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.

Design and product specifications are subject to change without prior notice.

For the latest version of this document and other language versions, please visit our website www.highlite.com or contact us at service@highlite.com.

Table of contents

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 Shark - The Meg - Beam One
- Schuko to Power Pro cable (1,5 m)
- Safety cable
- 2x Quick-lock bracket
- User manual
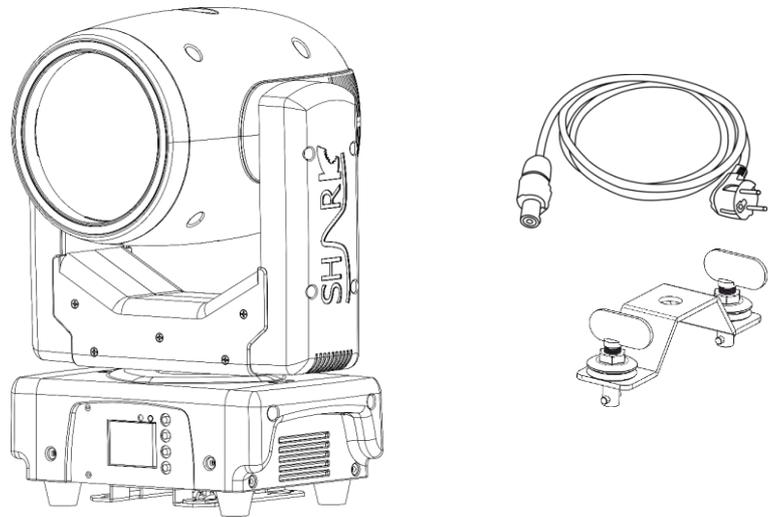
Fig. 01

1.2. Intended Use

This device is intended for professional use as a moving head. It is not suitable for households and for general lighting.

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

1.3. Product Lifespan

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

1.4. LEDs Lifespan

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

1.5. Text Conventions

Throughout the user manual the following text conventions are used:

- Buttons: All buttons are in bold lettering, for example "Press the **UP/DOWN** buttons"

- References: References to chapters and parts of the device are in bold lettering, for example: "Refer to **2. Safety**", "turn the **adjustment handle (05)**"
- 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 mounting bracket of the device.

The information label contains the following symbols:

🗑️	This device shall not be treated as household waste.
🏠	This device is designed for indoor use.
⏚	This device falls under IEC protection class I.
◖- - - m‖	Minimum distance from lighted objects.
◗- - - m‖	Minimum distance from other objects.
🔘→🔘	Replace any cracked protective shield.
⚠️ ⚡	Caution: Risk of electric shock. Do not open. Caution: To reduce the risk of electrical shock, do not remove cover. No user-serviceable parts inside. Refer servicing to qualified personnel.
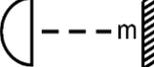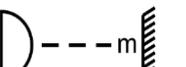
2. Safety

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

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

2.1. Warnings and Safety Instructions

> **DANGER**
> **Danger for children**

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

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

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

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

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

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

This device falls under IEC protection class I.

- Make sure that the device is electrically connected to ground (earth). Connect the device only to a socket-outlet with ground (earth) connection.
- Do not cover the ground (earth) connection.
- Do not bypass the thermostatic switch or fuses.
- 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.

> ⚠️ **WARNING**
> **Risk of epileptic shock**

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

> ⚠️ **CAUTION**
> **Risk of injury due to movement of the device**

The head of the device can move quickly. Persons staying near the device could be injured or frightened.

- Make sure that there are no persons close to the device when you turn on the device and during operation.
- Keep body parts away from the moving parts of the device when servicing and during maintenance. Long hair or loose clothing can be entangled during the rotation of the moving head.

> ❗ **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 decreases 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 the use immediately.

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

This device is designed to be used as a professional moving head. Any incorrect use may lead to hazardous situations and result in injuries and material damage.

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

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

Make sure that:

- All screws used for installing the device or parts of the device are tightly fastened and are not corroded.
- The safety devices are not damaged.
- There are no deformations on housings, fixations and installation points.
- The 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 IP20 rated. IP (Ingress Protection) 20 class provides protection against solid objects greater than 12 mm, such as fingers, and no protection against harmful ingress of water.

2.2. Requirements for the User

This product may be used by ordinary persons. Maintenance may be carried by ordinary persons. Installation and service shall be carried out only by instructed or skilled persons. Contact your Highlite 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 to avoid hazards associated with the installation, service and maintenance of this product.

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

3. Description of the Device

The Showtec Shark - The Meg - Beam One is a compact but powerful 100 Watt LED moving head with a very narrow beam angle of 1,6 degrees and lots of impressive effects, including a controllable LED ring effect. It has a colour wheel with 11 colours plus open and a rainbow effect. Two individually controllable and indexed rotating prisms with 16 and 24 facets can be alternated, and the gobo wheel with gobo shake has 14 gobos + open. The motorised focus allows for razor sharp (gobo) images, while the frost filter provides a smoothed out beam dispersion. The LED ring can be controlled separately and produces selectable graphic patterns in selectable colours. The Shark - The Meg - Beam One can be controlled through DMX and Master/Slave, and has several built-in programs for stand-alone operation.

3.1. Front View

01) Lens / 1x 100 W CW LED module
02) Signal LED
03) Built-in microphone
04) TFT display
05) Control buttons
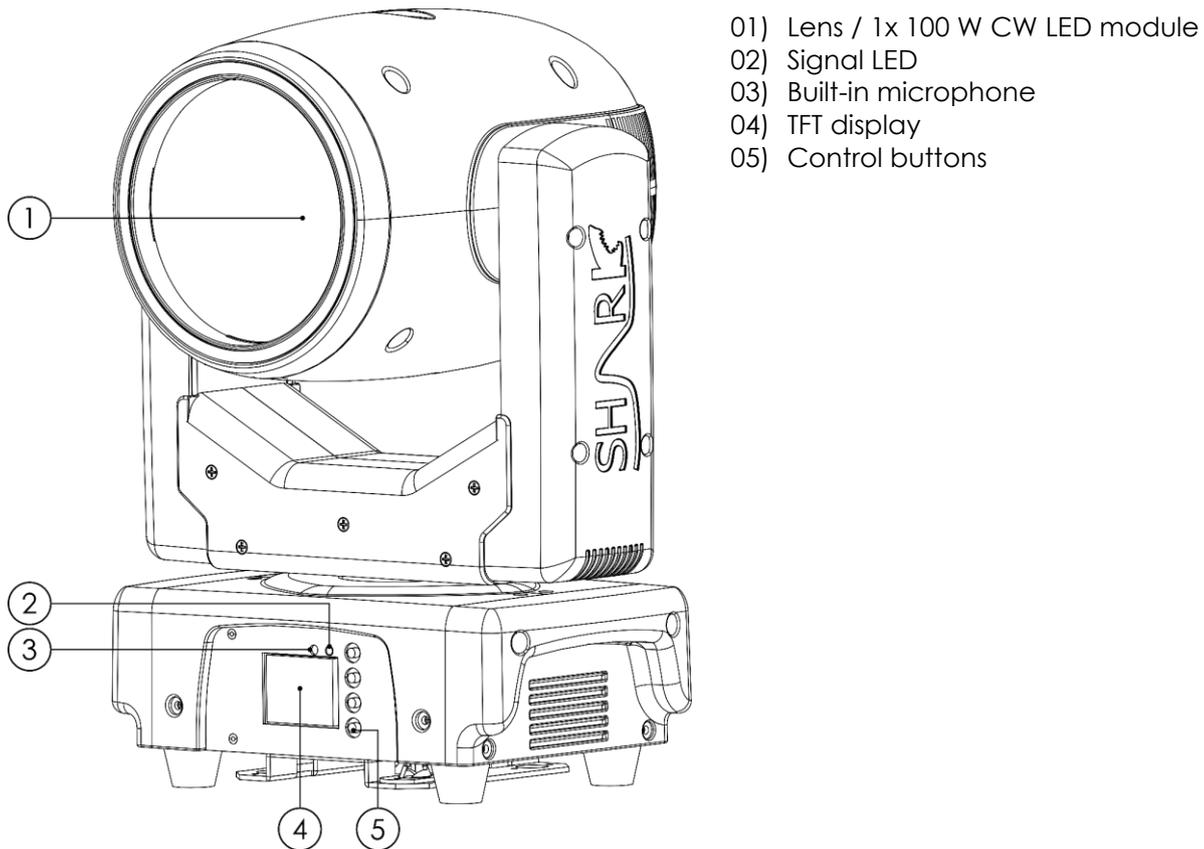
Fig. 02

3.2. Back View
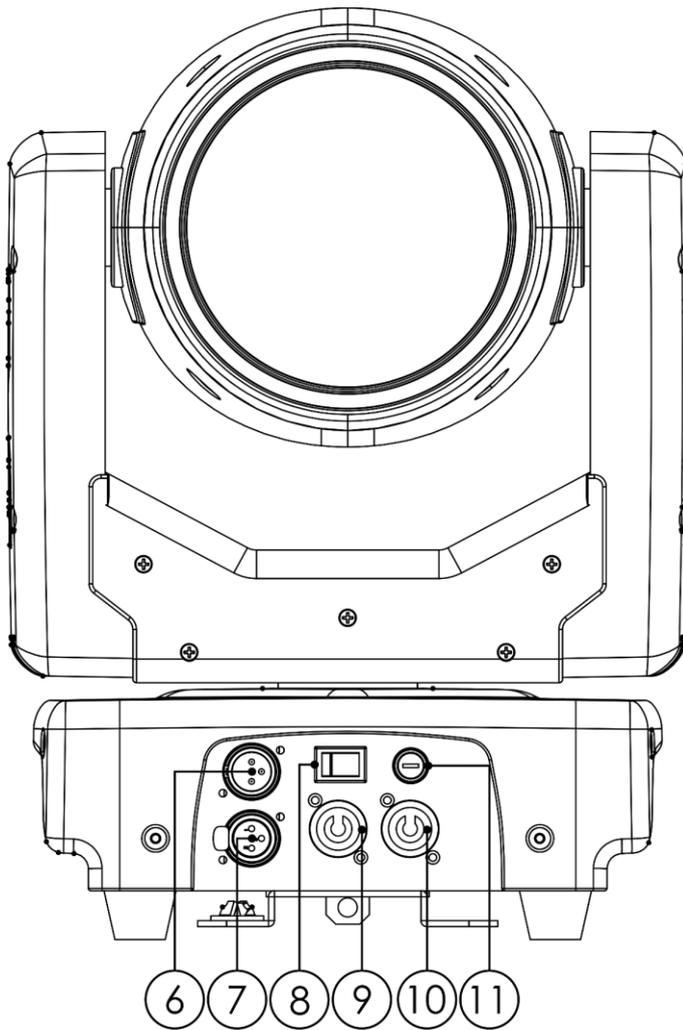
06) 3-pin DMX signal connector IN
07) 3-pin DMX signal connector OUT
08) Power switch (ON / OFF)
09) Power Pro connector IN (Blue)
10) Power Pro connector OUT (Grey)
11) Fuse F4AL / 250 V

Fig. 03

3.3. Bottom View
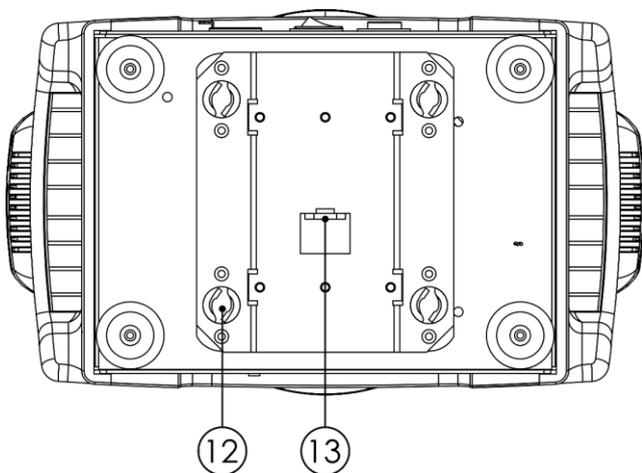
12) Mounting openings for quick lock bracket
13) Mounting opening for safety eye

Fig. 04

Showtec

3.4. Product Specifications

Model:	Shark - The Meg - Beam One

Electrical:	
Input voltage:	100–240 V AC, 50/60 Hz
Power consumption:	175 W
Fuse:	F4AL, 250 V

Physical:	
Dimensions:	262 x 165 x 424 mm (L x W x H) (including bracket)
Weight:	10,85 kg

Optics:	
Light source:	1x 100 W White LED module
Dimmer:	0–100 %
Focus:	Motorized
Frost:	Frost filter
Prism:	16-facet, 24-facet
Dynamics effects:	Prism Index, Prism Rotate
Beam angle Circular:	1,6°
Strobe:	0–20 Hz
Lux @2m	822769 lx
Lux @3m	365675 lx
Lux @5m	131643 lx
Lumen Total:	6056 lm
CRI:	76,1
Dichroic Colour Wheel 1	11 + open
Gobo Wheel 1	14 + Open
Pan:	540 °
Tilt	270 °

Operation and control:	
Control:	Stand-alone (Static, Auto, Built-in Programs, Manual) Master/Slave DMX-512
DMX channels:	15 channels 22 channels 30 channels
Control panel:	TFT display and buttons

Connections:	
Power connections:	Power Pro connectors IN/OUT
Data connections:	3-pin DMX connectors IN/OUT
Signal pinouts:	Pin 1 (ground), pin 2 (-), pin 3 (+)

Construction:	
Housing:	Metal / PVC
Color:	Black
IP rating:	IP20
Cooling:	Axial Fan

Thermal:	
Minimum ambient temperature t_a:	0 °C
Maximum ambient temperature t_a:	45 °C

Minimum distance:	
Minimum distance from flammable surfaces:	0,8 m
Minimum distance to lighted object:	0,8 m

Show tec

3.5. Dimensions
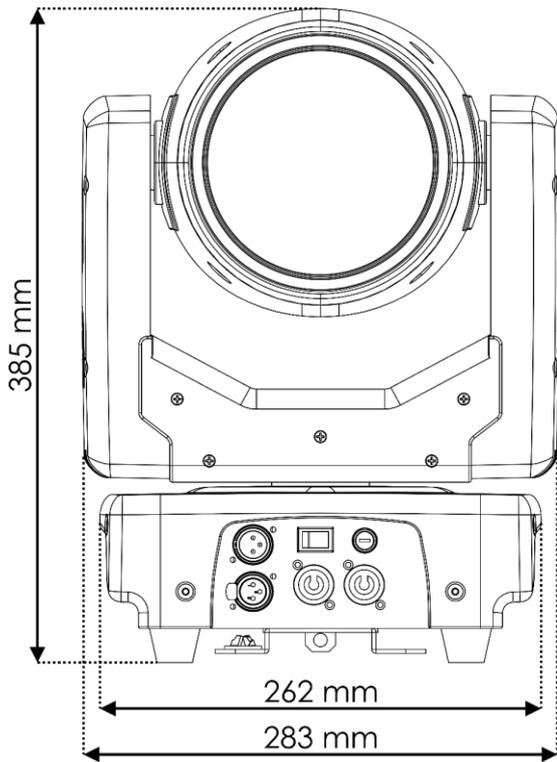
Fig. 05
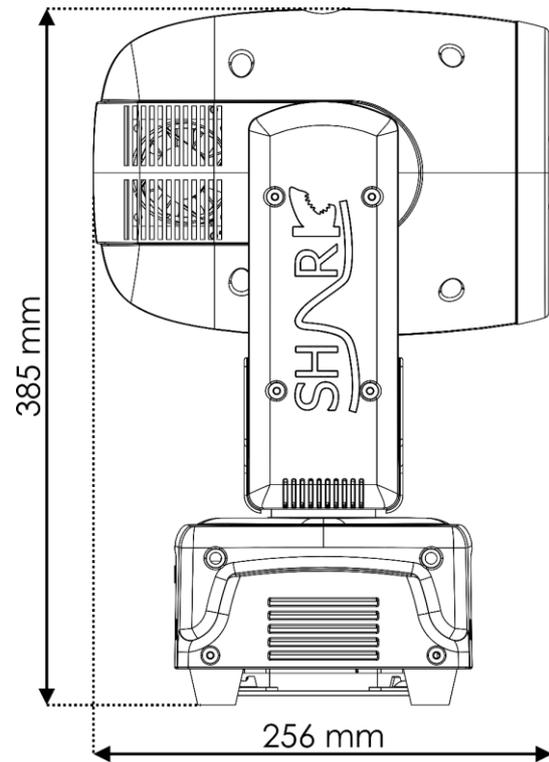
Fig. 06
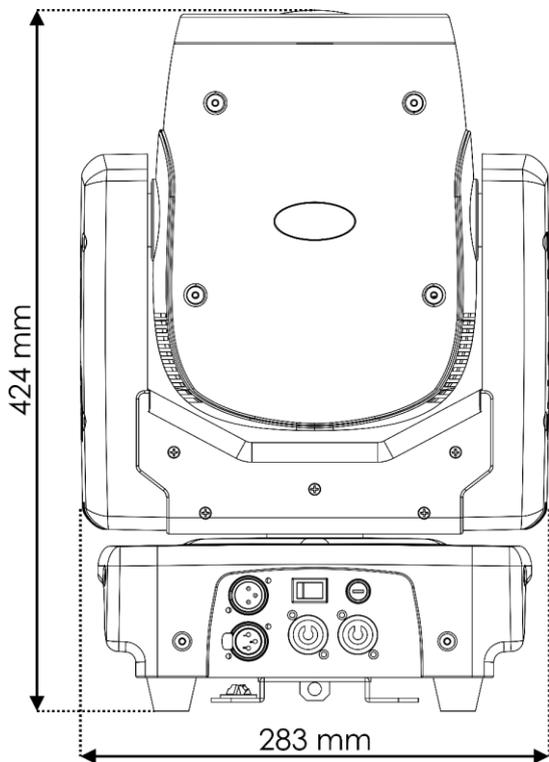
Fig. 07
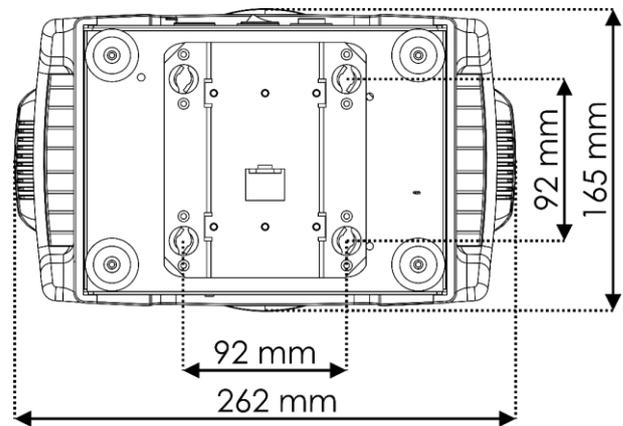
Fig. 08

4. Installation

4.1. Safety Instructions for Installation

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

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

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

4.2. Personal Protective Equipment

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

4.3. Installation Site Requirements

- The device can be used only indoors.
- The device can be mounted to a truss or other rigging structure in any orientation.
- The minimum distance between the light output and the illuminated surface must be bigger than 0,8 m.
- The maximum ambient temperature t_a = 45 °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 and/or 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 (12)**, as shown in Fig. 09

unlocked   locked
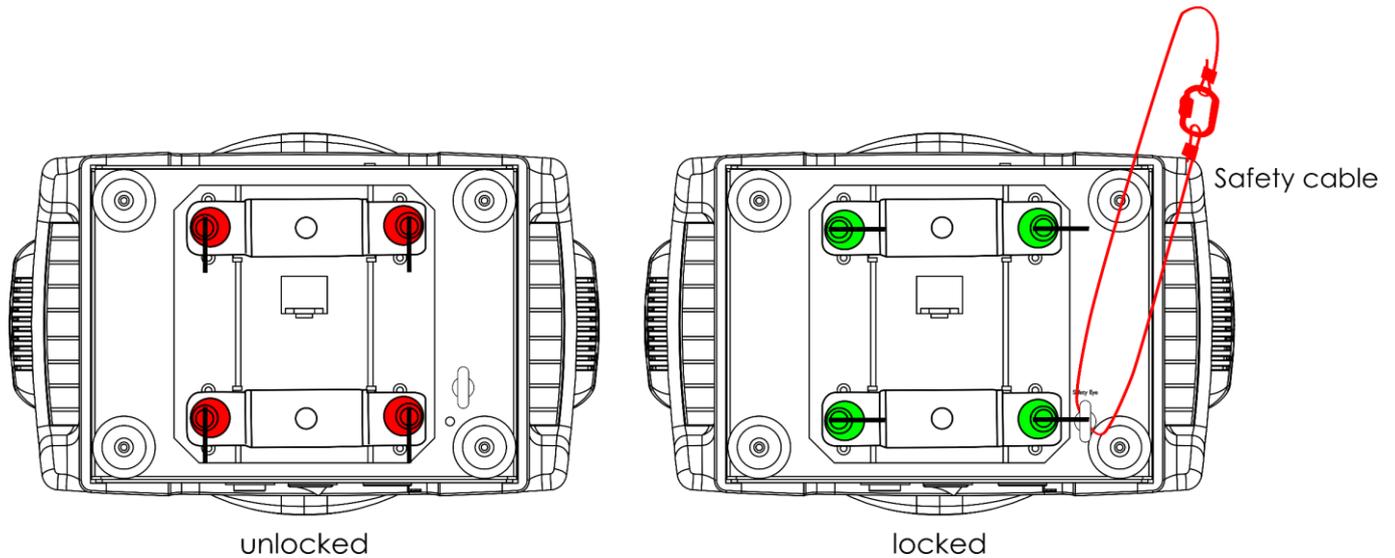
Safety cable

Fig. 09

02) Attach the device to the supporting structure. Make sure that the device cannot move freely.
03) Secure the device with a secondary suspension, for example a safety cable. Make sure that the secondary suspension can hold 10 times the weight of the device. If possible, the secondary suspension should be attached to a supporting structure independent of the primary suspension. Put the safety cable through the safety eye as shown in Fig. 09.

4.5. 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 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.

4.6. 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: 4 devices Shark - The Meg - Beam One
● at 200–240 V: 8 devices Shark - The Meg - Beam One

5. Setup

5.1. Warnings and Precautions

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

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

5.2. Stand-alone Setup

When the Shark - The Meg - Beam One is not connected to a controller or to other devices, it functions as a stand-alone device.

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

5.3. DMX Connection

5.3.1. DMX-512 Protocol

You need a DMX serial data link to run light shows of one or more devices using a DMX-512 controller or to run synchronized shows of two or more devices set in a master/slave control mode.

The Shark - The Meg - Beam One has 3-pin DMX signal IN and OUT connectors.

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

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

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

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

5.3.2. DMX Cables

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

If you use 3-pin 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. 10.

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

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

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

Pin 1: GND (screen)
Pin 2: Signal (-)
Pin 3: Signal (+)
Pin 4: N/C
Pin 5: N/C
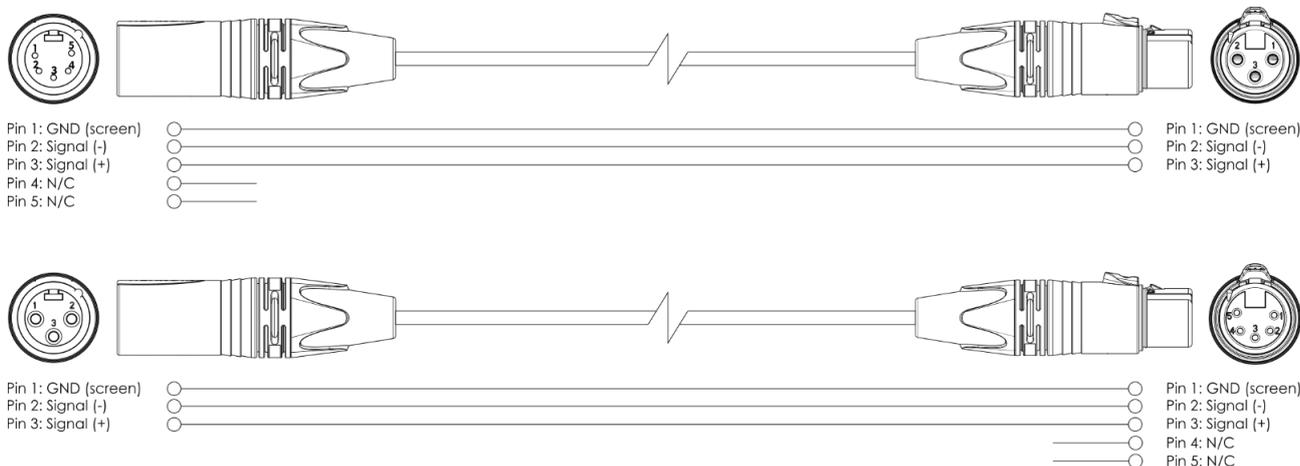
Fig. 10

5.3.3. Master/Slave Setup

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

01) Connect the first device's DMX OUT connector to the second device's DMX IN connector with a 3-pin DMX cable. The first connected device in the setup will be automatically recognized as the master device.
02) Repeat step 1 to connect all devices as shown in Fig. 11.
03) Set all subsequent devices in the setup as slave devices. See **6.6.1. DMX Functions** on page 27 for more information.
04) Connect a DMX terminator (120 Ω resistor) to the DMX OUT connector of the last device in the setup.
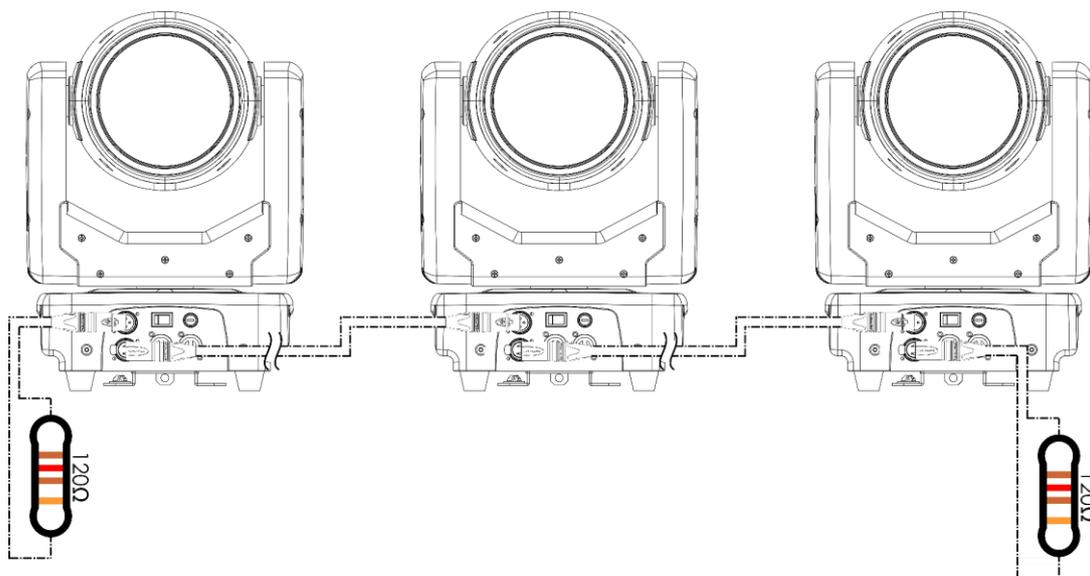
Fig. 11

5.3.4. DMX Linking

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

01) Use a 3-pin DMX cable to connect the DMX OUT connector of the lighting controller to the DMX IN connector of the first device.
02) Connect the first device's DMX OUT connector to the second device's DMX IN connector with a 3-pin DMX cable.
03) Repeat step 2 to connect all devices in a daisy-chain as shown in Fig. 12.
04) Connect a DMX terminator (120 Ω resistor) to the DMX OUT connector of the last device on the data link.
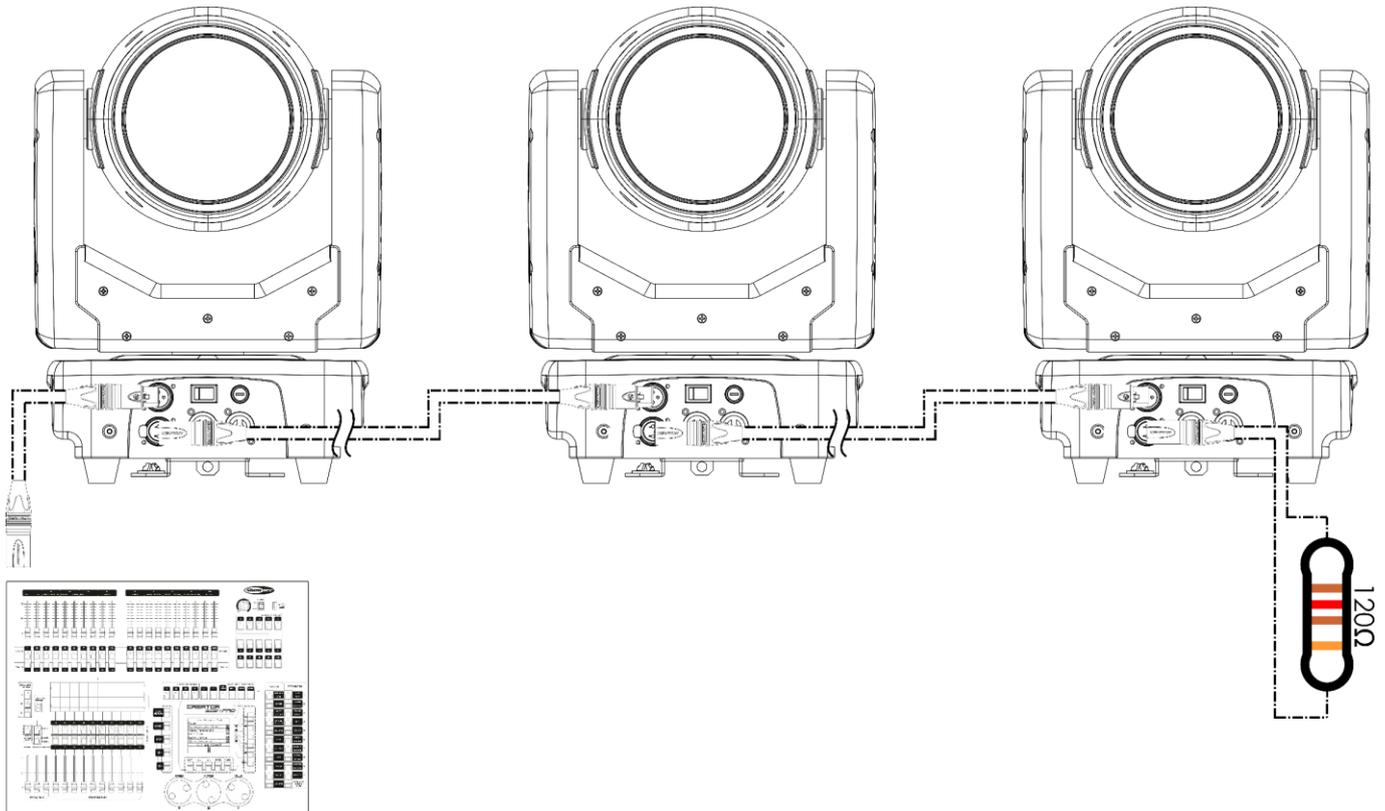
Fig. 12

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 Shark - The Meg - Beam One has 3 personalities: 15 channels, 22 channels and 30 channels.

If you want to connect multiple devices on one data link and use them in 30-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 31, as 1 + 30 = 31.
03) Set the starting address of the 3rd device on the data link to 61, as 31 + 30 = 61.
04) Continue assigning the starting addresses of the remaining devices by adding each time 30 to the previous number.

Make sure that you do not have any overlapping channels in order to control the Shark - The Meg - Beam One correctly. If two or more devices are addressed similarly, they will work similarly.

6. Operation

6.1. Safety Instructions for Operation

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

This device is intended for professional use as a moving head. It 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 Shark - The Meg - Beam One can be operated with a DMX controller, or without a DMX controller as a stand-alone device or in a master/slave setup.

The Shark - The Meg - Beam One supports the following control modes:

- Stand-alone: Auto Run, Music Run
- Master/Slave: Auto Run, Music Run
- DMX-512:   3 channel modes (15, 22 and 30 channels)

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

In auto operation mode you can run the auto program or one of the 9 built-in auto programs.

To run one of the 9 programs without a DMX controller, activate Programs menu. See **6.6.1.3. Auto Run** on page 28 for more information.

For more information about sound-controlled operation mode see **6.6.1.4. Music Run** on page 29.

To operate the device with a DMX controller:

01) Set the DMX starting address of the device in the DMX Address menu. See **6.6.1.1. DMX Address** on page 27 for more information.
02) Select the DMX channel mode in the DMX Configuration menu. See **6.6.1.2. Channel Mode** on page 28 for more information. See **6.7. DMX Channels** on pages 33–36 for complete overview of all DMX channels.

6.3. Control Panel

A) TFT DISPLAY
B) MENU button
C) UP button
D) DOWN button
E) ENTER button
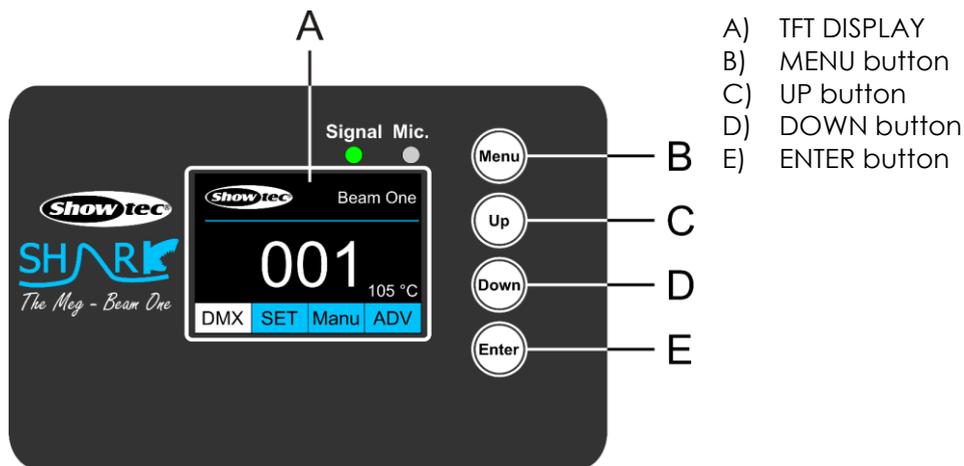
Fig. 13

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

6.4. Start-up

Upon start-up the display shows a splash screen, indicating the device is resetting.

Afterwards the display shows the start screen. The start screen provides information about the temperature of the LEDs, the DMX starting address of the device, and the selected DMX channel mode:

Press the **ENTER** button or the **UP/DOWN** buttons to enter the main menu.

Note:

If no button is pressed, after 25 seconds of inactivity the display will turn off. Press any button to turn the display on.

6.5. Menu Overview

Show tec

Beam One

001 105 °C

| DMX | SET | Manu | ADV |

ENTER →

Fixture Set
Reset Default	▶
Signal Set	Wire
Reverse Pan	OFF
Reverse Tilt	OFF
Select Pan	360
Select Tilt	90

ENTER →

Fixture Set
Reset Default	No
Signal Set	Wire
Reverse Pan	OFF
Reverse Tilt	OFF
Select Pan	360
Select Tilt	90

UP/DOWN

Fixture Set
Reset Default	Yes
Signal Set	Wire
Reverse Pan	OFF
Reverse Tilt	OFF
Select Pan	360
Select Tilt	90

Fixture Set
Reset Default	No
Signal Set	Wire
Reverse Pan	OFF
Reverse Tilt	OFF
Select Pan	360
Select Tilt	90

Fixture Set
Reset Default	No
Signal Set	Wire
Reverse Pan	OFF
Reverse Tilt	OFF
Select Pan	360
Select Tilt	90

UP/DOWN

Fixture Set
Reset Default	Yes
Signal Set	Wire
Reverse Pan	ON
Reverse Tilt	OFF
Select Pan	360
Select Tilt	90

Fixture Set
Reset Default	No
Signal Set	Wire
Reverse Pan	OFF
Reverse Tilt	OFF
Select Pan	360
Select Tilt	90

UP/DOWN

Fixture Set
Reset Default	Yes
Signal Set	Wire
Reverse Pan	OFF
Reverse Tilt	ON
Select Pan	360
Select Tilt	90

Fixture Set
Reset Default	No
Signal Set	Wire
Reverse Pan	OFF
Reverse Tilt	OFF
Select Pan	360
Select Tilt	90

UP/DOWN

Fixture Set
Reset Default	Yes
Signal Set	Wire
Reverse Pan	OFF
Reverse Tilt	OFF
Select Pan	540
Select Tilt	90

UP/DOWN

Fixture Set
Reset Default	Yes
Signal Set	Wire
Reverse Pan	OFF
Reverse Tilt	OFF
Select Pan	630
Select Tilt	90

Fixture Set
Reset Default	No
Signal Set	Wire
Reverse Pan	OFF
Reverse Tilt	OFF
Select Pan	360
Select Tilt	90

UP/DOWN

Fixture Set
Reset Default	Yes
Signal Set	Wire
Reverse Pan	OFF
Reverse Tilt	OFF
Select Pan	360
Select Tilt	180

UP/DOWN

Fixture Set
Reset Default	Yes
Signal Set	Wire
Reverse Pan	OFF
Reverse Tilt	OFF
Select Pan	360
Select Tilt	270

Fixture Set
Mic Sensitivity	000
DMX Fail	Wire
Scan Quick Mode	OFF
Reverse Display	OFF

UP/DOWN

Fixture Set
Mic Sensitivity	99
DMX Fail	Wire
Scan Quick Mode	OFF
Reverse Display	OFF

Fixture Set
Mic Sensitivity	000
DMX Fail	OFF
Scan Quick Mode	OFF
Reverse Display	OFF

UP/DOWN

Fixture Set
Mic Sensitivity	000
DMX Fail	ON
Scan Quick Mode	OFF
Reverse Display	OFF

Fixture Set
Mic Sensitivity	000
DMX Fail	OFF
Scan Quick Mode	OFF
Reverse Display	OFF

UP/DOWN

Fixture Set
Mic Sensitivity	000
DMX Fail	OFF
Scan Quick Mode	ON
Reverse Display	OFF

Fixture Set
Mic Sensitivity	000
DMX Fail	OFF
Scan Quick Mode	OFF
Reverse Display	OFF

UP/DOWN

Fixture Set
Mic Sensitivity	000
DMX Fail	OFF
Scan Quick Mode	OFF
Reverse Display	ON

UP/DOWN

Show tec

UP/DOWN

UP/DOWN

UP/DOWN

Manual	
Gobo Wheel 1	000
Strobe	000
Dimmer	000
Focus	000
Prism1	000
Prism2	000

UP/DOWN

Manual	
Gobo Wheel 1	000
Strobe	000
Dimmer	000
Focus	255
Prism1	000
Prism2	000

Manual	
Gobo Wheel 1	000
Strobe	000
Dimmer	000
Focus	000
Prism1	000
Prism2	000

UP/DOWN

Manual	
Gobo Wheel 1	000
Strobe	000
Dimmer	000
Focus	000
Prism1	255
Prism2	000

Manual	
Gobo Wheel 1	000
Strobe	000
Dimmer	000
Focus	000
Prism1	000
Prism2	000

UP/DOWN

Manual	
Gobo Wheel 1	000
Strobe	000
Dimmer	000
Focus	000
Prism1	000
Prism2	255

Manual	
Frost	000
Color Time	000
Gobo Time	000
Pix_Dimmer	000
Pix_Strobe	000
Pix_Red	000

UP/DOWN

Manual	
Frost	255
Color Time	000
Gobo Time	000
Pix_Dimmer	000
Pix_Strobe	000
Pix_Red	000

Manual	
Frost	000
Color Time	000
Gobo Time	000
Pix_Dimmer	000
Pix_Strobe	000
Pix_Red	000

UP/DOWN

Manual	
Frost	000
Color Time	255
Gobo Time	000
Pix_Dimmer	000
Pix_Strobe	000
Pix_Red	000

Manual	
Frost	000
Color Time	000
Gobo Time	000
Pix_Dimmer	000
Pix_Strobe	000
Pix_Red	000

UP/DOWN

Manual	
Frost	000
Color Time	000
Gobo Time	255
Pix_Dimmer	000
Pix_Strobe	000
Pix_Red	000

Manual	
Frost	000
Color Time	000
Gobo Time	000
Pix_Dimmer	000
Pix_Strobe	000
Pix_Red	000

UP/DOWN

Manual	
Frost	000
Color Time	000
Gobo Time	000
Pix_Dimmer	255
Pix_Strobe	000
Pix_Red	000

Manual	
Frost	000
Color Time	000
Gobo Time	000
Pix_Dimmer	000
Pix_Strobe	000
Pix_Red	000

UP/DOWN

Manual	
Frost	000
Color Time	000
Gobo Time	000
Pix_Dimmer	000
Pix_Strobe	255
Pix_Red	000

Manual	
Frost	000
Color Time	000
Gobo Time	000
Pix_Dimmer	000
Pix_Strobe	000
Pix_Red	000

UP/DOWN

Manual	
Frost	000
Color Time	000
Gobo Time	000
Pix_Dimmer	000
Pix_Strobe	000
Pix_Red	255

Manual	
Pix_Green	000
Pix_Blue	000
Pix_Color	000
Pix_Macro	000
Pix_Speed	000
Pix_Expand	000

UP/DOWN

Manual	
Pix_Green	255
Pix_Blue	000
Pix_Color	000
Pix_Macro	000
Pix_Speed	000
Pix_Expand	000

Manual	
Pix_Green	000
Pix_Blue	000
Pix_Color	000
Pix_Macro	000
Pix_Speed	000
Pix_Expand	000

UP/DOWN

Manual	
Pix_Green	000
Pix_Blue	255
Pix_Color	000
Pix_Macro	000
Pix_Speed	000
Pix_Expand	000

Show tec

UP/DOWN

Manual				Manual	
Pix_Green	000			Pix_Green	000
Pix_Blue	000	**UP/DOWN**		Pix_Blue	000
Pix_Color	000			Pix_Color	255
Pix_Macro	000			Pix_Macro	000
Pix_Speed	000			Pix_Speed	000
Pix_Expand	000			Pix_Expand	000

Manual				Manual	
Pix_Green	000			Pix_Green	000
Pix_Blue	000	**UP/DOWN**		Pix_Blue	000
Pix_Color	000			Pix_Color	000
Pix_Macro	000			Pix_Macro	255
Pix_Speed	000			Pix_Speed	000
Pix_Expand	000			Pix_Expand	000

Manual				Manual	
Pix_Green	000			Pix_Green	000
Pix_Blue	000	**UP/DOWN**		Pix_Blue	000
Pix_Color	000			Pix_Color	000
Pix_Macro	000			Pix_Macro	000
Pix_Speed	000			Pix_Speed	255
Pix_Expand	000			Pix_Expand	000

Manual				Manual	
Pix_Green	000			Pix_Green	000
Pix_Blue	000	**UP/DOWN**		Pix_Blue	000
Pix_Color	000			Pix_Color	000
Pix_Macro	000			Pix_Macro	000
Pix_Speed	000			Pix_Speed	000
Pix_Expand	000			Pix_Expand	255

UP/DOWN

Manual				Manual	
Pix_FDimmer	000			Pix_Green	255
Pix_BDimmer	000	**UP/DOWN**		Pix_Blue	000
Pix_BRed	000			Pix_Color	000
Pix_BGreen	000			Pix_Macro	000
Pix_BBlue	000			Pix_Speed	000

Manual				Manual	
Pix_FDimmer	000			Pix_Green	000
Pix_BDimmer	000	**UP/DOWN**		Pix_Blue	255
Pix_BRed	000			Pix_Color	000
Pix_BGreen	000			Pix_Macro	000
Pix_BBlue	000			Pix_Speed	000

Manual				Manual	
Pix_FDimmer	000			Pix_Green	000
Pix_BDimmer	000	**UP/DOWN**		Pix_Blue	000
Pix_BRed	000			Pix_Color	255
Pix_BGreen	000			Pix_Macro	000
Pix_BBlue	000			Pix_Speed	000

Manual				Manual	
Pix_FDimmer	000			Pix_Green	000
Pix_BDimmer	000	**UP/DOWN**		Pix_Blue	000
Pix_BRed	000			Pix_Color	000
Pix_BGreen	000			Pix_Macro	255
Pix_BBlue	000			Pix_Speed	000

Manual				Manual	
Pix_FDimmer	000			Pix_Green	000
Pix_BDimmer	000	**UP/DOWN**		Pix_Blue	000
Pix_BRed	000			Pix_Color	000
Pix_BGreen	000			Pix_Macro	000
Pix_BBlue	000			Pix_Speed	255

UP/DOWN

Show tec	Beam One
001	
	105 °C
DMX	SET	Manu	ADV

ENTER

Advanced	
	Code=088
Calibration	
UID08 02 0F FF FF	
Temperature	072
Ver	V2

ENTER

Advanced	
Calibration	
UID08 02 0F FF FF	
Temperature	072
Ver	V2

ENTER

Advanced	
PAN	000
TILT	000
Color Wheel	000
Gobo Wheel 1	000
Focus	000
Prism1	000

UP/DOWN

Advanced	
PAN	255
TILT	000
Color Wheel	000
Gobo Wheel 1	000
Focus	000
Prism1	000

Advanced	
PAN	000
TILT	000
Color Wheel	000
Gobo Wheel 1	000
Focus	000
Prism1	000

UP/DOWN

Advanced	
PAN	000
TILT	255
Color Wheel	000
Gobo Wheel 1	000
Focus	000
Prism1	000

Advanced	
PAN	000
TILT	000
Color Wheel	000
Gobo Wheel 1	000
Focus	000
Prism1	000

UP/DOWN

Advanced	
PAN	000
TILT	000
Color Wheel	255
Gobo Wheel 1	000
Focus	000
Prism1	000

Advanced	
PAN	000
TILT	000
Color Wheel	000
Gobo Wheel 1	000
Focus	000
Prism1	000

UP/DOWN

Advanced	
PAN	000
TILT	000
Color Wheel	000
Gobo Wheel 1	255
Focus	000
Prism1	000

Advanced	
PAN	000
TILT	000
Color Wheel	000
Gobo Wheel 1	000
Focus	000
Prism1	000

Advanced	
PAN	000
TILT	000
Color Wheel	000
Gobo Wheel 1	000
Focus	255
Prism1	000

Advanced	
PAN	000
TILT	000
Color Wheel	000
Gobo Wheel 1	000
Focus	000
Prism1	000

UP/DOWN

Advanced	
PAN	000
TILT	000
Color Wheel	000
Gobo Wheel 1	000
Focus	000
Prism1	255

Manual	
Prism2	000
Frost	000
Prism1 Start	000
Prism2 Start	000

UP/DOWN

Manual	
Prism2	255
Frost	000
Prism1 Start	000
Prism2 Start	000

Manual	
Prism2	000
Frost	000
Prism1 Start	000
Prism2 Start	000

UP/DOWN

Manual	
Prism2	000
Frost	255
Prism1 Start	000
Prism2 Start	000

Manual	
Prism2	000
Frost	000
Prism1 Start	000
Prism2 Start	000

UP/DOWN

Manual	
Prism2	000
Frost	000
Prism1 Start	255
Prism2 Start	000

Manual	
Prism2	000
Frost	000
Prism1 Start	000
Prism2 Start	000

UP/DOWN

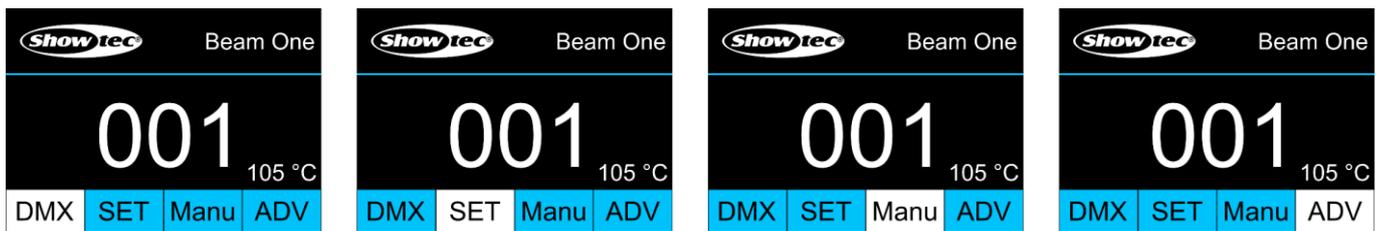| Manual	
Prism2	000
Frost	000
Prism1 Start	000
Prism2 Start	255

6.6. Main Menu Options

The main menu has the following options:

01) Press the **UP/DOWN** buttons to scroll through the following 4 main menu options:
   - DMX Address: See **6.6.1. DMX Functions** for more information.
   - Mode: See **6.6.2. Fixture Setting** for more information.
   - DMX Fail: See **6.6.3. Manual** for more information.
   - View DMX Value: See **6.6.4. Advanced** for more information.
02) Press the **ENTER** button to open the submenus.

6.6.1. DMX Functions

In this menu you can configure the Function settings of the device.

01) Press the **UP/DOWN** buttons to scroll through the following options:

Function Mode	
DMX Address	001
Channel Mode	15CH
Auto Run	▶
Music Run	▶
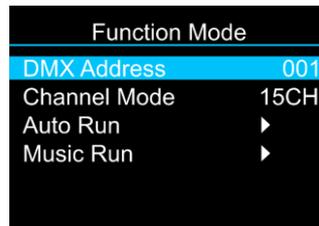
   - DMX Address: See **6.6.1.1. DMX Address**
   - Channel Mode: See **6.6.1.2. Channel Mode**
   - Auto Run: See **6.6.1.3. Auto Run**
   - Music Run: See **6.6.1.4. Music Run**
02) Press the **ENTER** button to open the submenus.

6.6.1.1. DMX Address

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

01) Press the **UP/DOWN** buttons to select the DMX starting address of the device. The selection range depends on the active DMX channel mode:
   - 15 CH: 001–498
   - 22 CH: 001–491
   - 30 CH: 001–483
02) Press the **ENTER** button to save the changes.

6.6.1.2. Channel Mode

In this menu you can select a DMX configuration.

01) Press the **UP/DOWN** buttons to select 15, 22 or 30 DMX channels. The display shows:

Function Mode	
DMX Address	001
Channel Mode	15CH
Auto Run	▶
Music Run	▶

UP/DOWN

Function Mode	
DMX Address	001
Channel Mode	22CH
Auto Run	▶
Music Run	▶

UP/DOWN

Function Mode	
DMX Address	001
Channel Mode	30CH
Auto Run	▶
Music Run	▶
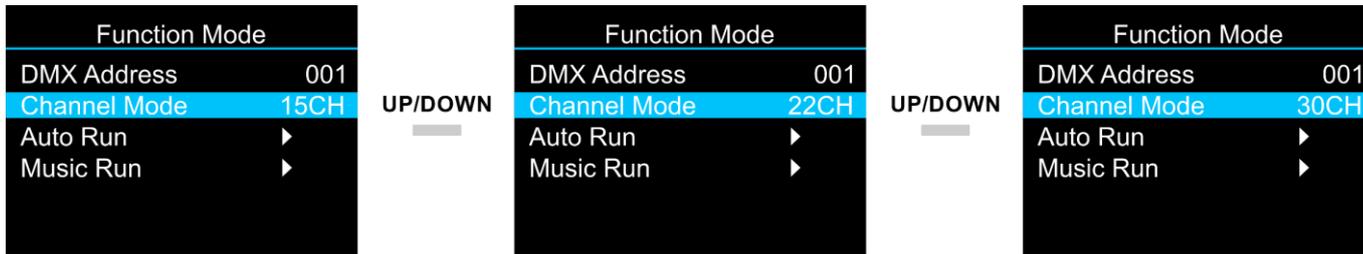
02) Press the **ENTER** button to confirm the desired Channel Mode.

6.6.1.3. Auto Run

In this menu you can set the Auto Run mode of the device.

01) Press the **UP/DOWN** buttons to select the Auto Run mode. The display shows:
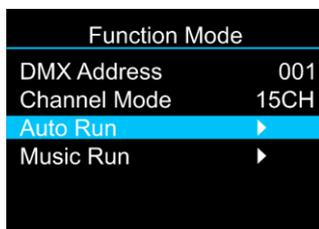
Function Mode	
DMX Address	001
Channel Mode	15CH
Auto Run	▶
Music Run	▶

02) Press the **ENTER** button to open the submenus. The display shows:

Function Mode	
DMX Address	001
Channel Mode	30CH
Auto Run	Program 1
Music Run	▶

03) Press the **UP/DOWN** buttons to select one of the 9 options: Program 1–9
04) Press the **ENTER** button to open the second submenu. The display shows:

Function Mode	
DMX Address	001
Channel Mode	30CH
Auto Run	Alone
Music Run	▶

05) Press the **UP/DOWN** buttons to select one of 2 options:
  •   Alone: used for Stand-alone setting
  •   Master: used for Master-Slave setting
06) Press the **ENTER** button to confirm your choice.

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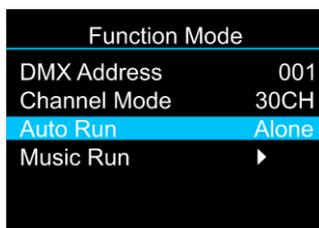
6.6.1.4. Music Run

In this menu you can set the sound-controlled mode of the device.

01) Press the **UP/DOWN** buttons to select the Music Run mode. The display shows:
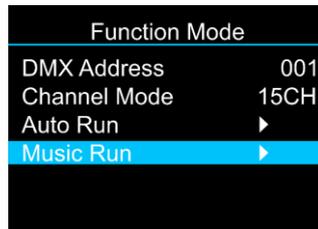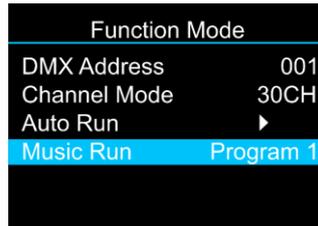
```
          Function Mode
DMX Address              001
Channel Mode            15CH
Auto Run                  ▶
Music Run                 ▶
```

02) Press the **ENTER** button to open the submenus. The display shows:

```
          Function Mode
DMX Address              001
Channel Mode            30CH
Auto Run                  ▶
Music Run           Program 1
```

03) Press the **UP/DOWN** buttons to select one of the 9 options: Program 1–9
04) Press the **ENTER** button to open the second submenu. The display shows:

```
          Function Mode
DMX Address              001
Channel Mode            30CH
Auto Run                  ▶
Music Run              Alone
```
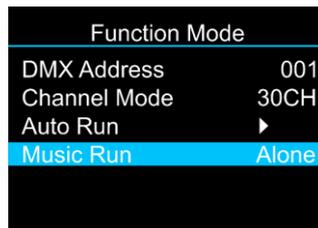
05) Press the **UP/DOWN** buttons to select one of 2 options:
   • Alone: used for Stand-alone setting
   • Master: used for Master-Slave setting
06) Press the **ENTER** button to confirm your choice.

6.6.2. Fixture Settings

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

01) Press the **UP/DOWN** buttons to select the desired submenu. The display shows:

```
                    Fixture Set
        Reset Default            No
        Signal Set              Wire
        Reverse Pan             OFF
        Reverse Tilt            OFF
        Select Pan              360
        Select Tilt              90
        Mic Sensitivity         000
        DMX Fail                OFF
        Scan Quick Mode         OFF
        Reverse Display         OFF
```

02) Press the **UP/DOWN** buttons to scroll through the following 10 submenu options. The submenus are:
- Reset default.   Press the **UP/DOWN** buttons to return to factory settings OFF/ON.
- Signal Set: No Function
- Reverse Pan.   Press the **UP/DOWN** buttons to choose between OFF/ON.
- Reverse Tilt.   Press the **UP/DOWN** buttons to choose between OFF/ON.
- Select Pan: Press the **UP/DOWN** buttons to set between 360°, 540°, 630°.
- Select Tilt: Press the **UP/DOWN** buttons to set between 90°, 180°, 270°.
- Mic Sensitivity: Sound sensitivity. Press the **UP/DOWN** buttons to set between 000–099, from OFF to high sound sensitivity.
- DMX Fail: To adjust the behaviour of the device in case of a DMX signal error. Press the **UP/DOWN** buttons to choose between OFF and ON. Choose OFF and the device will blackout its output, when a DMX signal error occurs. Choose ON and the device will fall back on the last properly working DMX signal from before the DMX signal error, which ensures undisrupted performance.
- Scan Quick Mode: The 0-100% acceleration will speed up.
- Reverse Display.   Press the **UP/DOWN** buttons to choose between OFF/ON.
03) Press the **ENTER** button to enter the desired submenu.
04) Press the **UP/DOWN** buttons to adjust the values.
05) Once you have adjusted the settings, press the **ENTER** button to save changes.

6.6.3. Manual

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

01) Press the **UP/DOWN** buttons to select the desired submenu. The display shows:

Manual	
PAN	000
PAN-Fine	000
TILT	000
TILT-Fine	000
Move Speed	000
Color Wheel	000
Gobo Wheel 1	000
Strobe	000
Dimmer	000
Focus	000
Prism1	000
Prism2	000
Frost	000
Color Time	000
Gobo Time	000
Pix_Dimmer	000
Pix_Strobe	000
Pix_Red	000
Pix_Green	000
Pix_Blue	000
Pix_Color	000
Pix_Macro	000
Pix_Speed	000
Pix_Expand	000
Pix_FDimmer	000
Pix_BDimmer	000
Pix_BRed	000
Pix_BGreen	000
Pix_BBlue	000

02) Press the **UP/DOWN** buttons to scroll through the following 29 submenu options. The submenus are:
- Pan: Set the initial pan position.
- Pan-Fine: Set the initial pan-fine position.
- Tilt: Set the initial tilt position.
- Tilt-Fine: Set the initial tilt-fine position.
- Move Speed: Set the initial move speed value.
- Color Wheel: Set the initial color wheel position.
- Gobo wheel: Set the initial gobo wheel position.
- Strobe: Set the initial strobe value.
- Dimmer: Set the initial dimmer value.
- Focus: Set the initial focus value.
- Prism1:   Set the initial Prism1 position.
- Prism2:   Set the initial Prism2 position.
- Frost: Set the initial frost value.
- Color Time: Set the initial color time value.
- Gobo Time: Set the initial gobo time value.
- Pix_Dimmer: Set the initial pix_dimmer value.
- Pix_Strobe: Set the initial pix_strobe value.
- Pix_Red: Set the initial pix_red dimmer value.
- Pix_Green: Set the initial pix_green dimmer value.
- Pix_Blue: Set the initial pix_blue dimmer value.
- Pix_Color: Set the initial pix_color value.
- Pix_Macro: Set the initial pix_macro value.
- Pix_Speed: Set the initial pix_speed value.
- Pix_Expand: Set the initial pix_expand value.

- Pix_FDimmer: Set the initial pix_fdimmer value.
- Pix_BDimmer: Set the initial pix_bdimmer value.
- Pix_BRed: Set the initial pix_bred dimmer value.
- Pix_BGreen: Set the initial pix_bgreen dimmer value.
- Pix_BBlue: Set the initial pix_bblue dimmer value.

03) Press the **ENTER** button to enter the desired submenu.
04) Press the **UP/DOWN** buttons to adjust the values.
05) Once you have adjusted the settings, press the **ENTER** button to save changes.

6.6.4. Advanced

In this menu you can view status of the device and set the calibration settings of the device.

```
             Advanced
Code=                      000
Calibration
UID08  02  0F  FF  FF
Temperature                072
Ver                         V2
```

01) Press the **UP/DOWN** buttons to set the code to: 088.
02) Press the **ENTER** button to enter the desired submenu. The display shows:

```
             Advanced
Calibration
UID08  02  0F  FF  FF
Temperature                072
Ver                         V2
```

03) Press the **ENTER** button to enter the calibration submenu.
04) Press the **UP/DOWN** buttons to scroll through the following 10 submenu options. The submenus are:
- Pan: Set the initial pan position.
- Tilt: Set the initial tilt position.
- Color Wheel: Set the initial color wheel position.
- Gobo wheel 1:   Set the initial gobo wheel position.
- Focus: Set the initial focus value.
- Prism1:   Set the initial Prism1 position.
- Prism2:   Set the initial Prism2 position.
- Frost: Set the initial frost value.
- Prism1 Start: Set the Prism1 start position.
- Prism2 Start: Set the Prism2 start position.

05) Press the **ENTER** button to enter the desired submenu.
06) Press the **UP/DOWN** buttons to adjust the values.
07) Once you have adjusted the settings, press the **ENTER** button to save changes.
08) You can also view the UID, the temperature and the current software version.
- UID: No Function
- Temperature: See the current temperature of the LED.
- Ver: See the current software version

6.7. DMX Channels

6.7.1. 15 Channels, 22 Channels, 30 Channels

15 CH	22 CH	30 CH	Function	Value	Setting
1	1	1	**Pan**	000–255	Pan adjustment 0°–540°
	2	2	**Pan Fine**	000–010	Pan adjustment, 16-bit
2	3	3	**Tilt**	000–255	Tilt adjustment 0°–210°
	4	4	**Tilt Fine**	000–255	Tilt adjustment, 16-bit
3	5	5	**Pan/Tilt Speed**	000–225	From fast to slow
				226–235	Blackout during Pan/Tilt movement
				236–245	Blackout during Color wheel movement/gobo wheel movement
				246–255	No function
4	6	6	**Master Dimmer**	000–255	From low to high intensity (0–100 %)
5	7	7	**Shutter**	000–031	Shutter closed
				032–063	Shutter open
				064–095	Linear strobe, from low to high frequency (0–25 Hz)
				096–127	Shutter open
				128–159	Pulse strobe, from slow to fast
				160–191	Shutter open
				192–223	Random strobe, from slow to fast
				224–255	Shutter open
	8	8	**Color wheel**	000–009	Open
				010–019	Color 1
				020–029	Color 2
				030–039	Color 3
				040–049	Color 4
				050–059	Color 5
				060–069	Color 6
				070–079	Color 7
				080–089	Color 8
				090–099	Color 9
				100–109	Color 10
				110–127	Color 11
				128–189	Clockwise color flow (CW), from fast to slow
				190–193	Stop
				194–255	Counter-clockwise color flow (CCW), from slow to fast
	9	9	**Gobo wheel**	000–006	Open
				007–013	Gobo 1
				014–020	Gobo 2
				021–027	Gobo 3
				028–034	Gobo 4
				035–041	Gobo 5
				042–048	Gobo 6
				049–055	Gobo 7
				056–062	Gobo 8
				063–069	Gobo 9
				070–076	Gobo 10
				077–083	Gobo 11
				084–090	Gobo 12
				091–097	Gobo 13
				098–104	Gobo 14
				105–111	Gobo 1 shake effect, from slow to fast
				112–118	Gobo 2 shake effect, from slow to fast
				119–125	Gobo 3 shake effect, from slow to fast

15 CH	22 CH	30 CH	Function	Value	Setting
				126–132	Gobo 4 shake effect, from slow to fast
				133–139	Gobo 5 shake effect, from slow to fast
				140–146	Gobo 6 shake effect, from slow to fast
				147–153	Gobo 7 shake effect, from slow to fast
				154–160	Gobo 8 shake effect, from slow to fast
				161–167	Gobo 9 shake effect, from slow to fast
				168–174	Gobo 10 shake effect, from slow to fast
				175–181	Gobo 11 shake effect, from slow to fast
				182–188	Gobo 12 shake effect, from slow to fast
				189–195	Gobo 13 shake effect, from slow to fast
				196–202	Gobo 14 shake effect, from slow to fast
				203–255	Clockwise gobo wheel rotation (CW), from slow to fast
6	10	10	Focus	000–255	Gradual focus adjustment, from near to far
				000–005	Prism Off
				006–127	Prism On (24-facet)
	11	11	Prism 1 (24-facet)	128–189	Clockwise Prism rotation (CW), from fast to slow
				190–193	Stop
				194–255	Counter-clockwise Prism rotation (CCW), from slow to fast
				000–005	Prism Off
				006–127	Prism On (16-facet)
	12	12	Prism 2 (16-facet)	128–189	Clockwise Prism rotation (CW), from fast to slow
				190–193	Stop
				194–255	Counter-clockwise Prism rotation (CCW), from slow to fast
	13	13	Frost	000–199	Frost Filter Off
				200–255	Frost Filter On
				000–019	No function
				020–029	No function
				030–039	No function
				040–079	No function
				080–084	Reset All motors after 3 seconds
				085–087	Reset Pan + Tilt after 3 seconds
				088–090	Reset Color wheel after 3 seconds
				091–093	Reset Gobo wheel after 3 seconds
7	14	14	Channel Functions	094–096	Reset other motors after 3 seconds
				097–099	Auto Program 1
				100–119	Auto Program 2
				120–139	Auto Program 3
				140–159	Auto Program 4
				160–179	Auto Program 5
				180–199	Auto Program 6
				200–219	Auto Program 7
				220–239	Auto Program 8
				240–255	Sound-controlled Program
		15	Color Time	000–255	Gradual time adjustment, from long to short
		16	Gobo Time	000–255	Gradual time adjustment, from long to short
8	15	17	Master Pix Dimmer	000–255	From low to high intensity (0–100 %)
9	16	18	Pix Strobe	000–255	Strobe, from low to high frequency
10	17	19	Pix Red Dimmer	000–255	From low to high intensity (0–100 %)
11	18	20	Pix Green Dimmer	000–255	From low to high intensity (0–100 %)
12	19	21	Pix Blue Dimmer	000–255	From low to high intensity (0–100 %)
13	20	22	Pix Color	000	No function

15 CH	22 CH	30 CH	Function	Value	Setting
				001–015	Red
				016–031	Green
				032–047	Blue
				048–063	Red + Blue
				064–079	Red + Green
				080–095	Green + Blue
				096–111	Red + Green + Blue
				112–127	2700 K
				128–143	3200 K
				144–159	3500 K
				160–175	5000 K
				176–191	5500 K
				192–207	6000 K
				208–223	6500 K
				224–239	7000 K
				240–255	8000 K
14	**21**	**23**	**Pix Macro**	000–015	No function
				016–029	Pix Dynamic Scene 1
				030–043	Pix Dynamic Scene 2
				044–057	Pix Dynamic Scene 3
				058–071	Pix Dynamic Scene 4
				072–085	Pix Dynamic Scene 5
				086–099	Pix Dynamic Scene 6
				100–113	Pix Dynamic Scene 7
				114–127	Pix Dynamic Scene 8
				128–141	Pix Dynamic Scene 9
				142–155	Pix Dynamic Scene 10
				156–169	Pix Dynamic Scene 11
				170–183	Pix Dynamic Scene 12
				184–197	Pix Dynamic Scene 13
				198–211	Pix Dynamic Scene 14
				212–225	Pix Dynamic Scene 15
				226–239	Pix Dynamic Scene 16
				240–255	Pix Dynamic Scene 17
15	**22**	**24**	**Pix Macro Speed**	000–127	Clockwise rotation (CW), from slow to fast
				128–255	Counter-clockwise rotation (CCW), from slow to fast
		25	**Expand Patterns**	000–015	No function
				016–029	Pix Dynamic Scene 1
				030–043	Pix Dynamic Scene 2
				044–057	Pix Dynamic Scene 3
				058–071	Pix Dynamic Scene 4
				072–085	Pix Dynamic Scene 5
				086–099	Pix Dynamic Scene 6
				100–113	Pix Dynamic Scene 7
				114–127	Pix Dynamic Scene 8
				128–141	Pix Dynamic Scene 9
				142–155	Pix Dynamic Scene 10
				156–169	Pix Dynamic Scene 11
				170–183	Pix Dynamic Scene 12
				184–197	Pix Dynamic Scene 13
				198–211	Pix Dynamic Scene 14
				212–225	Pix Dynamic Scene 15
				226–239	Pix Dynamic Scene 16
				240–255	Pix Dynamic Scene 17

15 CH	22 CH	30 CH	Function	Value	Setting
		26	**Pix Foreground Dimmer**	000–255	From low to high intensity (0–100 %)
		27	**Pix Background Dimmer**	000–255	From low to high intensity (0–100 %)
		28	**Pix Background Red Dimmer**	000–255	From low to high intensity (0–100 %)
		29	**Pix Background Green Dimmer**	000–255	From low to high intensity (0–100 %)
		30	**Pix Background Blue Dimmer**	000–255	From low to high intensity (0–100 %)

Note:

- Make sure that Master Dimmer channel is open, to see the light output.
- Make sure that Master Pix Dimmer channel is open, to see the light output of the ring.
- Make sure that Pix Macro channel is open, if you want to use Pix Macro Speed channel.
- Channel 25 overrules channel 23.
- Combine channel 25 with 26–30

6.8. Rotating Gobo Wheel and Color Wheel

Fig. 14

Fig. 15

Show tec
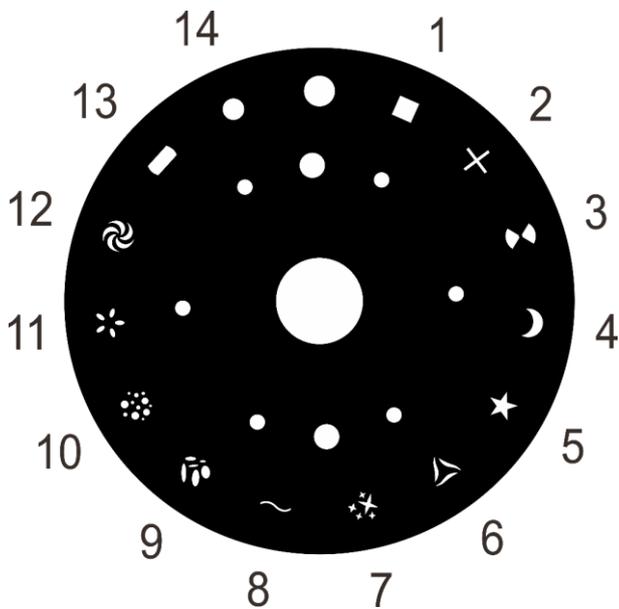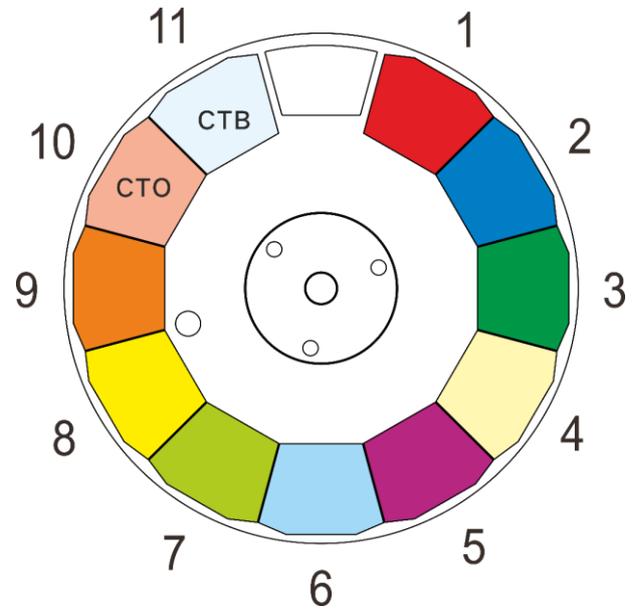
7. Troubleshooting

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

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

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

Problem	Probable cause(s)	Solution
The device does not function at all	No power to the device	● Check if power is switched on and cables are plugged in
	Primary fuse is blown	● Replace the fuse. See **8.3.1. Replacing the Fuse** on page 39
The device responds erratically	The factory settings of the device are changed	● Reset the device's parameters to the default factory settings. See **6.6.2. Fixture Settings** on page 30
The device does not respond to DMX control	The controller is not connected	● Connect the controller
	The signal is reversed. The 3-pin DMX OUT of the controller does not match the DMX IN of the device	● Install a phase-reversing cable between the controller and the device
	The controller is defective	● Try using another controller
The device responds erratically to DMX control	Bad data link connection	● Examine connections and cables. Correct poor connections. Repair or replace damaged cables
	The data link is not terminated with a 120 Ω termination plug	● Insert a termination plug in the DMX OUT connector of the last device on the link
	Incorrect addressing	● Check address settings and correct, if necessary
	In case of a setup with multiple devices, one of the devices is defective and disturbs data transmission on the link	● To find out which device is defective, 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 power supply settings do not match local AC voltage and frequency	● Disconnect the device. Check the settings and correct, if necessary

8. Maintenance

8.1. Safety Instructions for Maintenance

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

Disconnect power supply before servicing or cleaning.

8.2. Preventive Maintenance

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

Make sure that:

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

8.2.1. Basic Cleaning Instructions

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

To clean the device, follow the steps below:

01) Disconnect the device from the electrical power supply.
02) Allow the device to cool down for at least 5 minutes.
03) Remove the dust collected on the external surface with dry compressed air and a soft brush.
04) Clean the lens with a damp cloth. Use a mild detergent solution.
05) Dry the lens carefully with a lint-free cloth.
06) Clean the DMX and other connections with a damp cloth.

	Attention

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

8.3. Corrective Maintenance

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

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

8.3.1. Replacing the Fuse

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

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

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

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

9. Deinstallation, Transportation and Storage

9.1. Instructions for Deinstallation

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

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

9.2. Instructions for Transportation

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

9.3. Storage

- Clean the device before storing. Follow the cleaning instructions in chapter **8.2.1. Basic Cleaning Instructions** on page 38.
- Store the device in the original packaging, if possible.

10. Disposal

Correct disposal of this product

Waste Electrical and Electronic Equipment

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

11. Approval

CE

UK
CA

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