e:cue

TRAXON | e:cue
MEMBER OF PROSPERITY GROUP

AM477420038

e:cue LIGHTDRIVE+ WiFi

Configuration Guide

Read the Configuration Guide and the Safety Instructions carefully. Subject to modification without prior notice. Typographical and other errors do not justify any claim for damages. Modification of the product is prohibited.
This document is designed for system administrators and accomplished users of the product.
All product names and trademarks mentioned in this manual are trademarks of their respective owners.

Downloads and more information at:
www.ecue.com

Table of Contents

1   Safety instructions

Read the safety instructions, provided in a separate manual, carefully. Make sure that the environmental, mounting, and installation prerequisites are met. This manual should be kept at a safe place and in reach of the device.

1.1   Symbols

⚠️ The exclamation mark warns about possible damage of the device itself, to connected devices, and to the user.

ℹ️ The information symbol gives general hints and informs about handling and procedures for use of the device.

1.2   General instructions

⚠️ — The Ethernet port of the LIGHTDRIVE+ WiFi is not designed for inter-building connections. Use the LIGHTDRIVE+ WiFi only with intra-building networks.

ℹ️ — If safety instructions are missing, please contact Traxon e:cue to receive a new copy.

2   General remarks

2.1   Transport

Only transport the device in its original packaging. This protects the device from damage.

2.2   Unpacking

Only unpack the e:cue LIGHTDRIVE+ WiFi at its installation location. To protect the device against condensation water, unpack it and wait until all moisture remaining in the device has evaporated. Condensation can occur when the device is moved from a cold to a warm location. Keep the packaging for use in case of further transport. Inspect all parts for completeness regarding chapter „3.1 Delivery content" on page 05. If there is apparent damage to the device or parts are missing from the delivery scope, please contact the Traxon e:cue Support service.

2.3   Warranty regulations

Depending on the product, warranty regulations are of different duration. The warranty time is usually noted in the quote and in the order confirmation. See www.traxon-ecue.com/terms-and-conditions for details. Legal warranty regulations apply in any case.

2.4   Maintenance and Repair

This device requires no maintenance.

⚠️ — Before dismounting, appropriate measures must be taken to protect the respective components against damage caused by electrostatic discharge (ESD protection).

— Do not try to repair the device. Return it to your Traxon e:cue distributor for replacement or repair.

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2.5 Disposal

Batteries and technical appliances must not be disposed of with domestic waste, but should be handed in at the appropriate collection and disposal points.

The proper disposal of packing materials and of the device is the responsibility of the respective user and for his account; in all other matters, the retrieval obligation for packing materials and the device is subject to the statutory regulations.

2.6 Support

In case of technical problems or questions regarding installation and repair please contact:

Traxon Technologies Europe GmbH
Customer Service
Karl-Schurz-Str. 38
33100 Paderborn, Germany
+49 (5251) 54648-0
support@ecue.com

2.7 Further information

For further product information, such as the Onboarding Guide, check www.ecue.com.

3 General device description

The LIGHTDRIVE+ WiFi fuses dynamic lighting control with a sophisticated design. The wall-mounted user terminal is able to output various scenes and effects in different zones which are set-up via the LIGHTDRIVE+ app. No matter what kind of location you have in mind: bars and restaurants, shops and malls, museums, reception areas … For any purpose of any scale, be it small or mid-size, LIGHTDRIVE+ WiFi is the easy and straightforward solution for lighting control. The user terminal serves as a standalone DMX512 controller. The focal point of user interaction is the so called Jog Wheel. With this control knob, scenes, zones and effects, such as speed and brightness, can be adjusted in a blink of an eye. The user terminal itself shows a clear and minimalistic design with a high quality glass front panel. The LIGHTDRIVE+ WiFi is compatible with all monochrome, dynamic white, RGB and RGBW LED fixtures.

Main features:

- State-of-the-art user interface with elegant appearance
- Set-up via LIGHTDRIVE+ app
- For monochrome, dynamic white, RGB and RGBW LED fixtures
- Two DMX outputs, divided in 3 zones
- 8 scenes in each of the 3 predefined zones
- Pre-defined FX effects
- Integrated scheduler for time trigger
- Integrated proximity sensor
- 2 low-side switches and 2 dry inputs for integration into 3rd party systems.

3.1 Delivery content

Delivery content for the e:cue LIGHTDRIVE+ WiFi (AM477420038):

1. e:cue LIGHTDRIVE+ WiFi
2. Device plugs
3. Safety instructions
4. Welcome card

3.2 Optional accessories

- Power Supply 15W 12V DIN rail (AM3137600HA)

3.3 Product specifications

Dimensions (W x H x D)	80 x 160 x 30 mm / 3.15 x 6.30 x 1.18 inch
Weight	188 g / 0.41 lb
Power supply	PoE IEEE 802.3af, polarity-independent or 12 V DC SELV
Power consumption	typ. 4.5 W, max. 6 W (all LEDs 100 % white), on device plug
Operating temperature	0 ... 35 °C / 32 ... 95 °F
Storage temperature	0 ... 50 °C / 32 ... 122 °F
Op. / storage humidity	0 ... 80% RH, non-condensing
Protection class	IP20
Installation	Indoor installation only, Intra building connections only
Electrical safety class	SELV
Housing	PC/ABS, glass
Mounting	Wall mount housing, suitable for most international in-wall mounted boxes
Certificates	CE, ETL, FCC, UKCA
Real time clock	with capacitor backup, holds time for ~1 h

Interface specifications

User interfaces (UI)	12 x capacitive touch key 1 x jog wheel with switch
System interfaces	3 x DIP switch 1 x Ethernet 10/100 Mbit/s, on device plug, max. cable length: 65 m, for synchronization of multiple devices only 1 x USB 2.0 micro USB-B, for update only
DMX outputs	2 x DMX512, on device plug
Fixture types	Monochrome (1 channel) Dynamic White (2 channels) RGB (3 channels) RGBW (4 channels)
Low-side switches	2 x 24 V DC, max. 3 A, ON resistance 50 mΩ, normally open, galvanically isolated, overload protected, on device plug

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content

Digital dry contacts	2 x inputs, 5 V DC contact supply, on device plug, Input high threshold voltage: V_{IHmin} = 2.5 V Input low threshold voltage: V_{ILmax} = 1.2 V Typ. input threshold voltage: $V_{SW(typ)}$ = 1.5 V Input voltage max.: V_{INmax} = 15 V
Digital inputs supply	For dry contacts Use 5 V DC from device (pin 7) V_{SUP} = 5 V DC max. 15 mA Typ. current when sourcing all 2 ports: I_{typ} = 12 mA
Device plugs	Push-in spring connection plug, Stripping length: 6 mm Major diameter of isolated cable max. 2 mm Cable cross-section: solid: 0.14 ... 0.5 mm² flexible: 0.2 ... 0.5 mm²
WiFi	RF frequencies: 2.4 ... 2.473 GHz, IEEE 802.11 b/g/n
Sensors	Proximity sensors for UI activation

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4   Connectors and interfaces

LIGHTDRIVE+ WiFi controller

Base plate

4.1   User & USB interfaces

Front view:

Jog wheel with button + halo

8 Scene buttons + light stripes

3 Zone buttons + light stripes

Tone button + light stripe

USB interface

Dismounting slot
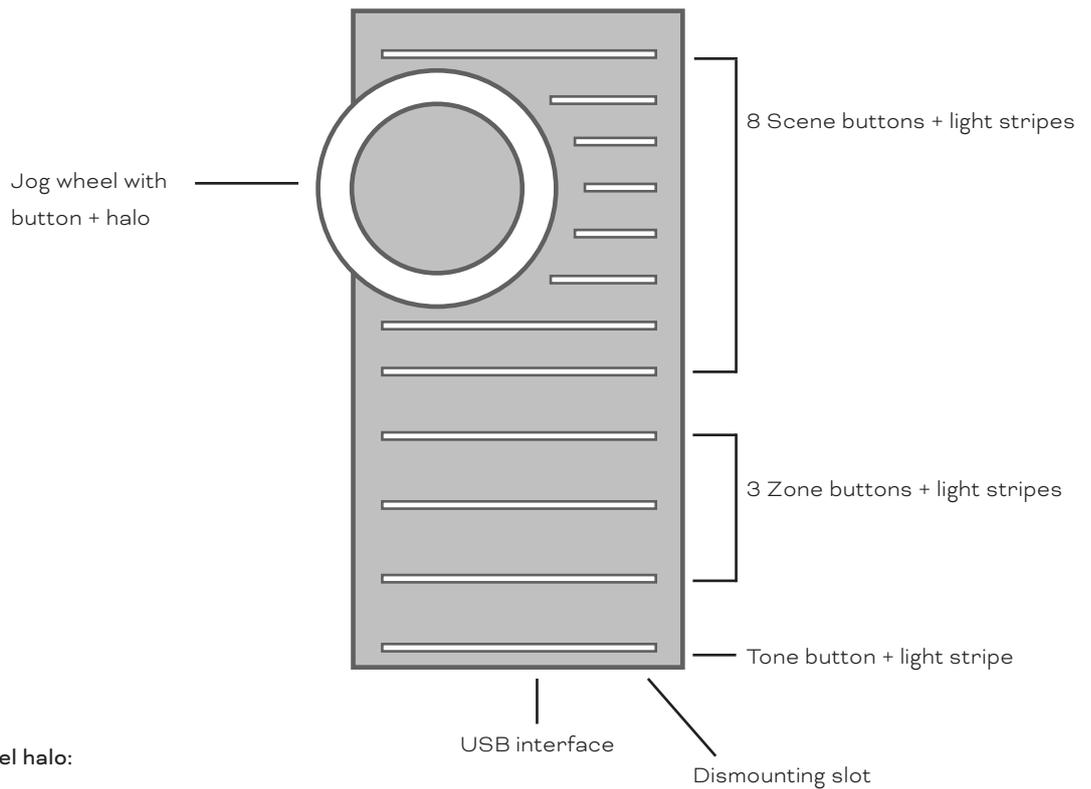
Jog wheel halo:

- displays the color and brightness of the running Scene.

- displays the current brightness or color adjustment (see „6.5 Adjusting running Scene content" on page 10).

Scene light stripes:

— display color and brightness of the Scenes' content.

Zone light stripes:

— display color and brightness of each running Scene.

— displays the current color adjustment (see „6.5 Adjusting running Scene content" on page 10).

Tone stripe:

— displays on restart the WLAN connection status until any button is pressed:
Green: connected to another WLAN.

Red: open access point, no connection to another WLAN.

— displays the current color or speed adjustment (see „6.5 Adjusting running Scene content" on page 10).

4.2 Connections

Rear view:
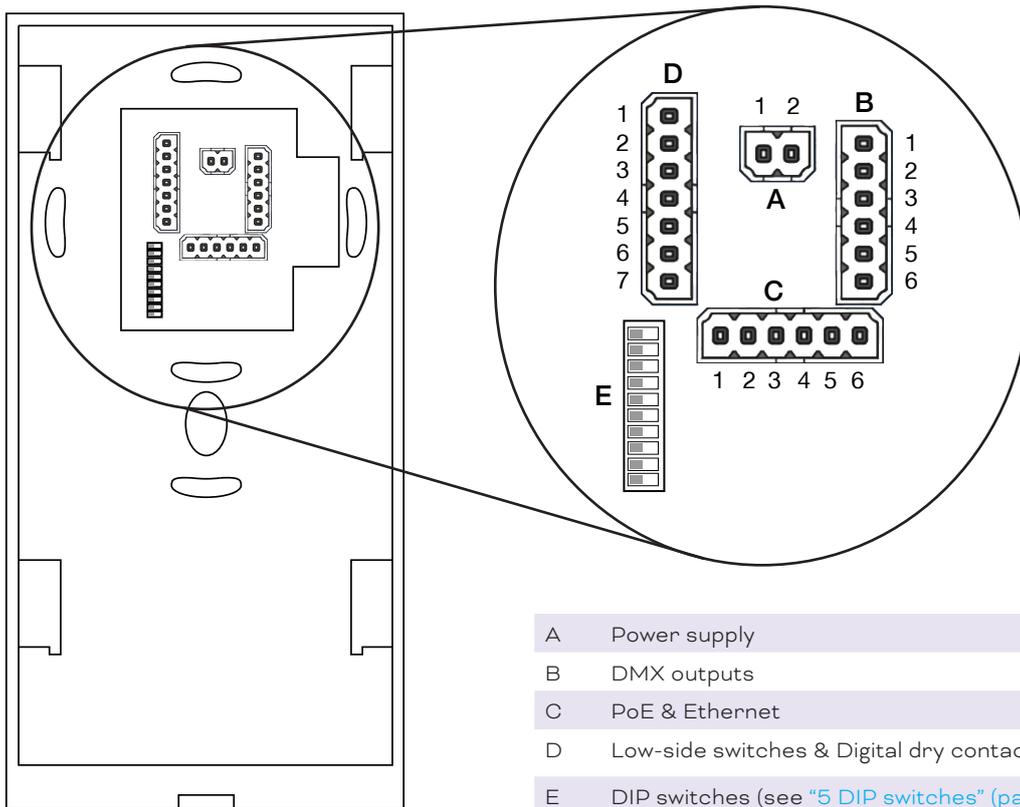
A	Power supply
B	DMX outputs
C	PoE & Ethernet
D	Low-side switches & Digital dry contacts
E	DIP switches (see "5 DIP switches" (page 08))

4.3 Installation

For installing and mounting the LIGHTDRIVE+ WiFi see its Installation Guide. Scan the QR code, open the Link to PDF or download at www.ecue.com.

5 DIP switches

The DIP switches define the configuration. The DIP switches are only read when the LIGHTDRIVE+ WiFi is powered up. After changing the switch settings, the LIGHTDRIVE+ WiFi must be restarted: Press 10 x Tone button and then 1 x Scene 1 button. Alternatively power down and up again the device.
(0 = OFF position, 1 = ON position)

E	DIP switches
1 ... 7	no function
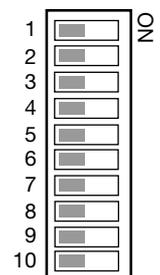
E	DIP switches
8	Enable/ Disable Tone button (see „6.5 Adjusting running Scene content" on page 10)
	0 = Tone button disabled
	1 = Tone button enabled
9	Control all Zones via Zone A (see „5.1 Control all Zones via Zone A" on page 09)
	0 = disabled
	1 = enabled
10	Overwrite Scenes (see „6.6 Saving Scenes" on page 11)
	0 = Scenes can not be overwritten using the user interface
	1 = Scenes can be overwritten using the user interface ("Saving scenes")

5.1   Control all Zones via Zone A

Is DIP switch 9 enabled, you can control the Scene selection (including brightness levels) of all Zones at once via Zone A with the following characteristics:

— Is Zone A selected, Scene control in this Zone is also valid for B and C. Example: Select for Zone A the Scene 2 → Zone B and Zone C will also each play their Scenes 2. Low-side switch settings are only used as defined for Zone A, low-side switch settings for Zones B and C are ignored.

— Are Zone B or C selected, all control works as defined, including low-side switch settings. You have separate control for the current Zone.

6   Standard use

ℹ️ Any Scene content related use requires that content has been configured via the LIGHTDRIVE+ app.

The LIGHTDRIVE+ WiFi controls up to two DMX universes. This address range is split into three Zones. To any Zone a Scene can be assigned, a Scene can be a constant color or an effect and a brightness level. To select Zones and assign Scenes, touch-sensitive button are used. To change the brightness turn the jog wheel. To switch the LIGHTDRIVE+ WiFi on and off, press the jog wheel. The color in the current selected Zone is also used to illuminate the jog wheel while it is not in Idle or Off mode.

When the LIGHTDRIVE+ WiFi is not used, its light stripes are dimmed down after 30 seconds (default value of Idle mode; time can be changed via LIGHTDRIVE+ app). It returns to the active state when the jog wheel is turned or any button is touched. The integrated proximity sensor also reactivates the device back of Idle mode, when the user approaches the LIGHTDRIVE+ WiFi. Reactivation does not change the selected Zone or Scene. After switching off the device and switching it on again, the LIGHTDRIVE+ WiFi restores the same state as selected before.
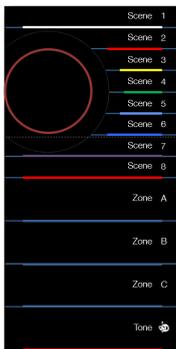
6.1   Jog wheel

Use the jog wheel to switch the LIGHTDRIVE+ WiFi on and off. Switching is done by pressing the jog wheel. In standard mode, the jog wheel controls the brightness (🔃 higher, 🔃 lower). The jog wheel also shows the current color of the fixtures.

If the LIGHTDRIVE+ WiFi is in OFF Mode, you can change the appearance of the jog wheel illumination (pulsative or static) by turning the jog wheel or via LIGHTDRIVE+ app settings.

6.2   Zones

Select a Zone with of the three Zone buttons. The Zone number at the right lights up and, when enabled, a signal sound indicates the Zone selection. The LIGHTDRIVE+ WiFi controls three Zones:

— Zone A: DMX 1, addresses 1 … 512

— Zone B: DMX 2, addresses 1 … 256 (default)

— Zone C: DMX 2, addresses 257 (default) … 512

Example:
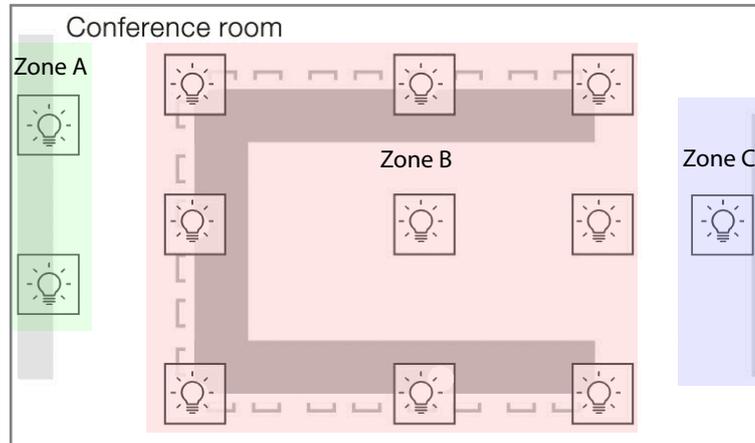
The LIGHTDRIVE+ app can change the DMX address ranges of Zone B/C (see „Start Address Zone C:" on page 17).

6.3   Scenes

Select a Scene for the current Zone by touching one of the eight Scene buttons. The Scene number on the right lights up and, when enabled, a signal sound indicates the selection of a Scene.

6.4   Turning off/on Zones

Turn off a Zone by pressing the Zone button for 5 seconds (long press). To turn on again the Zone, press any Scene button with the Zone selected.

6.5   Adjusting running Scene content

> **i** Use of the Tone button requires that the DIP switch 8 on the
> back is set to the "ON" position.

Adjust brightness:
Turn the jog wheel to change the brightness of the running scene. To save the adjustment save the Scene (see "6.6 Saving Scenes" (page 11)). To exit without saving changes, press any other Scene or the same Scene.

Adjust color:
Touch the Tone button (short press) to be able to change the current Scene color. The Tone LED blinks and, when enabled, a short signal sound is played. Select a color with the jog wheel. The jog wheel, the current Zone LED and the Tone stripe reflect the selected color. To save the adjustment save the Scene (see "6.6 Saving Scenes" (page 11)). Short press the Tone button again to switch to brightness adjustment. To exit the Color mode without saving changes, touch the Tone button again.

Adjust speed:
Press the Tone button for five seconds (long press) to be able to change the speed of the current Scene's effect. The Tone LED and Tone light stripe are blinking and when enabled, a short signal sound is played. Select the speed of the current effect with the jog wheel. The Tone stripe blinks with the selected speed of the effect. If the speed is zero, the Tone stripe is constantly alight. To save the adjustment save the Scene

(see "6.6 Saving Scenes" (page 11)). Short press the Tone button to alternate to brightness and color adjustment. To exit the Speed mode without saving changes, touch the Tone button again.

If there is no action within the Activation Time (see „Idle Mode" on page 22), the LIGHTDRIVE+ WiFi switches to Idle mode without saving changes.

6.6   Saving Scenes

ℹ️ Saving Scenes requires that the DIP switch 10 on the back is set to the "ON" position.

To save an adjusted Scene, long press any Scene button of five seconds. When enabled, a signal sound affirms the saving of the Scene. The new settings are also visible in the app after uploading the data from the device (= reselection of page).

6.7   Locking / Unlocking the LIGHTDRIVE+ WiFi

ℹ️ Use of the Tone button requires that the DIP switch 8 on the back is set to the "ON" position.

The LIGHTDRIVE+ WiFi can be locked via the front buttons.

1.   Touch the Tone (1) button and keep it touched.

2.   Now touch the Scene 8 button (2), keep both touched together for at least five seconds.

3.   The jog wheel blinks in white for five seconds. During this time, press the jog wheel (3) to lock the LIGHTDRIVE+ WiFi.

4.   If you do not press the jog wheel, the LIGHTDRIVE+ WiFi will return to normal operation.
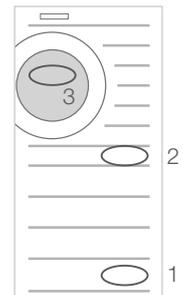
The LIGHTDRIVE+ WiFi is now locked. Signals over the digital inputs like Scene selection are still accepted.

To unlock the LIGHTDRIVE+ WiFi,

—   repeat the steps above,

—   or turn the device off and on again.

—   The locking will also be disabled when the state of the digital inputs changes.

6.8   Synchronizing devices

The LIGHTDRIVE+ WiFi supports three Parent and Child modes to synchronize several LIGHTDRIVE+ WiFi devices. To use synchronization the devices must be connected via Ethernet (utilizing the Ethernet connections at port C, see "4.2 Connections" (page 08)).

—   Set a LIGHTDRIVE+ WiFi to the **Grandparent mode** if the device is supposed to control other Parent devices including their Child devices.

—   Set a LIGHTDRIVE+ WiFi to the **Parent mode** if the device is supposed to control several Child devices.

—   Set a LIGHTDRIVE+ WiFi to the **Child mode** if you would like the device to react on button presses of a Parent with the same Class ID.

The setup of synchronization modes is done via the LIGHTDRIVE+ app, see „7.3.3 "Network"" on page 14.

7   Configuration via App

To configure the LIGHTDRIVE+ WiFi and to use its digital inputs and solid-state low-side switches you need to use the LIGHTDRIVE+ app. The LIGHTDRIVE+ WiFi provides an access point so you can configure the device, e.g. connect it to another WLAN, using the LIGHTDRIVE+ app.

The settings allow:

— Free definition of start and end values for DMX channels in the Zones B and C (see „7.3.4 "DMX Fixtures"" on page 16).

— Assignment of digital inputs and low-side switch outputs (see „7.3.8 "I/O (Relays and Inputs)"" on page 20).

— Dimming unused light stripes: only the light stripe for the current active Scene is at full intensity, all unused stripes are dimmed (see „7.3.9 "LightDrive+ Light Stripes"" on page 21).

For the configuration of the LIGHTDRIVE+ WiFi, the installation of the power supply must be completed. You also need a tablet with the installed LIGHTDRIVE+ app.

Prerequisite: Android ≥ 6 or iPadOS ≥ 11.0

7.1   Onboarding

For the configuration via app the device provides an integrated, DHCP server including access point. The access point is kept open for 20 min after powering up. When adding the device into a network, the access point gets closed after the successful transfer.

On how to access the LIGHTDRIVE+ WiFi via the app and on how connect the LIGHTDRIVE+ WiFi to a WLAN, see the LIGHTDRIVE+ WiFi Onboarding Guide. Scan the QR code, open the Link to PDF or download at www.ecue.com.

Default password of the access point: **ecue0123**

Connected to another WLAN: **green** Tone light stripe.
No connection to another WLAN: **red** Tone light stripe.

Initial WLAN configuration:
Enter manually the network name (SSID) at WLAN name and the password (Key) of the router. Tap the *OK* button to apply the settings.
After the LIGHTDRIVE+ WiFi is connected to another WLAN, the app operating tablet will lose the connection to the LIGHTDRIVE+ WiFi. The LIGHTDRIVE+ WiFi closes its access point. To reconnect to the LIGHTDRIVE+ WiFi, connect the tablet on which the app is running to the new WLAN.

Reconnection to configured WLAN:
After powering up the LIGHTDRIVE+ WiFi starts a 10sec search for the previously configured network. If not found it 5 x beeps and the access point opens: the network of the LIGHTDRIVE+ WiFi ("Lightdrive-AP XXX") is available.
If the previously configured network becomes available afterwards, the LIGHTDRIVE+ WiFi does not reconnect automatically. To reconnect to the belated available network, you need to restart the device (see

7.2 Sequence of configuration

For the initial configuration and set-up of the LIGHTDRIVE+ WiFi, the following sequence is recommended:

1. Connect - connect the tablet to the LIGHTDRIVE+ WiFi device.

2. Network - optional; configure the network settings.

3. DMX Fixtures - configure the DMX addressing.

4. Scenes - configure the content.

5. LightDrive+ Settings - configure name and system time.

6. Scheduler - configure time triggers for the content.

7. I/O (Relays and Inputs) - configure actions for relay (low-side switch) and digital input changes.

8. LightDrive+ Light Stripes - configure the behavior of the device.

7.3 LIGHTDRIVE+ app: Operation and functions

The description of the functions follows the recommended sequence of confguratoin.

ℹ Where a *Save* or *OK* button is present and not used, any changes will be discarded when exiting the page. When saving, the values are transferred to device.

➕ and ⊕ icon: add an entry

🗑 icon: delete entry

✏ icon: edit entry

7.3.1 Menu

To navigate through the app and open the menu, tap the ☰ icon in the upper left corner. The menu expands on the left side of the display.
At the top, under **Connected to** you can see the LIGHTDRIVE+ device to which the app is currently to (= selected device in *Connect* page.).
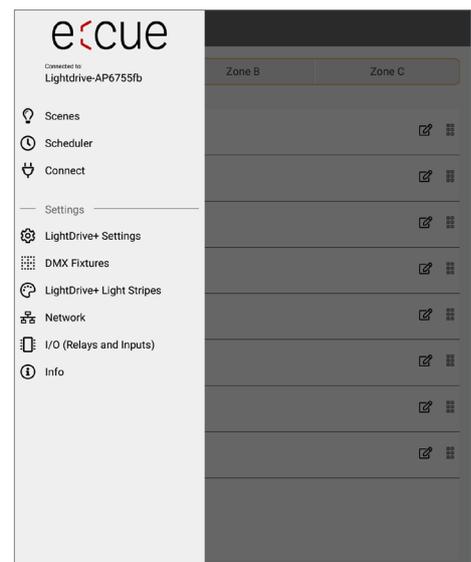
7.3.2 "Connect"
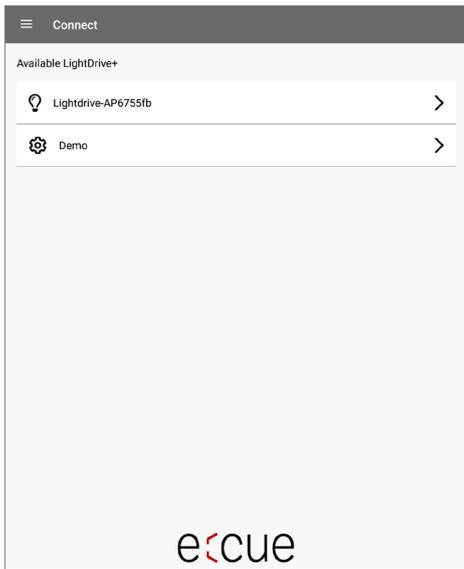
Select a LIGHTDRIVE+ WiFi device within the network to connect the app to. Alternatively, select *Demo* to use the app on its own and without configuring a device. Note that it is not possible to upload the Demo configuration onto a device.

7.3.3 "Network"
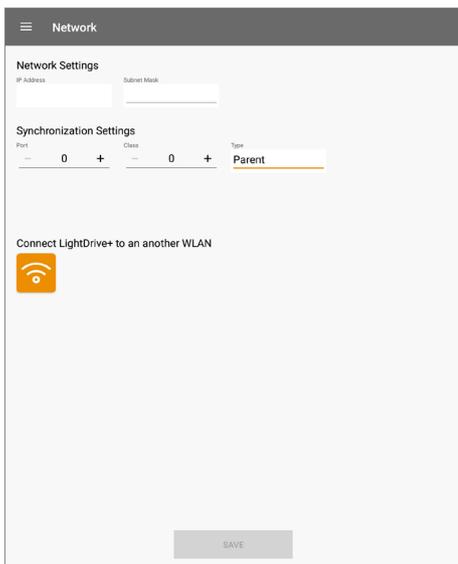
You can set up an interacting, Ethernet based static network of LIGHTDRIVE+ devices with synchronizing functions (see „6.8 Synchronizing devices" on page 11): use **Network Settings** and **Synchronization Settings**. Tap the *Save* button to apply the settings.
You can integrate the LIGHTDRIVE+ WiFi into a WLAN: use **Connect LightDrive+ to another WLAN**. Tap the WLAN button to configure the WLAN settings.

Network Settings

When using the LIGHTDRIVE+ WiFi in a static Ethernet network for synchronizing multiple LIGHTDRIVE+ WiFi devices, configure the network settings of the LIGHTDRIVE+ WiFi.

> **i** Ethernet connection with 2 x Tx and 2 x Rx at port C (see "4.2 Connections" (page 08)) necessary.

IP Address:

Unique IP address; must be coordinated with the rest of the Ethernet network settings.

Subnet Mask:

Network Settings

IP Address   Subnet Mask

Must be coordinated with the rest of the Ethernet network settings.

Synchronization Settings

For multiple LIGHTDRIVE+ WiFi devices, define groups and therein the hierarchy of the devices among each other for synchronizing the controlling commands.

> ℹ️   Only devices with the same **Port** number AND **Class** ID are linked to each other.

Port:

Synchronization Settings

Port   Class   Type
− 0 +   − 0 +   Parent

The port to which the device listens. Must be identical between interacting devices. Minimum value = 1. Disabled = 0.

Class:

Synchronization Settings

Port   Class   Type
− 0 +   − 0 +   Parent

The synchronizing group to which the device belongs. Must be identical between interacting devices. Minimum value = 1. Disabled = 0.

Type:

Synchronization Settings

Port   Class   Type
− 0 +   − 0 +   Parent

The role of the device in the hierarchy.

 Standalone: The device does not interact with other LIGHTDRIVE+ WiFi devices.

 Child: All actions of the device are defined by and identical to its (Grand-)Parent (of the same Port number and Class ID).

 Parent: The device controls the Child devices (of the same Port number and Class ID) and is controlled by its Grandparent (of the same Port number and Class ID).

 Grandparent: The device controls all Parent and Child devices (of the same Port number and Class ID).

Connect LightDrive+ to another WLAN

Connect LightDrive+ to an another WLAN

To integrate the LIGHTDRIVE+ WiFi into another WLAN, this network must provide a DHCP server. Because the LIGHTDRIVE+ WiFi remembers the WLAN configuration, the following two scenarios are to be considered: **Initial WLAN configuration** and **Reconnection to configured WLAN**. See .

7.3.4 "DMX Fixtures"
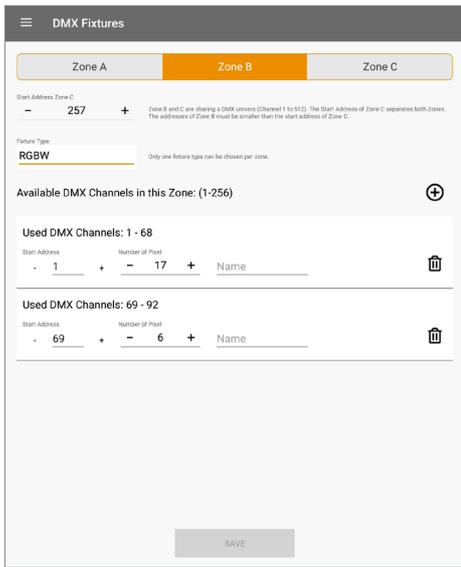
The LIGHTDRIVE+ WiFi can control two DMX512 universes, divided into three fixtures groups, the so called Zones. Each Zone is assigned to one fixture type; it is not possible to mix fixture type within a Zone.

Zone A controls the first DMX universe (DMX1). Zone B and C share the second DMX universe (DMX2). The Start Address of Zone C separates both Zones. Zone C is located behind Zone B: the addresses of Zone B must be smaller than the Start Address of Zone C. Zone B consists of the channels 1 … "Start Address Zone C", while Zone C consists of the channels "Start Address Zone C" … 512.

Configure the fixture type and DMX channels for each of the three Zones.

Tap the _**Save**_ button to apply the settings.

Fixture type:
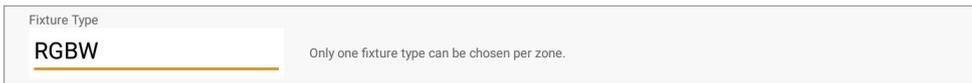
Select one type:
> _RGB (3 DMX channels)_
> _RGBW (4 DMX channels)_
> _Tunable White 2 DMX channels_
> _Tunable White 3 DMX channels_
> _Monochrome (1 DMX channel)_

Add fixture entries to a Zone. Using multiple entries you can integrate scattered fixtures that are not lined up together into the Zone. The fixtures use as many channels as defined by the selected **Fixture type**, e.g. one RGB pixel automatically takes 3 channels. Configure for each entry the following properties:

Start Address:
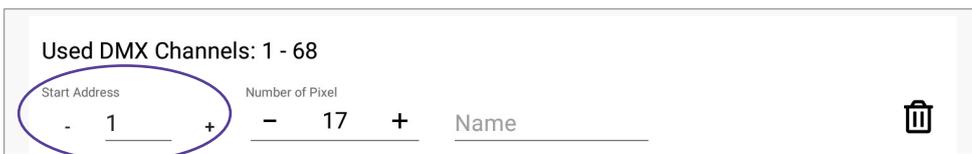
Set the start address of the first DMX pixel.

Number of Pixel:
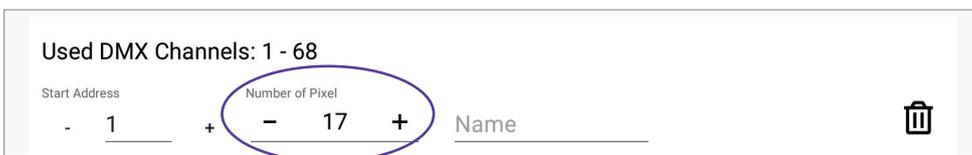
Set the number of DMX pixels (fixtures) you want to address in a row. The app automatically sums up the used amount of channels (**Used DMX Channels**).

Name:

Used DMX Channels: 1 - 68

Start Address   Number of Pixel
-    1   +   –   17   +   Name

You can define a name for the entry to distinguish the addressed fixtures.

For Zone B and C:

Start Address Zone C:

Start Address Zone C
–   257   +   Zone B and C are sharing a DMX univers (Channel 1 to 512). The Start Address of Zone C separates both Zones. The addresses of Zone B must be smaller than the start address of Zone C.

Set the start address of the first DMX pixel for Zone C. This address is the separator of the second DMX universe into Zone B and Zone C. Set the start address either in the tab for Zone B or for Zone C; the other tab mirrors the start address.

7.3.5 "Scenes"

Configure Scenes of the LIGHTDRIVE+ WiFi. Tap the _**Save**_ button to apply the settings. Static color Scenes are saved on selection.

> **i** Configure the DMX Fixtures types before setting Scenes. When the type of DMX Fixtures gets changed, any existing Scene loses its selected color and gets reset to the default color value.

🟠 icon: tap on it to open the color picker. At the bottom it includes a slider for the brightness and for RGBW fixtures a slider for the white channel.

⠿ icon: move the entry to another position = change of scene number.

Add content to a Scene by editing its entry. Select a type of Scene:

  **Static color**: Edit the color and the brightness by tapping on the color preview circle or the slider.
  **Color sequence**: Add color entries as needed and edit each entry's settings.
  **Effect**: Choose between the Effect types _**Sparkle**_ and _**Chaser**_. Edit its color and its settings.

To change the type of an existing Scene, you have to delete the content and add new content.

> **i** When using the brightness fader in the Scenes overview, wait a short moment and, if enabled, for the affirming accoustic signal before your next action. Otherwise the brightness value might not be saved.

7.3.6 "LightDrive+ Settings"
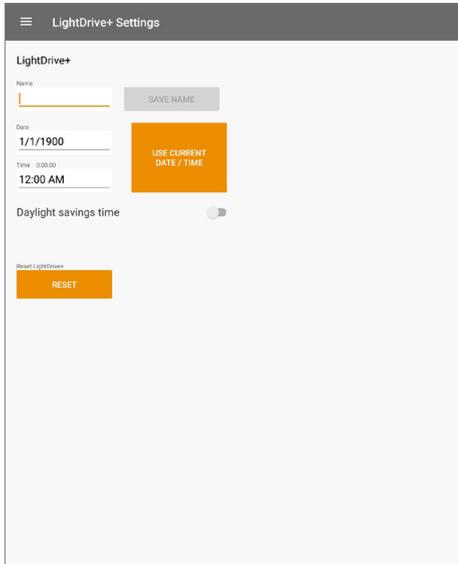
Configure the general settings of the LIGHTDRIVE+ WiFi.

Name:

Change the name of the LIGHTDRIVE+ WiFi device. The name is display at the available devices under _Connect_, as the **Connected to** device and when its access point is open as an available network.

Date and Time:

Relevant when using the **Scheduler**. Set the date and time of the LIGHTDRIVE+ WiFi device. Or select _Use current Date/ Time_ to apply the tablet's settings.

Daylight savings time:

Enable to consider the change of summer time / winter time according to a specific time zone.

You can select an entry from the drop-down list or use the tablet's time zone with _My Time Zone_. Tap the _Save Time Zone_ button to apply the setting.

Reset:

All settings except the network settings are reset to factory default. The device restarts and the tablet keeps its connection to the LIGHTDRIVE+ WiFi device.

7.3.7   "Scheduler"
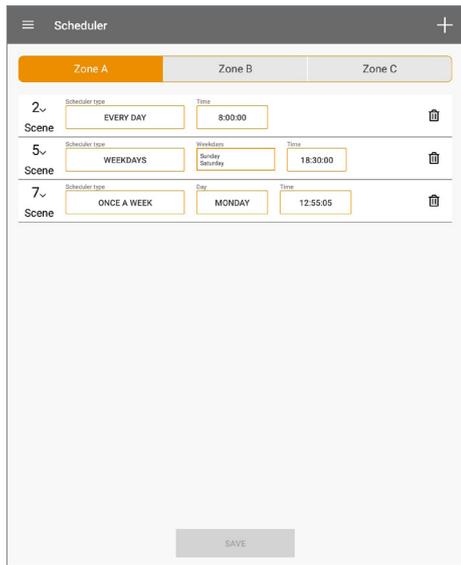
To trigger Scenes at defined times, use the Scheduler page. Or turn off a Zone at a defined time. Tap the _Save_ button to apply the settings.

Add a trigger entry to a Zone. For each entry configure the following properties:

Scene:
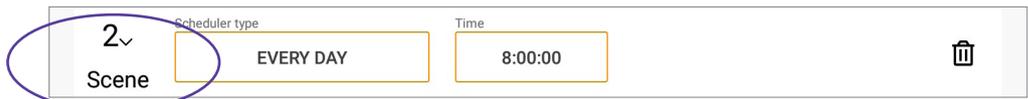
Select the affected Scene. Or select _Zone off_ to turn the Zone off when triggered:
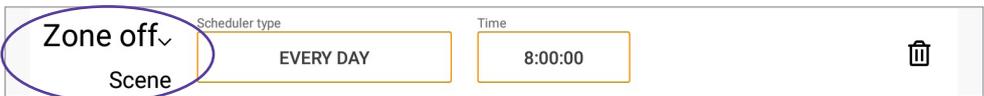
Scheduler type:

Select the occurrence of the trigger:

> _One time_
> _Every day_
> _Once a week_
> _Weekdays_

Date:

Set the date of the _One time_ trigger.

Time:

| 2⌄ Scene | Scheduler type EVERY DAY | Time 8:00:00 | 🗑 |

Set the time of the trigger.

Day:

| 7⌄ Scene | Scheduler type ONCE A WEEK | Day MONDAY | Time 12:55:05 | 🗑 |

Select the day of the week for the **_Once a week_** trigger.

Weekdays:

| 5⌄ Scene | Scheduler type WEEKDAYS | Weekdays Sunday Saturday | Time 18:30:00 | 🗑 |

Select multiple days a week for the **_Weekdays_** trigger.

7.3.8 "I/O (Relays and Inputs)"

Configure the actions for the relays (low-side switches) and on digital input changes. Tap the **_Save_** button to apply the settings.

Relay Settings

For both relays (low-side switches), you can define relay actions depending on the general device status and on each Zone specific Scene selection.

General: you can set the relays depending on the Off-mode and Idle-mode.

Zone A, B and C: you can set the relays depending on Scene selection.

Examples:

— At Zone A for Scene 1, relay 1 is set to *Open (off)* and relay 2 to *No action*:

→ When Zone A, Scene 1 is called/ activated, relay 1 opens (= switches off). Relay 2 remains unchanged.

— At General for Idle mode, relay 1 is set to *Close (on)*:

→ When the device changes into Idle mode, relay 1 closes (= switches on).

Input Settings

For both digital inputs individually, you can select the reaction of the LIGHTDRIVE+ on closing the input.

No action: No action on closing the input.

Play Scene: Select for each Zone a scene to be played on closing the input - or not action.
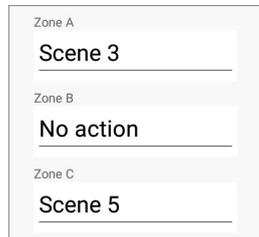
LightDrive+ On/Off: Toggles the device between Off and On mode. Input closed: device on. Input open: device off.

7.3.9 "LightDrive+ Light Stripes"
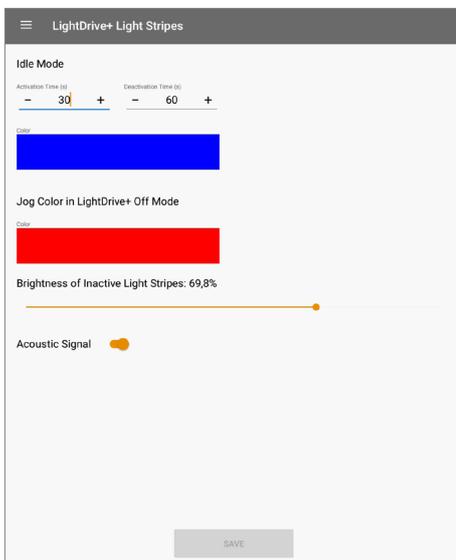
Configure the Idle mode and the Off mode of the LIGHTDRIVE+ WiFi. Define the color of the light stripes and the duration which has to pass before the Idle mode is activated . The Idle and the Off mode do not interfere with an open access point. Configuration changes via app are still adopted. Tap the *Save* button to apply the settings.

The Idle mode reduces the display activity of the LIGHTDRIVE+ WiFi device first to single-color and then to off while all output and the IO functionality remain in operation. The device enters the (single-color) Idle mode when the activation time has successfully elapsed. The device enters the Idle mode with the light stripes switched off when the deactivation time has successfully elapsed. To exit the Idle mode, approach the device.

In Off mode all DMX output and all light stripes of the device are turned off. The device enters the Off mode by pressing the jog wheel or by digital potential-free contact setting. You can exit the Off mode and turn on the DMX output and the light stripes either by pressing the jog wheel or by a closed input via the Input setting "LightDrive+ On/Off".

Idle Mode

Activation Time:

Activation Time (s)	Deactivation Time (s)
− 30 +	− 60 +

Set the time in seconds after which the device changes all its light stripes and jog wheel LED to the defined **Color** if no interaction or proximity has been registered. As soon as the proximity sensor registers a movement, the device returns to normal mode. Set to 0 to deactivate Idle mode.

Deactivation Time:

Activation Time (s)	Deactivation Time (s)
− 30 +	− 60 +

Set the time in seconds after which the device turns off all light stripes and its jog wheel LED. The device remains in Idle mode: as soon as the proximity sensor registers a movement, the device returns to normal mode. Set to 0 to deactivate Off mode.

Color:

Color

Define the color and brightness of the light stripes when the device is in Idle-mode. All light stripes have the same color and brightness.

Jog Color in LightDrive+ Off Mode

Color:

Jog Color in LightDrive+ Off Mode

Color

Define the color and brightness of the jog wheel when the device is in Off mode. The light stripes are turned off.

Brightness of Inactive Light Stripes:

Brightness of Inactive Light Stripes: 69,8%

Set the brightness of all light stripes that are not currently selected/ not active.

Acoustic Signal:

Acoustic Signal
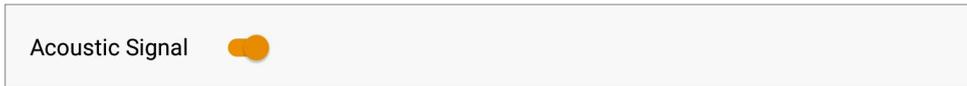
Toggle between Off (left position) and On (right position) to disable / enable affirming beep sounds for interactions with the device.

7.3.10 "Info"
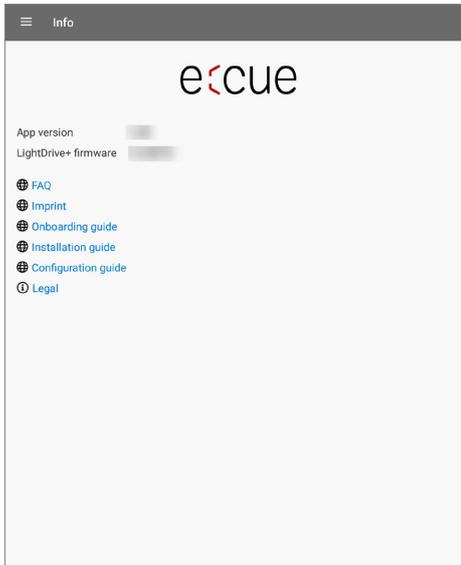
General information about the device are displayed here.

App version:

LIGHTDRIVE+ app version.

LightDrive+ firmware:

Firmware version of connected LIGHTDRIVE+ WiFi.

FAQ:

Opens the FAQs in the web browser.

Imprint:

Opens the information about the manufacturer of the LIGHTDRIVE+ WiFi in the web browser.

Onboarding guide:

Opens the Onboarding Guide for the LIGHTDRIVE+ WiFi in the web browser.

Installation guide:

Opens the Installation Guide for the LIGHTDRIVE+ WiFi in the web browser.

Configuration guide:

Opens the Configuration Guide for the LIGHTDRIVE+ WiFi in the web browser.

Legal:

Opens the EULA, the privacy policy statement and the 3rd party components for the LIGHTDRIVE+ app.

8 Firmware Update

In case a new firmware version is available for the LIGHTDRIVE+ WiFi:

1. Download the firmware from e:cue's website from the download section.

2. Save the firmware file on a local drive of your system.

3. Connect the LIGHTDRIVE+ WiFi to your system using a standard microUSB cable. The LIGHTDRIVE+ WiFi can be powered over the USB interface, as long as the system is able to provide up to 500 mA of supply current. The LIGHTDRIVE+ WiFi is now visible in the File Explorer.
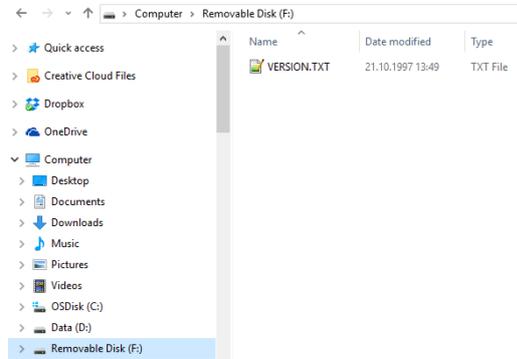
The file VERSION.TXT on the LIGHTDRIVE+ WiFi has information about the firmware and the MAC address. Do not delete this file.

4. Drag-and-drop the new firmware file from your local system to the drive representing the LIGHTDRIVE+ WiFi. The LIGHTDRIVE+ WiFi checks if the firmware is newer than the installed one and replaces the current firmware by the new version.

5. After the new firmware has been installed, signaled by a beep, the LIGHTDRIVE+ WiFi deletes the firmware file from its internal drive and restarts running with the new version. The update is now complete. Disconnect the microUSB cable.

9   Restart and Reset

> ℹ️ The restarts and resets work regardless of the DIP switch position for the Tone button (DIP switch 8) on the back.

The LIGHTDRIVE+ WiFi can be restarted and reset via the buttons at the front panel. For the default values, see . The following different restart and reset options are available:

Target	Description	Operation
Restart	Restarts the LIGHTDRIVE+ WiFi. The restart is completed after 5 x blinking. If a WLAN network has been configured, the device tries to reconnect. If the reconnection fails, the device remains unconnected (access point is closed). If a WiFi network has not been configured, the access point opens. Example of use case: To reconnect to a belated available previously configured WLAN.	— 10 x *Tone* button — 1 x *Scene 1* button

Target	Description	Operation
Restart with prolonged open access point	Restarts the LIGHTDRIVE+ WiFi. The internal access point is reopened and is kept open for 20 min. The connection to the previously configured router is disconnected. The restart is completed when the light stripes are back up. After the 20 min, if no connection to a WLAN is configured in the mean time, the access point closes and the device is neither connected to a network nor reachable per app. Example of use case: To configure the device via app when the configured WLAN is offline.	— 10 x **_Tone_** button — 1 x **_Zone A_** button
Reset of network settings	The WiFi credentials, the IP address and the subnet mask are deleted (not the Synchronization Settings), reset to default values and the access point is reopened. Scene 8 LED blinks 3x. Example of use case: To change the WLAN without losing the rest of the configuration, e.g. when pre-configured.	— 10 x **_Tone_** button — 1 x **_Scene 8_** button
Reset of customer settings	All app settings except the WiFi settings are deleted and reset to default values. Zone B LED blinks 3x. Example of use case: To discard the configuration (Scenes, fixture types, etc.) while keeping the WLAN connection.	— 10 x **_Tone_** button — 1 x **_Zone B_** button
Reset to factory defaults	All app settings and the current settings (e.g. current scene, brightness, etc) are deleted and reset to default values. The internal access point is reopened and is kept open for 20 min. Zone C LED blinks 3x. Example of use case: To discard all settings for change of project.	— 10 x **_Tone_** button — 1 x **_Zone C_** button

9.1   Default values

App page	Property	Default value
Scenes		no entry
Scheduler		no entry
LightDrive+ Settings	Name	no entry
	Date	01.01.1900
	Time	00:00
	Daylight savings time	off
DMX Fixtures	Fixture type	RGB (all Zones)
	Start address Zone C	257
		no used DMX channels
LightDrive+ Light Stripes	Activation time	30 s
	Deactivation time	60 s
	Color	blue
	Jog Color in Off Mode	Color: red
	Brightness of inactive light stripes	0%
	Acoustic signal	on

App page	Property	Default value
Network	IP address	no entry
	Subnet mask	no entry
	Port	1
	Class	0
	Type	standalone
I/O (Relays and Inputs)		all relays open (off)
	Input settings	no action (both inputs)

10   Certifications

CE   UK CA

ETL LISTED Intertek 4000842   Conforms to ANSI/UL Std. 62368-1
Certified to CSA Std. C22.2 NO. 62368-1

FC This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.

—Increase the separation between the equipment and receiver.

—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

—Consult the dealer or an experienced radio/TV technician for help.

↑ content

11   Dimensions

All dimensions in mm
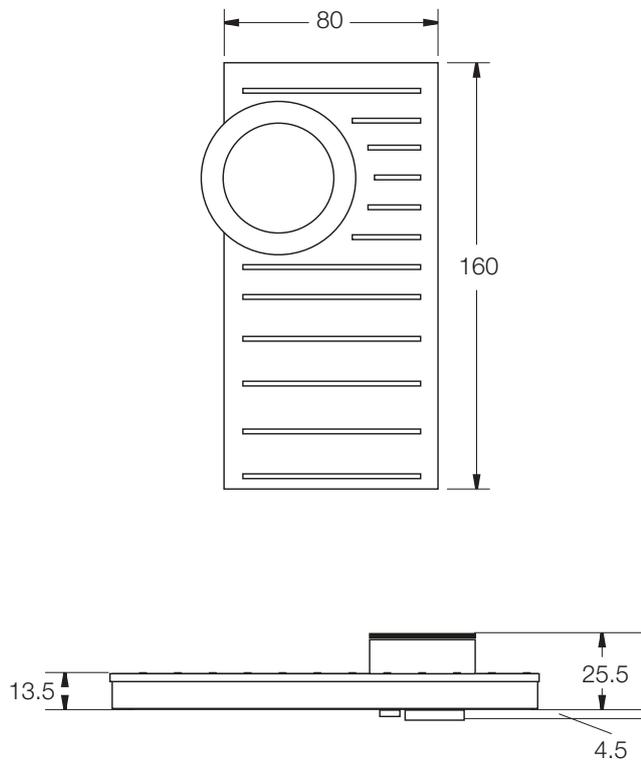
12   All links

Installation Guide:

Link to PDF

Onboarding Guide:

Link to PDF

App for Android:

App for iPad:

13   Trouble shooting

No function of the device.

Check the power supply and that 12 V DC are available. Check the polarity of the power supply.

Device works, but the connected fixtures do not react.

Check correct polarity of the DMX connection. Check the correct assignment of the DMX Zones with the LIGHTDRIVE+ app.

WLAN of LIGHTDRIVE+ WiFi not visible in tablet's available networks.

Make sure the Access Point of the LIGHTDRIVE+ WiFi is open. Check that the tablet has enabled WLAN. Make sure to be within coverage of the Access Point.

Changed Scenes can not be saved.

Check if overwriting Scenes is allowed with the DIP switch 10 on the backside.

The Tone button does not work.

Check if using the Tone button is allowed with the DIP switch 8 on the backside.

LIGHTDRIVEs do not synchronize.

With the LIGHTDRIVE+ app, check that the LIGHTDRIVE+ WiFi devices have each a valid and unique IP address, use the same port and the same group ID. Only one LIGHTDRIVE+ WiFi can be Grandparent.

No reliable selection of Scenes or Zones.

Take care that only one button area is touched at one time.

14   FAQ

Is it possible to use more than one LIGHTDRIVE+ WiFi?

Yes. You can integrate multiple LIGHTDRIVE+ WiFis in your installation. When you want to synchronize their activity, use Ethernet cables at the Ethernet connection (C 3 to C 6) and make sure all network settings are coordinated.

Can I repair the device myself?

No. Do not try to repair the device. Return it to your Traxon e:cue distributor for replacement or repair.

Where can I get help or send feedback?

In case of technical problems or questions regarding installation and repair please contact the customer service (see „2.6 Support" on page 04). Any other feedback is also more than welcome!

14.1   Power supply

How can I supply power to the LIGHTDRIVE+ WiFi?

You have two options: **a)** use an external power supply unit at the Power Supply input (connections A 1 and A 2), or **b)** use PoE at the Ethernet connection (C 1 and C 2). For more information see the Installation Guide.

What is the voltage for powering the LIGHTDRIVE+ WiFi?

The voltage is 12 V DC.

Can I use the LIGHTDRIVE+ WiFi to power the fixtures?

No, this is not possible. But you can use one power supply unit for both.

14.2   Network

How can I change the IP address?

Only if you use the synchronization function, you may need to change the IP address. To change the IP address, you need your tablet connected to LIGHTDRIVE+ WiFi and the LIGHTDRIVE+ app running. Go to *Network*. Here you can change the IP address of the LIGHTDRIVE+ WiFi.

14.3   Update

Where can I find the latest firmware update?

You can find the latest firmware versions either on www.ecue.com. For more information see „8 Firmware Update" on page 23.