ENGLISH
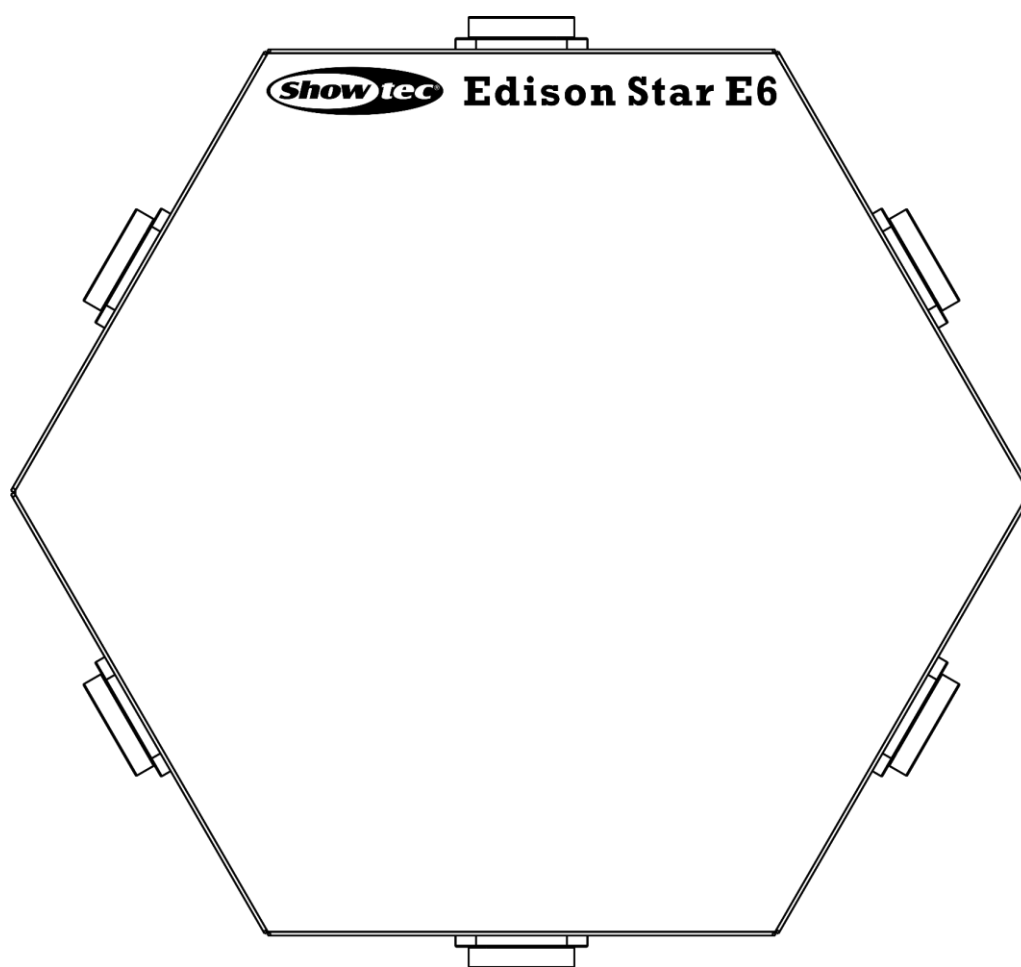
Edison Star E6 **V3**

Product code: 30748

Preface

Thank you for purchasing this Showtec product.

The purpose of this user manual is to provide instructions for the correct and safe use of this product.

Keep the user manual for future reference as it is an integral part of the product. The user manual shall be stored at an easily accessible location.

This user manual contains information concerning:

- Safety instructions
- Installation and operation of the device
- Intended and non-intended use of the device
- Maintenance procedures
- Troubleshooting
- Transport, storage and disposal of the device

Non-observance of the instructions in this user manual may result in serious injuries and damage of property.

Table of contents

Showtec

1. Introduction

1.1. Before Using the Product

> **Important**
> **Read and follow the instructions in this user manual before installing, operating or servicing this product.**

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual.

After unpacking, check the contents of the box. If any parts are missing or damaged, contact your Highlite International dealer.

Your shipment includes:

- Showtec Edison Star E6
- Schuko to pro power cable (1,3 m)
- User manual
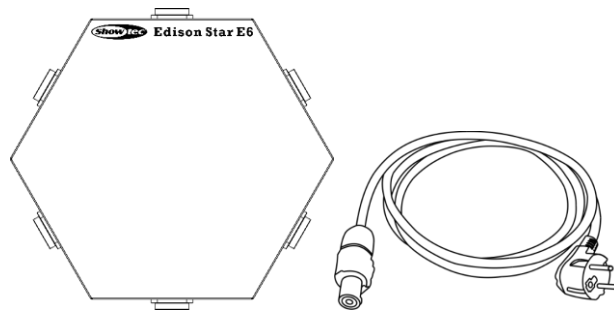
Fig. 01

1.2. Intended Use

This device is intended for professional use as a DMX LED dimmer. It is suitable only for indoor installation. This device is not suitable for households and for general lighting.

Any other use, not mentioned under intended use, is regarded as non-intended and incorrect use.

1.3. Product Lifespan

This device is not designed for permanent operation. Disconnect the device from the electrical power supply when the device is not in operation. This will reduce the wear and will improve the device's lifespan.

1.4. LEDs Lifespan

The light output of the LEDs gradually decreases over time (lumen depreciation). High operating temperatures contribute to this process. You can extend the lifespan of the LEDs by providing adequate ventilation and operating the LEDs at the lowest possible brightness.

1.5. Text Conventions

Throughout the user manual the following text conventions are used:

- Buttons: All buttons are in bold lettering, for example "Press the **UP/DOWN** buttons"
- References: References to chapters and parts of the device are in bold lettering, for example: "Refer to **2. Safety**", "turn the **adjustment screw (02)**"
- 0–255:   Defines a range of values
- Notes: **Note:** (in bold lettering) is followed by useful information or tips

1.6. Symbols and Signal Words

Safety notes and warnings are indicated throughout the user manual by safety signs.

Always follow the instructions provided in this user manual.

⚠	**DANGER**	Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.
⚠	**WARNING**	Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.
⚠	**CAUTION**	Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.
❶	**Attention**	Indicates important information for the correct operation and use of the product.
	Important	Read and observe the instructions in this document.
⚡	**Electrical hazard**	
☀	**Eye damage hazard**	
		Provides important information about the disposal of this product.

1.7. Symbols on the Information Label

This product is provided with an information label. The information label is located on the backside of the device.

The information label contains the following symbols:

	This device shall not be treated as household waste.
	This device is designed for indoor use.
	This device falls under IEC protection class I.
	Read and observe the instructions in this document.

2. Safety

	Important **Read and follow the instructions in this user manual before installing, operating or servicing this product.**

The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual.

2.1. Warnings and Safety Instructions

	DANGER **Danger for children**

For adult use only. The device must be installed beyond the reach of children.

- Do not leave various parts of the packaging (plastic bags, polystyrene foam, nails, etc.) within children's reach. Packaging material is a potential source of danger for children.

	DANGER **Electric shock caused by dangerous voltage inside**

There are areas within the device where dangerous touch voltage may be present.

- Do not open the device or remove any covers.
- Do not operate the device if the covers or the housing are open. Before operation, check if the housing is firmly closed and all screws are tightly fastened.
- Disconnect the device from electrical power supply before service and maintenance, and when the device is not in use.

	DANGER **Electric shock caused by short-circuit**

This device falls under IEC protection class I.

- Make sure that the device is electrically connected to ground (earth). Connect the device only to a socket-outlet with ground (earth) connection.
- Do not cover the ground (earth) connection.
- Do not bypass the thermostatic switch or fuses.
- For replacement use fuses of the same type and rating only.
- Do not let the power cable come into contact with other cables. Handle the power cable and all connections with the mains with caution.
- Do not modify, bend, mechanically strain, put pressure on, pull or heat up the power cable.
- Make sure that the power cable is not crimped or damaged. Examine the power cable periodically for any defects.
- Do not immerse the device in water or other liquids. Do not install the device in a location where flooding may occur.
- Do not use the device during thunderstorms. Disconnect the device from the electrical power supply immediately.

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� **Attention**
Power supply

- Before connecting the device to the power supply, make sure that the current, voltage and frequency match the input voltage, current and frequency specified on the information label on the device.
- Make sure that the cross-sectional area of the extension cords and power cables is sufficient for the required power consumption of the device.

Attention
General safety

- Do not insert objects into the air vents.
- Do not connect the device to a dimmer pack.
- Do not switch the device on and off in short intervals. This decreases the device's life.
- Do not shake the device. Avoid brute force when installing or operating the device.
- If the device is dropped or struck, disconnect the device from the electrical power supply immediately.
- If the device is exposed to extreme temperature variations (e.g. after transportation), do not switch it on immediately. Let the device reach room temperature before switching it on, otherwise it may be damaged by the formed condensation.
- If the device fails to work properly, discontinue the use immediately.

Attention
For professional use only
This device shall be used only for the purposes it is designed for.

This device is designed to be used as a DMX LED dimmer. Any incorrect use may lead to hazardous situations and result in injuries and material damage.

- This device is not suitable for households and for general lighting.
- This device is not designed for permanent operation.
- This device does not contain user-serviceable parts. Unauthorized modifications to the device will render the warranty void. Such modifications may result in injuries and material damage.

> ⓘ **Attention**
> **Before each use, examine the device visually for any defects.**

Make sure that:

- All screws used for installing the device or parts of the device are tightly fastened and are not corroded.
- The safety devices are not damaged.
- There are no deformations on housings, fixations and installation points.
- The LED bulbs are not cracked or damaged.
- The power cables are not damaged and do not show any material fatigue.

> ⓘ **Attention**
> **Do not expose the device to conditions that exceed the rated IP class conditions.**

This device is IP20 rated. IP (Ingress Protection) 20 class provides protection against solid objects greater than 12 mm, such as fingers, and no protection against harmful ingress of water.

2.2. Requirements for the User

This product may be used by ordinary persons. Maintenance may be carried by ordinary persons. Installation and service shall be carried out only by instructed or skilled persons. Contact your Highlite dealer for more information.

Instructed persons have been instructed and trained by a skilled person, or are supervised by a skilled person, for specific tasks and work activities associated with the installation, service and maintenance of this product, so that they can identify risks and take precautions to avoid them.

Skilled persons have training or experience, which enables them to recognize risks and to avoid hazards associated with the installation, service and maintenance of this product.

Ordinary persons are all persons other than instructed persons and skilled persons. Ordinary persons include not only users of the product but also any other persons that may have access to the device or who may be in the vicinity of the device.

3.   Description of the Device

The Edison Star E6 is a DMX LED dimmer with 6 x E27 sockets. It can be controlled either manually or via DMX. The device is delivered with a mounting bracket. It is suitable for indoor venues.

3.1.   Front View
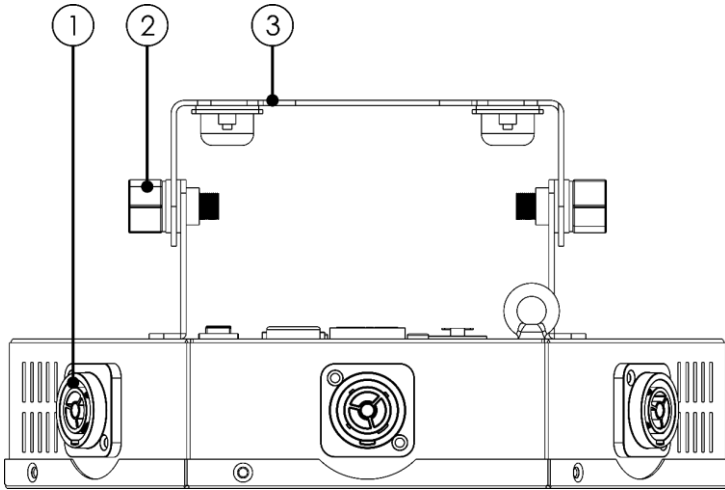
Fig. 02

01) 6 x E27 sockets; for 6 x LED bulbs (not included)
02) Adjustment screw
03) Mounting bracket (also for quick-lock connectors)

3.2.   Back View

Fig. 03
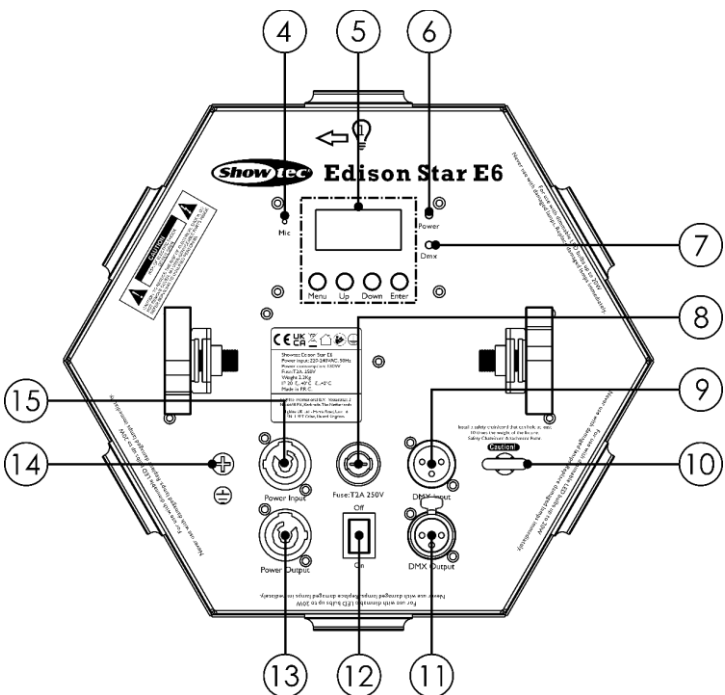
04) Built-in microphone
05) LCD display + control buttons
06) LED power indicator
07) LED DMX indicator
08) Fuse T2AL/250V
09) 3-pin DMX signal connector IN
10) Safety eye
11) 3-pin DMX signal connector OUT
12) Power switch ON/OFF
13) 230 V pro power connector OUT (Gray)
14) Ground/earth connection
15) 230 V pro power connector IN (Blue)

3.3. Product Specifications

Model:	Edison Star E6
Electrical:	
Input voltage:	220–240 V AC, 50 Hz
Power consumption:	130 W
Fuse:	T2AL/250 V
Physical:	
Dimensions:	276 x 270 x 141 mm (L x W x H)
Weight:	2,3 kg
Optics:	
Light source:	6 x LED bulb (not included); Use only dimmable LED bulbs.
LED bulb socket:	E27
Dimmer:	0–100 %
Operation and control:	
Control:	Stand-alone (auto, manual, sound-controlled) DMX-512
DMX channels:	1, 6 channels
Control panel:	LCD display and control buttons
Connections:	
Power connections:	Pro power connector (Blue) IN/(Gray)OUT
Data connections:	3-pin DMX connectors IN/OUT
Signal pinouts:	3-pin: pin 1 (ground), pin 2 (-), pin 3 (+)
Construction:	
Housing:	Metal and flame-retardant plastic
Color:	Black
IP rating:	IP20

Thermal:		
Maximum ambient temperature t_a:		40 °C
Maximum housing temperature t_c:		40 °C
Minimum distance:		
Minimum distance from flammable surfaces:		0,5 m
Minimum distance to lighted object:		1 m

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3.4. Accessories

> **(!)** **Attention**
> **The device is designed to be operated with the LED filament bulbs installed.**

The device is delivered without LED filament bulbs. There are 17 LED filament bulbs available for this device:

Product code: 83260 (LED Filament Bulb E27, 4 W)
Product code: 83261 (LED Filament Bulb E27, 5 W)
Product code: 83262 (LED Filament Bulb E27, 5 W)
Product code: 83264 (LED Filament Bulb E27, 5 W)
Product code: 83266 (LED Filament Bulb T9, Crossed Filament 300 mm)
Product code: 83267 (LED Filament Bulb T9, Crossed Filament 225 mm)
Product code: 83268 (LED Filament Bulb T9, Crossed Filament 185 mm)
Product code: 83269 (LED Filament Bulb T9, Straight Filament 300 mm)
Product code: 83270 (LED Filament Bulb T9, Straight Filament 225 mm)
Product code: 83271 (LED Filament Bulb T9, Straight Filament 185 mm)
Product code: 83275 (LED Filament Bulb BT180, 6 W)
Product code: 83276 (LED Filament Bulb BT118, 6 W)
Product code: 83277 (LED Filament Bulb G200, 6 W)
Product code: 83278 (LED Filament Bulb PS52, 6 W)
Product code: 83279 (LED Filament Bulb PS35, 6 W)
Product code: 83280 (LED Filament Bulb BTT80, 6 W)
Product code: 83281 (LED Filament Bulb R160, 6 W)

3.5.   Dimensions

276 mm

270 mm

106 mm

141 mm

40 mm

45 mm

56 mm
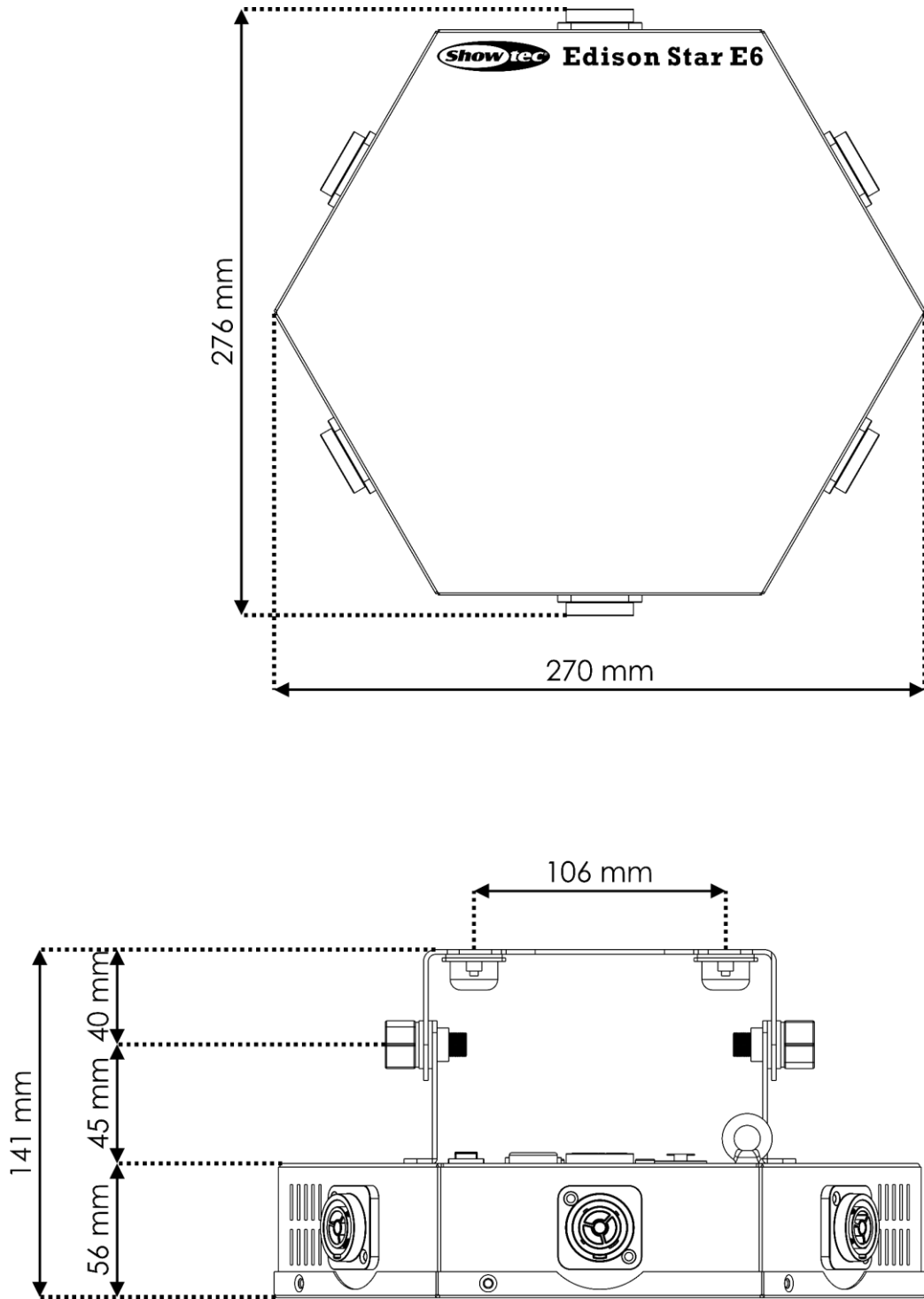
Fig. 04

4. Installation

4.1. Safety Instructions for Installation

⚠️	**WARNING** **Incorrect installation can cause serious injuries and damage of property.**

If trussing systems are used, installation must be carried out only by instructed or skilled persons.

Follow all applicable European, national and local safety regulations concerning rigging and trussing.

4.2. Personal Protective Equipment

During installation and rigging wear personal protective equipment in compliance with the national and site-specific regulations.

4.3. Installation Site Requirements

- The device must be installed only indoors.
- The device can be mounted to a truss or other rigging structure in any orientation.
- The minimum distance between the light output and the illuminated surface must be bigger than 1 m.
- The minimum distance to other objects must be bigger than 0,5 m.
- The maximum ambient temperature t_a = 40 °C must never be exceeded.
- The relative humidity must not exceed 50 % with an ambient temperature of 40 °C.

4.4. LED Bulb Installation

The Edison Star E6 is delivered without the light source. It can be used with 6 LED bulbs.

🛈	**Attention** **Install the light bulb before mounting the device.**

To install the LED bulb, insert it into the **E27 socket (01)** and twist it clockwise until it fits into place (Fig. 05).
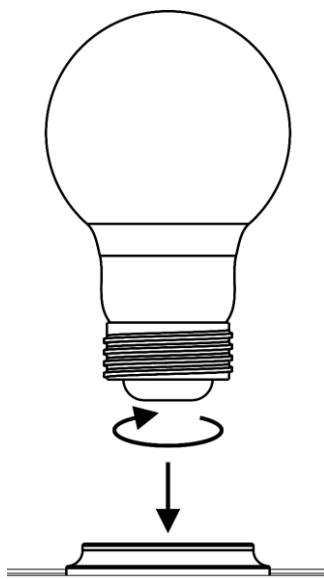
Fig. 05

4.5. Rigging

The device can be mounted to a truss or other rigging structure. Make sure that all loads are within the pre-determined limits of the supporting structure.

⚠️ **CAUTION**
Restrict the access under the work area during rigging and/or derigging.

To mount the device, follow the steps below:

01) Use a clamp to attach the device to the supporting structure, as shown in Fig. 06. Make sure that the device cannot move freely. The use of a quick lock bracket is optional.
02) Secure the device with a secondary suspension, for example a safety cable. Make sure that the secondary suspension can hold 10 times the weight of the device. If possible, the secondary suspension should be attached to a supporting structure independent of the primary suspension. Put the safety cable through the **safety eye (10)**, as shown in Fig. 06.

Clamp

Safety cable

Fig. 06

4.6. Connecting to Power Supply

> ⚠️ **DANGER**
> **Electric shock caused by short-circuit**

The device accepts AC mains power at 220–240 V and 50 Hz. Do not supply power at any other voltage or frequency to the device.

This device falls under IEC protection class I. Make sure that the device is always electrically connected to the ground (earth).

Before connecting the device to the socket-outlet:
- Make sure that the power supply matches the input voltage specified on the information label on the device.
- Make sure that the socket-outlet has ground (earth) connection.
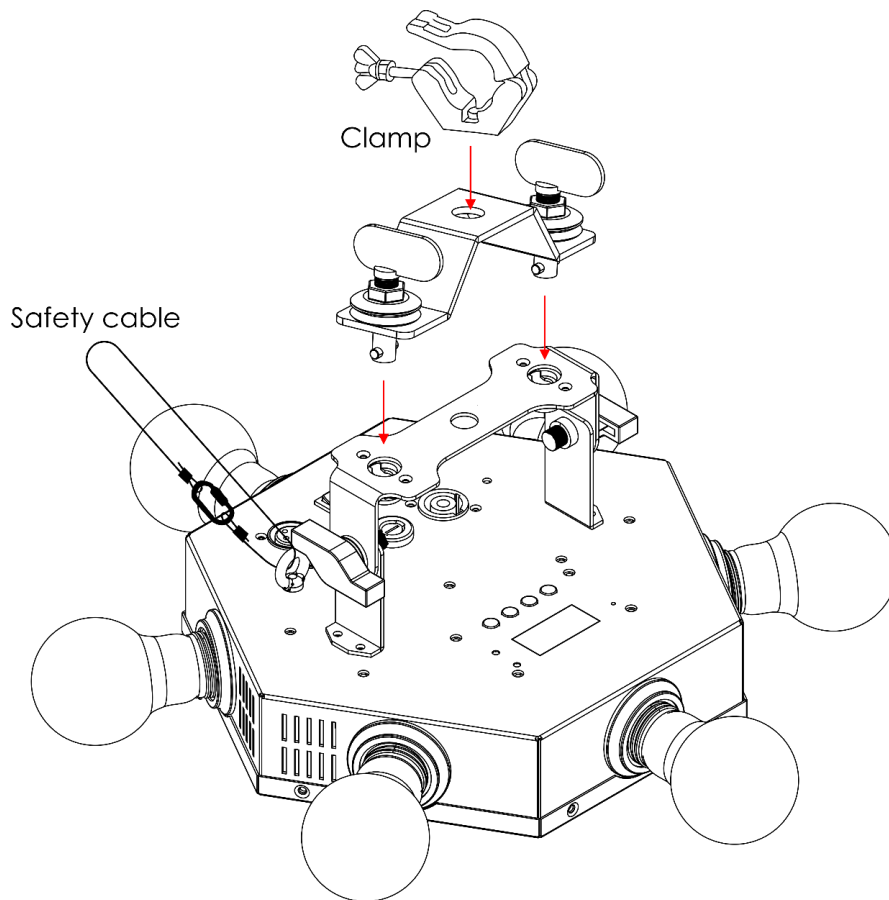
Connect the device to the socket-outlet with the power plug. Do not connect the device to a dimmer circuit, as this may damage the device.

4.7. Power Linking of Multiple Devices

This device supports power linking. Power can be relayed to another device via the power OUT connector. Note that the input and the output connectors have different designs: one type cannot be connected to the other.

Power linking of multiple devices must be carried out only by instructed or skilled persons.

> ⚠️ **WARNING**
> **Incorrect power linking may lead to overload of the electrical circuit and result in serious injuries and damage of property.**

To prevent overload of the electrical circuit, when power linking multiple devices:

- Use cables with sufficient current-carrying capacity. The power cable supplied with the device is not suitable for power linking of multiple devices.
- Make sure that the total current draw of the device and all connected devices does not exceed the rated capacity of the power cables and the circuit breaker.
- Do not link more devices on one power link than the maximum recommended number.

Maximum recommended number of devices:
- at 100–120 V: 12 devices
- at 200–240 V: 27 devices

5. Setup

5.1. Warnings and Precautions

Attention
Connect all data cables before supplying power.
Disconnect power supply before connecting or disconnecting data cables.

5.2. Stand-alone Setup

When the Edison Star E6 is not connected to a controller or to other devices, it functions as a stand-alone device. It can be operated manually or in auto mode.

For more information about the control modes, refer to **6.2. Control Modes** on page 19.

5.3. DMX Connection

5.3.1. DMX-512 Protocol

You need a DMX serial data link to run light shows of one or more devices using a DMX-512 controller.

The Edison Star E6 has 3-pin DMX signal IN and OUT connectors.

The pin assignment is as follows:
● 3-pin: pin 1 (ground), pin 2 (-), pin 3 (+)

Devices on a serial data link must be daisy-chained in a single line. The number of devices that you can control on one data link is limited by the combined number of the DMX channels of the connected devices and the 512 channels available in one DMX universe.

To comply with the TIA-485 standard, no more than 32 devices should be connected on one data link. In order to connect more than 32 devices on one data link, you must use a DMX optically isolated splitter/booster, otherwise this may result in deterioration of the DMX signal.

Note:
● Maximum recommended DMX data link distance: 300 m
● Maximum recommended number of devices on a DMX data link: 32 devices

5.3.2. DMX Cables

Shielded twisted-pair cables with 3-pin XLR connectors must be used for reliable DMX connection. You can purchase DMX cables directly from your Highlite International dealer or make your own cables.

If you use XLR audio cables for DMX data transmission, this may lead to signal degradation and unreliable operation of the DMX network.

When you make your own DMX cables, make sure that you connect the pins and wires correctly as shown in Fig. 07.

Pin 1: GND (screen)
Pin 2: Signal (-)
Pin 3: Signal (+)
Pin 4: N/C
Pin 5: N/C

Pin 1: GND (screen)
Pin 2: Signal (-)
Pin 3: Signal (+)

Pin 1: GND (screen)
Pin 2: Signal (-)
Pin 3: Signal (+)

Pin 1: GND (screen)
Pin 2: Signal (-)
Pin 3: Signal (+)
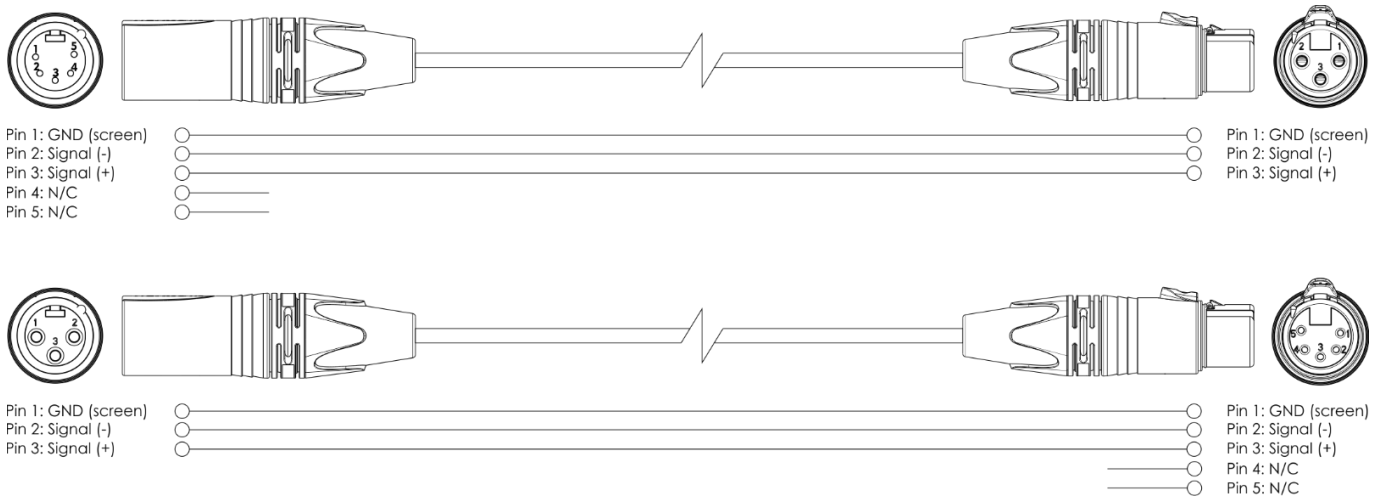Pin 4: N/C
Pin 5: N/C

Fig. 07

5.3.3. DMX Linking

To connect multiple devices on one DMX data link, follow the steps below:

01) Use a 3-pin DMX cable to connect the DMX OUT connector of the lighting controller to the DMX IN connector of the first device.
02) Connect the first device's DMX OUT connector to the second device's DMX IN connector with a 3-pin DMX cable.
03) Repeat step 2 to connect all devices in a daisy-chain as shown in Fig. 08.
04) Connect a DMX terminator (120 Ω resistor) to the DMX OUT connector of the last device on the data link.
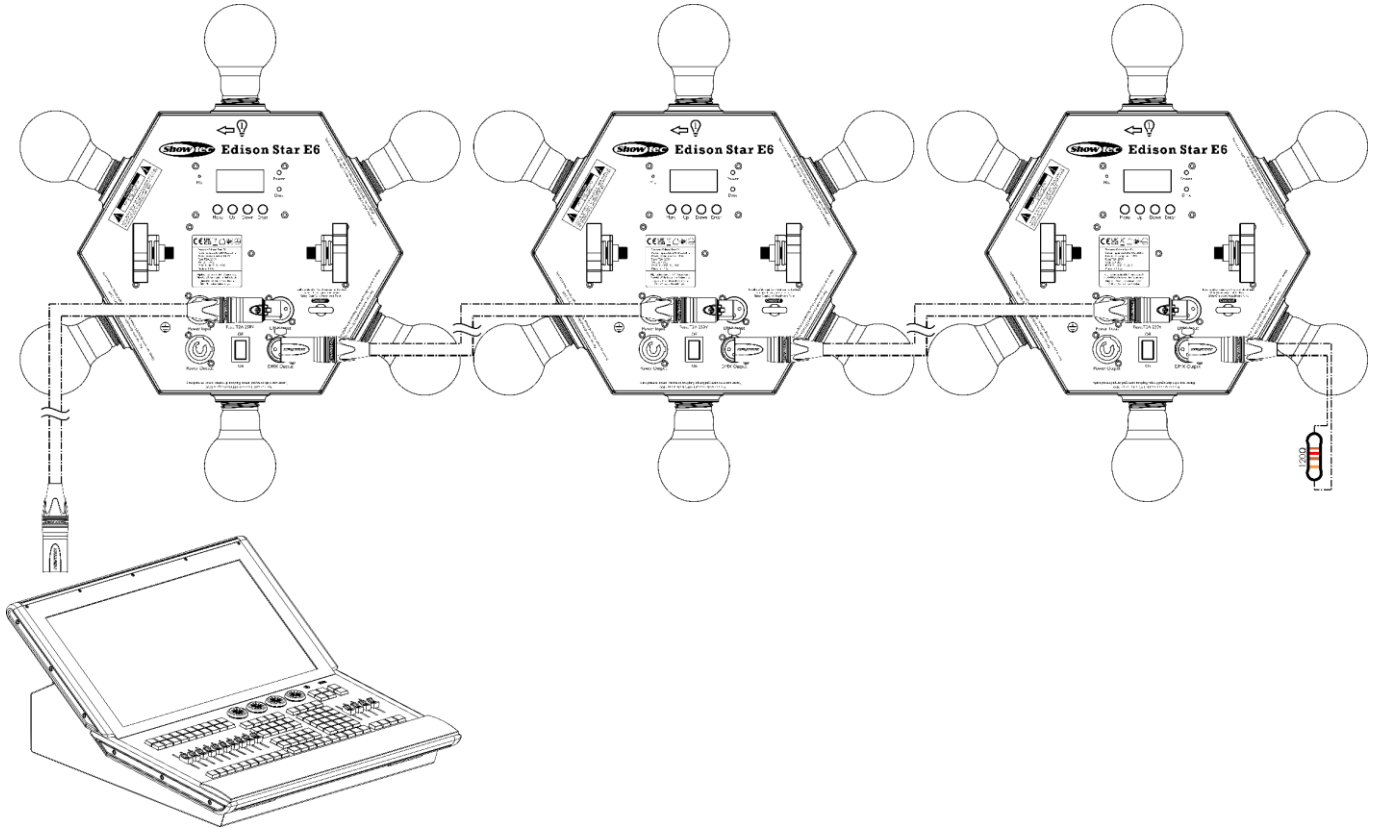
Fig. 08

5.3.4. DMX Addressing

In a setup with multiple devices, make sure that you set the DMX starting address of each device correctly. The Edison Star E6 has 2 personalities: 1 and 6 channels.

If you want to connect multiple devices on one data link and use them in 6-channel mode, for example, follow the steps below:

05) Set the starting address of the 1st device on the data link to 1 (001).
06) Set the starting address of the 2nd device on the data link to 7 (007), as 1 + 6 = 7.
07) Set the starting address of the 3rd device on the data link to 13 (013) as 7 + 6 = 13.
08) Continue assigning the starting addresses of the remaining devices by adding each time 6 to the previous number.

Make sure that you do not have any overlapping channels in order to control each Edison Star E6 correctly. If two or more devices are addressed similarly, they will work similarly.

6. Operation

6.1. Safety Instructions for Operation

> **Attention**
> **This device must be used only for the purposes it is designed for.**

This device is intended for professional use as a DMX LED dimmer. It is suitable only for indoor installation. This device is not suitable for households and for general lighting.

Any other use, not mentioned under intended use, is regarded as non-intended and incorrect use.

> **Attention**
> **Power supply**

Before connecting the device to the power supply, make sure that the current, voltage and frequency match the input voltage, current and frequency specified on the information label on the device.

6.2. Control Modes

The Edison Star E6 supports the following control modes:
- Stand-alone: Auto operation mode (auto programs), manual operation mode, sound-controlled operation mode
- DMX-512:   1, 6 channels

For more information about how to connect the devices, refer to **5. Setup** on pages 16–18.

To operate the device manually as a stand-alone device, adjust all the settings in Manual menu. See **6.6.1.4. Manual Mode** on page 23 for more information.

To run the built-in programs in auto operation mode without a DMX controller, activate Auto menu. See **6.6.1.3. Auto Mode** on page 23 for more information.

For more information about sound-controlled operation mode, see **6.6.1.2. Sound-controlled Mode** on page 23.

To operate the device with a DMX controller:

01) Set the DMX starting address of the device in the DMX Address menu. See **5.3.4. DMX Addressing** on page 18 and **6.6.1.1. DMX Mode** on page 22.
02) Select the DMX channel mode. See **6.6.1.1. DMX Mode** on page 22 for more information. See **6.7. DMX Channels** on page 24 for complete overview of all DMX channels.

6.3. Control Panel

A) LCD display
B) MENU button
C) UP button
D) DOWN button
E) ENTER button
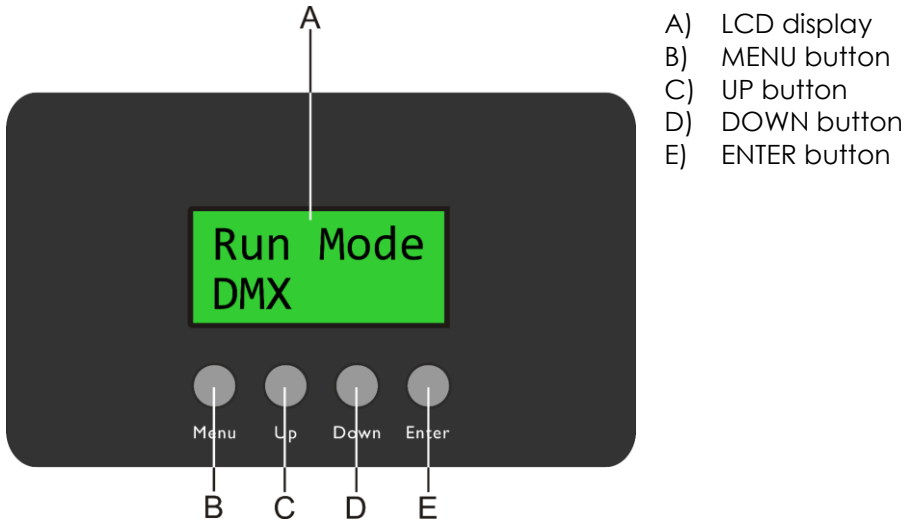
Fig. 09

- Use the **MENU** button to exit the current submenu, to return to the Main Menu and to return to the start screen.
- Use the **UP**/**DOWN** buttons to navigate through the menus or to increase/decrease numeric values.
- Use the **ENTER** button to open the desired menu, to confirm your choice or to set the currently selected value.

6.4. Start-up

Upon start-up the display will show a splash screen with the current software version:

Edi-Star
Ver 1.03

After 10 seconds the display will show the main menu.

Run Mode

Note:

If no button is pressed, after 10 seconds of inactivity the display will turn off. Press any button to turn the display on.

6.5. Menu Overview

MENU

Run Mode	ENTER →	Run Mode DMX	ENTER →	DMX 1CH
			Up/Down	DMX 6CH
		Run Mode Music	ENTER →	Music 1
			Up/Down	Music 16
		Run Mode Auto	ENTER →	Auto 1

⋮

Up/Down

Auto 16 → ENTER → Auto Prog → ENTER → Auto 1

⋮

Auto 16

Up/Down

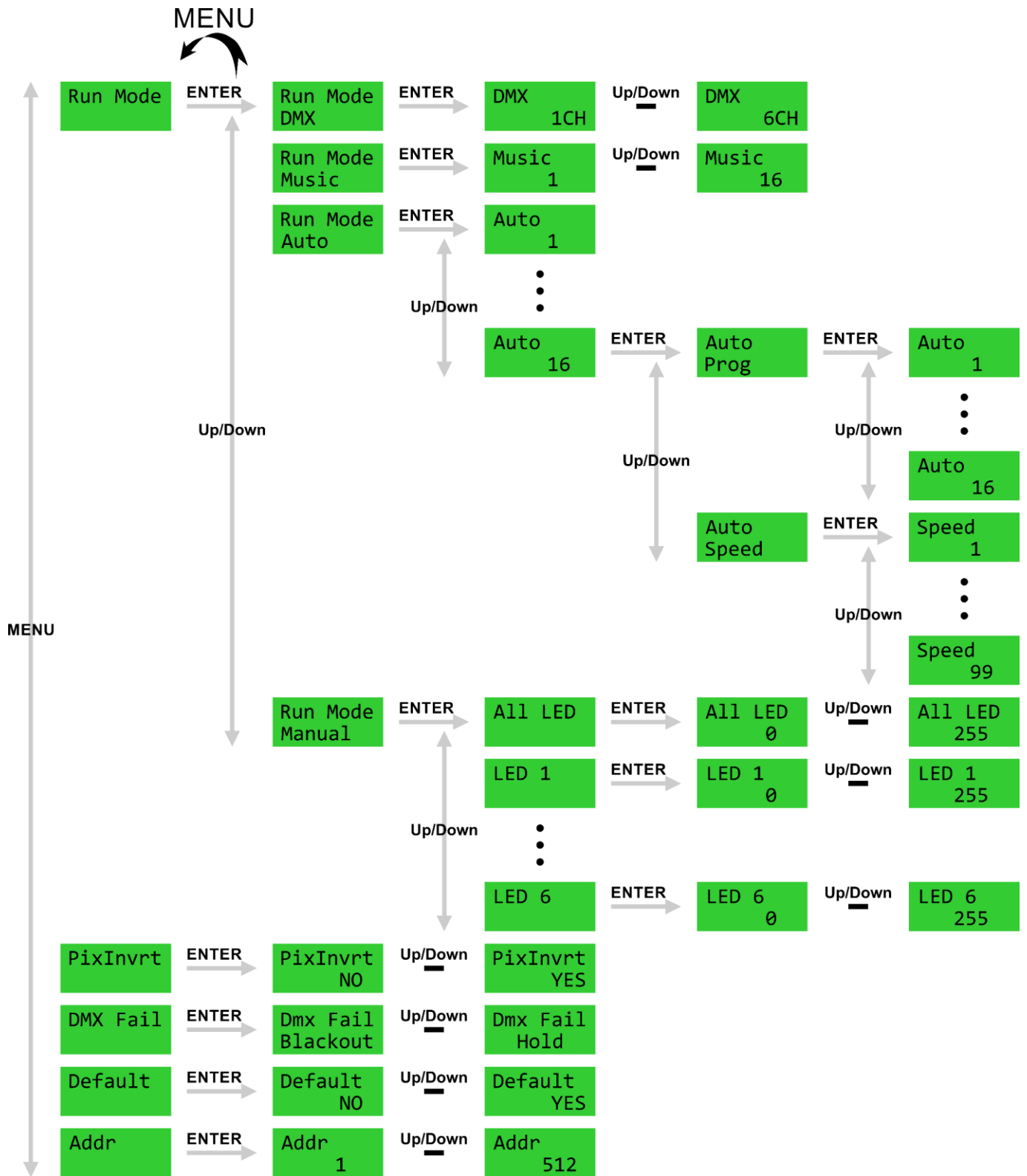Auto Speed → ENTER → Speed 1

⋮

Speed 99

Up/Down

Run Mode Manual	ENTER →	All LED	ENTER →	All LED 0	Up/Down	All LED 255
		LED 1	ENTER →	LED 1 0	Up/Down	LED 1 255

⋮

Up/Down

| LED 6 | ENTER → | LED 6
0 | Up/Down | LED 6
255 |

PixInvrt	ENTER →	PixInvrt NO	Up/Down	PixInvrt YES
DMX Fail	ENTER →	Dmx Fail Blackout	Up/Down	Dmx Fail Hold
Default	ENTER →	Default NO	Up/Down	Default YES
Addr	ENTER →	Addr 1	Up/Down	Addr 512

MENU

Up/Down

6.6. Main Menu Options

The main menu has the following options:

`Run Mode`	Run Mode	Run Mode (see **6.6.1. Run Mode**)
`PixInvrt`	Pixel Invert	Pixel Inversion (see **6.6.2. Pixel Invert**)
`DMX Fail`	DMX Fail	DMX Fail (see **6.6.3. DMX Fail**)
`Default`	Default	Reset (see **6.6.4. Reset**)
`Addr`	Address	DMX Addressing (see **6.6.5. DMX Addressing**)

01) Press the **UP/DOWN** buttons to navigate through the main menu.
02) Press the **ENTER** button to open the submenus.

6.6.1. Run Mode

In this menu you can set the desired operation mode.

01) Press the **UP/DOWN** buttons to choose one of the 4 operation modes:

`Run Mode` `DMX`	DMX	DMX mode (see **6.6.1.1. DMX Mode**)
`Run Mode` `Music`	Music	Sound control (see **6.6.1.2. Sound-controlled Mode**)
`Run Mode` `Auto`	Auto	Auto mode (see **6.6.1.3. Auto Mode**)
`Run Mode` `Manual`	Manual	Manual mode (see **6.6.1.4. Manual Mode**)

02) Press the **ENTER** button to confirm.

6.6.1.1. DMX Mode

In this menu you can choose the desired DMX channel mode and control the device with a DMX controller.

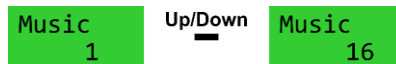01) Press the **UP/DOWN** buttons to choose one of the 2 DMX channel modes:

`DMX` `    1CH`	1-channel mode
`DMX` `    6CH`	6-channel mode

02) Press the **ENTER** button to confirm.

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6.6.1.2. Sound-controlled Mode

In this menu the device will react to the beat of the background music.

01) Press the **UP/DOWN** buttons to choose one of the 16 sound-controlled programs:

```
Music        Up/Down   Music
    1          —           16
```
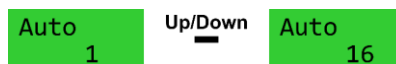
02) Press the **ENTER** button to confirm.

6.6.1.3. Auto Mode

In this menu you can run the desired built-in programs.

01) Press the **UP/DOWN** buttons to choose one of the 16 built-in programs:

```
Auto         Up/Down   Auto
    1          —           16
```

02) Press the **ENTER** button to confirm.
03) Press the **UP/DOWN** buttons to choose one of the 2 submenus and press the **ENTER** button to confirm:

`Auto` `Prog`	Program	Press the **UP/DOWN** buttons to choose one of the 16 built-in programs and press the **ENTER** button to confirm.
`Auto` `Speed`	Speed	Press the **UP/DOWN** buttons to set the program speed. (The adjustment range is 1–99.) Press the **ENTER** button to confirm.

6.6.1.4. Manual Mode

In this menu you can manually set the LED bulb brightness.

01) Press the **UP/DOWN** buttons to choose one of the 2 submenus and press the **ENTER** button to confirm:

`LED 1` Up/Down `LED 6`	Separate LED bulbs 1–6	Press the **UP/DOWN** buttons to set brightness for each of the 6 LED bulbs. (The adjustment range for each LED bulb is 0–255, from dark to brightest.)
`All LED`	All LED bulbs	Press the **UP/DOWN** buttons to set brightness for all 6 LED bulbs. (The adjustment range is 0–255, from dark to brightest.)

02) Press the **ENTER** button to confirm.

6.6.2. Pixel Invert

In this menu you can invert the order in which the LED bulbs light up.

01) Press the **UP/DOWN** buttons to choose one of the 2 options:

`PixInvrt` `      NO`	Pixel Invert No	Cancel
`PixInvrt` `     YES`	Pixel Invert Yes	LED bulb inversion

02) Press the **ENTER** button to confirm.

6.6.3. DMX Fail

In this menu you can set the behavior of the device in case of a DMX signal error.

01) Press the **UP/DOWN** buttons to choose one of the 2 options:

`Dmx Fail` `Blackout`	DMX Fail Blackout	The device will black out the light output.
`Dmx Fail` `Hold`	DMX Fail Hold	The device will use last properly received DMX signal.

02) Press the **ENTER** button to confirm.

6.6.4. Reset

In this menu you can restore the default factory settings.

01) Press the **UP/DOWN** buttons to choose one of the 2 options:

`Default` `NO`	Default No	Cancel
`Default` `YES`	Default Yes	Restore the default factory settings.

02) Press the **ENTER** button to confirm.

6.6.5. DMX Addressing

In this menu you can set the DMX address.

01) Press the **UP/DOWN** buttons to select the required address. The adjustment range is 001–512:

`Addr`
`1`   **Up/Down**   `Addr`
`512`

02) Press the **ENTER** button to confirm.

6.7. DMX Channels

6.7.1. 1 Channel, 6 Channels

1 CH	6 CH	Function	Value	Setting
1		**Dimmer (LED bulbs 1–6)**	000–255	From low to high intensity (0–100 %)
	1	**Dimmer (LED bulb 1)**	000–255	From low to high intensity (0–100 %)
	2	**Dimmer (LED bulb 2)**	000–255	From low to high intensity (0–100 %)
	3	**Dimmer (LED bulb 3)**	000–255	From low to high intensity (0–100 %)
	4	**Dimmer (LED bulb 4)**	000–255	From low to high intensity (0–100 %)
	5	**Dimmer (LED bulb 5)**	000–255	From low to high intensity (0–100 %)
	6	**Dimmer (LED bulb 6)**	000–255	From low to high intensity (0–100 %)

7.   Troubleshooting

This troubleshooting guide contains solutions to problems which can be carried out by an ordinary person. The device does not contain user-serviceable parts.

Unauthorized modifications to the device will render the warranty void. Such modifications may result in injuries and material damage.

Refer servicing to instructed or skilled persons. Contact your Highlite International dealer in case the solution is not described in the table.

Problem	Probable cause(s)	Solution
The device does not function at all	No power to the device	● Check if power is switched on and cables are plugged in
	Main fuse is blown	● Replace the fuse. See **8.3.1. Replacing the Fuse** on page 27
The device responds erratically	The factory settings of the device are changed	● Reset the device's parameters to the default factory settings. See **6.6.4. Reset** on page 24
The device does not respond to DMX control	The controller is not connected	● Connect the controller
	The signal is reversed. The 3-pin DMX OUT of the controller does not match the DMX IN of the device	● Install a phase-reversing cable between the controller and the device
	The controller is defective	● Try using another controller
The device responds erratically to DMX control	Bad data link connection	● Examine connections and cables. Correct poor connections. Repair or replace damaged cables
	The data link is not terminated with a 120 Ω termination plug	● Insert a termination plug in the DMX OUT connector of the last device on the link
	Incorrect addressing	● Check address settings and correct, if necessary
	In case of a setup with multiple devices, one of the devices is defective and disturbs data transmission on the link	● To find out the defective device, bypass one device at a time until normal operation is restored
No light or LED bulb cuts out intermittently	LED bulb is damaged	● Disconnect the device and replace the LED bulb.
	The power supply settings do not match local AC voltage and frequency	● Disconnect the device. Check the settings and correct, if necessary

8. Maintenance

8.1. Safety Instructions for Maintenance

> ⚠ **DANGER**
> **Electric shock caused by dangerous voltage inside**

Disconnect power supply before servicing or cleaning.

8.2. Preventive Maintenance

> ❗ **Attention**
> **Before each use, examine the device visually for any defects.**

Make sure that:

- All screws used for installing the device or parts of the device are tightly fastened and are not corroded.
- The safety devices are not damaged.
- There are no deformations on housings, fixations and installation points.
- The LED bulbs are not cracked or damaged.
- The power cables are not damaged and do not show any material fatigue.

8.2.1. Basic Cleaning Instructions

The LED bulbs installed on the device must be cleaned periodically in order to optimize the light output. The cleaning schedule depends on the conditions at the site where the device is installed. When smoke or fog machines are used at the site, the device will need more frequent cleaning. On the other hand, if the device is installed in well-ventilated area, it will need less frequent cleaning. To establish a cleaning schedule, examine the device at regular intervals during the first 100 hours of operation.

To clean the device, follow the steps below:

01) Disconnect the device from the electrical power supply.
02) Allow the device to cool down for at least 20 minutes.
03) Remove the dust collected on the external surface with dry compressed air and a soft brush.
04) Clean the LED bulbs with a damp cloth. Use a mild detergent solution.
05) Dry the LED bulbs carefully with a lint-free cloth.
06) Clean the DMX and other connections with a damp cloth.

> **!** **Attention**

- Do not immerse the device in liquid.
- Do not use alcohol or solvents.
- Make sure that the connections are fully dry before connecting the device to the power supply and to other devices.

8.3. Corrective Maintenance

The device does not contain user-serviceable parts. Do not open the device and do not modify the device.

Refer repairs and servicing to instructed or skilled persons. Contact your Highlite International dealer for more information.

8.3.1. Replacing the Fuse

> **⚡** **DANGER**
> **Electric shock caused by short-circuit**

- Do not bypass the thermostatic switch or fuses.
- For replacement use fuses of the same type and rating only.

Power surges, short-circuit or incorrect electrical power supply may cause a fuse to burn out. If the fuse burns out, the device will not function anymore. If this happens, follow the steps below.

01) Disconnect the device from the electrical power supply.
02) Allow the device to cool down for at least 20 minutes.
03) Loosen the fuse cover with a screwdriver and remove the fuse holder.
04) If the fuse is brown or unclear, it is burned out. Remove the old fuse.
05) Insert a new fuse in the fuse holder. Make sure that the type and the rating of the replacement fuse are the same as the ones specified on the information label of the product.
06) Replace the fuse holder in the opening and tighten the fuse cover.

Show tec

9. Deinstallation, Transportation and Storage

9.1. Instructions for Deinstallation

⚠️	**WARNING** **Incorrect deinstallation can cause serious injuries and damage of property.**

- Let the device cool down before dismounting.
- Disconnect power supply before deinstallation.
- Always observe the national and site-specific regulations during deinstallation and derigging of the device.
- Wear personal protective equipment in compliance with the national and site-specific regulations.

9.2. Instructions for Transportation

- Use the original packaging to transport the device, if possible.
- Always observe the handling instructions printed on the outer carton box, for example: "Handle with care", "This side up", "Fragile".

9.3. Storage

- Clean the device before storing. Follow the cleaning instructions in chapter **8.2.1. Basic Cleaning Instructions** on page 26.
- Store the device in the original packaging, if possible.

10. Disposal

Correct disposal of this product

Waste Electrical and Electronic Equipment

This symbol on the product, its packaging or documents indicates that the product shall not be treated as household waste. Dispose of this product by handing it to the respective collection point for recycling of electrical and electronic equipment. This is to avoid environmental damage or personal injury due to uncontrolled waste disposal. For more detailed information about recycling of this product contact the local authorities or the authorized dealer.

11. Approval

CE

UK
CA

Check the respective product page on the website of Highlite International (www.highlite.com) for an available declaration of conformity.