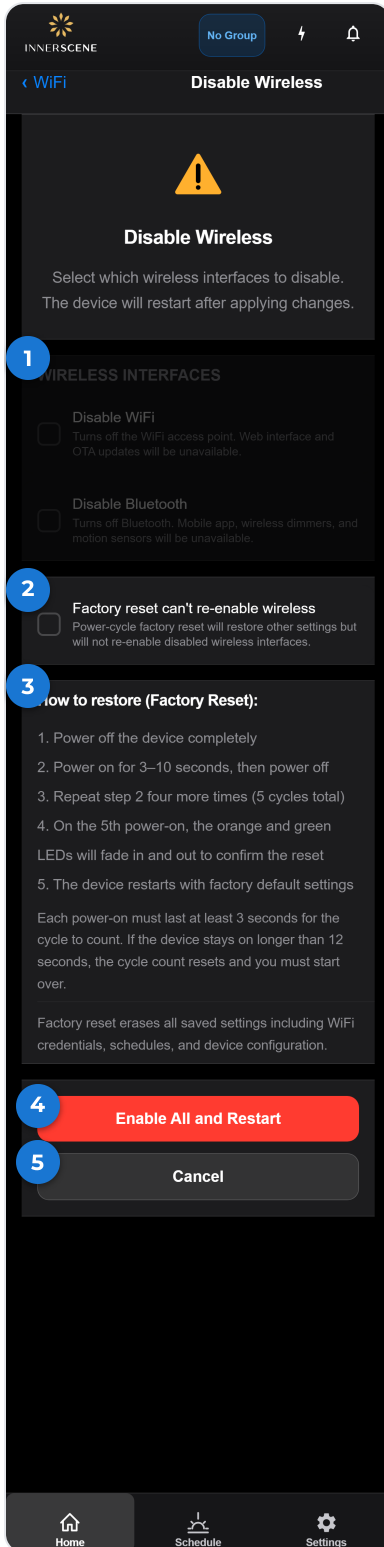
4 Save Password

Saves the new password to the device. The change takes effect immediately — you will need to use the new password the next time you connect.

5 Keep Default Password (*conditional*)

When enabled, suppresses the "change your password" reminder banner on the Home screen. Use this if you intentionally want to keep the default password (e.g., in a controlled environment).

Disable Wireless



Permanently disables one or more wireless interfaces on the device. This is a one-way operation — once disabled, the interface cannot be re-enabled from the device itself.

Controls & Options (6)

1 Wireless Interfaces

Select which wireless interfaces to disable. Each checkbox represents a separate radio (WiFi AP, WiFi station, Bluetooth, mesh). Checking any option is permanent on this device.

2 Permanence Warning

Explains that a factory reset will NOT restore wireless. The disable is burned into non-volatile storage and survives reset, reboot, and firmware update.

3 Restore Instructions

Details on the physical steps required to re-enable wireless (returning the unit to Innerscene). Keep these instructions handy if you ever need to reverse the disable.

4 Disable and Restart

Commits the disable operation. The device reboots immediately and the selected interfaces come up disabled. This cannot be undone from the UI.

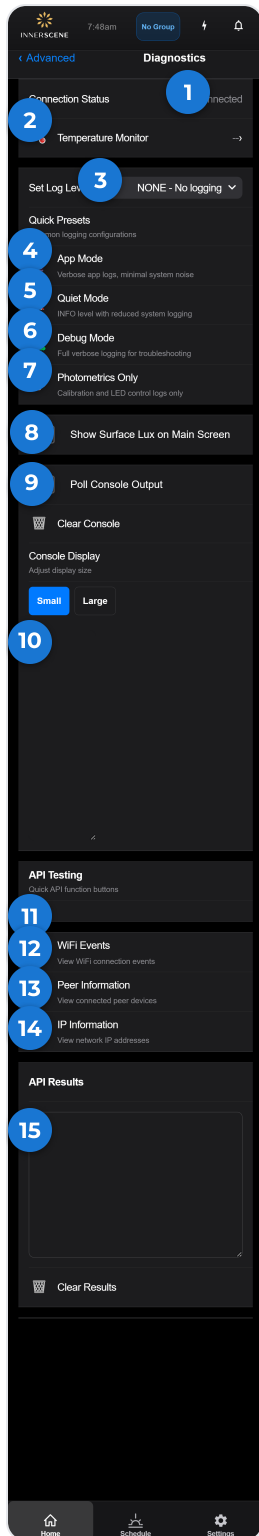
5 Cancel

Closes this page without making any changes. Nothing is disabled and all wireless interfaces stay active.

6 Impact Summary *(conditional)*

Lists the capabilities you will lose when the selected interfaces are disabled — remote access, phone app, cloud features, sync groups, etc. Read this carefully before proceeding.

Diagnostics & Monitoring



System diagnostics tools including connection monitoring, log level configuration, console output, API testing, and network diagnostics.

Controls & Options (15)

- 1 Connection Status**

Shows whether the device is currently connected and reachable. Polls the device every 5 seconds to verify connectivity.
- 2 Temperature Monitor**

Opens the Temperature Monitor page with a graph, statistics, and peer device temperatures.
- 3 Log Level**

Controls the verbosity of the device's internal logging. Higher levels produce more output but may affect performance. Useful for debugging issues with Innerscene support.
- 4 App Mode Preset**

Configures logging for normal application use — enables important system messages while keeping noise low.
- 5 Quiet Mode Preset**

Minimizes all logging output. Use when logging is not needed and you want maximum performance.
- 6 Debug Mode Preset**

Enables detailed debug logging for troubleshooting. Produces verbose output that helps diagnose connectivity and control issues.
- 7 Photometrics Preset**

Enables logging specific to light measurement, calibration, and color rendering. Used during calibration sessions.
- 8 Show Surface Lux**

When enabled, displays the measured surface lux reading on the home screen below the brightness slider. Useful for verifying light output matches expectations.
- 9 Console Output**

When enabled, polls the device for console log output and displays it in the text area below. Shows real-time system messages, warnings, and debug information.
- 10 Console Display**

Shows the device's console output in real-time when console polling is enabled. Scrolls automatically as new messages arrive.
- 11 API Test Buttons**

Quick-access buttons to test individual device API endpoints. Results appear in the API Results area below. Useful for verifying device communication.
- 12 WiFi Events**

Retrieves the device's recent WiFi connection events including connects, disconnects, and authentication failures.
- 13 Peer Info**

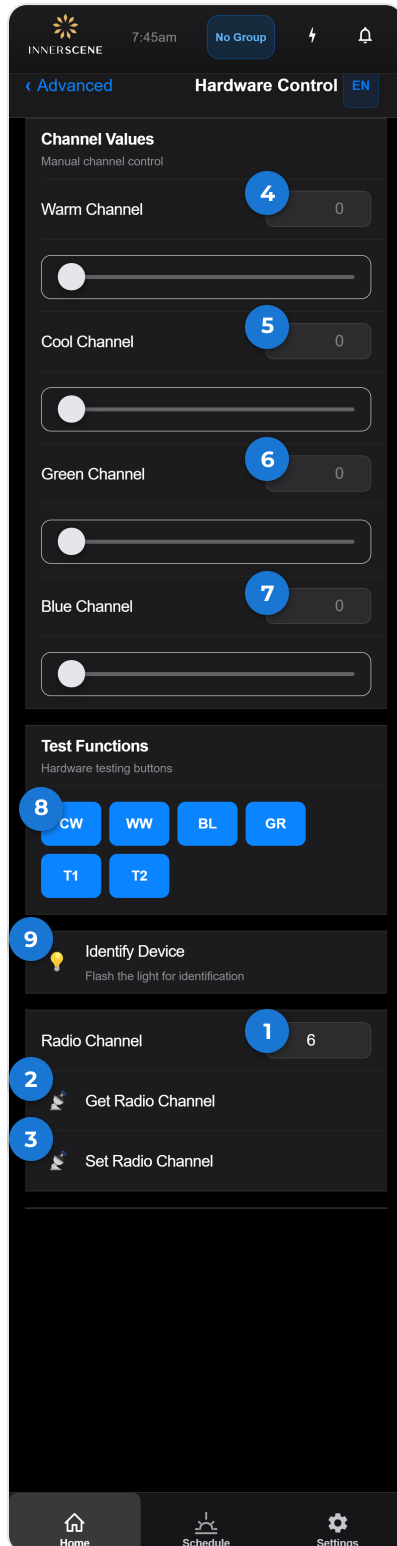
Shows information about other fixtures in the wireless sync group — names, signal strength, and sync status.
- 14 IP Info**

Displays the device's current IP addresses for both the access point interface and any connected WiFi network.

15 API Results

Displays the raw response from API tests and network diagnostic queries. Results are shown as formatted JSON text.

Hardware Control & Testing



Low-level hardware controls for directly setting individual LED channel values, changing the radio channel, and running hardware test functions. Intended for installers and advanced troubleshooting.

Controls & Options (9)

1 Radio Channel

The wireless radio channel (1-11) used for fixture-to-fixture communication in wireless sync groups. All fixtures in a group must be on the same channel.

2 Get Radio Channel

Reads the current radio channel from the device and displays it in the input field.

3 Set Radio Channel

Writes the entered channel number to the device. Warning: changing the channel will temporarily disconnect the fixture from its wireless group until other group members are updated to match.

4 Warm Channel (W)

Direct PWM value (0-2047) for the warm white LED channel. Higher values produce more warm light output. Setting this manually overrides the normal CCT/brightness control.

5 Cool Channel (C)

Direct PWM value (0-2047) for the cool white LED channel.

6 Green Channel (G)

Direct PWM value (0-2047) for the green LED channel. Used for fine color rendering adjustment.

7 Blue Channel (B)

Direct PWM value (0-2047) for the blue LED channel. Used for high CCT sky-light simulation.

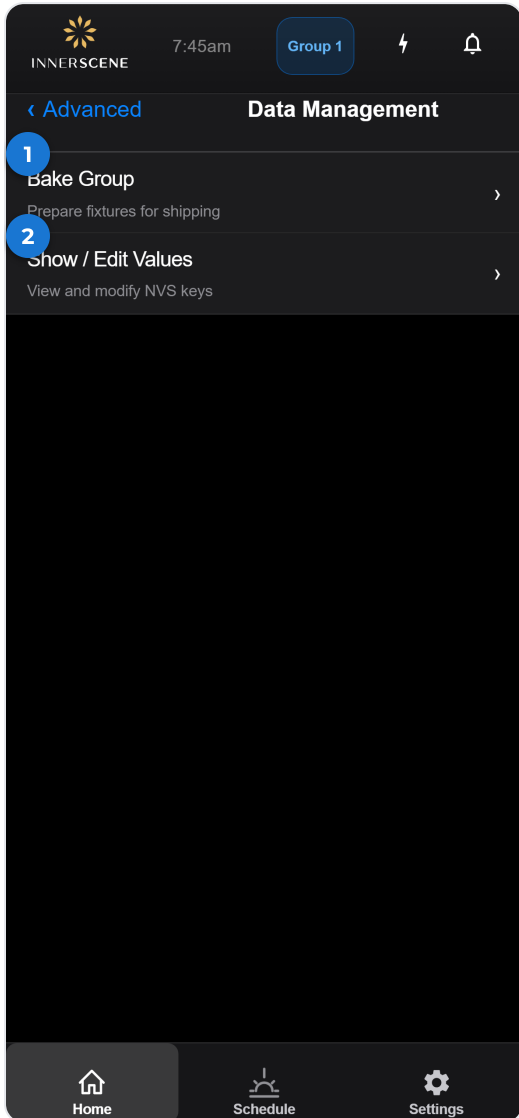
8 Test Buttons

Hardware test buttons that activate predefined LED channel combinations. CW=Cool White, WW=Warm White, BL=Blue, GR=Green, T1/T2=Test patterns. Used during manufacturing and installation verification.

9 Identify Device

Flashes the physical light fixture rapidly to help identify which device you are controlling. Useful when multiple fixtures are installed in the same area.

Data Management



Hub page for the fixture's low-level data tools. Splits into two sub-pages: Bake Group for preparing every fixture in the current wireless group for shipping, and Show / Edit Values for browsing and modifying the raw NVS key-value store.

Controls & Options (2)

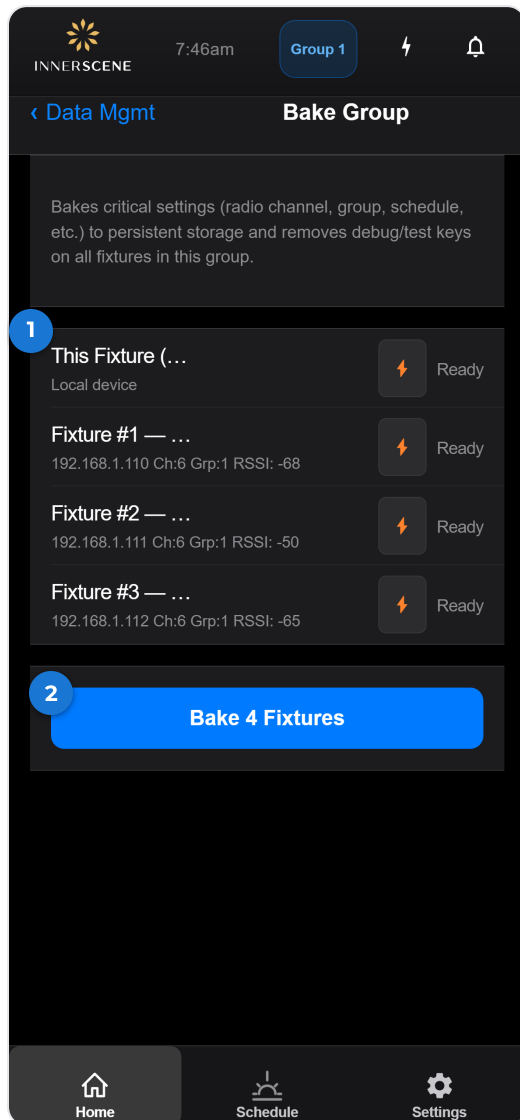
- 1 Bake Group**

Opens the Bake Group page. Used to bake critical runtime settings (radio channel, group, schedule, etc.) into persistent storage on every fixture in this wireless group, and to strip debug/test keys. Typically the last step before shipping a configured group of fixtures.
- 2 Show / Edit Values**

Opens the Device Values table, which shows every key-value entry stored on this device. From there you can edit individual values, add new keys, bulk-delete entries, and bake values into persistent storage.

Bake Group

Home › Settings › Advanced › Data Management › Bake Group



Prepares every fixture in the current wireless group for shipping by writing critical runtime settings (radio channel, group number, schedule, etc.) to persistent storage and removing debug/test keys. Run this before sending a calibrated, configured group of fixtures to a customer so the configuration survives a factory reset on the installation site.

Controls & Options (2)

1 Fixtures In Group

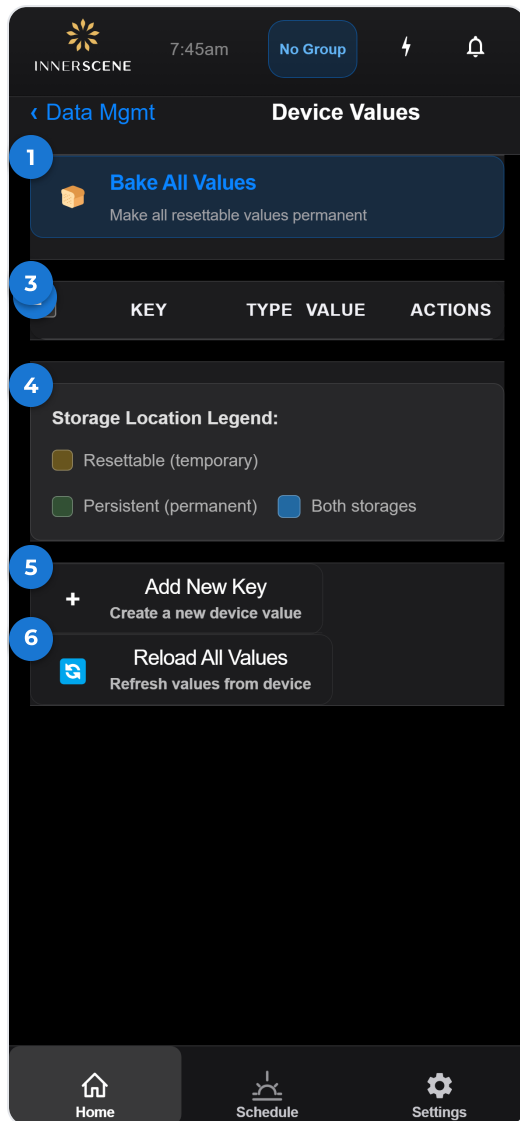
List of every fixture currently visible in the wireless sync group, including their names and bake status. Each entry will be processed when you tap Bake All Fixtures. Loaded from the wireless peer list, so make sure the group is healthy before baking.

2 Bake All Fixtures

Walks every fixture in the list in turn, copies the resettable values to persistent storage, and clears development-only keys. Takes several seconds per fixture. Safe to re-run; the operation is idempotent for already-baked values.

Device Values

Home › Settings › Advanced › Data Management › Device Values



Browse, edit, and manage all key-value configuration data stored on the device. Shows persistent and resettable storage locations with tools to bake, add, edit, delete individual or bulk-selected values. Reached from the Data Management hub.

Controls & Options (10)

1 Bake All Values

Copies all resettable (temporary) values to persistent storage so they survive a factory reset. Use this after configuring a fixture to make all current settings permanent.

2 Select All Checkbox

Toggles selection for every row in the table. Selecting one or more rows reveals the Bulk Delete bar at the bottom of the page.

3 Values Table

Displays every key-value pair stored on the device. Each row shows the key name, data type, current value, and per-row actions. Rows are color-coded by storage location — see the legend below the table — and individual rows can be checked to enable bulk delete.

4 Storage Location Legend

Color key explaining how the table rows are tinted. Resettable values are wiped by a factory reset; persistent values survive; "both" means the key exists in both storages and the two copies may differ.

5 Add New Key

Opens the Add New Key form so you can create a new key-value entry on the device. You'll be able to specify a key name (up to 16 characters), value, data type, and storage location.

6 Reload All Values

Re-reads all values from the device. Use this to refresh the table after making changes through other interfaces, after a firmware update, or after baking values.

7 Bulk Delete Bar *(conditional)*

Appears at the bottom of the page when one or more rows are checked. Shows how many values are selected and lets you delete them all in a single action. Hidden when nothing is selected.

8 Selected Count *(conditional)*

Number of rows currently checked for bulk deletion.

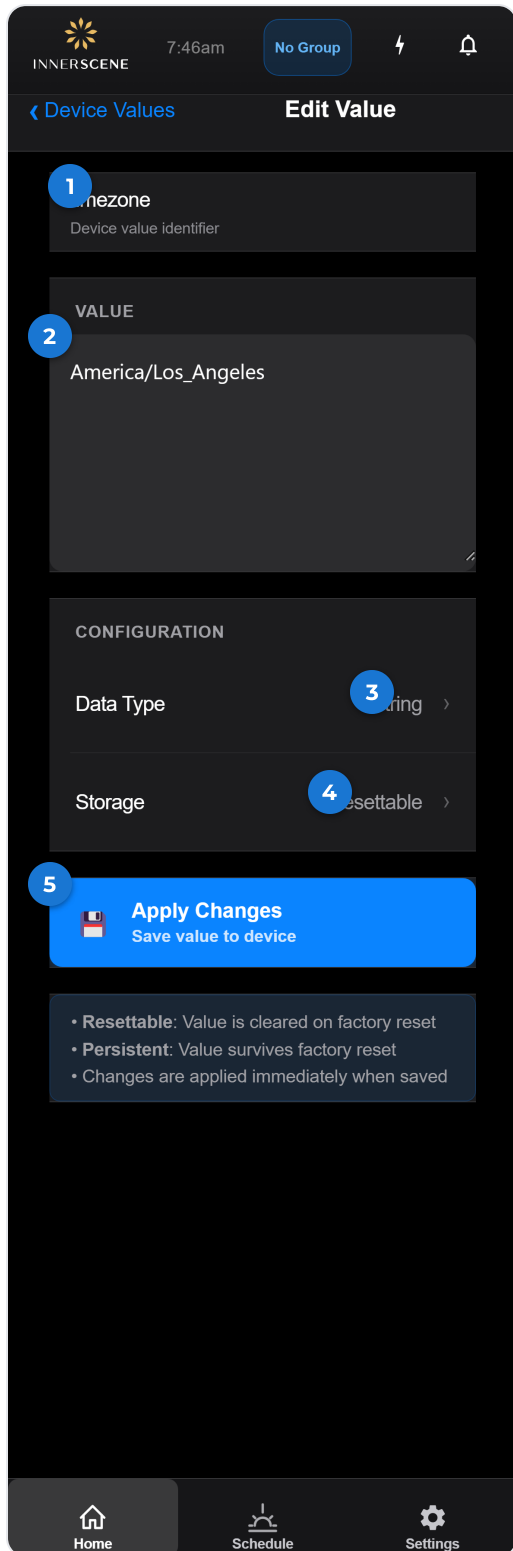
9 Delete Selected *(conditional)*

Deletes every row currently checked in the values table. Deleting a calibration-related key triggers the Confirm Calibration Delete dialog before proceeding.

10 Loading Status *(conditional)*

Shows progress while values are being loaded from the device. Loading all keys may take several seconds on a fixture with many stored values.

Edit Value



Edit an individual device configuration value. Modify the raw value, change its data type, or move it between storage locations.

Controls & Options (5)

1 Key Name

The name of the configuration key being edited. Key names are fixed identifiers used by the firmware.

2 Value

The current value stored for this key. Edit the text to change it. For binary data, values are shown in base64 encoding.

3 Data Type

The data type of this value. Tap to change between String, Int, Float, or Binary. The type must match what the firmware expects for this key.

4 Storage Location

Where this value is stored on the device. "Resettable" values are cleared by a factory reset. "Persistent" values survive a factory reset.

5 Apply Changes

Saves the modified value to the device. The change takes effect immediately.

Add New Key

INNERSCENE 7:46am No Group

< Device Values Add New Key

1 KEY NAME

Enter key name (e.g., myCustomValue)

Maximum 16 characters, no spaces or special characters

2 VALUE

Enter the initial value...

CONFIGURATION

Data Type **3** String >

Storage **4** Resettable >

5 **Create Key**
Add new value to device

- **Key Name:** Unique identifier for the value (max 16 chars)
- **Resettable:** Value is cleared on factory reset
- **Persistent:** Value survives factory reset
- Key will be created immediately when saved

Home Schedule Settings

Create a new key-value pair in the device's configuration store. Specify the key name, value, data type, and whether it should be stored in resettable or persistent storage.

Controls & Options (5)

1 Key Name

The name for the new key (up to 16 characters). Must contain only letters, numbers, and underscores. This name is used by the firmware to look up the value.

2 Value

The value to store for this key. Enter text for String type, a number for Int/Float, or base64-encoded data for Binary.

3 Data Type

The data type for this value. Tap to select String, Int, Float, or Binary.

4 Storage Location

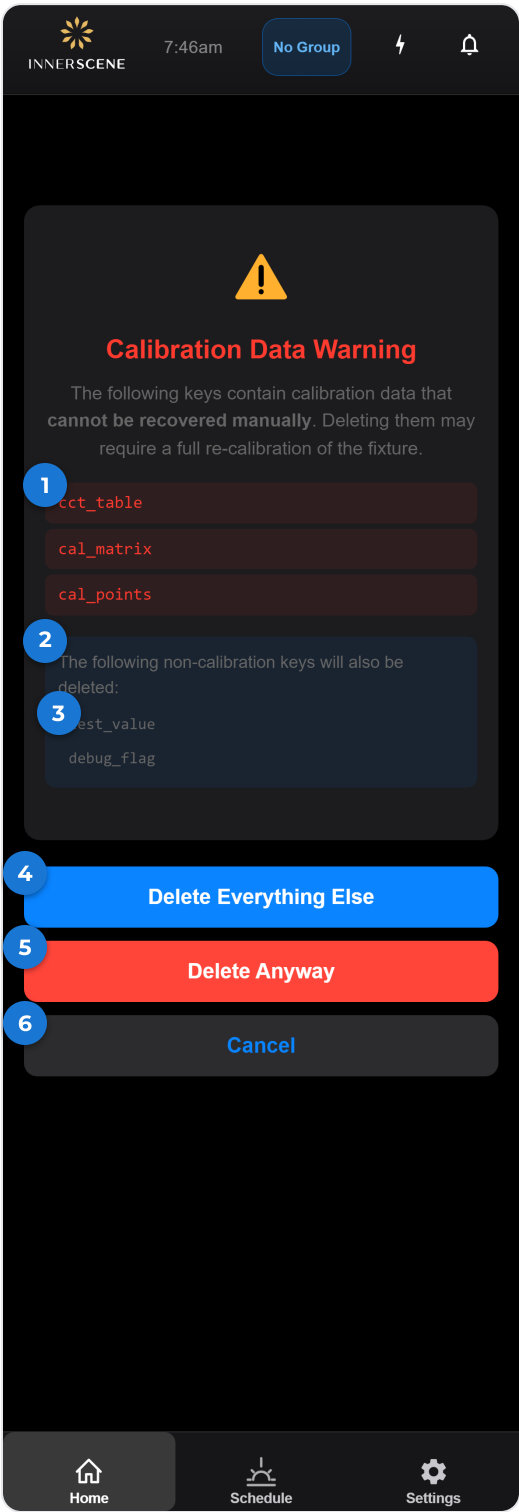
Where to store this value. "Resettable" is cleared by factory reset. "Persistent" survives factory reset.

5 Create

Creates the new key-value pair on the device. You'll be returned to the values table where the new entry will appear.

Confirm Calibration Delete

Home › Settings › Advanced › Data Management › Device Values › Confirm Delete



Safety prompt shown when you attempt to delete one or more keys that contain calibration data. Calibration is not user-recoverable without rerunning the full calibration procedure, so this dialog asks you to confirm before destroying it. Reached from the Device Values page when the selected rows include calibration keys.

Controls & Options (6)

1 Calibration Keys to Delete

List of the specific calibration-data keys that will be deleted if you proceed. These are the unrecoverable entries — once deleted, the fixture must be re-calibrated against a reference target to restore them.

2 Non-calibration Keys Note

Conditional section shown when the bulk selection also includes non-calibration keys. Lists those entries separately so you can see the full scope of what will be deleted alongside the calibration data.

3 Non-calibration Keys List

The non-calibration entries included in this bulk delete. These are safe to delete without losing calibration, but are shown so the consequences of each button are clear.

4 Delete Everything Else

Skips the calibration keys and deletes only the non-calibration entries listed above. Use when you want to clean up other keys without losing the fixture's calibration.

5 Delete Anyway

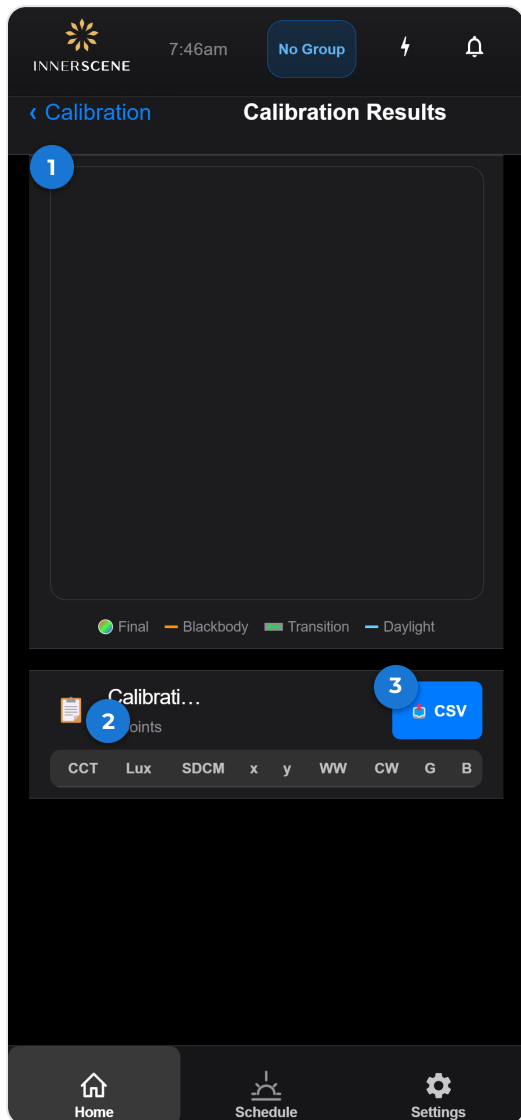
Proceeds with the deletion of everything, including the calibration keys. The fixture will need to be re-calibrated afterwards. Cannot be undone.

6 Cancel

Returns to the Device Values page without deleting anything. The current bulk selection is preserved so you can adjust which rows are checked before trying again.

Calibration Results

Home › Settings › Advanced › Calibration Results



Shows the calibration results stored on the fixture: the individual calibration points plotted on a CIE 1931 chromaticity diagram, and the underlying point-by-point table including CCT, lux, color-MacAdam-step (SDCM), CIE xy coordinates, and raw LED channel values. Used to verify a fixture's calibration is healthy or to export the data for analysis.

Controls & Options (4)

1 Calibration CIE Chart

Plots every calibration point on the CIE 1931 chromaticity diagram. The Planckian locus (orange) shows the blackbody curve, the transition (dashed green) and daylight (blue) lines mark the reference paths the fixture targets, and the calibration points themselves appear as small marks. Tight clustering on the reference curves indicates a clean calibration.

2 Point Count

Number of calibration points stored on the fixture. A typical fixture has tens to hundreds of points depending on the calibration algorithm used.

3 Download CSV

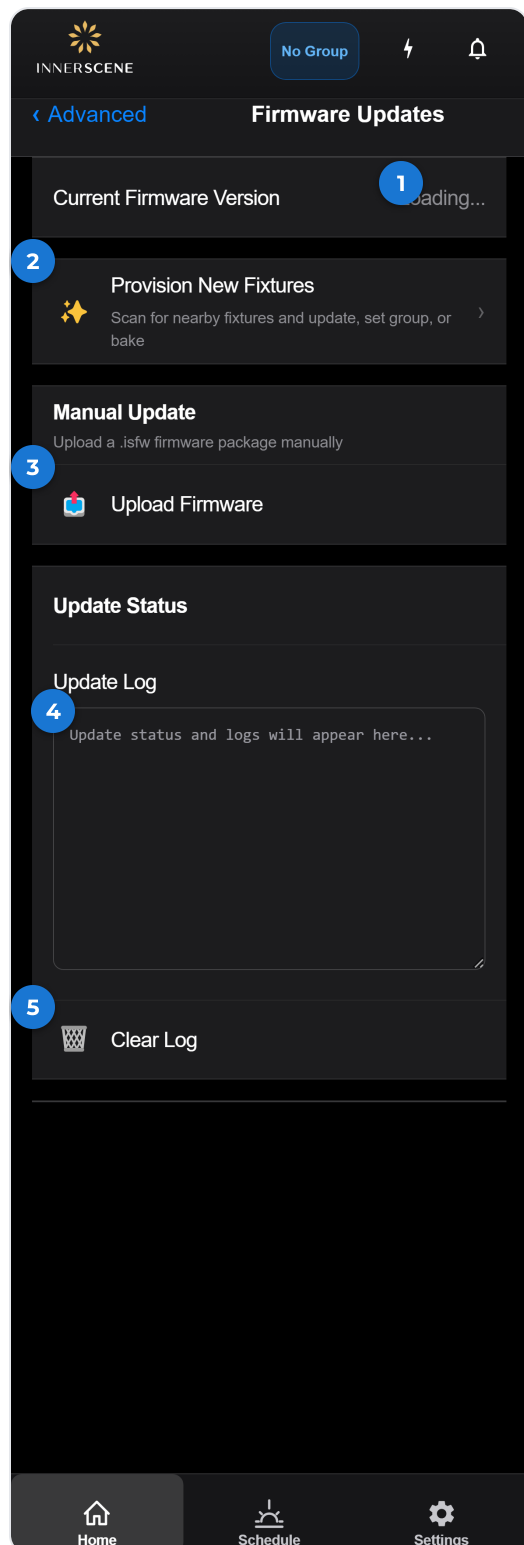
Exports the calibration table as a CSV file for offline analysis. Useful for comparing calibrations between fixtures, archiving a baseline, or feeding the data into external tools.

4 Calibration Points Table *(conditional)*

Per-point details of the calibration. Columns: target CCT (K), target illuminance (lux), color-quality SDCM (MacAdam step distance from target), measured CIE x and y, and the raw warm-white / cool-white / green / blue PWM values that produced the measurement. Scroll vertically to see all points.

Firmware Updates

Home › Settings › Advanced › Firmware Updates



View the installed firmware version, install verified updates from the server, provision new fixtures, or upload a firmware package manually.

How This Screen Works

The Firmware Updates screen updates the firmware on the connected fixture. The current version is shown at the top. When a newer build is available, an Update Available card appears with Download & Install, which fetches a signature-verified update directly from the Innerscene server, flashes it, and reboots the fixture. Progress and any errors are shown in the card below.

When the Innerscene Studio mobile app carries a newer bundled build than the fixture is running, an additional Install Bundled Firmware option appears. This is useful when the fixture has no internet access: connect the phone to the fixture's Wi-Fi and install the build straight from the app. During the upload the phone briefly joins the fixture's Wi-Fi access point, which is roughly ten times faster than a Bluetooth transfer, then rejoins your previous network automatically.

Provision New Fixtures opens a wizard that scans for nearby unconfigured fixtures still broadcasting their factory Innerscene access points, then installs firmware, assigns a wireless group, and bakes settings across them in one batch. For special cases, Upload Firmware lets you apply a firmware package (.isfw) manually from a file, with progress and a detailed log shown below.

Controls & Options (8)

1 Current Firmware Version

Displays the firmware version currently installed on the device. Compare this with the latest available version to determine if an update is needed.

2 Provision New Fixtures

Opens the Provision New Fixtures wizard. Scans nearby WiFi for unprovisioned Innerscene fixtures and, in one batch, installs firmware on them, assigns them to a wireless group, and bakes their settings. Useful when commissioning a fresh installation where the new fixtures are still broadcasting their factory Innerscene-* access points.

3 Upload Firmware

Opens a file picker to select a firmware package (.isfw) from your computer for a manual update. The package is uploaded to the device over-the-air, verified, flashed, and the device reboots automatically.

4 Update Log

Monospace text area showing real-time status messages during the firmware update process. Includes upload progress, verification status, flash operations, and any errors encountered. Useful for troubleshooting failed updates.

5 Clear Log

Clears the update log text area. Useful for starting a fresh log before a new update attempt.

6 Download & Install *(conditional)*

Downloads and installs a verified firmware update directly from the Innerscene server. Shown when a newer version is available. The update is signature-checked, flashed, and the device reboots automatically. Progress and any errors appear in the section below.

7 Install Bundled Firmware *(conditional)*

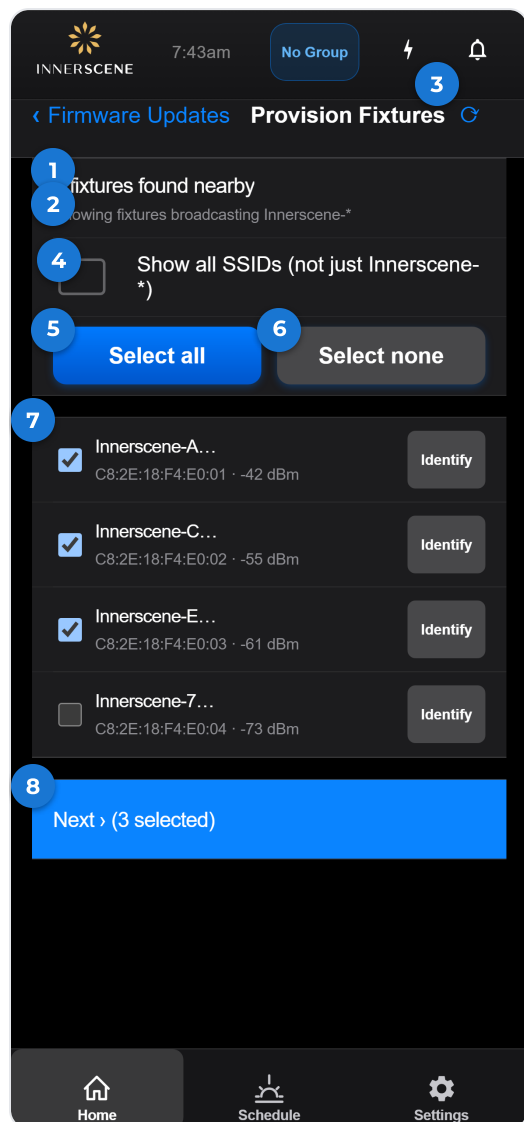
Installs firmware bundled inside the Innerscene Studio app. Available in the iOS/Android app when it carries a newer build than the fixture is running, which is useful when the fixture has no internet access (connect to the fixture WiFi, then install).

8 Upload Progress *(conditional)*

Visual progress bar showing the firmware upload percentage. The bar fills from left to right during the upload. Upload speed depends on the connection type (WiFi is faster than BLE).

Provision New Fixtures: Scan

Home › Settings › Advanced › Firmware Updates › Provision Fixtures



Step 1 of the batch provisioning wizard. Scans nearby WiFi for fixtures broadcasting their factory Innerscene-* access points. Pick the targets, then continue to choose which actions to apply.

Controls & Options (8)

1 Scan Summary

Live status of the scan, for example Scanning for fixtures or how many candidate access points were found. Updates as the scan progresses.

2 Scan Filter Description

Explains what is being shown in the device list. By default only Innerscene-* access points are listed; toggle Show all SSIDs to inspect every nearby network.

3 Rescan

Triggers a fresh WiFi scan. Use when a fixture you expected to see is missing, or after powering on additional fixtures nearby.

4 Show All SSIDs

When enabled, the device list shows every nearby WiFi network instead of just fixtures broadcasting Innerscene-* SSIDs. Useful for diagnosing whether a target is being filtered out, but most provisioning runs leave this off.

5 Select All

Marks every fixture currently shown in the list for provisioning. The Next button enables as soon as one or more fixtures are selected.

6 Select None

Clears the current selection so you can pick a different subset of fixtures.

7 Device List

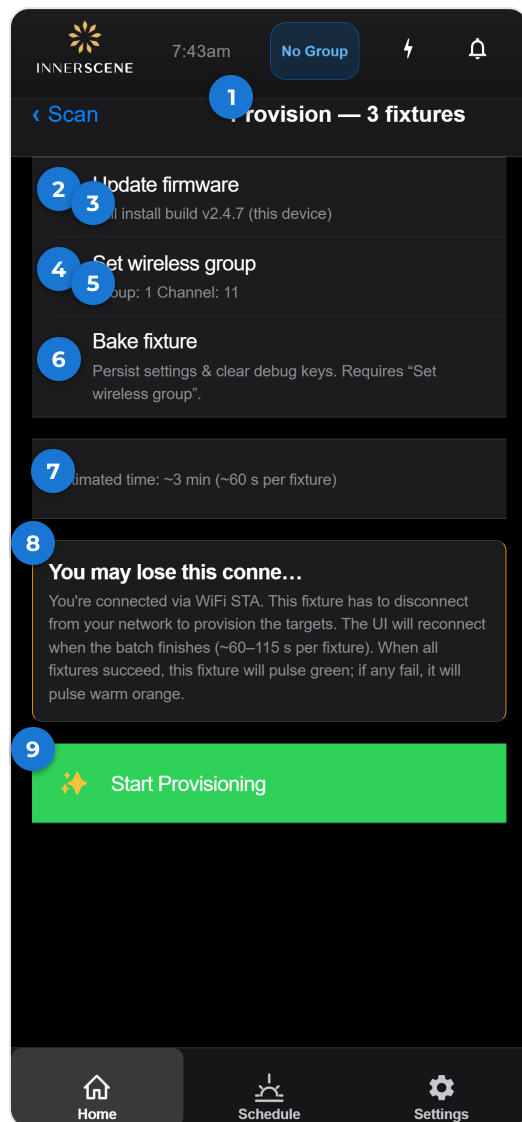
Scrollable list of every nearby fixture (or every SSID, if Show all SSIDs is on). Each row shows the fixture name, an identify button to make it flash, and the signal strength. Tap a row to include or exclude that fixture from the batch.

8 Next

Advances to the configuration step where you choose which actions to apply (firmware update, set wireless group, bake). Disabled until at least one fixture is selected.

Provision New Fixtures: Config

Home › Settings › Advanced › Firmware Updates › Scan › Configure



Step 2 of the batch provisioning wizard. Pick which actions to apply to each selected fixture (install firmware from this controller, set the wireless group, bake the settings), then start the batch. The orchestrator processes targets one at a time over WiFi.

Controls & Options (9)

1 Selection Header

Shows how many fixtures were selected in the previous step. The actions below will be applied to each of them in sequence.

2 Update Firmware

When checked, the firmware running on this controller is installed on every selected fixture. Most provisioning runs leave this on so all fixtures ship at the same build.

3 Firmware Source Detail

Indicates which firmware build will be sent, typically the version currently running on this controller. The same image is used for every target.

4 Set Wireless Group

When checked, the wireless group and radio channel of this controller are applied to every target. This is what makes the new fixtures synchronise with the existing ones.

5 Group Detail

Shows the group number and radio channel that will be written to each fixture. These come from this controller, so configure the group on this device first if it needs to change.

6 Bake Fixture

When checked, settings are persisted into long-term storage and debug keys are cleared on each fixture once provisioning succeeds. Requires Set wireless group to be enabled, since baking without a final group assignment is rarely useful.

7 Estimated Time

Rough estimate of how long the batch will take, scaled to the number of fixtures and the actions selected. Each fixture typically takes 60 to 115 seconds.

8 Connection Loss Warning

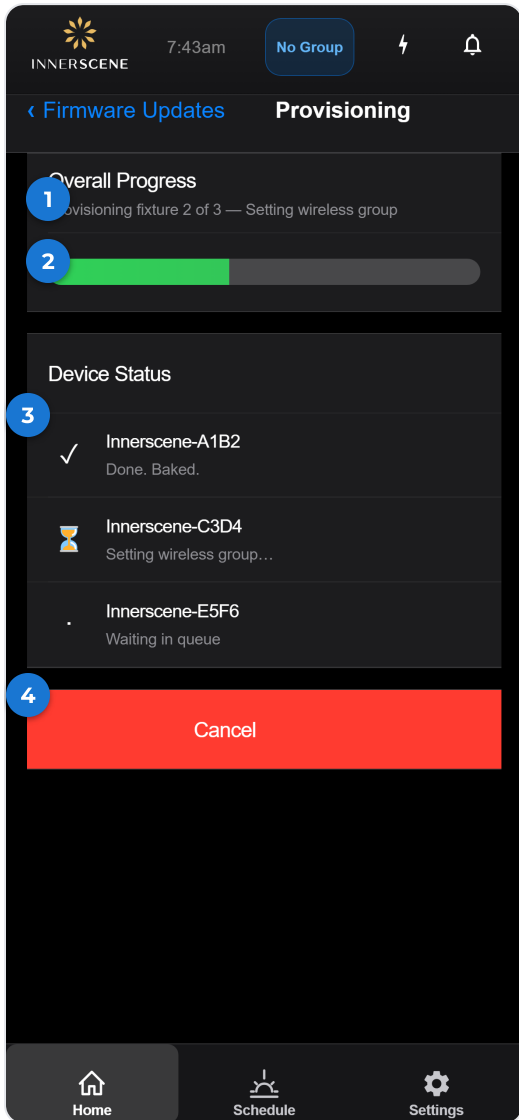
Conditional. Appears when you are reaching this controller through your home WiFi (STA mode). During provisioning the controller has to disconnect from your network to talk to each target, so the UI will go offline for a couple of minutes. The status LED pulses green on success or warm orange if any target failed.

9 Start Provisioning

Kicks off the batch. Navigates to the progress page where you can watch each fixture move through the chosen actions.

Provision New Fixtures: Progress

Home › Settings › Advanced › Firmware Updates › Scan › Configure › Progress



Step 3 of the batch provisioning wizard. Live status as the controller works through each target fixture in turn. Shows an overall progress bar plus a per-device row with the current action and outcome.

Controls & Options (5)

1 Overall Status

High-level batch state, for example Starting, Provisioning fixture 2 of 4, Batch complete, or an error if the controller could not reach a target.

2 Overall Progress

Fraction of the batch completed across all selected fixtures and all selected actions. Fills left to right.

3 Per-Device Status

One row per selected fixture, with its name, the action currently running (Updating firmware, Setting group, Baking), and an outcome icon once that fixture is done. Failed fixtures show an error message you can act on.

4 Cancel

Stops the batch after the in-flight fixture finishes its current action. Fixtures already completed keep their changes; fixtures not yet started are skipped.

5 Done *(conditional)*

Conditional. Appears once every fixture has finished (with success or failure). Returns to the Firmware Updates page.

Secondary Fixtures Not Responding

A Secondary that has lost its Primary does not go dark. It falls back to its own power-on brightness and color temperature, so an out-of-sync fixture can look perfectly healthy. Judge by whether it **follows a change**, not by whether it is lit.

TRY THIS FIRST

Work down the list. Each step is independent, so if one does not help, move to the next.

1. **Check the Ethernet path.** Confirm every fixture is cabled to the same switch and on the same subnet. **5 min**
2. **Power-cycle the affected fixtures.** Switch them off, wait a few seconds, switch them back on, then allow up to 60 seconds to settle. **2 min**
3. **Check every fixture is in the same group.** Connect to each one over WiFi and compare the group number. **5 min**
4. **Check there is only one Primary in the group.** Connect to the Primary and look at its messages. **5 min**

WHAT EXACTLY IS IT DOING?

- **Nothing at all.** Never reacts when the Primary changes. Usually the network path or the group.
- **Fixtures disagree.** Levels jump, or fixtures fight each other. Usually two Primaries.

Cause 1: The fixtures are not on the same network

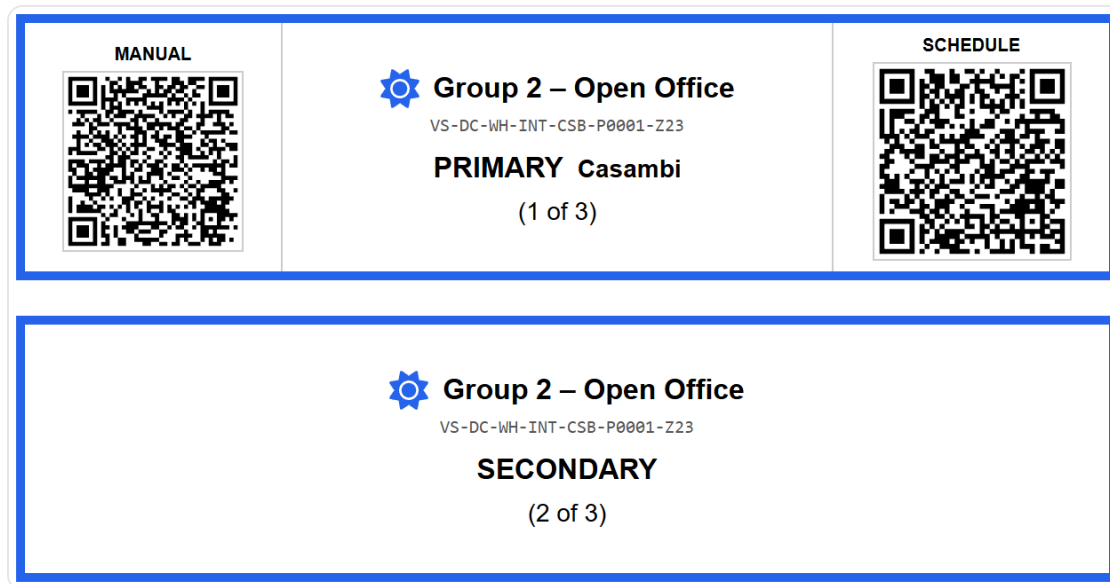
Virtual Sun fixtures synchronize over wired Ethernet. Check that every fixture in the group is cabled to the same switch or router, that the link lights are on at both ends, and that they share a subnet. Fixtures separated by VLANs, or on a network that blocks broadcast traffic between ports, cannot hear each other even though each one is online.

Fix: restore the shared network path, then power-cycle the affected fixture. It can be cycled at the same time as the Primary. Allow up to 60 seconds for the group to settle.

Cause 2: The fixtures are in different groups

A fixture only follows a Primary in the same group. One in the wrong group still appears in the peer list and still looks healthy, but it ignores every command the Primary sends.

Fixtures arrive pre-configured for your order, and every carton is marked with the group inside it and whether that fixture is the Primary or a Secondary. The marking is easy to miss, and easy to lose: it is on the box, not the fixture. Once a delivery has been unpacked and the fixtures are staged together, nothing on the fixture itself says which one was meant for which area.

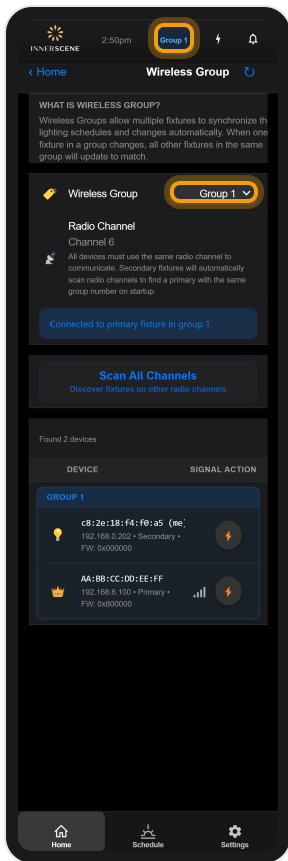


The Primary and one Secondary from the same group. The heading gives the group number and the area it was specified for, and the line below the role says which of the group's fixtures is in that box.

Record which fixture went where while you install. Note the group number against each location on your plan, or mark it on the fixture. The labels leave with the packaging, and rebuilding that map afterwards means connecting to fixtures one at a time.

Once the boxes have gone, the group a fixture is really in can only be read from the fixture.

1. Connect to the fixture, then open **Wireless Group** (tap the group badge at the top of the screen, or go to Settings, Device Info, Wireless Group).
2. Read the **Wireless Group** selector. Every fixture that should move together needs the same number.
3. Check the status line underneath. On a healthy Secondary it reads **Connected to primary fixture in group N**.
4. Repeat for every fixture in the group, including the Primary.



The group badge in the header (top) and the Wireless Group selector are outlined. Both show the same group; tapping the badge from any screen opens this page.

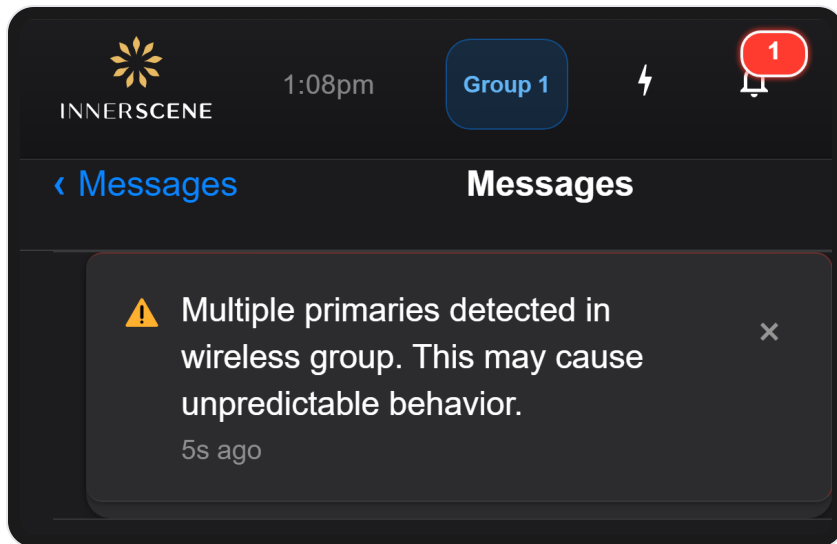
If the selector reads **Disable Sync**, the fixture is not in any group and will never follow a Primary. Changing the group requires a restart, and the interface will prompt for one.

Cause 3: There is more than one Primary in the group

Each group must contain exactly one Primary. With two, both broadcast and Secondaries apply whichever update arrived most recently, so the group appears to fight itself: levels jump, fixtures disagree, and changes are partly overwritten moments after they are made.

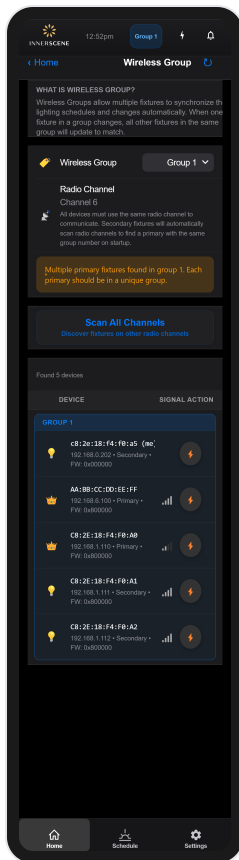
Check the Primary, not the Secondary. Only a Primary detects and reports this condition. A Secondary sitting in a group with two Primaries shows no warning at all.

Connect to the Primary and open [Messages](#). A duplicate Primary raises an error-level message, and the bell in the top bar carries a red badge.



The Messages screen on a Primary that has detected a second Primary in its group.

The [Wireless Group](#) screen flags the same condition, and marks every Primary in its peer list with a crown, so you can see how many are present and which group they are in.



Two crowned fixtures in Group 1, with the warning: each Primary should be in a unique group.

The usual cause is fixture role. When the role is set to **Auto**, any fixture fitted with a daughterboard (0-10V, DALI, DMX, or Casambi) becomes a Primary automatically, so two boarded fixtures in one group means two Primaries without anyone having configured it.

1. Decide which fixture should be the Primary. This should be the one your control wiring or control device is connected to.
2. Connect to the other Primary and open Settings, Advanced, [System Configuration](#).
3. Set **Fixture Role** to **Secondary** and confirm the restart prompt. This also disables that fixture's daughterboard, so make sure it is not the one receiving external control.
4. Alternatively, move it to a group of its own if it genuinely needs to run independently.

For a fuller explanation of the roles, see [Fixture Roles](#) and [Software Primary](#).

Cause 5: The control input is on a Secondary

Only the Primary broadcasts to the group. If the thing driving the light is attached to a Secondary, that one fixture changes on its own and nothing else follows. From the floor this looks exactly like every other fixture having stopped responding.

You cannot set this up by accident from the interface. A Secondary hides the schedule, control, and SkySync pairing settings entirely. If those settings are missing when you connect to a fixture, that is a reliable sign you are on a Secondary rather than the Primary.

It arises in two ways instead. The first is wiring: a 0-10V, DALI, DMX, or Casambi control line landed on a fixture that is a Secondary. Control wiring belongs on the Primary, which is the fixture carrying the daughterboard.

The second is a fixture that changed role after setup. A fixture that was the Primary when a SkySync sensor, switch, or motion sensor was paired to it keeps that pairing. If it later becomes a Secondary, because its role was forced, its daughterboard was removed or failed, or another Primary took over the group, the pairing is left stranded on the wrong fixture. The firmware detects this: connect to the fixture and open [Messages](#), and you will see `... is paired but this fixture is not a primary.`

To fix it, re-pair the control device to the group's current Primary, or move the control wiring to it. If the fixture became a Secondary unintentionally, correcting its role or reseating its daughterboard restores the original arrangement.

If it still does not respond

- **Test by making a change, not by reading the banner.** A fixture that has already found its Primary keeps reporting **Controlled by primary** even after that Primary goes offline, until it is restarted. Adjust the Primary and watch the fixture instead.
- **Compare firmware versions.** The peer list on the [Wireless Group](#) screen shows the firmware version of every fixture it can hear. Fixtures on very different versions may not communicate.

- **Check the fixture's own diagnosis.** The [No Primary Found](#) screen states what the fixture believes is wrong, and [Secondary, No Primary](#) and [Secondary, No Group](#) show how each condition appears on the home screen.
- **Confirm the fixture is powered.** An unpowered Secondary is indistinguishable from one ignoring the Primary, because an out-of-sync fixture may sit at a similar level by coincidence. Use the identify function to flash it.

If none of that resolves it, contact Innerscene support with the fixture MAC addresses, their group numbers, the radio channel, and the firmware versions shown in the peer list. That is enough for us to reproduce the group's configuration.