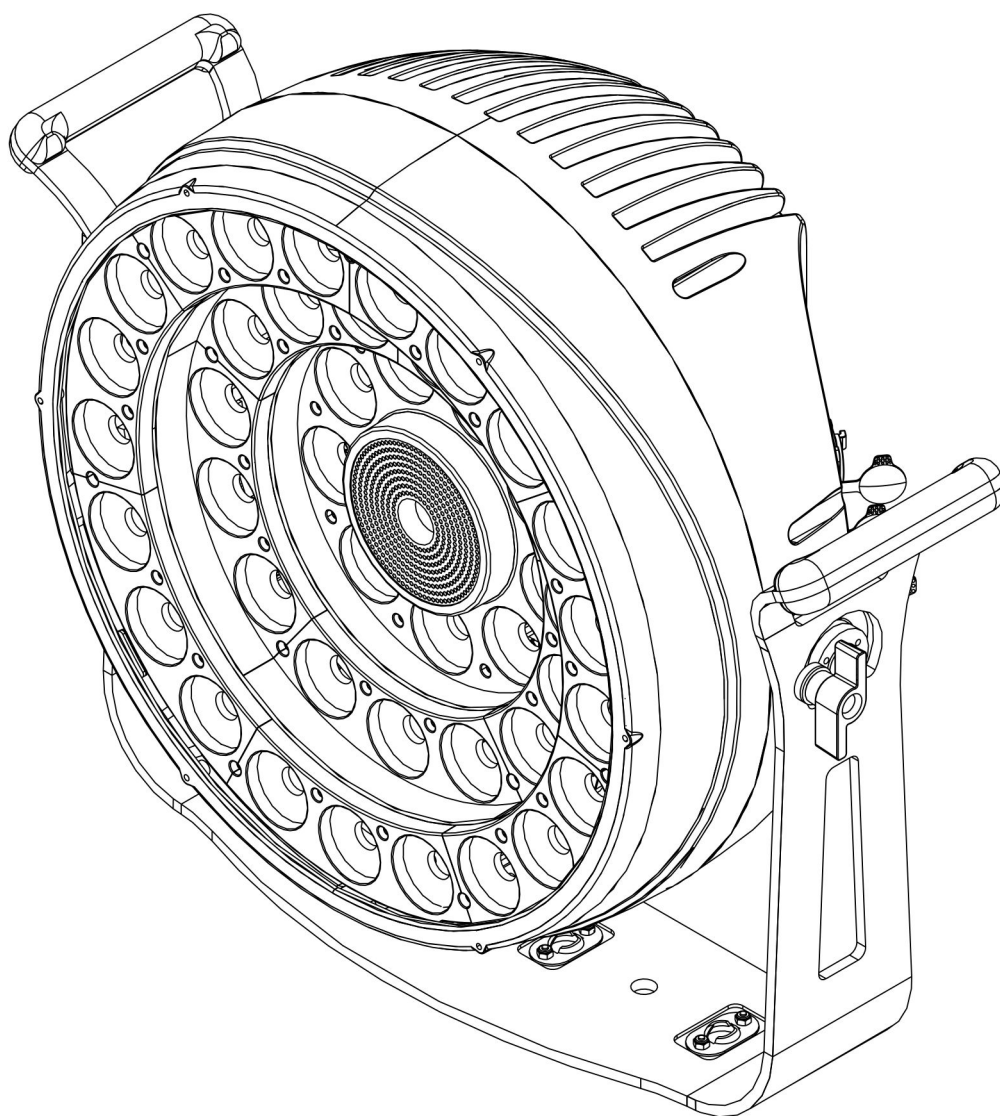




Lumina Beam

Product code: 43328

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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Highlite International B.V. – Vestastraat 2 – 6468 EX Kerkrade – the Netherlands

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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 Lumina Beam
- 2 x Quick-lock bracket
- 1 x Schuko to Power Pro True 1 cable (1,5 m)
- User manual

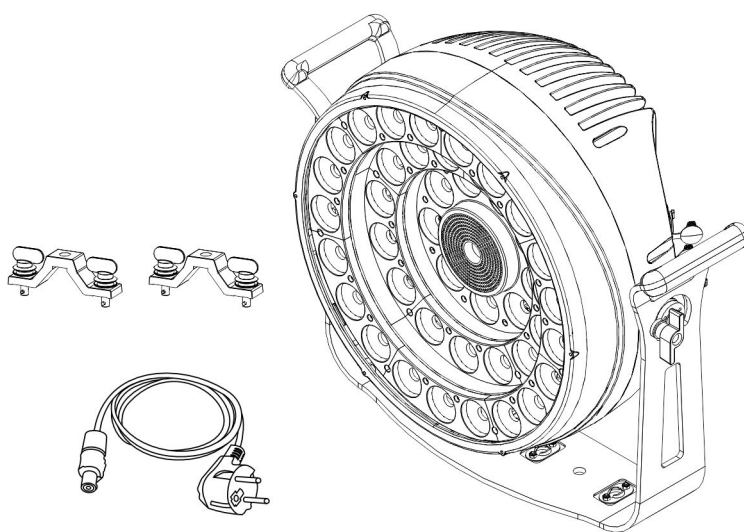


Figure 1

1.2. Intended Use

This device is intended for professional use as an LED luminaire. It can be installed only indoors. 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. 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.

1.4. 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 wear and improve the lifespan of the device.

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 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

1.6. 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.



Attention

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



Important

Read and observe the instructions in this document.



Electrical 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 back side of the device.

The information label contains the following symbols:



This device shall not be treated as household waste.



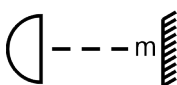
Read and follow the instructions in the user manual before installing, operating or servicing the device.



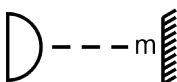
This device falls under IEC protection class I.

IP65

This device is rated IP65.



Minimum distance from lighted objects



Minimum distance from other objects

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.

**DANGER**

Electric shock caused by dangerous voltage inside

There are areas inside 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 the 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 a ground (earth) connection.
- Do not cover the ground (earth) connection.
- Do not bypass the thermostatic switch or fuses.
- 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.
- Keep the connectors sealed with the rubber caps when the connectors are not in use.
- Do not connect the cables from above the connectors, if the device is installed outdoors. Make a 'drip loop' in the cable so that rain water cannot enter the device.



WARNING
Risk of epileptic shock

Strobe lighting can trigger seizures in photosensitive epilepsy. Sensitive persons should avoid looking at strobe lights.



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 connect the device to a dimmer pack.
- Do not switch the device on and off in short intervals. This reduces the device's life.
- Do not shake the device. Avoid brute force when installing or operating the device.
- Change the lens or the LEDs if they are visibly damaged to such an extent that their effectiveness is impaired, for example by cracks or deep scratches. Contact your Highlite International dealer for more information, as servicing can be performed only by instructed or skilled persons.
- 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
For professional use only
This device must be used only for the purposes it is designed for.

This device is intended for professional use as an LED luminaire. 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, fixings and installation points.
- The lens is 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 IP65 rated. IP (Ingress Protection) 65 class means that the device is dust-tight and protected against harmful effect of water jets.

Keep the connectors sealed with the rubber caps when the connectors are not in use.

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

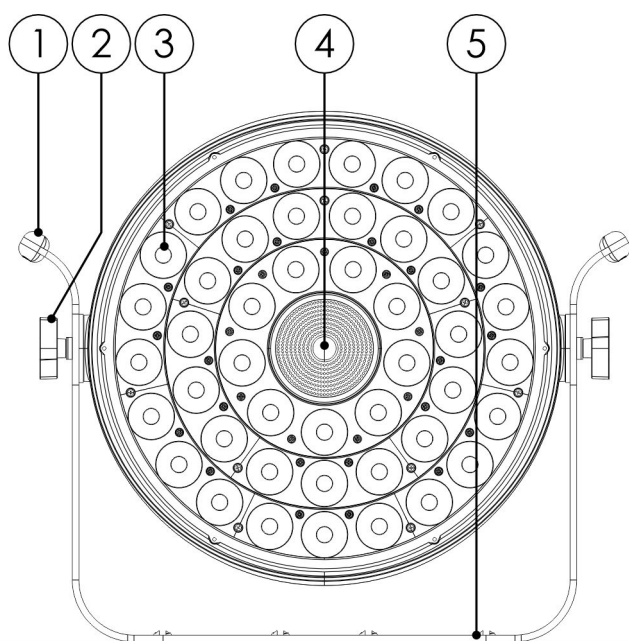
The Showtec Lumina Beam is a powerful outdoor beam blinder designed for dynamic effects and creative lighting. At its core, a 60 W RGBW LED delivers a sharp 4,5° beam angle for intense, focused output. Surrounding the centre LED are 45 RGBW LEDs (15 W each), all pixel-controlled for stunning multi-layered effects and endless design possibilities.

With an IP65-rated housing, the Lumina Beam is built for all-weather reliability. Control options include Art-Net, DMX/RDM, Auto, and Manual modes, with up to 199 DMX channels for advanced programming. Thanks to RDM, you can remotely change the DMX address and switch DMX modes without physical access. The fixture also features 4 selectable dimming curves, Power Pro True connectors, and 5-pin DMX connections for secure and professional setups. High-frequency PWM (1–12 kHz) ensures flicker-free performance for broadcast and camera applications.

A range of optional accessories is available to soften the LED appearance, modify the beam look, or create distinctive patterns for a vintage or Goliath-style appearance.

3.1. Front View

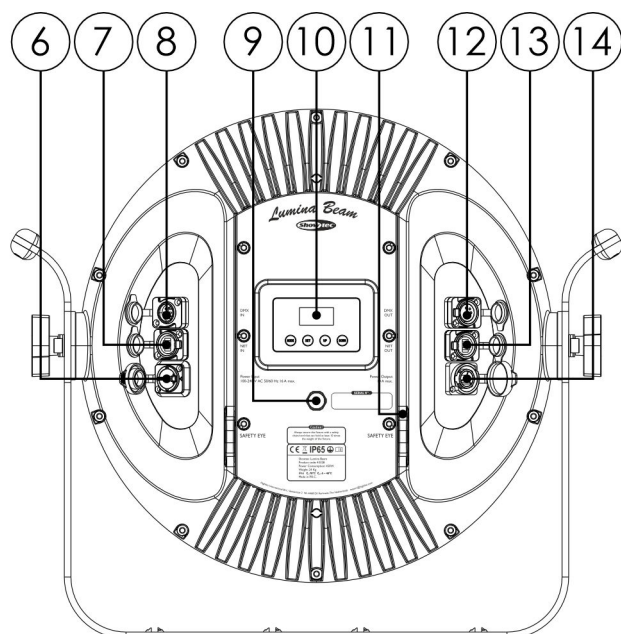
Figure 2



- 01) 2 x Carrying handle
- 02) 2 x Angle adjustment screws
- 03) 45 x 15 W RGBW background LEDs
- 04) 60 W RGBW main LED
- 05) 4 x mounting holes for 2 quick-lock brackets

3.2. Back View

Figure 3



- 06) IP65-rated Seetronic power connector IN
- 07) IP65-rated RJ45 connector
- 08) IP65-rated Seetronic 5-pin DMX signal connector IN
- 09) Protective vent (M12x1,5)
- 10) Control panel: OLED screen and control buttons
- 11) Opening for a safety cable
- 12) IP65-rated Seetronic 5-pin DMX signal connector OUT
- 13) IP65-rated RJ45 connector
- 14) IP65-rated Seetronic power connector OUT

3.3. Product Specifications

Model:	Lumina Beam
Source:	
Light source type	LED
Light source quantity	46
Light source power	15 W
LED color type	RGBW
Life expectancy	20000 h
Refresh rate	1000 Hz
Refresh rate (max.)	12 kHz
Luminous flux (total)	14240 lm
Luminous flux (red)	4645 lm
Luminous flux (green)	10898 lm
Luminous flux (blue)	2420 lm
Luminous flux (white)	13271 lm
Optical:	
Beam angle (horizontal)	4,5°
Beam angle (vertical)	4,5°
Control and Programming:	
Control mode	Art-Net / Auto / DMX / Manual / RDM
DMX channels	8, 12, 27, 184, 199 channels
Protocols	DMX / RDM
Display	OLED
Fan mode	Yes
Dim curve	Linear / Square / I-Square / S-Curve
Dynamic Effects:	
Dimmer	0–100 %
Strobe	0–20 Hz
Electrical Specifications and Connections:	
Power supply	100–240 V AC 50/60 Hz
Power consumption	450 W
Power connector IN	Power Pro True
DMX connector	XLR 5P IN/OUT
DMX connector IN	XLR 5P
DMX connector OUT	XLR 5P
Data connector	RJ45 IN/OUT
Data connector IN	RJ45
Data connector OUT	RJ45
Mechanical Specifications:	
Length	265 mm
Width	555 mm
Height	481 mm
Weight	27 kg
IP rating	IP65
Material	Aluminium
Housing	Aluminium
Color	Black

Product Properties:

Cooling

Convection/axial fan

Thermal Specifications:

Maximum ambient temperature

40 °C

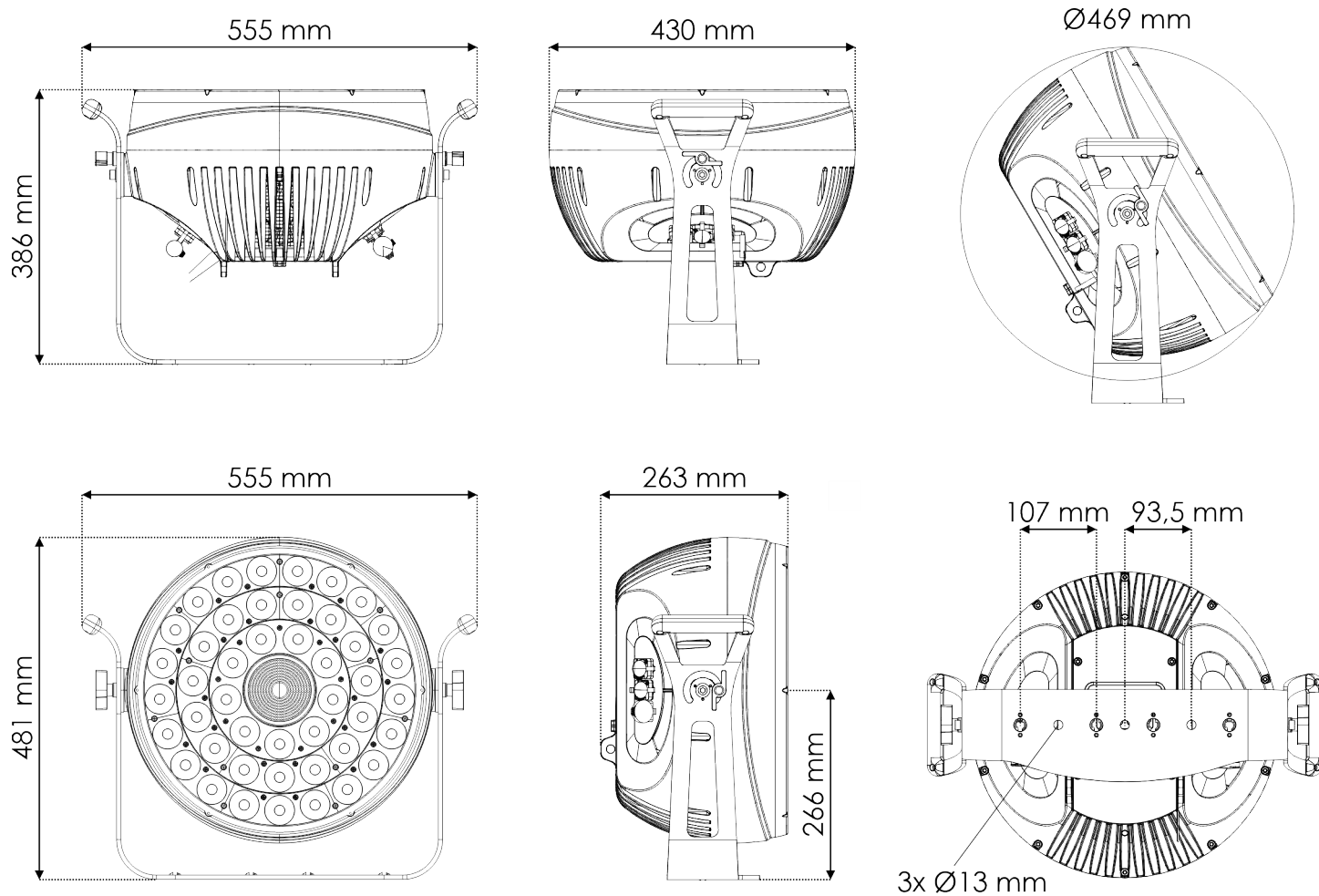
Maximum surface temperature

70 °C

Included Items:

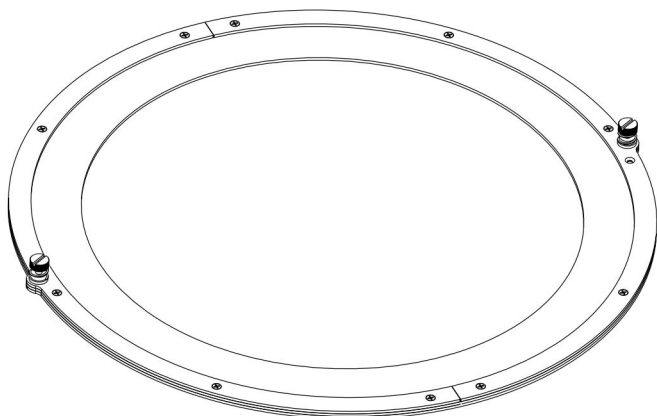
Included cables

Power Pro True cable

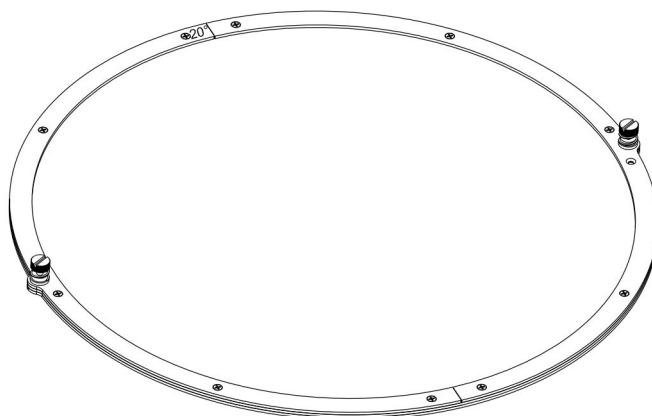
3.4. Dimensions**Figure 4**

3.5. Optional Accessories

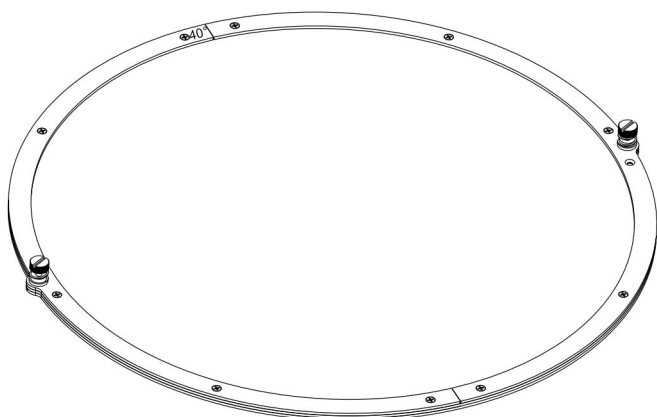
- Product code : [43340](#) (Ring diffusor for Lumina Sola/Beam)



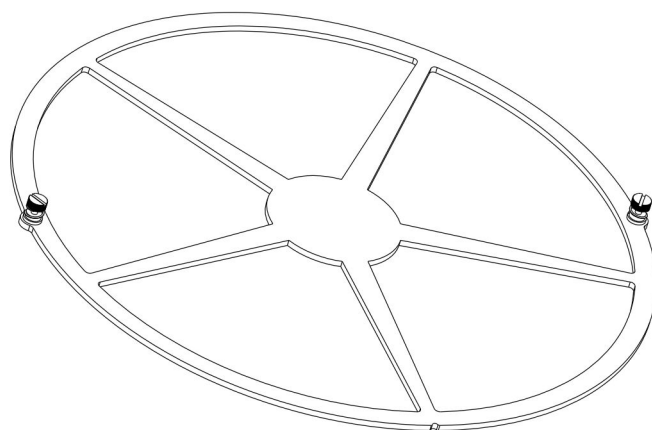
- Product code: [43341](#) (Beamshaper 20° for Lumina Sola/Beam)



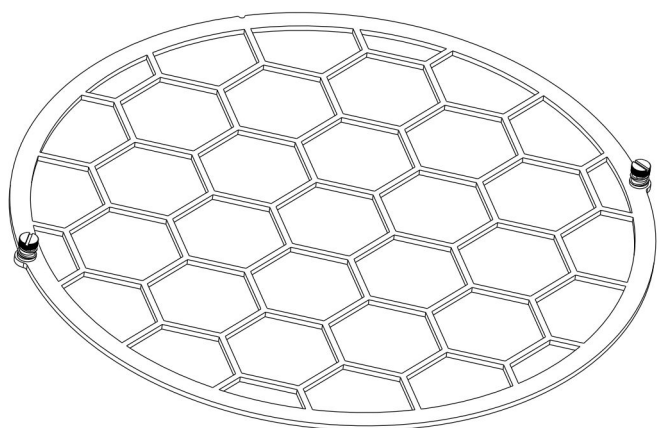
- Product code : [43342](#) (Beamshaper 40° for Lumina Sola/Beam)



- Product code: [43343](#) (Star-pattern for Lumina Sola/Beam)



- Product code : [43344](#) (Hexagon-pattern for Lumina Sola/Beam)



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

4.3. Installation Site Requirements

- The device can be used only indoors.
- The minimum distance between the light output and the illuminated surface must be bigger than 2 m.
- The minimum distance to other objects must be bigger than 0,5 m.
- The maximum ambient temperature $t_a = 40\text{ °C}$ must never be exceeded.

4.4. Rigging

The device can be positioned on a flat surface or mounted to a truss or other rigging structure in any orientation. Make sure that all loads are within the pre-determined limits of the supporting structure.



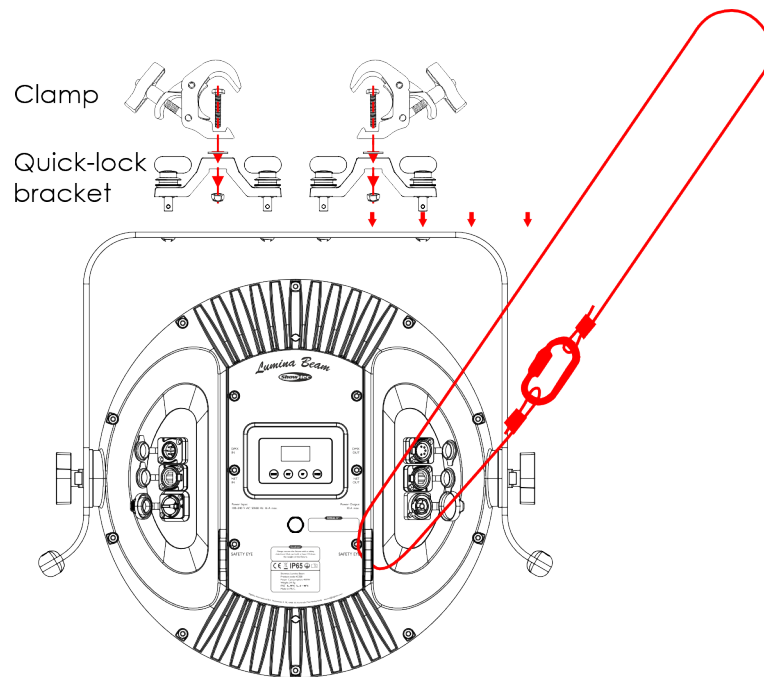
CAUTION

Restrict the access under the work area during rigging/derigging.

To mount the device, follow the steps below:

- 01) Fasten the quick-lock bracket, supplied with the device, on the **mounting holes for quick-lock bracket (05)**.
- 02) Install the clamp. Make sure that you use a clamp suitable for attaching the device to a truss.

Figure 5



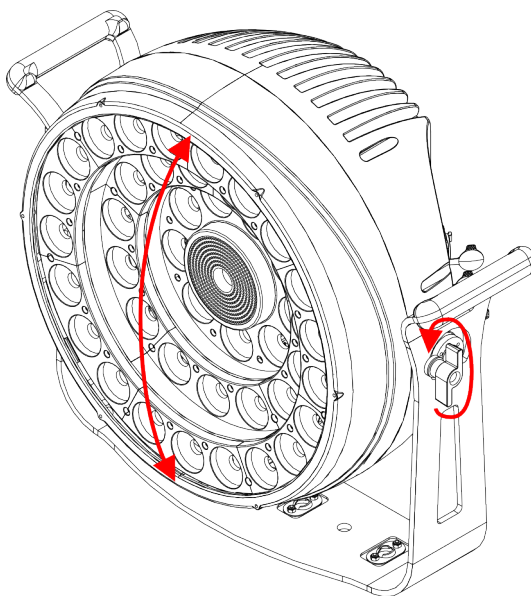
- 03) Attach the device to the supporting structure. Make sure that the device cannot move freely.
- 04) Secure the device with a secondary suspension, for example a safety cable. Make sure that the secondary suspension can hold 10 times the weight of the device. If possible, the secondary suspension should be attached to a supporting structure independent of the primary suspension. Put the safety cable through the **opening for a safety cable (11)**.

4.5. Angle Adjustment

You can adjust the angle of the device with the **2 angle adjustment screws (02)**. To adjust the angle, follow the steps below:

- 01) Turn the **2 angle adjustment screws (02)** counterclockwise to loosen them.
- 02) Tilt the device to the desired angle (see Fig. 06).
- 03) Turn the **2 angle adjustment screws (02)** clockwise to tighten them. Make sure that the device cannot move freely after the **2 angle adjustment screws (02)** are tightened.

Figure 6



4.6. Connecting to Power Supply



DANGER
Electric shock caused by short-circuit

The device accepts AC mains power at 100–240 V and 50/60 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 a 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: 2 devices Lumina Beam
- at 200–240 V: 4 devices Lumina Beam

5. Setup

5.1. Warnings and Precautions



DANGER
Electric shock caused by short-circuit

This device is IP65 rated.

- Do not expose the device to conditions that exceed the rated IP class conditions.
- Keep the connectors sealed with the rubber caps when the connectors are not in use.
- Do not connect the cables from above the connectors, if the device is installed outdoors. Make a 'drip loop' in the cable so that rain water cannot enter the device.
- Make sure that the cable run is not too heavy. A heavy cable run can cause damage to the connectors. If the connectors are damaged, their ingress protection (IP) can deteriorate.



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

5.2. Stand-alone Setup

When the Lumina Beam is not connected to a controller or to other devices, it functions as a stand-alone device. It can be operated manually via the control panel or in auto mode.

For more information refer to Control Modes (see [6.2. Control Modes](#) on page 24).

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 Lumina Beam has 5-pin DMX signal IN and OUT connectors.

The pin assignment is as follows: pin 1 (ground), pin 2 (-), pin 3 (+), pin 4 (N/C), pin 5 (N/C).

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

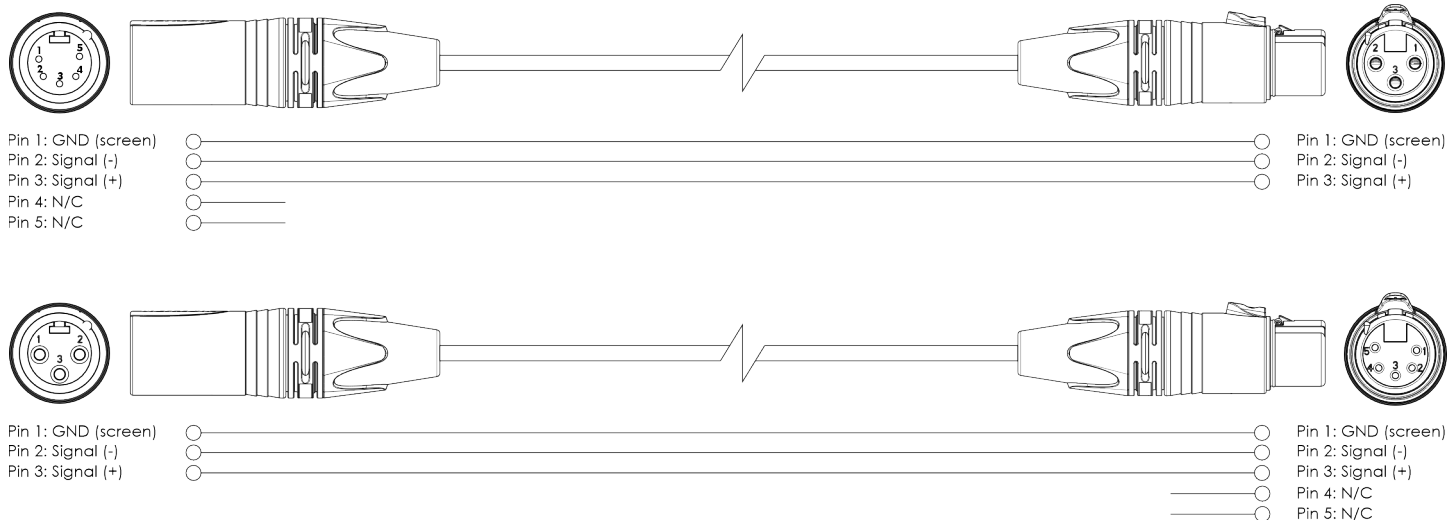
5.3.2. DMX Cables

Shielded twisted-pair cables with 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 the figure below.

Figure 7

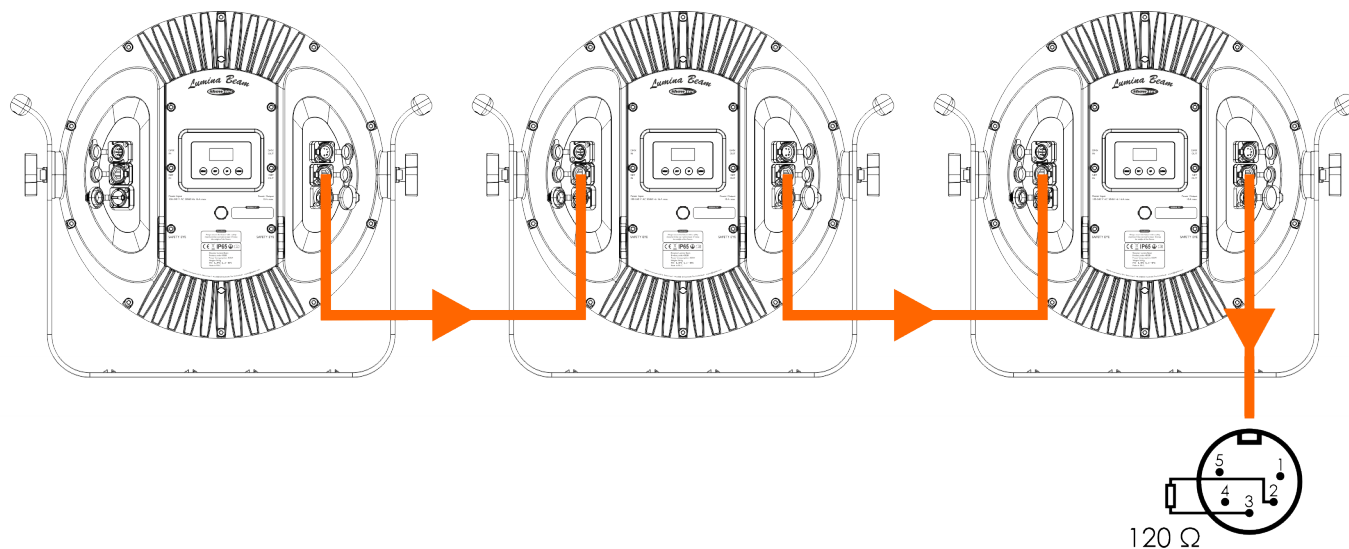


5.3.3. Master/Slave Setup

The Lumina Beam supports master/slave control mode. To connect multiple devices in a master/slave setup, follow the steps below:

- 01) Connect the DMX OUT connector of the 1st device to the DMX IN connector of the 2nd device with a 5-pin DMX cable.
- 02) Repeat step 1 to connect all devices in a daisy-chain.
- 03) Connect a DMX terminator (120 Ω resistor) to the DMX OUT connector of the last device on the data link.
- 04) Set the 1st device on the data link as a master device. Refer to Slave Mode (see [6.6.6. Slave](#) on page 33) for more information.
- 05) Select a slave setting for the other devices on the data link. Refer to Slave Mode (see [6.6.6. Slave](#) on page 33) for more information.

Figure 8

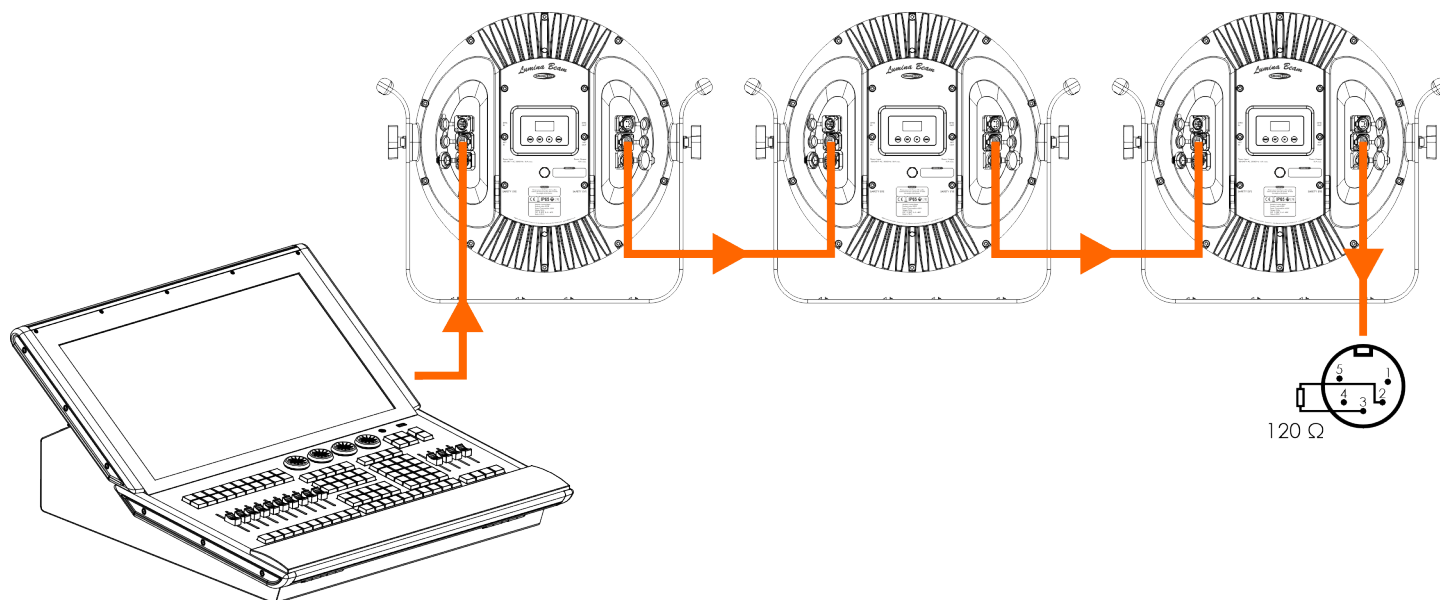


5.3.4. DMX Linking

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

- 01) Use a 5-pin DMX cable to connect the DMX OUT connector of the lighting controller to the DMX IN connector of the 1st device.
- 02) Connect the DMX OUT connector of the 1st device to the DMX IN connector of the 2nd device with a 5-pin DMX cable.
- 03) Repeat step 2 to connect all devices in a daisy-chain.
- 04) Connect a DMX terminator (120 Ω resistor) to the DMX OUT connector of the last device on the data link.

Figure 9



5.3.5. DMX Addressing

In a setup with multiple devices, make sure that you set the DMX starting address of each device correctly. The Lumina Beam has 5 personalities: 8, 12, 27, 184 and 199 channels.

If you want to connect multiple devices on one data link and use them in 27-channel mode, for example, follow the steps below:

- 01) Set the starting address of the 1st device on the data link to 1 (001).
- 02) Set the starting address of the 2nd device on the data link to 28 (028), as $1 + 27 = 28$.
- 03) Set the starting address of the 3rd device on the data link to 55 (055), as $28 + 27 = 55$.
- 04) Continue assigning the starting addresses of the remaining devices by adding each time 27 to the previous number.

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

5.4. Ethernet Connection

5.4.1. Art-Net/sACN Protocol

Art-Net is a protocol that uses TCP/IP to transfer a large amount of DMX-512 data over an Ethernet network. Art-Net 4 can support up to 32768 universes. Art-Net™ is designed by and copyright of Artistic Licence Holdings Ltd.

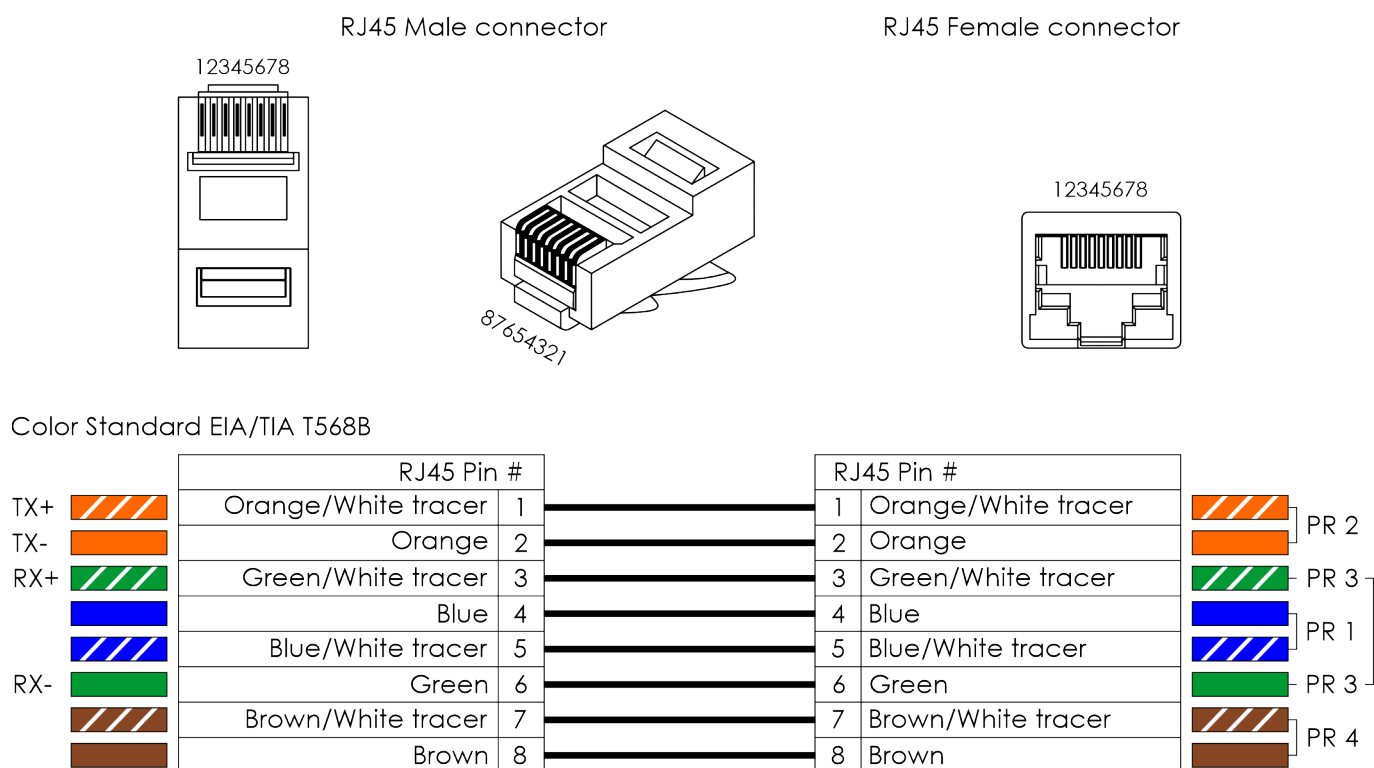
sACN (streaming Architecture for Control Networks), also known as ANSI E1.31, is a protocol developed by ESTA (Entertainment Services and Technology Association) for sending DMX-512 data over IP networks. It supports up to 63999 universes and uses multicasting.

5.4.2. Network Cables

Standard twisted-pair Ethernet cables (CAT-5E/CAT-6) can be used to connect the device to a computer or to a lighting controller that supports Art-Net or sACN.

If you make your own network cables, make sure that you connect the pins and wires correctly. Use RJ45 (8P8C) connectors and patch the cables according to the T568B color standard.

Figure 10

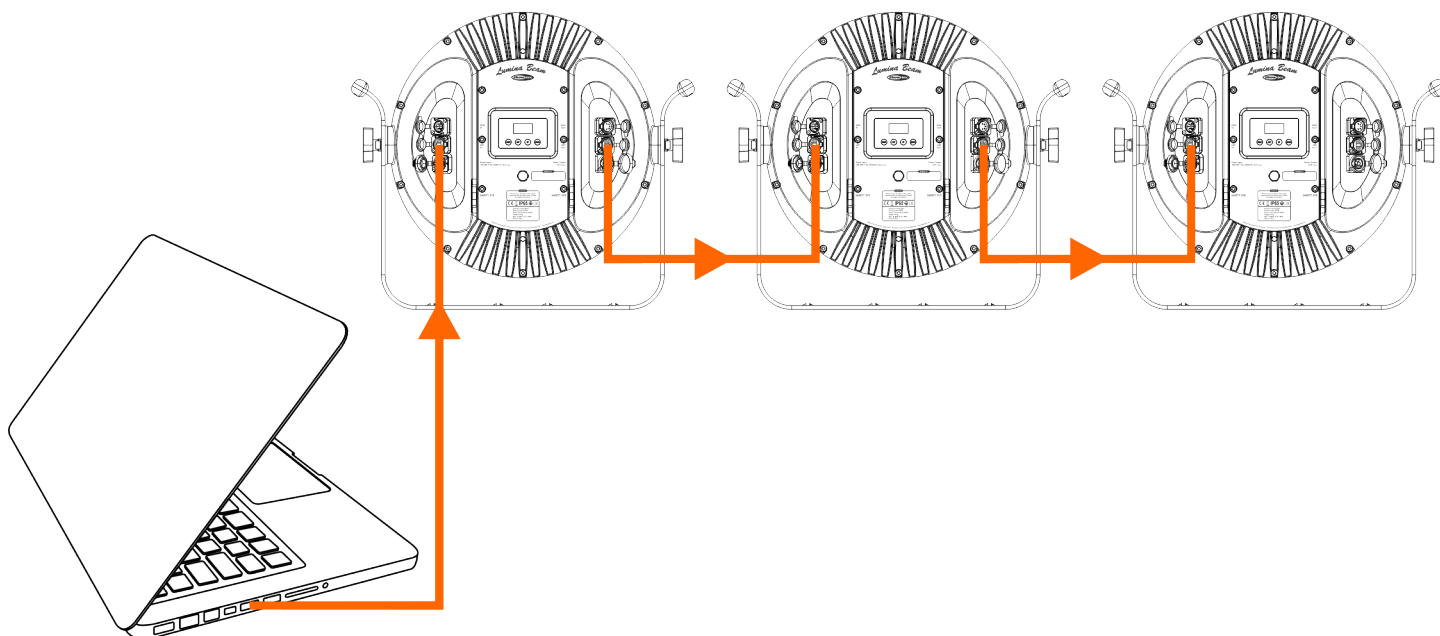


5.4.3. Art-Net/sACN Linking

To connect multiple devices on one Art-Net/sACN data link, follow the steps below:

- 01) Use a CAT-5E/CAT-6 cable to connect the RJ45 connector of the computer/lighting controller to one of the RJ45 connectors of the 1st device.
- 02) Connect the 2nd RJ45 connector of the 1st device to the 1st RJ45 connector of the 2nd device with a CAT-5E/CAT-6 cable.
- 03) Repeat step 2 to connect all devices in a daisy-chain.

Figure 11



5.4.4. Art-Net Settings

You need an Art-Net data link to run light shows of one or more devices using a computer/light controller.

If you want to connect multiple devices on one Art-Net/RDM data link, follow the steps below:

- 01) Set the IP address of your computer/light controller to 2.x.x.x or 10.x.x.x, depending on the Art-Net settings. All devices in the network must have a unique IP address. To change the IP address, the IP Mode, the Subnet mask, and the Universe of the device, refer to Network Setup (see [6.6.2. Network Config](#) on page 29).
- 02) Set the Subnet mask to 255.0.0.0. on all devices.
- 03) Set the universe of the 1st device to 1.
- 04) Set the DMX address of the 1st device to 001.
- 05) Map all the connected devices in the Art-Net-based software. To change the Art-Net protocol of the device, refer to Art-Net/sACN enable (see [6.6.2. Network Config](#) on page 29).

5.4.5. sACN Settings

To run your device using sACN protocol:

- 01) Set the IP address of your computer/light controller. sACN does not have restrictions on the IP address. To change the IP address, the IP Mode, the Subnet mask, and the Universe of the device, refer to Network Setup (see [6.6.2. Network Config](#) on page 29).
- 02) Select sACN Protocol in the sACN Enable menu (see [6.6.2.5. sACN Enable](#) on page 30).
- 03) Set the universe in the sACN Universe menu (see [6.6.2.6. sACN Universe](#) on page 31).

5.4.6. Universe Numbering

If you want to connect 3 or more devices on one data link and use them in 255-channel mode, you need to address the devices on different universes.

- 01) Set the DMX starting address of the first 2 devices (see [5.3.5. DMX Addressing](#) on page 20).
- 02) Set the universe number of the 3th device to 001 and the DMX starting address to 001.
- 03) Continue addressing the devices, each time increasing the universe number, after you reach the limit of 512 channels in one universe.

There are 512 channels (1–512) in one universe. 16 consecutive universes (0–15) make up one sub-net. 16 sub-nets (0–15) make up one net. There are 128 nets (0–127) in total.

Note:

- In Art-Net, universes are called Port Address and number from 0 to 32767. There are 32768 unique numbers.
- In sACN, universes number from 1 to 63999.

15-bit Port Address	Net (0–127)	Sub-net (0–15)	Universe (0–15)
0	0	0	0
1	0	0	1
2	0	0	2
...	...	...	...
15	0	0	15
16	0	1	0
17	0	1	1
...	...	...	...
31	0	1	15
32	0	2	0
33	0	2	1
...	...	...	...
255	0	15	15
256	1	0	0
257	1	0	1
...	...	...	...
32766	127	15	14
32767	127	15	15

When addressing multiple devices on one data link, make sure that there are no overlapping channels. You cannot control devices individually if they have overlapping channels.

Note:

If you use an Art-Net controller that supports Art-Net I or Art-Net II, you need to set the Art-Net net to 0. The net number is available in Art-Net 3 and higher versions of the Art-Net protocol.

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 an LED luminaire. It can be installed only indoors. 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 Lumina Beam supports the following control modes:

- Stand-alone: Auto operation mode, built-in programs, manual operation
- Master/Slave: Auto operation mode, built-in programs, manual operation
- DMX-512: 8, 12, 27, 184, 199 channels
- Art-Net: 8, 12, 27, 184, 199 channels
- sACN: 8, 12, 27, 184, 199 channels

For more information about how to connect the devices, refer to Setup (see [5. Setup](#) on page 18).

To operate the device manually as a stand-alone device or in a master/slave setup:

Adjust the colors in the Manual Mode (see [6.6.3. Manual Mode](#) on page 31) menu.

To run the built-in program or auto mode without a DMX controller:

Select the control mode of the device in the main menu.

- If you select Auto (see [6.6.4. Auto](#) on page 32), the device will run the built-in program.
- If you select Program (see [6.6.5. Program](#) on page 32), the device will run the respective program. You can edit the programs in the Program menu.

To operate the device with a DMX controller:

- 01) Select DMX512 as control mode in the DMX Menu (see [6.6.1. DMX](#) on page 28).
- 02) Set the DMX starting address (see [5.3.5. DMX Addressing](#) on page 20) of the device in the DMX Address menu (see [6.6.1.1. DMX Address](#) on page 28).
- 03) Select the DMX channel mode in the DMX channel mode menu (see [6.6.1.2. Channels](#) on page 28). Refer to DMX channels (see [6.7. DMX Channels](#) on page 39) for a complete overview of all DMX channels.

To operate the device via Art-Net with a computer/lighting controller:

- 01) Select ArtNet as control mode in the DMX Menu (see [6.6.1. DMX](#) on page 28).
- 02) Set the DMX starting address (see [5.3.5. DMX Addressing](#) on page 20) of the device in the DMX Address menu (see [6.6.1.1. DMX Address](#) on page 28).
- 03) Select the DMX channel mode in the DMX channel mode menu (see [6.6.1.2. Channels](#) on page 28). Refer to DMX channels (see [6.7. DMX Channels](#) on page 39) for a complete overview of all DMX channels.

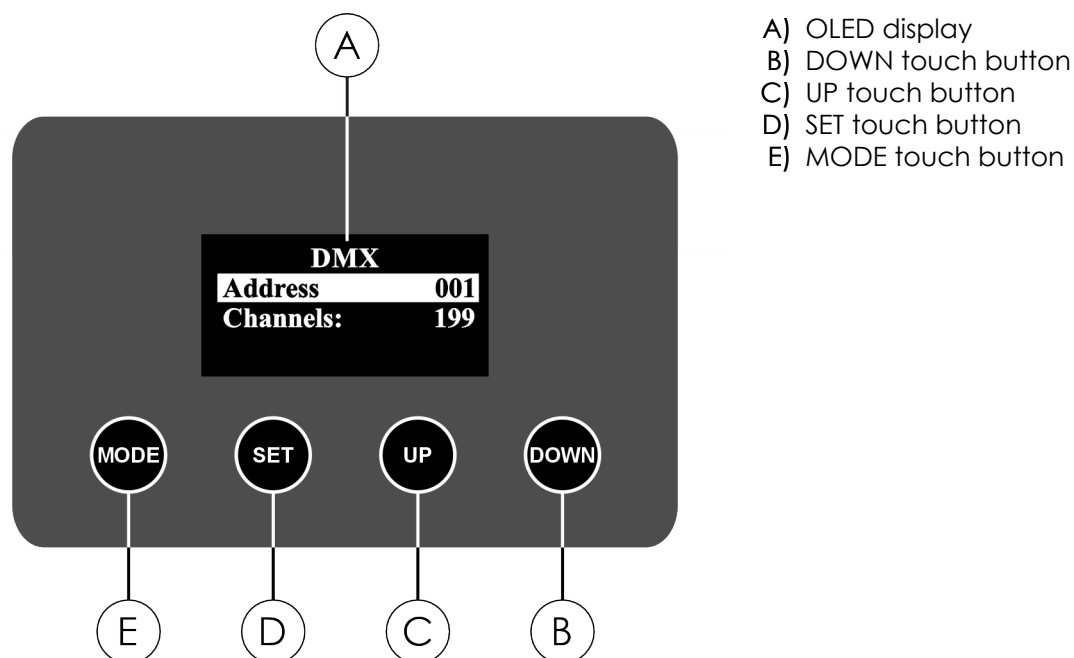
To operate the device via sACN with a computer/lighting controller:

- 01) Select sACN as control mode in the DMX Menu (see [6.6.1. DMX](#) on page 28).

- 02) Set the DMX starting address (see [5.3.5. DMX Addressing](#) on page 20) of the device in the DMX Address menu (see [6.6.1.1. DMX Address](#) on page 28).
- 03) Select the DMX channel mode in the DMX channel mode menu (see [6.6.1.2. Channels](#) on page 28). Refer to DMX channels (see [6.7. DMX Channels](#) on page 39) for a complete overview of all DMX channels..

6.3. Control Panel

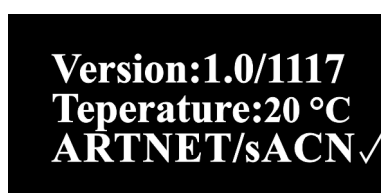
Figure 12



- Use the **MODE** 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 **SET** button to open the desired menu, to confirm your choice or to set the currently selected value

6.4. Start-up

After the device is connected to power supply, the device will perform a reset. During the reset the display shows a splash screen with the firmware version:



After the reset is completed, the device is ready to be operated. The display shows the start screen. The start screen provides information about the temperature of the LED, the firmware version, the selected mode and the DMX address:



Note:

If the display is locked, press the **MODE** and **SET** buttons for 3 s at the same time to unlock the display. When the display lock is on, there is a lock symbol at the top right corner of the display.

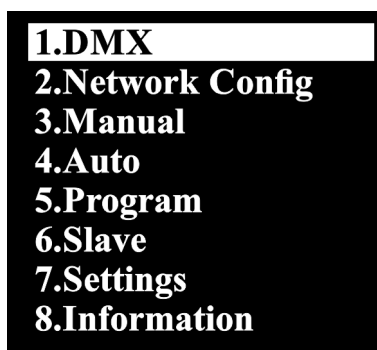
6.5. Menu Overview

Level 1	Level 2	Level 3	Level 4
1.DMX (see 6.6.1. DMX on page 28)	Address	001–512	
	Channels	8	
		12	
		27	
		184	
		199	
2.Network Config (see 6.6.2. Network Config on page 29)	1.Local IP	2.xxx.xxx.xxx	
	2. Subnet Mask	255.000.000.000	
	3.ArtNet Enable	On Off	
	4. ArtNet Univ	Net:	000–127
		Sub:	000–015
		Port:	000–015
	5.sACN Enable	On Off	
	6.sACN Universe	00001–63999	
3.Manual (see 6.6.3. Manual Mode on page 31)	1. Main Red	000–255	
	2. Main Green	000–255	
	3. Main Blue	000–255	
	4. Main White	000–255	
	5. Back Red	000–255	
	6. Back Green	000–255	
	7. Back Blue	000–255	
	8. Back White	000–255	
4.Auto (see 6.6.4. Auto on page 32)	Yes		
	No		
5.Program (see 6.6.5. Program on page 32)	Mode	01–43	
	Color (Mode 1)	01–33	
	Program Speed (Mode 2–43)	001–100	
	Strobe (Mode 1–43)	00–99	
6.Slave (see 6.6.6. Slave on page 33)	Yes		
	No		
7.Settings (see 6.6.7. Settings on page 34)	1.Dimmer Curve	1. Linear	
		2. Square	
		3. Inverse Square	
		4. S-Curve	
	2.Dimmer Speed	Fast	
		Smooth	
	3.Display Dir	Normal	
		Inverted	
	4.PWM Frequency	1 KHz	
		3 KHz	
		6 KHz	
		12 KHz	
	5.Dmx Fail	1. Off	
		2. Hold	
		3. Manual	
		4. Program	
	6.Fan Mode	1. Auto	

Level 1	Level 2	Level 3	Level 4
	7.Backlight Time	2. High	
		3. Slow	
		4. Off	
		5s	
		10s	
		20s	
		30s	
		Mode	
		Lock	
		On	
8.Information (see 6.6.8. Information on page 38)	8.Key Lock	Off	
	9.Key Backlight	Yes	
	10.Factory Reset	No	
	1.Version	MCU S 1.0/1117	
	2.Temperature	Main Led xx °C	
		Back Led1 xx °C	
		Back Led2 xx °C	
		Back Led3 xx °C	
		Power Temp xx °C	
	3.Fan Speed	PowerFan 4950 rpm	
		Led Fan1 xxxx rpm	
		Led Fan2 xxxx rpm	
		Led Fan3 xxxx rpm	
		Led Fan4 xxxx rpm	
		Led Fan5 xxxx rpm	
	4.Time	PowerTime xxxxxh	
		Led Time xxxxxh	
	5.RDM UID	29B4:11Bxxxxx	
	6.Network MAC	MAC Address: E0 FE ED 4C F1 70	
	7.Error Status		

6.6. Main Menu Options

The main menu has the following 8 options:



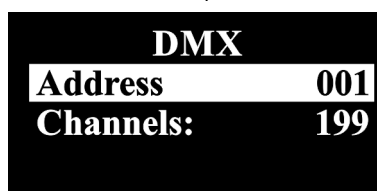
01) Touch the **UP/DOWN** buttons to navigate through the main menu.

02) Touch the **SET** button to open the submenus.

6.6.1. DMX

In this menu you can set the DMX address and select the desired DMX channel mode.

01) Touch the **UP/DOWN** buttons to select one of the 2 options:



- DMX Address (see [6.6.1.1. DMX Address](#))
- Channels (see [6.6.1.2. Channels](#))

02) Touch the **SET** button to confirm the selection and open the submenu.

6.6.1.1. DMX Address

In this submenu you can set the DMX starting address of the device.

01) Touch the **UP/DOWN** buttons to select the DMX starting address of the device. The selection range is 001–512.

02) Touch the **SET** button to confirm the selection.

6.6.1.2. Channels

In this submenu you can select the DMX channel mode.

01) Touch the **UP/DOWN** buttons to select the desired DMX mode. There are 5 options:

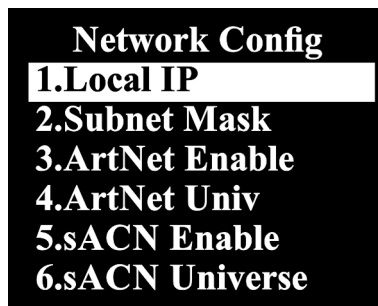
- 8 channel
- 12 channels
- 27 channels
- 184 channels
- 199 channels

02) Touch the **SET** button to confirm the selection. For more information refer to DMX Channels (see [6.7. DMX Channels](#) on page 39).

6.6.2. Network Config

In this menu you can set the IP address, Subnet Mask, ArtNet Universe or sACN Universe and enable the ArtNet or sACN protocol.

01) Touch the **UP/DOWN** buttons to select one of the 6 options:

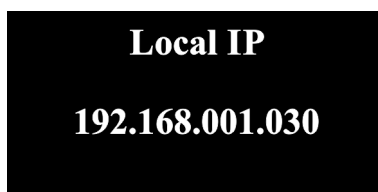


- Local IP (see [6.6.2.1. Local IP](#))
- Subnet Mask (see [6.6.2.2. Subnet Mask](#))
- ArtNet Enable (see [6.6.2.3. ArtNet Enable](#))
- ArtNet Universe (see [6.6.2.4. ArtNet Universe](#))
- sACN Enable (see [6.6.2.5. sACN Enable](#))
- sACN Universe (see [6.6.2.6. sACN Universe](#))

02) Touch the **SET** button to confirm the selection and open the submenu.

6.6.2.1. Local IP

In this submenu, you can manually configure the IP address.



01) Touch the **UP/DOWN** buttons to position the cursor on the number you want to change. The adjustment range for each number is 0–255.

02) Touch the **SET** button to confirm the selection.

03) Touch the **UP/DOWN** buttons to select the desired value.

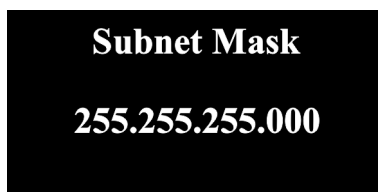
04) Touch the **SET** button to confirm the selection.

05) Repeat step 1–4 for the 2nd second, 3rd or 4th part of the IP address.

06) Touch the **SET** button to confirm the selection.

6.6.2.2. Subnet Mask

In this submenu, you can manually configure the Subnet Mask.



01) Touch the **UP/DOWN** buttons to position the cursor on the number you want to change. The adjustment range for each number is 0–255.

02) Touch the **SET** button to confirm the selection.

03) Touch the **UP/DOWN** buttons to select the desired value.

04) Touch the **SET** button to confirm the selection.

05) Repeat step 1–4 for the 2nd second, 3rd or 4th part of the Subnet Mask.

06) Touch the **SET** button to confirm the selection.

6.6.2.3. ArtNet Enable

In this submenu you can activate the ArtNet protocol.

01) Touch the **UP/DOWN** buttons to select one of the 2 options:



- On: The ArtNet protocol is enabled
- Off: The ArtNet protocol is disabled

02) Touch the **SET** button to confirm your choice.

6.6.2.4. ArtNet Universe

In this submenu, you can manually configure the ArtNet Universe.



- 01) Touch the **SET** button to confirm the selection.
- 02) Touch the **UP/DOWN** buttons to set the Net address of the device. The selection range is 000–127.
- 03) Touch the **SET** button to confirm the selection.
- 04) Touch the **UP/DOWN** buttons to select the Sub address.
- 05) Touch the **SET** button to confirm the selection.
- 06) Touch the **UP/DOWN** buttons to set the Sub address of the device. The selection range is 000–015.
- 07) Touch the **SET** button to confirm the selection.
- 08) Touch the **UP/DOWN** buttons to select the Port address.
- 09) Touch the **SET** button to confirm the selection.
- 10) Touch the **UP/DOWN** buttons to set the Port address of the device. The selection range is 000–015.
- 11) Touch the **SET** button to confirm the selection.

6.6.2.5. sACN Enable

In this submenu you can activate the sACN protocol.

01) Touch the **UP/DOWN** buttons to select one of the 2 options:

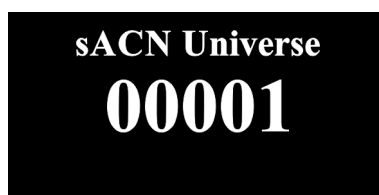


- On: The sACN protocol is enabled
- Off: The sACN protocol is disabled

02) Touch the **SET** button to confirm your choice.

6.6.2.6. sACN Universe

In this submenu, you can manually configure the sACN Universe.



01) Touch the **SET** button to confirm the selection.

02) Touch the **UP/DOWN** buttons to set the sACN Universe of the device. The selection range is 00001–63999.

03) Touch the **SET** button to confirm the selection.

6.6.3. Manual Mode

In this menu you can select colors and set their values.

01) Touch the **UP/DOWN** buttons to select one of the 8 options:

Manual	
1.Main Red	000
2.Main Green	000
3.Main Blue	000
4.Main White	000
5.Back Red	000
6.Back Green	000
7.Back Blue	000
8.Back White	000

- Main Red: Adjust the red intensity of the main LED. The adjustment range is 000–255, from low to high intensity
- Main Green: Adjust the green intensity of the main LED. The adjustment range is 000–255, from low to high intensity
- Main Blue: Adjust the blue intensity of the main LED. The adjustment range is 000–255, from low to high intensity
- Main White: Adjust the white intensity of the main LED. The adjustment range is 000–255, from low to high intensity
- Back Red: Adjust the red intensity of the 45 background LEDs. The adjustment range is 000–255, from low to high intensity
- Back Green: Adjust the green intensity of the 45 background LEDs. The adjustment range is 000–255, from low to high intensity
- Back Blue: Adjust the blue intensity of the 45 background LEDs. The adjustment range is 000–255, from low to high intensity
- Back White: Adjust the white intensity of the 45 background LEDs. The adjustment range is 000–255, from low to high intensity

02) Touch the **SET** button to confirm the selection.

03) Touch the **UP/DOWN** buttons to increase or decrease the values.

04) Touch the **SET** button to confirm the selection.

6.6.4. Auto

In this menu you can set Auto mode.

Touch the **UP/DOWN** buttons to select one of the 2 options:



- Yes: Play the Auto program
- No: Stop the Auto program

Note:

The Auto mode will cycle through Program 02–43, with the strobe speed set in the Program Mode 02–43.

6.6.5. Program

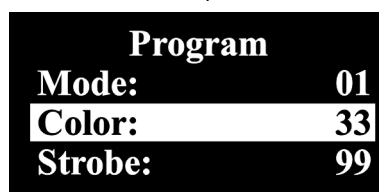
In this menu you can select a built-in program, add a strobe effect, and adjust the program speed. The device has 33 built-in color presets and 43 built-in programs available:

- Program 01 (see [6.6.5.1. Program 01](#))
- Program 02–43 (see [6.6.5.2. Program 02–43](#))

6.6.5.1. Program 01

In this submenu you can set the color presets and the strobe for built-in program 01.

01) Touch the **UP/DOWN** buttons to select one of the 2 options:



- Color
- Strobe

02) Touch the **SET** button to confirm the selection and open the submenu.

03) If you select Color, touch the **UP/DOWN** buttons to select one of the 33 color presets. Touch the **SET** button to save the settings.

04) If you select Strobe, touch the **UP/DOWN** buttons to set the strobe frequency. The adjustment range is 00–99, from OFF to high frequency.

05) Touch the **SET** button to confirm.

6.6.5.2. Program 02–43

In this submenu you can set program speed and the strobe for built-in program 02–43.

01) Touch the **UP/DOWN** buttons to select one of the 2 options:

Program	
Mode:	02
Speed:	100
Strobe:	99

- Speed
- Strobe

02) Touch the **SET** button to confirm the selection and open the submenu.

03) If you select Speed, touch the **UP/DOWN** buttons to set the speed of the built-in programs. The adjustment range is 001–100, from slow to fast.

04) If you select Strobe, touch the **UP/DOWN** buttons to set the strobe frequency. The adjustment range is 00–99, from OFF to high frequency.

05) Touch the **SET** button to confirm.

6.6.6. Slave

In this menu you can set the device in a master/slave setup.

01) Touch the **UP/DOWN** buttons to select one of the 2 options:

Slave	
Yes	
No	

- Yes: The device is set as a slave and reacts the same as the master device
- No: The device is set as the master device

02) Touch the **SET** button to confirm the selection.

6.6.7. Settings

In this menu you can adjust the settings of the device.

01) Touch the **UP/DOWN** buttons to select one of the 10 options:



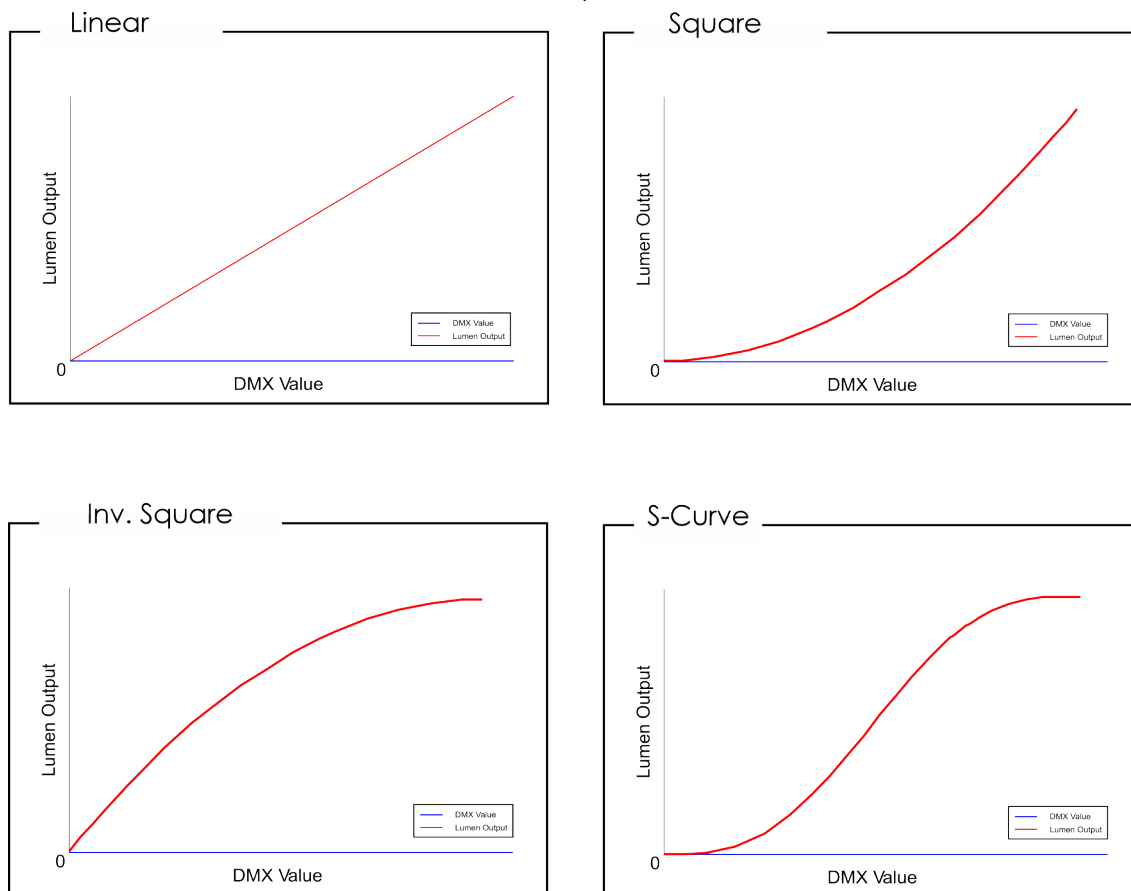
- Dimmer Curve (see [6.6.7.1. Dimmer Curve](#))
- Dimmer Speed (see [6.6.7.2. Dimmer Speed](#))
- Display Dir (see [6.6.7.3. Display Dir](#))
- PWM Frequency: Set the PWM Frequency (Pulse Width Modulation): 1 kHz, 3 kHz, 6 kHz, 12 kHz
- DMX Fail (see [6.6.7.4. DMX Fail](#))
- Fan Mode (see [6.6.7.5. Fan Mode](#))
- Backlight Time (see [6.6.7.6. Backlight Time](#))
- Key Lock (see [6.6.7.7. Key Lock](#))
- Key Backlight (see [6.6.7.8. Key Backlight](#))
- Factory Reset (see [6.6.7.9. Factory Reset](#))

02) Touch the **SET** button to confirm the selection and open the submenu.

6.6.7.1. Dimmer Curve

In this submenu you can set dimming curves.

01) Touch the **UP/DOWN** buttons to select one of the 4 options:



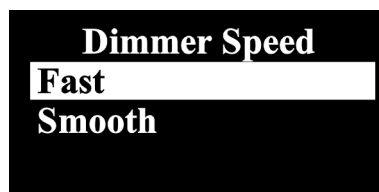
- Linear
- Square
- Inverse Square
- S-Curve

02) Touch the **SET** button to confirm the selection.

6.6.7.2. Dimmer Speed

In this submenu, you can set the dimmer speed.

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



- Fast: Fast dimmer speed
- Smooth: Smooth dimmer speed

02) Touch the **SET** button to confirm the selection.

6.6.7.3. Display Dir

In this submenu you can set the orientation of the OLED display.

01) Touch the **UP/DOWN** buttons to select one of the 2 options:



- Normal: Normal orientation of the OLED display
- Inverted: The OLED display is rotated at 180°

02) Touch the **SET** button to confirm the selection.

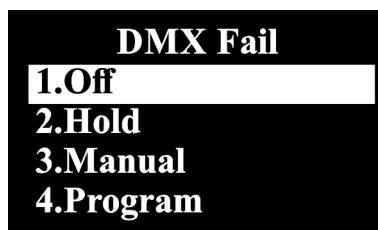
Note:

If the display is rotated at 180°, the function of the buttons on the control panel remains the same.

6.6.7.4. DMX Fail

In this submenu you can set the behavior of the device in case of a DMX failure.

01) Touch the **UP/DOWN** buttons to select one of the 4 options:



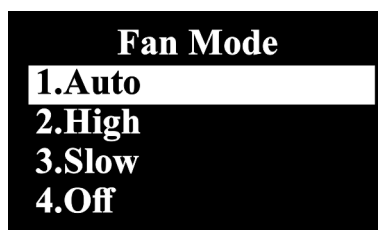
- Off: The device does not output any signal
- Hold: The device uses the last working DMX value on the output
- Manual: The device uses the values selected in manual mode
- Program: The device starts the last used built-in program

02) Touch the **SET** button to confirm the selection.

6.6.7.5. Fan Mode

In this submenu you can set the speed of the fan.

01) Touch the **UP/DOWN** buttons to select one of the 4 options:



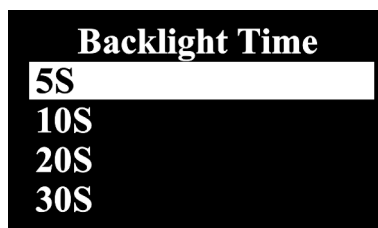
- Auto: The fan is in automatic mode
- High: The fan is in high mode
- Slow: The fan is in slow mode
- Off: The fan is off

02) Touch the **SET** button to confirm the selection.

6.6.7.6. Backlight Time

In this submenu you can set the amount of time the backlight on the display stays on, after the last button is touched on the control panel.

01) Touch the **UP/DOWN** buttons to select one of the 4 options:



- 5 seconds: The backlight of the display turns off after 5 s of inactivity
- 10 seconds: The backlight of the display turns off after 10 s of inactivity
- 20 seconds: The backlight of the display turns off after 20 s of inactivity
- 30 seconds: The backlight of the display turns off after 30 s of inactivity

02) Touch the **SET** button to confirm the selection.

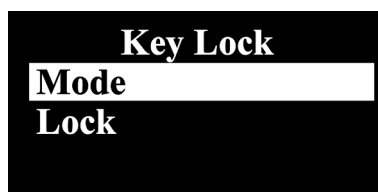
Note:

If the display is turned off, touch any button to turn the display on.

6.6.7.7. Key Lock

In this submenu you can activate the display lock.

01) Touch the **UP/DOWN** buttons to select one of the 2 options:



- Mode: The access to the main menu remains unlocked after the display turns off
- Lock: The display lock is on. The display will be locked after 30 s of inactivity. After 5 s more the display will turn off. To access the main menu, you need to enter the password. The default password is pressing the **MODE** and **SET** buttons for 3 s at the same time

02) Touch the **SET** button to confirm your choice.

6.6.7.8. Key Backlight

In this submenu you can set whether the 4 buttons (**MODE**, **SET**, **UP**, **DOWN**) are illuminated or not.

01) Touch the **UP/DOWN** buttons to select one of the 2 options:



- On: The 4 buttons (**MODE**, **SET**, **UP**, **DOWN**) are illuminated
- Off: The 4 buttons (**MODE**, **SET**, **UP**, **DOWN**) are not illuminated

02) Touch the **SET** button to confirm your choice.

6.6.7.9. Factory Reset

In this submenu you can restore the default factory settings of the device.

01) Touch the **UP/DOWN** buttons to select one of the 2 options:



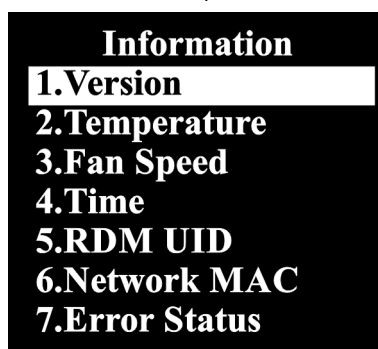
- Yes: Restore to default factory settings
- No: Keep current settings, no factory reset

02) Touch the **SET** button to confirm.

6.6.8. Information

In this menu, you can view the parameters of the device.

01) Touch the **UP/DOWN** buttons to select one of the 7 options:



- Version: Shows the current firmware version of the device
- Temperature: Shows the temperature of the main LED, Back LEDs 1–3 and the PSU temperature
- Fan Speed: Shows the current speed of fan 1–5
- Time: Shows the total time the device and the LEDs have been running
- RDM UID: Shows the RDM identification number of the device (29B4:11Bxxxxx)
- Network MAC: Shows the Network MAC address of the device (E0 FE ED 4C F1 70)
- Error Status: Shows the current error status, if applicable

02) Touch the **SET** button to open the submenu and view the parameters.

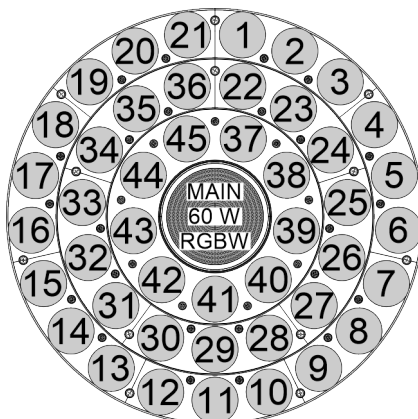
Note:

For more information about the complete list of error messages (see [7.1. Error Messages](#) on page 49), refer to Error Messages. If you can not solve the problem, discontinue the use of the device and contact your Highlite International dealer for more information.

6.7. DMX Channels

6.7.1. 8, 12, 27, 184, 199 Channels

Figure 13



RGBW LED Order

8CH	12CH	27CH	184CH	199CH	Function	Value	Setting
	1	1		1	Dimmer	000–255	From low to high intensity (0–100 %)
						000–009	No Function
	2	2		2	Main Strobe	010–127	Linear strobe, from off to high frequency (0–20 Hz)
						128–255	Random strobe, from low to high frequency
1	3	3		3	Main Red	000–255	From low to high intensity (0–100 %)
2	4	4		4	Main Green	000–255	From low to high intensity (0–100 %)
3	5	5		5	Main Blue	000–255	From low to high intensity (0–100 %)
4	6	6		6	Main White	000–255	From low to high intensity (0–100 %)
						000–007	No function
						008–013	Color1 (R255, G000, B000, W000)
						014–020	Color2 (R255, G000, B000, W100)
						021–027	Color3 (R255, G000, B000, W200)
						028–034	Color4 (R25, G050, B000, W000)
						035–041	Color5 (R255, G150, B000, W000)
						042–048	Color6 (R255, G255, B000, W000)
						049–055	Color7 (R255, G255, B000, W075)
						056–062	Color8 (R000, G255, B000, W255)
						063–069	Color9 (R000, G255, B000, W150)
						070–076	Color10 (R000, G255, B000, W050)
						077–083	Color11 (R000, G255, B000, W000)
						084–090	Color12 (R000, G255, B050, W000)
						091–097	Color13 (R000, G255, B150, W000)
						098–104	Color14 (R000, G255, B255, W000)
						105–111	Color15 (R000, G255, B255, W075)
						112–118	Color16 (R000, G255, B255, W150)
						119–125	Color17 (R000, G100, B255, W255)
						126–132	Color18 (R000, G000, B255, W100)
						133–139	Color19 (R000, G000, B255, W050)
						140–146	Color20 (R000, G000, B255, W000)
						147–153	Color21 (R075, G000, B255, W000)
						154–160	Color22 (R160, G000, B255, W000)
						161–167	Color23 (R255, G000, B255, W000)
						168–174	Color24 (R255, G000, B175, W000)
		7		7	Main Color preset		

8CH	12CH	27CH	184CH	199CH	Function	Value	Setting
						175–181	Color25 (R255, G000, B100, W000)
						182–188	Color26 (R255, G000, B100, W050)
						189–195	Color27 (R255, G000, B025, W050)
						196–202	Color28 (R255, G000, B025, W025)
						203–209	Color29 (R255, G000, B025, W000)
						210–216	Color30 (R000, G000, B000, W255)
						217–223	Color31 (R075, G075, B000, W255)
						224–230	Color32 (R000, G000, B100, W255)
						231–255	Color33 (R255, G255, B255, W255)
						000–015	No function
						016–031	Jump1
						032–047	Jump2
						048–063	Jump3
						064–079	Jump4
						080–095	Jump5
						096–111	Jump6
		8		8	Main Program Mode	112–127	Jump7
						128–143	Jump8
						144–159	Fade1
						160–175	Fade2
						176–191	Fade3
						192–207	Fade4
						208–223	Fade5
						224–239	Fade6
						240–255	Fade7
		9		9	Main Program Speed	000–255	From slow to fast
	7	10		10	Back Dimmer	000–255	From low to high intensity (0–100 %)
						000–009	No Function
	8	11		11	Back Strobe	010–127	Linear strobe, from off to high frequency (0–20 Hz)
						128–255	Random strobe, from low to high frequency
5	9		1	12	Back Red	000–255	From low to high intensity (0–100 %)
6	10		2	13	Back Green	000–255	From low to high intensity (0–100 %)
7	11		3	14	Back Blue	000–255	From low to high intensity (0–100 %)
8	12		4	15	Back White	000–255	From low to high intensity (0–100 %)
						000–007	No function
						008–013	Color1 (R255, G000, B000, W000)
						014–020	Color2 (R255, G000, B000, W100)
						021–027	Color3 (R255, G000, B000, W200)
						028–034	Color4 (R25, G050, B000, W000)
						035–041	Color5 (R255, G150, B000, W000)
						042–048	Color6 (R255, G255, B000, W000)
						049–055	Color7 (R255, G255, B000, W075)
						056–062	Color8 (R000, G255, B000, W255)
						063–069	Color9 (R000, G255, B000, W150)
						070–076	Color10 (R000, G255, B000, W050)
						077–083	Color11 (R000, G255, B000, W000)
						084–090	Color12 (R000, G255, B050, W000)
						091–097	Color13 (R000, G255, B150, W000)
						098–104	Color14 (R000, G255, B255, W000)
						105–111	Color15 (R000, G255, B255, W075)
		24		16	Back Color preset		

8CH	12CH	27CH	184CH	199CH	Function	Value	Setting
						112-118	Color16 (R000, G255, B255, W150)
						119-125	Color17 (R000, G100, B255, W255)
						126-132	Color18 (R000, G000, B255, W100)
						133-139	Color19 (R000, G000, B255, W050)
						140-146	Color20 (R000, G000, B255, W000)
						147-153	Color21 (R075, G000, B255, W000)
						154-160	Color22 (R160, G000, B255, W000)
						161-167	Color23 (R255, G000, B255, W000)
						168-174	Color24 (R255, G000, B175, W000)
						175-181	Color25 (R255, G000, B100, W000)
						182-188	Color26 (R255, G000, B100, W050)
						189-195	Color27 (R255, G000, B025, W050)
						196-202	Color28 (R255, G000, B025, W025)
						203-209	Color29 (R255, G000, B025, W000)
						210-216	Color30 (R000, G000, B000, W255)
						217-223	Color31 (R075, G075, B000, W255)
						224-230	Color32 (R000, G000, B100, W255)
						231-255	Color33 (R255, G255, B255, W255)
						000-008	No function
						009-017	Jump1
						018-026	Jump2
						027-035	Jump3
						036-044	Jump4
						045-053	Jump5
						054-062	Jump6
						063-071	Jump7
						072-080	Jump8
						081-089	Jump9
						090-098	Jump10
						099-107	Jump11
						108-116	Jump12
						117-125	Jump13
						126-134	Jump14
						135-143	Jump15
						144-152	Jump16
						153-161	Jump17
						162-170	Jump18
						171-179	Jump19
						180-188	Jump20
						189-197	Fade1
						198-206	Fade2
						207-215	Fade3
						216-224	Fade4
						225-233	Fade5
						234-242	Fade6
						243-255	Fade7
		26		18	Back Program Speed	000-255	From slow to fast
		12			Back Red Ring 1	000-255	From low to high intensity (0-100 %)
		13			Back Green Ring 1	000-255	From low to high intensity (0-100 %)
		14			Back Blue Ring 1	000-255	From low to high intensity (0-100 %)

8CH	12CH	27CH	184CH	199CH	Function	Value	Setting
		15			Back White Ring 1	000-255	From low to high intensity (0-100 %)
		16			Back Red Ring 2	000-255	From low to high intensity (0-100 %)
		17			Back Green Ring 2	000-255	From low to high intensity (0-100 %)
		18			Back Blue Ring 2	000-255	From low to high intensity (0-100 %)
		19			Back White Ring 2	000-255	From low to high intensity (0-100 %)
		20			Back Red Ring 3	000-255	From low to high intensity (0-100 %)
		21			Back Green Ring 3	000-255	From low to high intensity (0-100 %)
		22			Back Blue Ring 3	000-255	From low to high intensity (0-100 %)
		23			Back White Ring 3	000-255	From low to high intensity (0-100 %)
			5	19	Back Red 1	000-255	From low to high intensity (0-100 %)
			6	20	Back Green 1	000-255	From low to high intensity (0-100 %)
			7	21	Back Blue 1	000-255	From low to high intensity (0-100 %)
			8	22	Back White 1	000-255	From low to high intensity (0-100 %)
			9	23	Back Red 2	000-255	From low to high intensity (0-100 %)
			10	24	Back Green 2	000-255	From low to high intensity (0-100 %)
			11	25	Back Blue 2	000-255	From low to high intensity (0-100 %)
			12	26	Back White 2	000-255	From low to high intensity (0-100 %)
			13	27	Back Red 3	000-255	From low to high intensity (0-100 %)
			14	28	Back Green 3	000-255	From low to high intensity (0-100 %)
			15	29	Back Blue 3	000-255	From low to high intensity (0-100 %)
			16	30	Back White 3	000-255	From low to high intensity (0-100 %)
			17	31	Back Red 4	000-255	From low to high intensity (0-100 %)
			18	32	Back Green 4	000-255	From low to high intensity (0-100 %)
			19	33	Back Blue 4	000-255	From low to high intensity (0-100 %)
			20	34	Back White 4	000-255	From low to high intensity (0-100 %)
			21	35	Back Red 5	000-255	From low to high intensity (0-100 %)
			22	36	Back Green 5	000-255	From low to high intensity (0-100 %)
			23	37	Back Blue 5	000-255	From low to high intensity (0-100 %)
			24	38	Back White 5	000-255	From low to high intensity (0-100 %)
			25	39	Back Red 6	000-255	From low to high intensity (0-100 %)
			26	40	Back Green 6	000-255	From low to high intensity (0-100 %)
			27	41	Back Blue 6	000-255	From low to high intensity (0-100 %)
			28	42	Back White 6	000-255	From low to high intensity (0-100 %)
			29	43	Back Red 7	000-255	From low to high intensity (0-100 %)
			30	44	Back Green 7	000-255	From low to high intensity (0-100 %)
			31	45	Back Blue 7	000-255	From low to high intensity (0-100 %)
			32	46	Back White 7	000-255	From low to high intensity (0-100 %)
			33	47	Back Red 8	000-255	From low to high intensity (0-100 %)
			34	48	Back Green 8	000-255	From low to high intensity (0-100 %)
			35	49	Back Blue 8	000-255	From low to high intensity (0-100 %)
			36	50	Back White 8	000-255	From low to high intensity (0-100 %)
			37	51	Back Red 9	000-255	From low to high intensity (0-100 %)
			38	52	Back Green 9	000-255	From low to high intensity (0-100 %)
			39	53	Back Blue 9	000-255	From low to high intensity (0-100 %)
			40	54	Back White 9	000-255	From low to high intensity (0-100 %)
			41	55	Back Red 10	000-255	From low to high intensity (0-100 %)
			42	56	Back Green 10	000-255	From low to high intensity (0-100 %)
			43	57	Back Blue 10	000-255	From low to high intensity (0-100 %)
			44	58	Back White 10	000-255	From low to high intensity (0-100 %)
			45	59	Back Red 11	000-255	From low to high intensity (0-100 %)
			46	60	Back Green 11	000-255	From low to high intensity (0-100 %)

8CH	12CH	27CH	184CH	199CH	Function	Value	Setting
			47	61	Back Blue 11	000-255	From low to high intensity (0-100 %)
			48	62	Back White 11	000-255	From low to high intensity (0-100 %)
			49	63	Back Red 12	000-255	From low to high intensity (0-100 %)
			50	64	Back Green 12	000-255	From low to high intensity (0-100 %)
			51	65	Back Blue 12	000-255	From low to high intensity (0-100 %)
			52	66	Back White 12	000-255	From low to high intensity (0-100 %)
			53	67	Back Red 13	000-255	From low to high intensity (0-100 %)
			54	68	Back Green 13	000-255	From low to high intensity (0-100 %)
			55	69	Back Blue 13	000-255	From low to high intensity (0-100 %)
			56	70	Back White 13	000-255	From low to high intensity (0-100 %)
			57	71	Back Red 14	000-255	From low to high intensity (0-100 %)
			58	72	Back Green 14	000-255	From low to high intensity (0-100 %)
			59	73	Back Blue 14	000-255	From low to high intensity (0-100 %)
			60	74	Back White 14	000-255	From low to high intensity (0-100 %)
			61	75	Back Red 15	000-255	From low to high intensity (0-100 %)
			62	76	Back Green 15	000-255	From low to high intensity (0-100 %)
			63	77	Back Blue 15	000-255	From low to high intensity (0-100 %)
			64	78	Back White 15	000-255	From low to high intensity (0-100 %)
			65	79	Back Red 16	000-255	From low to high intensity (0-100 %)
			66	80	Back Green 16	000-255	From low to high intensity (0-100 %)
			67	81	Back Blue 16	000-255	From low to high intensity (0-100 %)
			68	82	Back White 16	000-255	From low to high intensity (0-100 %)
			69	83	Back Red 17	000-255	From low to high intensity (0-100 %)
			70	84	Back Green 17	000-255	From low to high intensity (0-100 %)
			71	85	Back Blue 17	000-255	From low to high intensity (0-100 %)
			72	86	Back White 17	000-255	From low to high intensity (0-100 %)
			73	87	Back Red 18	000-255	From low to high intensity (0-100 %)
			74	88	Back Green 18	000-255	From low to high intensity (0-100 %)
			75	89	Back Blue 18	000-255	From low to high intensity (0-100 %)
			76	90	Back White 18	000-255	From low to high intensity (0-100 %)
			77	91	Back Red 19	000-255	From low to high intensity (0-100 %)
			78	92	Back Green 19	000-255	From low to high intensity (0-100 %)
			79	93	Back Blue 19	000-255	From low to high intensity (0-100 %)
			80	94	Back White 19	000-255	From low to high intensity (0-100 %)
			81	95	Back Red 20	000-255	From low to high intensity (0-100 %)
			82	96	Back Green 20	000-255	From low to high intensity (0-100 %)
			83	97	Back Blue 20	000-255	From low to high intensity (0-100 %)
			84	98	Back White 20	000-255	From low to high intensity (0-100 %)
			85	99	Back Red 21	000-255	From low to high intensity (0-100 %)
			86	100	Back Green 21	000-255	From low to high intensity (0-100 %)
			87	101	Back Blue 21	000-255	From low to high intensity (0-100 %)
			88	102	Back White 21	000-255	From low to high intensity (0-100 %)
			89	103	Back Red 22	000-255	From low to high intensity (0-100 %)
			90	104	Back Green 22	000-255	From low to high intensity (0-100 %)
			91	105	Back Blue 22	000-255	From low to high intensity (0-100 %)
			92	106	Back White 22	000-255	From low to high intensity (0-100 %)
			93	107	Back Red 23	000-255	From low to high intensity (0-100 %)
			94	108	Back Green 23	000-255	From low to high intensity (0-100 %)
			95	109	Back Blue 23	000-255	From low to high intensity (0-100 %)
			96	110	Back White 23	000-255	From low to high intensity (0-100 %)
			97	111	Back Red 24	000-255	From low to high intensity (0-100 %)

8CH	12CH	27CH	184CH	199CH	Function	Value	Setting
			98	112	Back Green 24	000-255	From low to high intensity (0-100 %)
			99	113	Back Blue 24	000-255	From low to high intensity (0-100 %)
			100	114	Back White 24	000-255	From low to high intensity (0-100 %)
			101	115	Back Red 25	000-255	From low to high intensity (0-100 %)
			102	116	Back Green 25	000-255	From low to high intensity (0-100 %)
			103	117	Back Blue 25	000-255	From low to high intensity (0-100 %)
			104	118	Back White 25	000-255	From low to high intensity (0-100 %)
			105	119	Back Red 26	000-255	From low to high intensity (0-100 %)
			106	120	Back Green 26	000-255	From low to high intensity (0-100 %)
			107	121	Back Blue 26	000-255	From low to high intensity (0-100 %)
			108	122	Back White 26	000-255	From low to high intensity (0-100 %)
			109	123	Back Red 27	000-255	From low to high intensity (0-100 %)
			110	124	Back Green 27	000-255	From low to high intensity (0-100 %)
			111	125	Back Blue 27	000-255	From low to high intensity (0-100 %)
			112	126	Back White 27	000-255	From low to high intensity (0-100 %)
			113	127	Back Red 28	000-255	From low to high intensity (0-100 %)
			114	128	Back Green 28	000-255	From low to high intensity (0-100 %)
			115	129	Back Blue 28	000-255	From low to high intensity (0-100 %)
			116	130	Back White 28	000-255	From low to high intensity (0-100 %)
			117	131	Back Red 29	000-255	From low to high intensity (0-100 %)
			118	132	Back Green 29	000-255	From low to high intensity (0-100 %)
			119	133	Back Blue 29	000-255	From low to high intensity (0-100 %)
			120	134	Back White 29	000-255	From low to high intensity (0-100 %)
			121	135	Back Red 30	000-255	From low to high intensity (0-100 %)
			122	136	Back Green 30	000-255	From low to high intensity (0-100 %)
			123	137	Back Blue 30	000-255	From low to high intensity (0-100 %)
			124	138	Back White 30	000-255	From low to high intensity (0-100 %)
			125	139	Back Red 31	000-255	From low to high intensity (0-100 %)
			126	140	Back Green 31	000-255	From low to high intensity (0-100 %)
			127	141	Back Blue 31	000-255	From low to high intensity (0-100 %)
			128	142	Back White 31	000-255	From low to high intensity (0-100 %)
			129	143	Back Red 32	000-255	From low to high intensity (0-100 %)
			130	144	Back Green 32	000-255	From low to high intensity (0-100 %)
			131	145	Back Blue 32	000-255	From low to high intensity (0-100 %)
			132	146	Back White 32	000-255	From low to high intensity (0-100 %)
			133	147	Back Red 33	000-255	From low to high intensity (0-100 %)
			134	148	Back Green 33	000-255	From low to high intensity (0-100 %)
			135	149	Back Blue 33	000-255	From low to high intensity (0-100 %)
			136	150	Back White 33	000-255	From low to high intensity (0-100 %)
			137	151	Back Red 34	000-255	From low to high intensity (0-100 %)
			138	152	Back Green 34	000-255	From low to high intensity (0-100 %)
			139	153	Back Blue 34	000-255	From low to high intensity (0-100 %)
			140	154	Back White 34	000-255	From low to high intensity (0-100 %)
			141	155	Back Red 35	000-255	From low to high intensity (0-100 %)
			142	156	Back Green 35	000-255	From low to high intensity (0-100 %)
			143	157	Back Blue 35	000-255	From low to high intensity (0-100 %)
			144	158	Back White 35	000-255	From low to high intensity (0-100 %)
			145	159	Back Red 36	000-255	From low to high intensity (0-100 %)
			146	160	Back Green 36	000-255	From low to high intensity (0-100 %)
			147	161	Back Blue 36	000-255	From low to high intensity (0-100 %)
			148	162	Back White 36	000-255	From low to high intensity (0-100 %)

8CH	12CH	27CH	184CH	199CH	Function	Value	Setting
			149	163	Back Red 37	000-255	From low to high intensity (0-100 %)
			150	164	Back Green 37	000-255	From low to high intensity (0-100 %)
			151	165	Back Blue 37	000-255	From low to high intensity (0-100 %)
			152	166	Back White 37	000-255	From low to high intensity (0-100 %)
			153	167	Back Red 38	000-255	From low to high intensity (0-100 %)
			154	168	Back Green 38	000-255	From low to high intensity (0-100 %)
			155	169	Back Blue 38	000-255	From low to high intensity (0-100 %)
			156	170	Back White 38	000-255	From low to high intensity (0-100 %)
			157	171	Back Red 39	000-255	From low to high intensity (0-100 %)
			158	172	Back Green 39	000-255	From low to high intensity (0-100 %)
			159	173	Back Blue 39	000-255	From low to high intensity (0-100 %)
			160	174	Back White 39	000-255	From low to high intensity (0-100 %)
			161	175	Back Red 40	000-255	From low to high intensity (0-100 %)
			162	176	Back Green 40	000-255	From low to high intensity (0-100 %)
			163	177	Back Blue 40	000-255	From low to high intensity (0-100 %)
			164	178	Back White 40	000-255	From low to high intensity (0-100 %)
			165	179	Back Red 41	000-255	From low to high intensity (0-100 %)
			166	180	Back Green 41	000-255	From low to high intensity (0-100 %)
			167	181	Back Blue 41	000-255	From low to high intensity (0-100 %)
			168	182	Back White 41	000-255	From low to high intensity (0-100 %)
			169	183	Back Red 42	000-255	From low to high intensity (0-100 %)
			170	184	Back Green 42	000-255	From low to high intensity (0-100 %)
			171	185	Back Blue 42	000-255	From low to high intensity (0-100 %)
			172	186	Back White 42	000-255	From low to high intensity (0-100 %)
			173	187	Back Red 43	000-255	From low to high intensity (0-100 %)
			174	188	Back Green 43	000-255	From low to high intensity (0-100 %)
			175	189	Back Blue 43	000-255	From low to high intensity (0-100 %)
			176	190	Back White 43	000-255	From low to high intensity (0-100 %)
			177	191	Back Red 44	000-255	From low to high intensity (0-100 %)
			178	192	Back Green 44	000-255	From low to high intensity (0-100 %)
			179	193	Back Blue 44	000-255	From low to high intensity (0-100 %)
			180	194	Back White 44	000-255	From low to high intensity (0-100 %)
			181	195	Back Red 45	000-255	From low to high intensity (0-100 %)
			182	196	Back Green 45	000-255	From low to high intensity (0-100 %)
			183	197	Back Blue 45	000-255	From low to high intensity (0-100 %)
			184	198	Back White 45	000-255	From low to high intensity (0-100 %)
		27		199	Function (if DMX value is present for 3 seconds)	000-049	No Function
						050-054	Dimmer Curve: Linear
						055-059	Dimmer Curve: Square
						060-064	Dimmer Curve: Inverse Square
						065-069	Dimmer Curve: S-Curve
						070-074	Dimmer Speed: Fast
						075-079	Dimmer Speed: Smooth
						080-109	No Function
						110-114	Display Direction: Normal
						115-119	Display Direction: Inverted
						120-124	PWM Frequency: 1 kHz
						125-129	PWM Frequency: 3 kHz
						130-134	PWM Frequency: 6 kHz
						135-139	PWM Frequency: 12 kHz
						140-144	No Function

8CH	12CH	27CH	184CH	199CH	Function	Value	Setting
						145–149	Fan Mode: Auto
						150–154	Fan Mode: High
						155–159	Fan Mode: Low
						160–164	Fan Mode: Off
						165–255	No Function

6.8. RDM Information

This device supports RDM (see [6.8.2. Supported RDM PIDs \(Parameter IDs\)](#)).

6.8.1. RDM Details

- Responder ID: 29B4:11BXXXXX
- Manufacturer's ID: Showtec (Highlite International B.V.)
- Manufacturer Label: Showtec
- Model Description: Lumina Beam
- Model ID: 283 (11B hexadecimal)
- Device Label: Lumina Beam

Note:

An RDM responder ID consists of 3 parts:

- 1st part – 4 digits – Manufacturer's ID
- 2nd part – 3 digits – Model ID
- 3rd part – 5 digits – Unique ID
- The RDM responder IDs of all products of Highlite International start with the same 4 digits. The first 7 digits of the RDM responder ID for each model are the same. The last 5 digits are different for each device.

6.8.2. Supported RDM PIDs (Parameter IDs)

RDM Parameter ID	Value	Required	GET	SET
SUPPORTED_PARAMETERS	0x0050	*	*	
DEVICE_MODEL_DESCRIPTION	0x0080		*	
MANUFACTURER_LABEL	0x0081		*	
DEVICE_LABEL	0x0082		*	*
FACTORY_DEFAULTS	0x0090		*	*
DMX_PERSONALITY	0x00E0		*	*
DMX_PERSONALITY_DESCRIPTION	0x00E1		*	
DMX_START_ADDRESS	0x00F0	*	*	*
SENSOR_DEFINITION	0x0200		*	
SENSOR_VALUE	0x0201		*	*
CURVE	0x0343		*	*
CURVE_DESCRIPTION	0x0344	*	*	
MODULATION_FREQUENCY	0x0347		*	*
MODULATION_FREQUENCY_DESCRIPTION	0x0348	*	*	
DEVICE_HOURS	0x0400		*	*

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	Make sure that the device is connected to power supply and the cables are plugged in
	Internal fuse is blown	Disconnect the device and contact your Highlite International dealer
The device responds erratically	The factory settings of the device are changed	Reset the parameters of the device to the default factory settings (see 6.6.7.9. Factory Reset on page 38)
The device does not respond to DMX control	The controller is not connected	Connect the controller
	The signal is reversed. The 5-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	Connections are defective	Examine connections and cables. Correct defective 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	Make sure that the address settings are correct
	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 LEDs cut out intermittently	LEDs are damaged	Disconnect the device and contact your Highlite International dealer
	The input power parameters of the device do not match the local AC voltage and frequency	Disconnect the device. Make sure that the local current, voltage and frequency match the input voltage, current and frequency specified on the information label on the device

7.1. Error Messages

In this submenu you can view whether there are any system errors.

If you have selected Error Status and there are no errors the display shows:



In case one of the error messages below appear on the error information screen, refer to Information (see [6.6.8. Information](#) on page 38). If you can not solve the problem, discontinue the use of the device and contact your Highlite International dealer for more information.

Error code	Explanation
Main LED Temp	Temperature detection error, the device automatically enters protection mode and reduces its power. Reason for the error: The temperature sensor is damaged or the temperature sensor is not connected properly. (Please repair in time to ensure the normal use of this device)
Backlight Temp	
Power Temp	
LED Fan	LED fan error. Reason for the error: The fan keeps rotating or does not rotate at all

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, fixings and installation points.
- The lens is not cracked or damaged.
- The power cables are not damaged and do not show any material fatigue.

8.3. Basic Cleaning Instructions

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 5 minutes.
- 03) Clean the device with a soft, lint-free cloth.

**Attention**

- Do not immerse the device in liquid.
- Do not use alcohol or solvents.

8.4. 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.

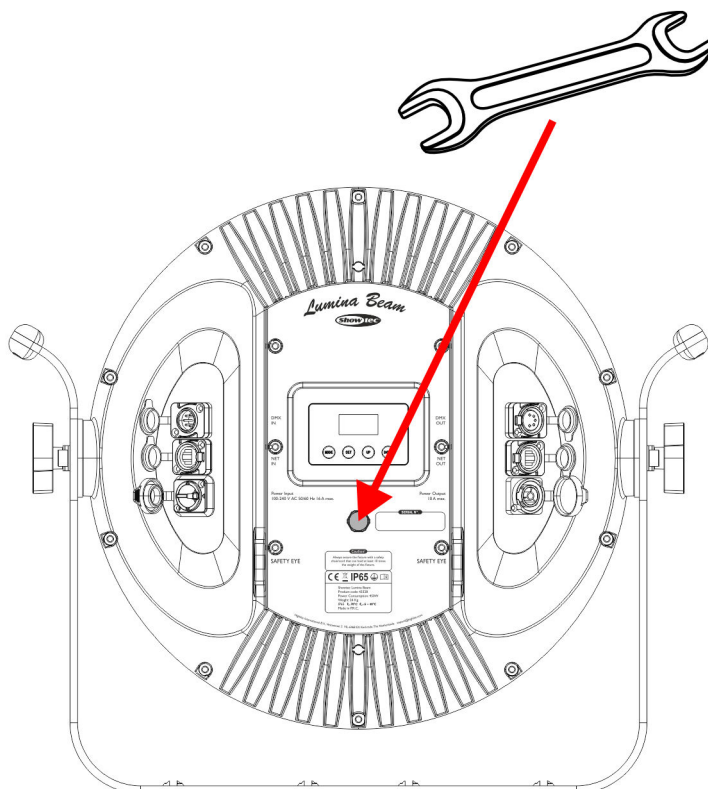
8.4.1. Draining Condensation Water

The Lumina Beam is IP65 rated. The device can resist water jets. If the device is exposed to extreme humid conditions during use, condensation may collect inside the device. This can happen also during transportation, if the device is exposed to extreme temperature variations.

If condensation water collects inside the device, follow the steps below to remove the condensation water:

- 01) Carefully remove the **protective vent (09)** with a wrench (16 mm).
- 02) Let the device operate with all LEDs at full output for 60 minutes.
- 03) Let the device cool down for 30 minutes.
- 04) Install the **protective vent (09)** back. Make sure that you do not overtighten it.

Figure 14



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 (see [8.3. Basic Cleaning Instructions](#) on page 50).
- 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



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

