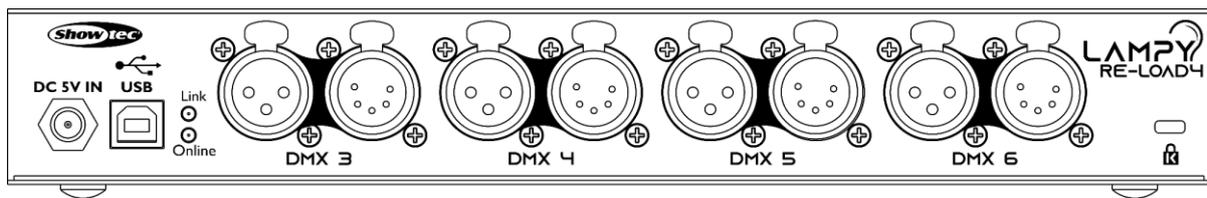




USER MANUAL



ENGLISH

LAMPY Re-Load 4

V1

Product code: 50744

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.

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1. Introduction

1.1. Before Using the Product



Important

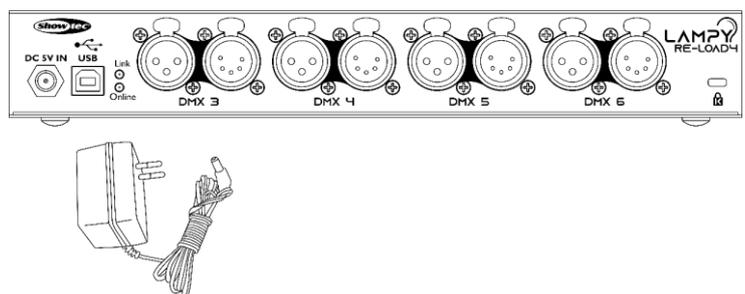
Read and follow the instructions in this user manual before installing, operating or servicing this product.

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 LAMPY Re-Load 4
- AC power adapter (1,1 m)
- User manual



Mounting kit:

- Long mounting bracket
- 2 x short mounting bracket
- 12 x mounting screw for a 19-inch rack

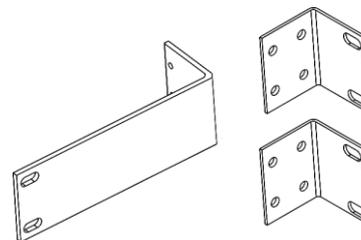


Fig. 01

1.2. Intended Use

This device is intended for use as a DMX extension kit. This device is not suitable for households.

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. 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**", "press the **power switch (03)**"
- 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 an imminently 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 bottom plate of the device.

The information label contains the following symbols:



This device shall not be treated as household waste.



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



This device is designed for indoor use.



This device falls under IEC protection class III.

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.



Attention
Incorrect handling of the AC power adapter may result in hazardous situations

This device is delivered with an AC power adapter. Incorrect handling of the AC power adapter may result in hazardous situations.

- Use only the AC power adapter delivered with the device.
- Do not wrap the power cable around the power adapter or any other object. This can damage the internal wires.
- Do not cover the power adapter with anything when it is plugged into the socket-outlet. This may cause overheating.
- Do not expose the power adapter to water or other liquids.

Do not use the power adapter:

- If it shows signs of overheating, for example the plastic is damaged
- If the AC input pins show signs of corrosion or overheating
- If the power cable is damaged or shows signs of material fatigue.



Attention
Power supply

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.



Attention **General safety**

- 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 correctly, discontinue the use immediately.



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

This device is designed to be used as a DMX extension kit. This device is not suitable for households.

Any incorrect use may lead to hazardous situations and result in injuries and material damage.

- This device is not suitable for households.
- 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. Maintenance and installation may be carried 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 service 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 service 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 LAMPY Re-Load 4 is a plug-and-play DMX extension kit that releases 4 additional universes on any LAMPY console (in total 2048 additional channels). It has both 3-pin and 5-pin DMX output connectors for each additional universe. The device can be mounted on a 19-inch rack. The power supply input is fitted with a lockable DC plug.

3.1. Front View

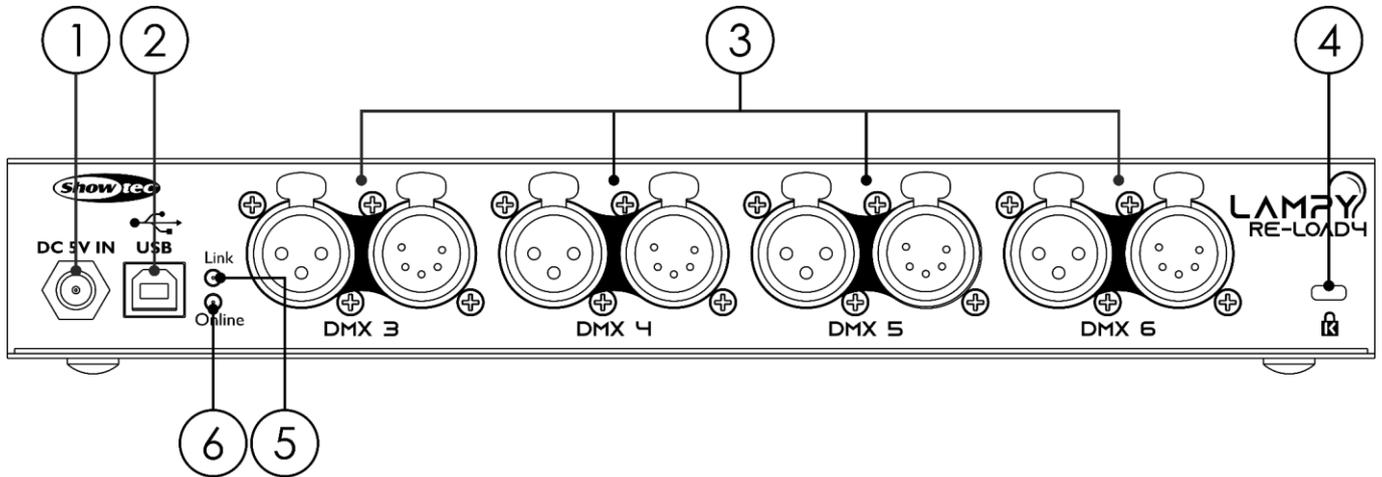


Fig. 02

- 01) 5 V DC power connector IN
- 02) USB B connector IN
- 03) 4 x 3-pin/5-pin DMX connector OUT (outputs 3–6)
- 04) Kensington lock port
- 05) Link LED indicator
- 06) Online LED indicator

3.2. Product Specifications

Model:	LAMPY Re-Load 4
Electrical:	
Input voltage:	5 V DC
Power consumption:	5 W
AC power adapter:	
Input voltage:	100–240 V AC, 50/60 Hz
Output voltage:	5 V DC
Physical:	
Dimensions:	279 x 72 x 44,5 mm (L x W x H), 1U
Weight:	0,3 kg
Connections:	
Power connection:	5 V DC power connector IN
Output connections:	4 x 3-pin DMX connector OUT 4 x 5-pin DMX connector OUT
Data connections:	USB B connector IN
Operation and control:	
Control mode:	DMX
DMX channels:	2048
Universes:	4
Construction:	
Housing:	Metal
Color:	Black
IP rating:	IP20
Thermal:	
Maximum ambient temperature t_a :	40 °C
Minimum ambient temperature t_a :	0 °C
Minimum ambient temperature:	-5 °C

3.3. Compatibility

The device does not function when it is not connected to a LAMPY console.

The device is compatible with the following LAMPY consoles:

- [50740](#) (LAMPY 20 1U, 1 universe and 20 faders)
- [50741](#) (LAMPY 20 2U, 2 universes and 20 faders)
- [50742](#) (LAMPY 40 1U, 1 universe and 40 faders)
- [50743](#) (LAMPY 40 2U, 2 universes and 40 faders)

3.4. Dimensions

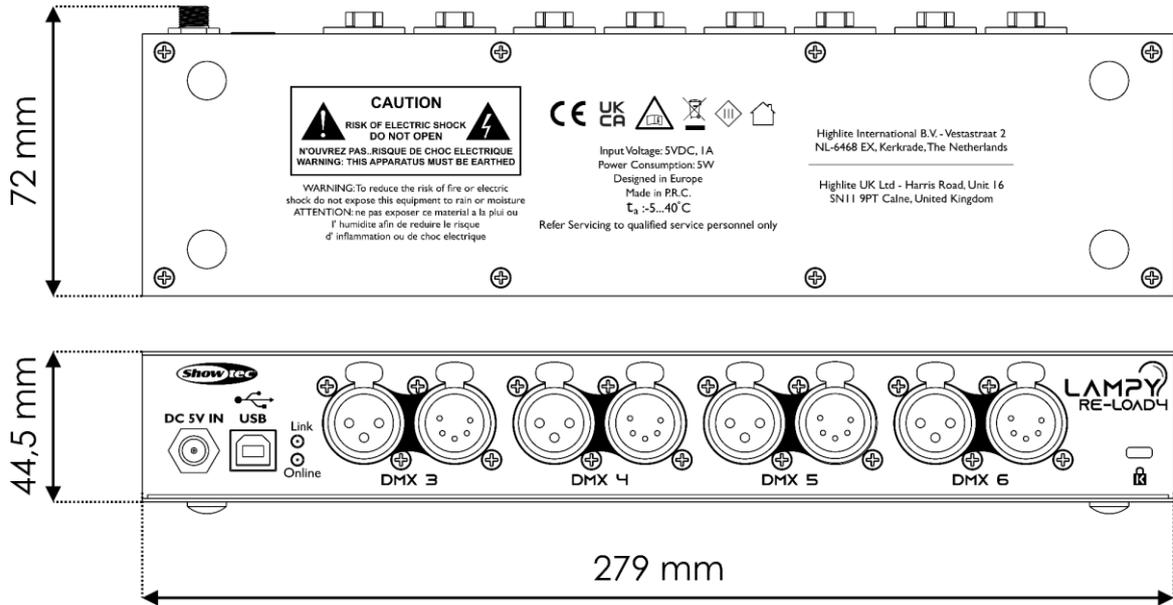


Fig. 03

4. Installation

4.1. Safety Instructions for Installation



Attention
Make sure there is enough space for ventilation around the device.

Without proper heat dissipation and air circulation, the internal components may overheat. This can result in product damage.

Do not install near equipment that produces heat, for example amplifiers.

4.2. Installation Site Requirements

- The device must be installed 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 .

4.3. Installation

The device can be put on a stable, flat surface, it can be mounted in a standard 19-inch rack or in a flight case (recessed mounting).

The device is supplied with a mounting kit.

To mount the device, you need a Phillips screwdriver.

4.3.1. Rack Mounting

The device requires 1 rack unit (U) of space, which is 44,45 mm high. Make sure that the rack is sufficiently secured to prevent it from becoming unstable or falling over.

To mount the device in a two-post rack, follow the steps below:

- 01) Attach the long and short mounting brackets to the device.
- 02) Insert 4 cage nuts in the openings on the rack posts where you want to mount the device.
- 03) Position the device in front of the rack posts so that the 4 x mounting openings on the mounting brackets face the openings on the rack posts with cage nuts.
- 04) Use the screwdriver to mount the device on the rack posts with 4 screws.

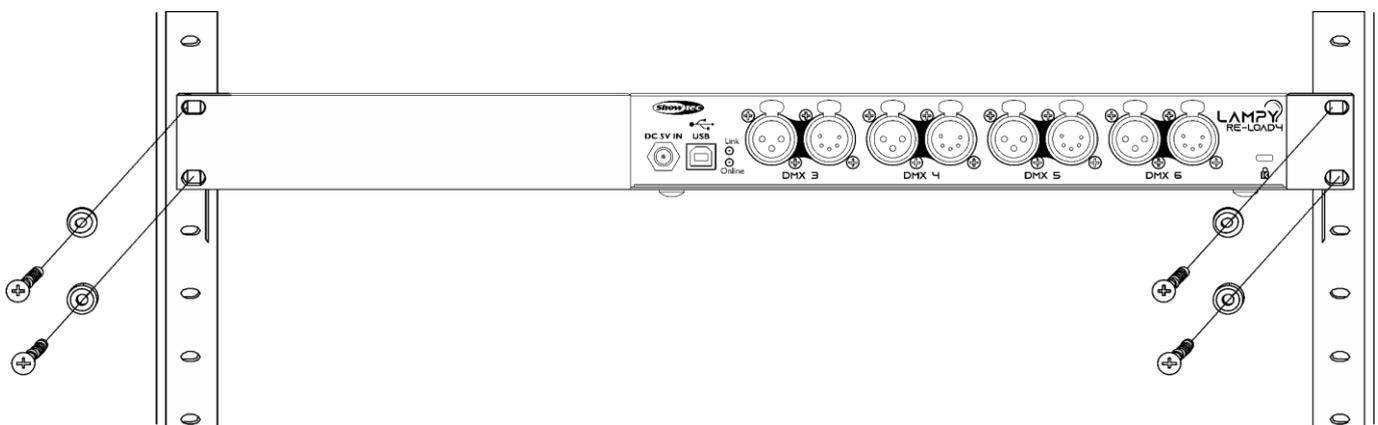


Fig. 04

4.3.2. Recessed Mounting

The mounting brackets can be attached to the device in 2 orientations. It is useful when it is not possible to mount the device in a two-post rack and, for example, it needs to be mounted in a flight case.

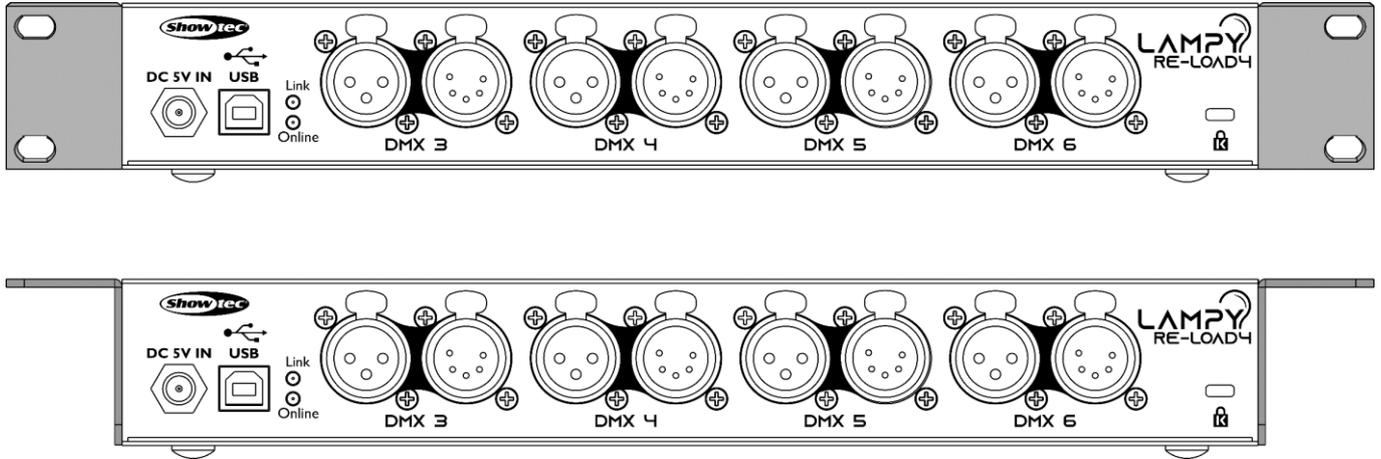


Fig. 05

To mount the device in a flight case:

- 01) Attach the short mounting brackets to the device.
- 02) Drill mounting openings in the flight case.
- 03) Insert 4 cage nuts in the mounting openings.
- 04) Position the device so that the 4 mounting openings on the mounting brackets face the mounting openings in the flight case.
- 05) Use the screwdriver to mount the device with 4 screws.

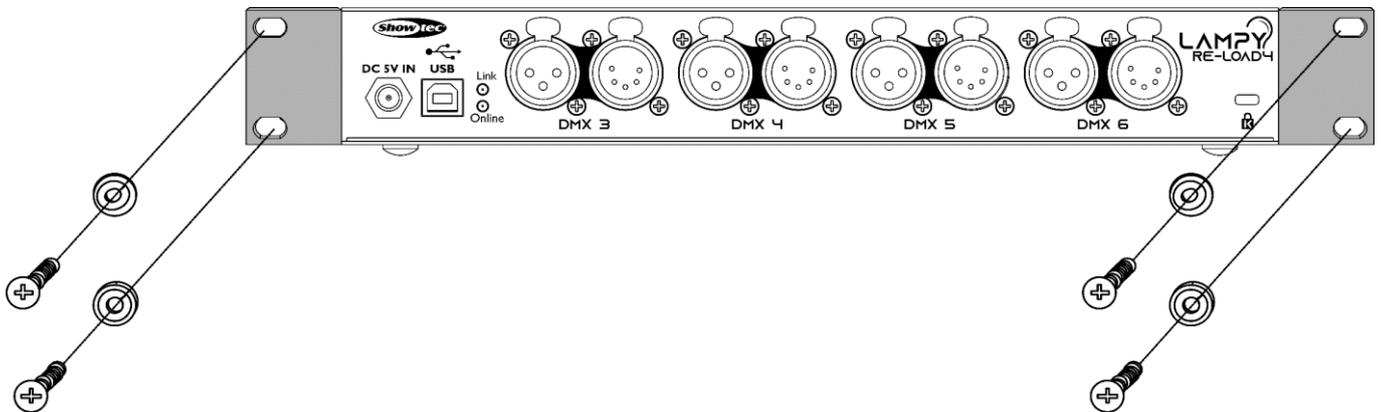


Fig. 06

5. Setup and Operation

5.1. Warnings and Precautions



Attention

Connect all data cables before supplying power.

Disconnect power supply before connecting or disconnecting data cables.

5.2. Setup Example

A typical setup with the device used as a DMX extension kit:

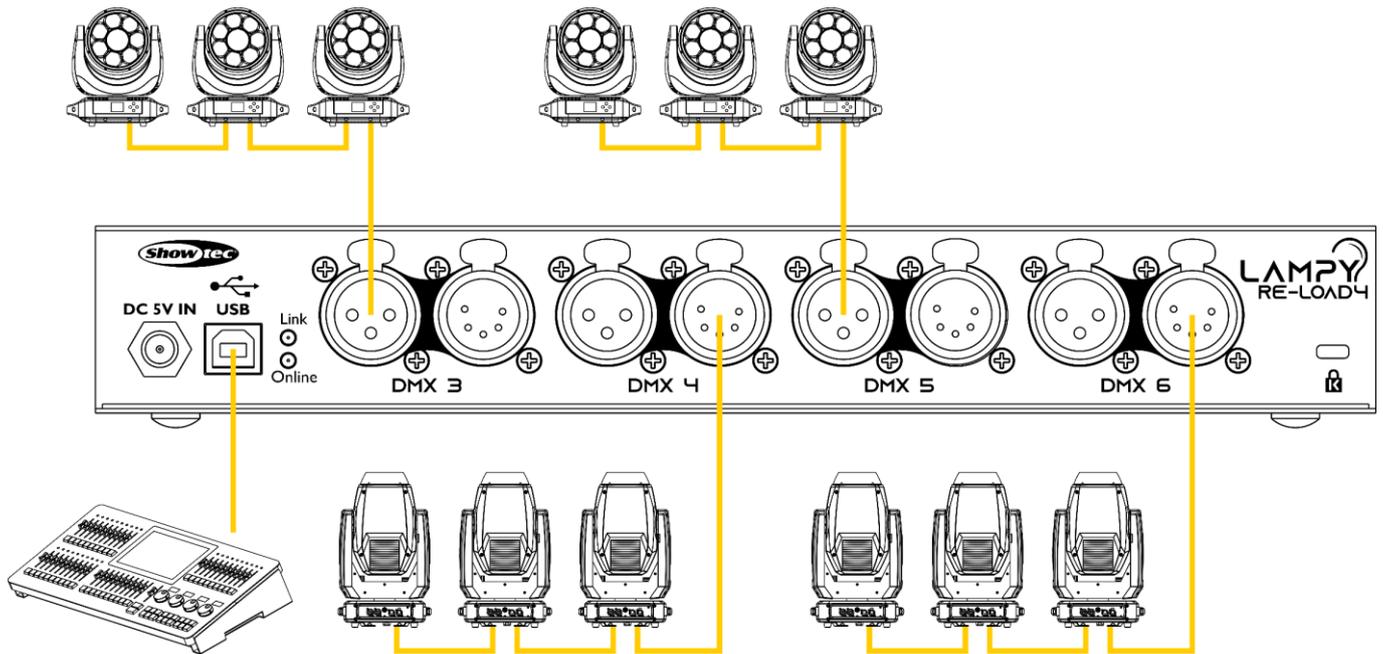


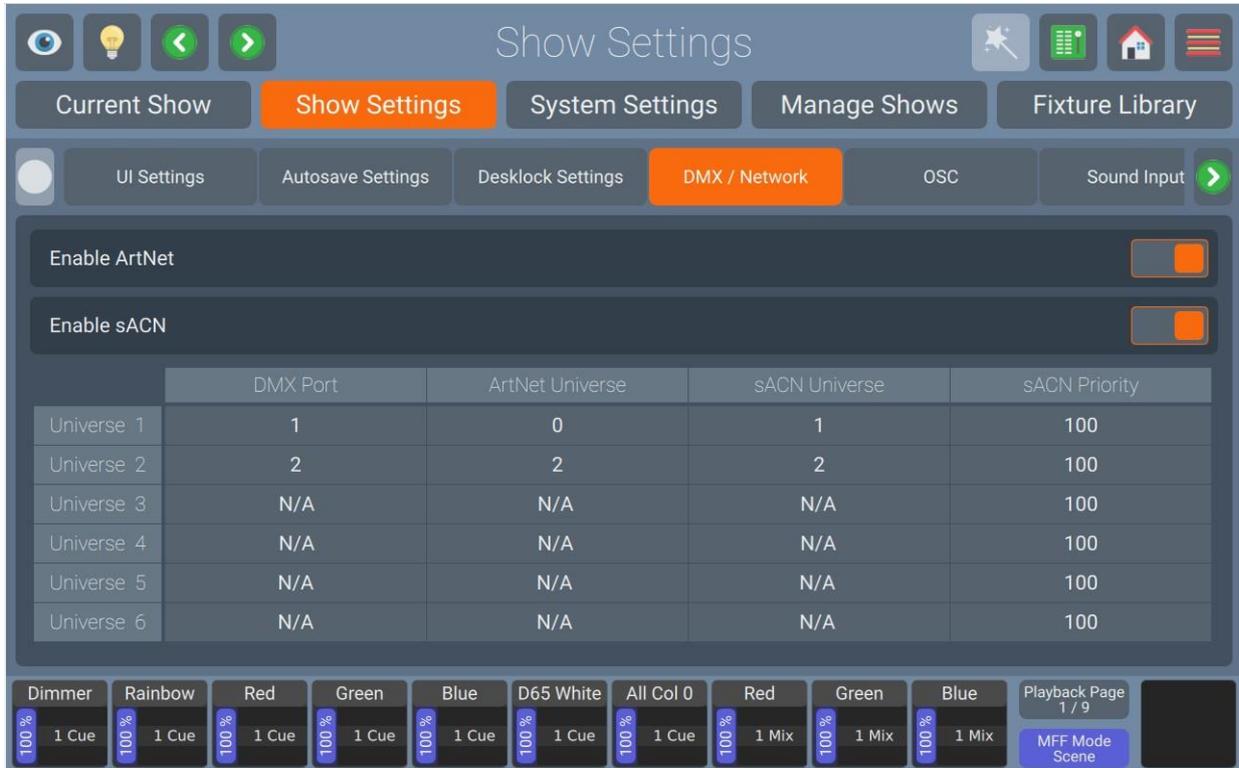
Fig. 07

5.3. Connecting to the LAMPY Console

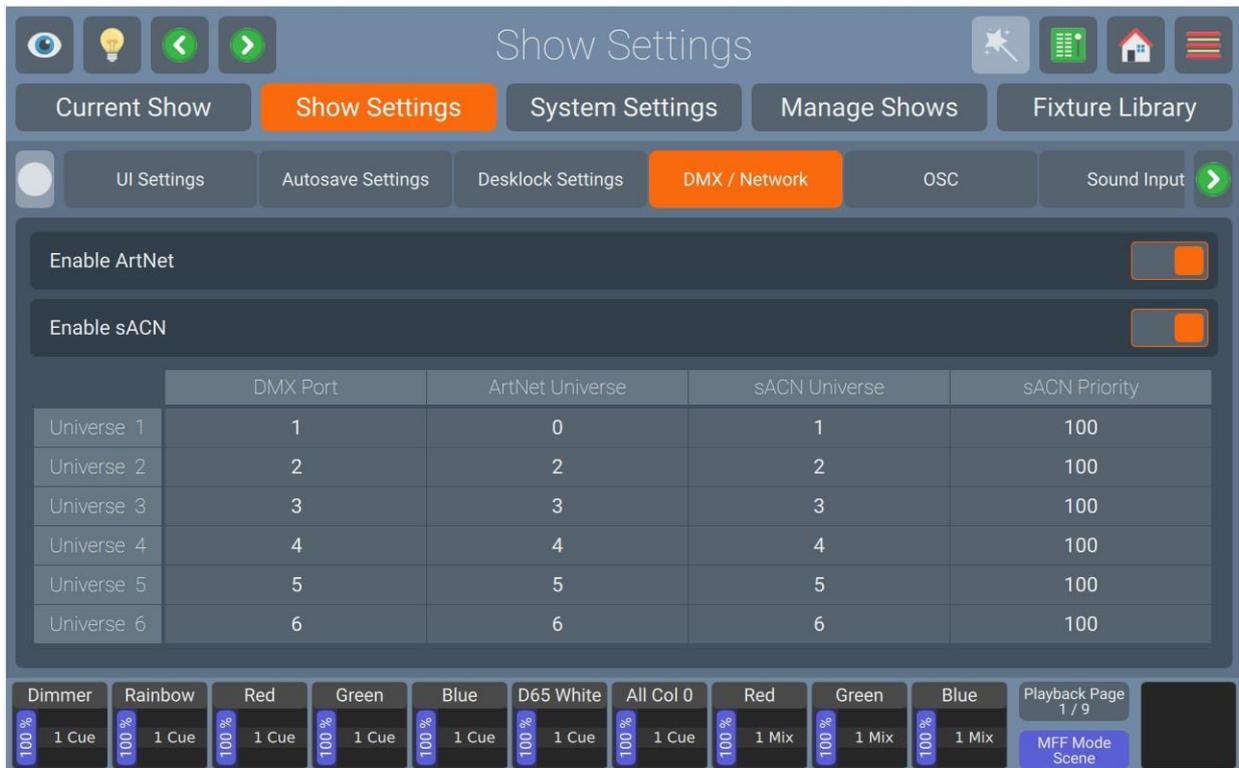
The software version of the LAMPY console must be 2.0 or higher for the device to work.

Use a USB cable to connect the **USB B connector IN (02)** with the USB connector of a LAMPY console.

When the device is not connected to the LAMPY console, the display of the LAMPY console shows:



When the device is connected to the LAMPY console, it becomes automatically detected and the DMX universes 3–6 become active. The display of the LAMPY console shows:



5.4. Connecting Stage Effects to the Device

5.4.1. DMX-512 Protocol

DMX-512 is a communication protocol used to control stage lighting and effects.

Devices on a serial data link must be daisy-chained in a single line. To comply with the TIA-485 standard, no more than 32 devices should be connected on one data link.

5.4.2. DMX Cables

Shielded twisted-pair cables with 3-pin/5-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. 08.

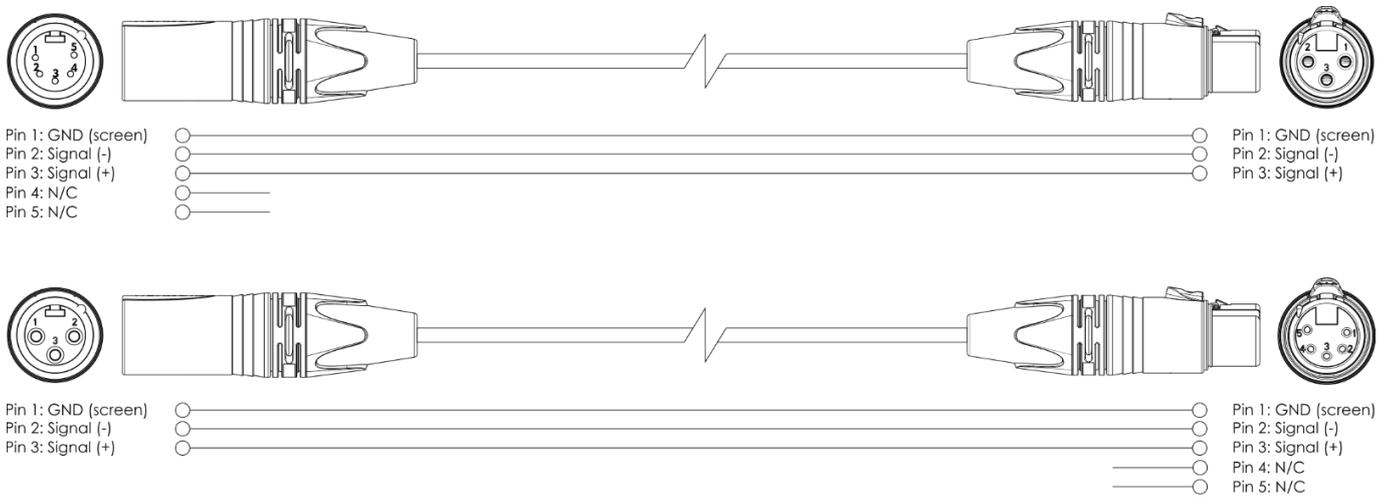


Fig. 08

5.5. Connecting to Power Supply

This device is delivered with an AC power adapter. Before connecting the AC power adapter to the socket-outlet, make sure that the power supply matches the input voltage specified on the information label on the AC power adapter.

To turn the device on, follow the steps below:

- 01) Connect the AC power adapter to the device. Use only the AC power adapter delivered with the device.
- 02) Turn the metal ring around the power plug clockwise to secure the power plug in position. If you do not do this, the plug will not fully enter the housing and the device will not turn on.
- 03) Connect the AC power adapter to the socket-outlet.

6. 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	The metal ring around the power plug is loose	<ul style="list-style-type: none"> Tighten the metal ring around the power plug
The device does not appear on the list of available devices on the display of the LAMPY console	The device is not properly connected to the LAMPY console	<ul style="list-style-type: none"> Make sure that the USB cable is properly connected to the LAMPY console Replace the USB cable
	The software version of the LAMPY console is lower than 2.0	<ul style="list-style-type: none"> Install the newest software version on the LAMPY console

7. Maintenance

7.1. Preventive Maintenance



Attention

Before 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.
- There are no deformations on housings, fixations and installation points.
- The power cables are not damaged and do not show any material fatigue.

7.1.1. Basic Cleaning Instructions

To clean the device, follow the steps below:

- 01) Disconnect the device from the electrical power supply.
- 02) Remove the dust collected on the external surface with a soft brush.



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.

7.2. Corrective Maintenance

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

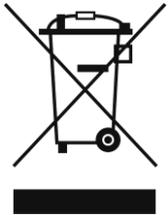
Refer repairs and servicing to instructed or skilled persons. Contact your Highlite International dealer for more information.

8. Deinstallation, Transportation and Storage

- Disconnect power supply before deinstallation.
- Use the original packaging to transport the device, if possible.
- Clean the device before storing. Follow the cleaning instructions in chapter 7.1.1. **Basic Cleaning Instructions** on page 15.
- Store the device in the original packaging, if possible.

9. 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.

10. Approval



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



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