

Easy 6 3-pin DMX

Product code: 50404

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
- Intended and non-intended use of the device
- Installation and operation 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.

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Table of contents

1. Introduction	3
1.1. Before Using the Product.....	3
1.2. Intended Use.....	3
1.3. Product Lifespan.....	3
1.4. Text Conventions.....	3
1.5. Symbols and Signal Words.....	4
1.6. Symbols on the Information Label.....	4
2. Safety	5
2.1. Warnings and Safety Instructions.....	5
2.2. Requirements for the User.....	6
3. Description of the Device	7
3.1. Top View.....	7
3.2. Base Plate View.....	7
3.3. Back View.....	7
3.4. Side View.....	8
3.5. Product Specifications.....	9
3.6. Optional Accessories and Software.....	9
3.7. Dimensions.....	10
4. Installation	11
4.1. Installation on a Wall.....	11
5. Setup	12
5.1. Warnings and Precautions.....	12
5.2. Ambient Conditions.....	12
5.3. Start-up.....	12
5.3.1. Switch ON the Device with Battery Power.....	12
5.3.2. Switch ON the Device with AC Power.....	12
5.4. DMX Connection.....	12
5.4.1. DMX Cables.....	12
5.4.2. Set the DMX Starting Addressing.....	13
6. Operation	14
6.1. Safety Instructions for Operation.....	14
6.2. Control Panel.....	14
6.3. Control Modes.....	14
6.3.1. Program Mode.....	14
6.3.1.1. Program a Scene.....	14
6.3.1.2. Delete a Scene.....	14
6.3.2. Play Mode.....	15
6.3.2.1. Playback a Programmed Scene.....	15
6.3.3. Test Mode.....	15
6.4. Factory Reset.....	15
7. Troubleshooting	16
8. Maintenance	16
8.1. Preventive Maintenance.....	16
8.1.1. Basic Cleaning Instructions.....	16
9. Deinstallation, Transportation and Storage	17
9.1. Instructions for Deinstallation.....	17
9.2. Instructions for Transportation.....	17
9.3. Storage.....	17
10. Disposal	17
11. Approval	17

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 Easy 6 3-pin DMX
- USB-C cable with an AC/DC adapter and 4 interchangeable plugs (Europe, UK/JP, AUS/NZ, US)
- User manual

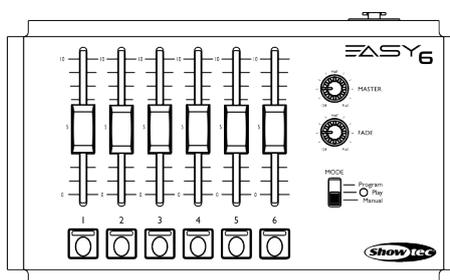


Figure 1



1.2. Intended Use

This device is intended for professional use as a DMX controller. It is designed for indoor use.

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 lifespan of the device.

1.4. 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 parts of the device are in bold lettering, for example: "turn the **adjustment handle (05)**". References to chapters are hyperlinked
- 0–255: Defines a range of values
- Notes: **Note:** (in bold lettering) is followed by useful information or tips

1.5. 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.



Attention

Indicates important information for the correct operation and use of the product.



Important

Read and observe the instructions in this document.



Provides important information about the disposal of this product.

1.6. Symbols on the Information Label

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

The information label contains the following symbol:



This device shall not be treated as household waste.



This device is designed for indoor use.



Read and follow the instructions in the user manual before installing, operating or servicing the device.



This device falls under IEC protection class II.

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 any parts of the packaging (plastic bags, polystyrene foam, nails, etc.) within the reach of children. Packaging material is a potential source of danger for children.



Attention
Power supply

This device falls under IEC protection class II. It is advised to use the original AC/DC adapter.

- Before connecting the AC power adapter 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 AC power adapter.
- Make sure that the cross-sectional area of the power cable is sufficient for the required power consumption of the device.



Attention
General safety

- Do not shake the device. Avoid brute force when installing or operating the device.
- Do not connect the device to a dimmer pack.
- Do not switch the device on and off in short intervals. This reduces the life of 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 use immediately.



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

This device is intended to be used as a DMX controller. It is suitable for indoor use. Any incorrect use may lead to hazardous situations and result in injuries and material damage.

- 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****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. Installation and maintenance may be carried out by ordinary persons. Service shall be carried out only by instructed or skilled persons. Contact your Highlite International 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 avoid hazards associated with the installation, service and maintenance of this product.

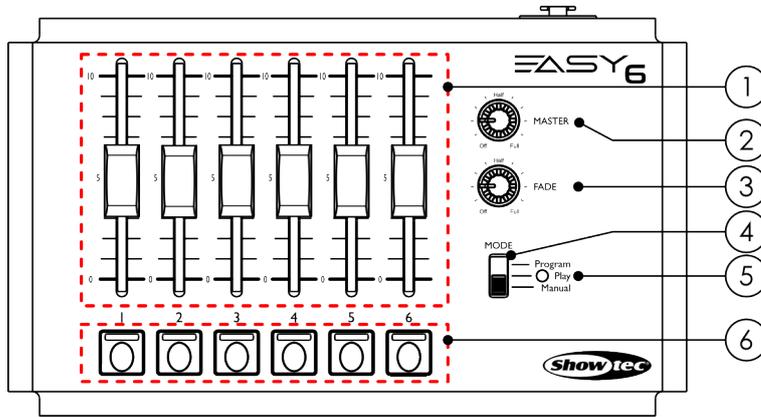
Ordinary persons are all persons other than instructed persons and skilled persons. Ordinary persons include not only users of the product but also any other persons that may have access to the device or who may be in the vicinity of the device.

3. Description of the Device

The Showtec Easy 6 3-pin DMX is a compact, 6-channel DMX controller with 6 faders, 6 push buttons with integrated LED indicators, a mode switch, a rotary master knob and a rotary fade knob. The device has three modes: program, play and manual. The device is equipped with DIP switches that make it possible to change the DMX starting address of the 6 channels.

3.1. Top View

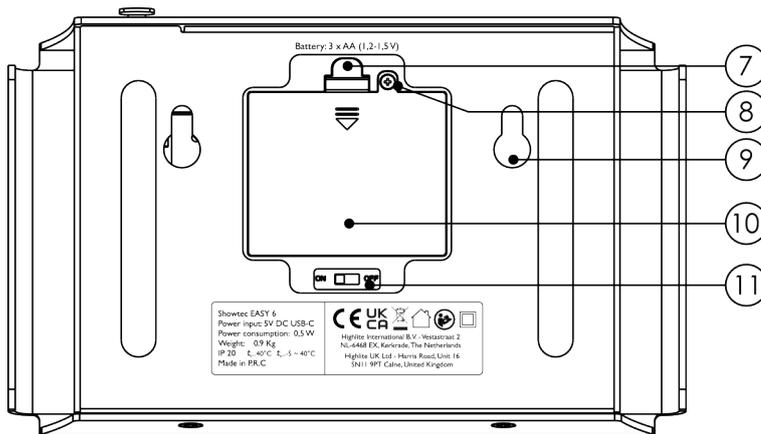
Figure 2



- 01) 6 faders
- 02) Rotary master knob
- 03) Rotary fade knob
- 04) Mode switch (Program/Play/Manual)
- 05) Mode LED indicator
- 06) 6 push buttons (with LED indicators)

3.2. Base Plate View

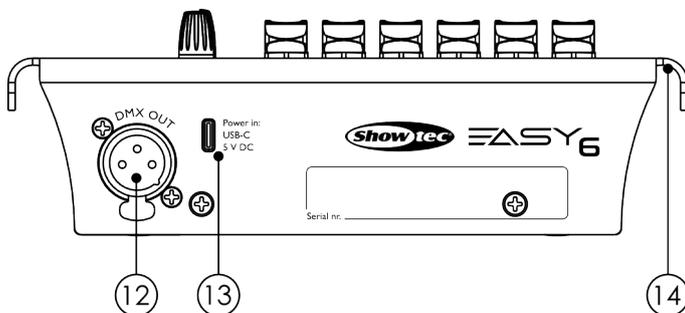
Figure 3



- 07) Battery compartment lock
- 08) Battery compartment screw
- 09) 2 mounting holes
- 10) Battery compartment cover
- 11) Power switch (ON/OFF)

3.3. Back View

Figure 4

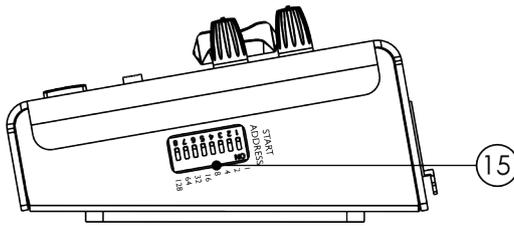


- 12) 3-pin DMX connector OUT
- 13) USB-C power connector IN (5 V DC)
- 14) 2 handles

3.4. Side View

Figure 5

15) 8 DIP switches



3.5. Product Specifications

Model:	Easy 6 3-pin DMX
--------	------------------

Battery:	
Battery Type	AA
Battery Voltage	1.5 V
Runtime @Full	20 h
Runtime Average	40 h

Control and Programming:	
Control Mode	DMX
DMX Channels	6
Faders	6
Memories	6
Playback Buttons	6

Electrical Specifications and Connections:	
Power Supply	5 V DC
Power Consumption	1 W
Power Connector IN	USB-C
DMX Connector OUT	XLR 3P

Mechanical Specifications:	
Width	195 mm
Depth	65 mm
Height	120 mm
Weight	0,9 kg
IP Rating	IP20 (indoor use only)
Housing	Metal
Color	Black

Product Properties:	
LED Indicators	Signal

Thermal Specifications:	
Maximum Ambient Temperature	40 °C
Minimum Ambient Temperature	0 °C
Minimum Operating Temperature	-5 °C

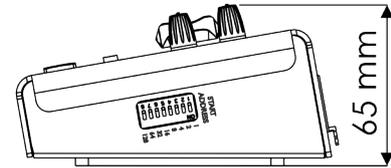
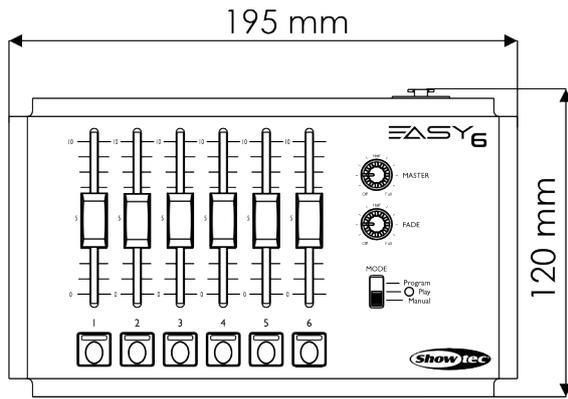
Included Items:	
Included Cables	USB-C

3.6. Optional Accessories and Software

You can additionally purchase the following accessories:

- [98043](#) Procell AA LR6 battery - MN1500 - 1,5 V

3.7. Dimensions



4. Installation

4.1. Installation on a Wall

You can install the device on a wall. To install the device on a wall, you need the following:

- a drill
- a drill bit (for wood or concrete)
- 2 anchors (if applicable)
- 2 screws

Notes:

- Make sure that the location where you will drill the mounting holes is free of any obstructions such as pipe work, ducting or wiring.

- 01) Measure the distance between the centers of the **mounting holes (09)**.
- 02) Mark the mounting locations the measured distance apart.

Figure 6

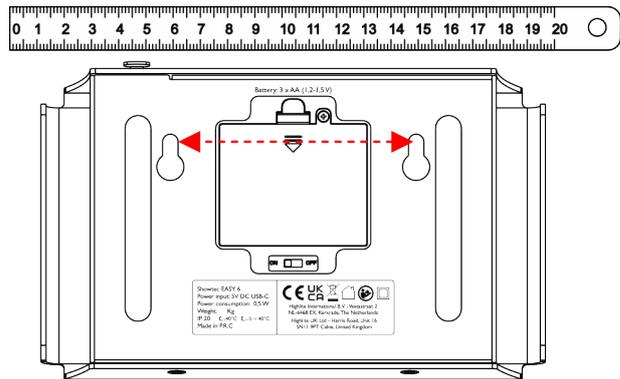


Figure 7

- 03) Drill holes at the marked locations.
- 04) Insert anchors into the drilled holes, if applicable.
- 05) Insert the screws into the drilled holes or into the anchors.

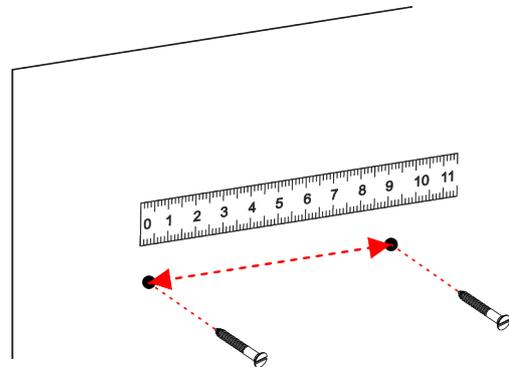
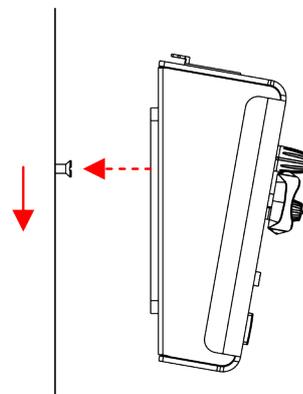


Figure 8

- 06) Match the mounting holes (09) to the screws on the wall.
- 07) Pull the device down, to insert the screws into the narrow part of the **mounting holes (09)**.



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. Ambient Conditions

- The device can be used only indoors.
- The maximum ambient temperature $t_a = 40\text{ °C}$ must never be exceeded.
- The relative humidity must not exceed 50 % with an ambient temperature of 40 °C.

5.3. Start-up

You can power the device in 2 ways:

- 3 AA LR6 batteries
- USB-C cable with the AC/DC adapter and the correct interchangeable plug for your region

5.3.1. Switch ON the Device with Battery Power

To use the device on battery power, the device needs 3 x AA LR6 (alkaline) batteries. Batteries are not included.

- 01) Loosen the **battery compartment screw (08)**.
- 02) Remove the **battery compartment cover (10)**.
- 03) Insert the batteries. Make sure that you install the batteries with the correct polarity orientation.
- 04) Place the **battery compartment cover (10)** back.
- 05) Tighten the **battery compartment screw (08)**.
- 06) Use the **power switch (11)**.
 - Switch the **power switch (11)** to the ON position to turn on the device.
 - Switch the **power switch (11)** to the OFF position to turn off the device.

Note:

Turn off the device when the device is not in use to prevent the battery life from decreasing.

5.3.2. Switch ON the Device with AC Power

- 01) Select the correct plug for your region.
- 02) Mount the plug on the adapter.
- 03) Connect the USB-A end of the power cable to the adapter.
- 04) Connect the USB-C end of the power cable to the **USB-C power connector IN (13)**.

5.4. DMX Connection

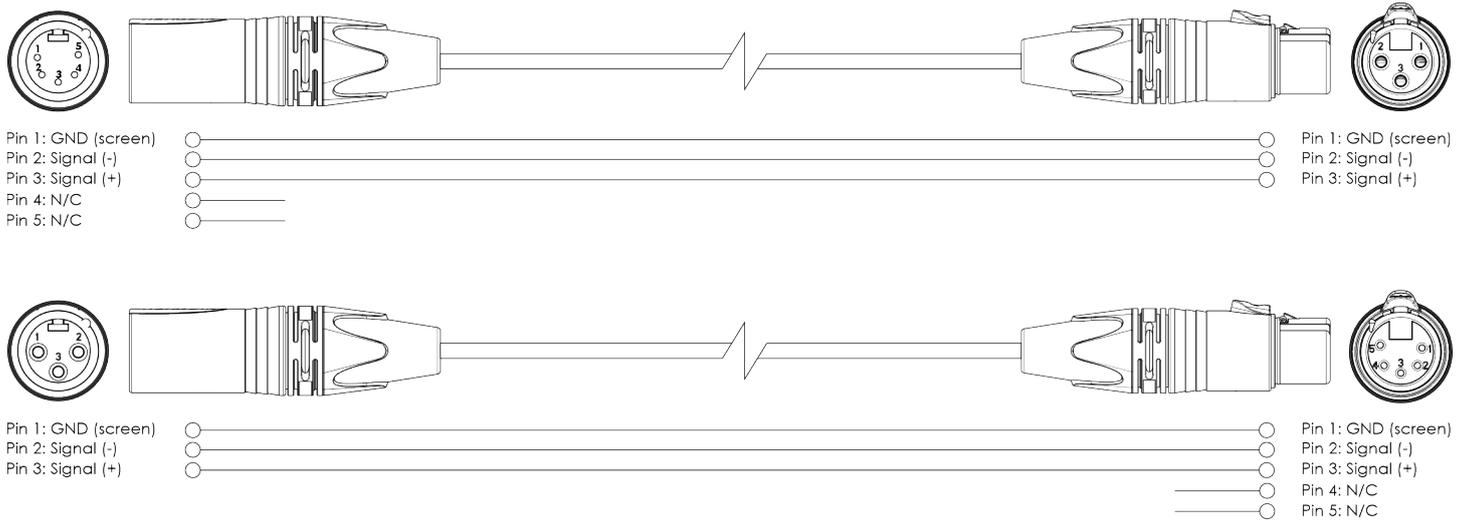
5.4.1. DMX Cables

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 the figure below.

Figure 9

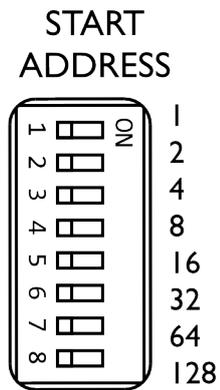


5.4.2. Set the DMX Starting Addressing

You can change the DMX starting address of the device with the DIP switch. The DMX starting address can be set from 0–255.

- 01) Decide the number you need.
- 02) Set the switch to ON for the highest number that is lower than your number.
- 03) Set the switch to ON for the highest number that is lower than the number that you still need.
- 04) Repeat step 3 until you reach your number.

Figure 10



For example

- 01) The number you need is, for example, 231.
- 02) Set **128 (switch 8)** to ON. $231 - 128 = 103$.
- 03) Set **64 (switch 7)** to ON. $103 - 64 = 39$.
- 04) Set **32 (switch 6)** to ON. $39 - 32 = 7$.
- 05) Set **4 (switch 3)** to ON. $7 - 4 = 3$.
- 06) Set **2 (switch 2)** to ON. $3 - 2 = 1$.
- 07) Set **1 (switch 1)** to ON. $1 - 1 = 0$. The DMX starting address is now 231.

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 use as a DMX controller. It is suitable only for indoor installation.

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

6.2. Control Panel

- Use the **faders (01)** to adjust the DMX values (0–255).
- Use the **rotary master knob (02)** to control the overall DMX output (OFF–Full).
- Use the **rotary fade knob (03)** to control the fade time (0 s–10 s).
- In program mode, use the **push buttons (06)** to program a scene.
- In play mode, use the **push buttons (06)** to play a programmed scene.
- In manual mode, use the **push buttons (06)** to flash a DMX channel output.

The Integrated LED indicators in the **push buttons (06)** have different settings:

- OFF: The push button is not programmed
- ON: The push button is programmed
- Blinking: The push button is programmed and currently playing

The mode LED indicator:

- OFF: Manual mode
- Blue ON: Play mode
- Blue blinking: Program mode
- Blue/red blinking: Test mode
- Red ON: The battery is running low

6.3. Control Modes

The Easy 6 3-pin DMX supports the following control modes:

- Program: Program a scene (see [6.3.1. Program Mode](#))
- Play: Play back the programmed scenes. (see [6.3.2. Play Mode](#))
- Manual: Operate the device manually

Use the **Mode Switch (04)** to select a mode.

6.3.1. Program Mode

6.3.1.1. Program a Scene

- 01) Use the **faders (01)** and the **rotary master knob (02)** to create the scene you want to save.
- 02) Press one of the 6 **push buttons (06)** to store the scene. The LED indicator on the button turns on.

6.3.1.2. Delete a Scene

- 01) Press and hold down a programmed push button until the LED indicator turns off.

Note:

If a LED indicator is blinking, the scene is active. You cannot delete an active scene. Use play mode to turn off the scene before you delete it.

6.3.2. Play Mode

6.3.2.1. Playback a Programmed Scene

- 01) Press a programmed push button to play a programmed scene. The LED indicator on the push button blinks.
- 02) Use the **faders (06)** to manually override the output.

6.3.3. Test Mode

When the DMX starting address is set to 0, the device is in test mode. In test mode, the DMX output is a chase of channel 1–6, until you turn off test mode.

To turn off test mode:

- 01) Set the DMX starting address (see [5.4.2. Set the DMX Starting Addressing](#) on page 13).

6.4. Factory Reset

You can delete all the programmed scenes with a factory reset.

- 01) Unplug the USB-C cable.
- 02) Press and hold the first 3 push buttons. Keep holding the push buttons during the next steps.
- 03) Plug the USB-C cable again.
- 04) Release the push buttons. All the programmed scenes are deleted.

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	No power to the device	<ul style="list-style-type: none"> • Check if power is switched on • Check if the USB cable is correctly connected • Replace the USB cable
	The device is not correctly connected	<ul style="list-style-type: none"> • Check if the cables are correctly connected • Replace the cables
No DMX data transfer	Bad data link connection	<ul style="list-style-type: none"> • Examine connections and cables. Correct poor connections. Repair or replace damaged cables
	The signal is reversed. The 3-pin DMX OUT of the controller does not match the DMX IN of the device	<ul style="list-style-type: none"> • Install a phase-reversing cable between the controller and the device

8. Maintenance

8.1. Preventive Maintenance



Attention
Before use, examine the device visually for any defects.

Make sure that:

- The housing is not damaged.
- The power cable is not damaged and does not show any material fatigue.
- The terminals of the battery do not show signs of corrosion.
- The battery is not leaking.
- The casing of the battery is not damaged.

8.1.1. Basic Cleaning Instructions

To clean the device, follow the steps below:

- 01) Disconnect the device from the electrical power supply.
- 02) Clean the device with a soft, lint-free 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.

9. Deinstallation, Transportation and Storage

9.1. Instructions for Deinstallation



WARNING

Incorrect deinstallation can cause serious injuries and damage of property.

- 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. (see [8.1.1. Basic Cleaning Instructions](#) on page 16)
- Store the device in the original packaging, if possible.
- Remove the batteries before storing.

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



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

