Beacon 360   V1

Ordercode: 45051

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Warning

⚠️ **For your own safety, please read this user manual carefully before your initial start-up!** ⚠️

Unpacking Instructions

Immediately upon receiving this product, carefully unpack the carton and check the contents to ensure that all parts are present, and have been received in good condition. Notify the dealer immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

Your shipment includes:
- Showtec Beacon 360
- 1 mounting bracket
- Powercon cable 1,5 m
- 2 mounting screws
- User manual
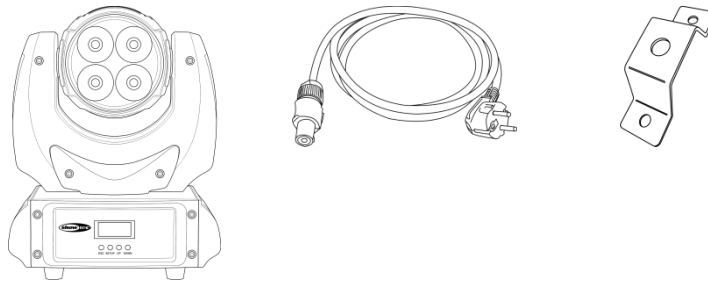
LED Expected Lifespan

LEDs gradually decline in brightness over time. HEAT is the dominant factor that leads to the acceleration of this decline. Packaged in clusters, LEDs exhibit higher operating temperatures than in ideal or singular optimum conditions. For this reason, when all color LEDs are used at their fullest intensity, life of the LEDs is significantly reduced. If improving the lifespan is of higher priority, place care in providing for lower operational temperatures. This may include climatic-environmental and the reduction of overall projection intensity.

⚠️ **CAUTION!**
Keep this device away from rain and moisture!
Unplug mains lead before opening the housing! ⚠️

Safety Instructions

Every person involved with the installation, operation and maintenance of this device has to:
- be qualified
- follow the instructions of this manual

⚡ **CAUTION! Be careful with your operations.**
With a dangerous voltage you can suffer
a dangerous electric shock when touching the wires! ⚡

Before the initial start-up, please make sure that there is no damage caused by transportation. Should there be any, consult your dealer and do not use the device.

To maintain perfect condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes contained in this manual.

Please consider that damages caused by manual modifications to the device are not subject to warranty.

This device contains no user-serviceable parts. Refer to qualified technicians only.

IMPORTANT:
The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.

- Never let the power cord come into contact with other cables! Handle the power cord and all connections with the mains with particular caution!
- Never remove warning or informative labels from the unit.
- Never use anything to cover the ground contact.
- Never lift the fixture holding it by the projector-head, as the mechanics may be damaged. Always hold the fixture by the transport handles.
- Never place any material over the lens.
- Never look directly into the light source.
- Never leave any cables lying around.
- Never loosen the screws of the gobo, otherwise you risk opening of the ball bearing.
- Do not insert objects into air vents.
- Do not connect this device to a dimmerpack.
- Do not switch the device on and off in short intervals, as this will reduce the device's life.
- Do not touch the device's housing bare-handed during its operation (housing becomes very hot). Allow the fixture to cool for at least 5 minutes before handling.
- Do not shake the device. Avoid brute force when installing or operating the device.
- Only use the device indoors, avoid contact with water or other liquids.
- Only operate the fixture after having checked if the housing is firmly closed and all screws are tightly fastened.
- Only operate the device after having familiarized with its functions.
- Avoid flames and do not put close to flammable liquids or gases.
- Always keep the case closed while operating.
- Always allow a free air space of at least 50 cm around the unit for ventilation.
- Always disconnect power from the mains, when device is not used or before cleaning! Only handle the power cord holding it by the plug. Never pull out the plug by tugging the power cord.
- Make sure that the device is not exposed to extreme heat, moisture or dust.
- Make sure that the available voltage is not higher than stated on the rear panel.
- Make sure that the power cord is never crimped or damaged. Check the device and the power cord from time to time.
- If the lens is obviously damaged, it has to be replaced.
- If device was dropped or struck, disconnect mains power supply immediately. Have a qualified engineer inspect for safety before operating.
- If the device has been exposed to drastic temperature fluctuation (e.g. after transportation), do not switch it on immediately. The arising condensation water might damage your device. Leave the device switched off until it has reached room temperature.
- If your Showtec device fails to work properly, discontinue the use immediately. Pack the unit securely (preferably in the original packing material), and return it to your Showtec dealer for service.
- For adult use only. The moving head must be installed beyond the reach of children. Never leave the unit running unattended.
- Never attempt to bypass the thermostatic switch or fuses.
- For replacement use fuses of same type and rating only.
- The user is responsible for correct positioning and operating of the Beacon. The manufacturer will not accept liability for damages caused by the misuse or incorrect installation of this device.
- This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth.
- During the initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective.
- Repairs, servicing and electric connection must be carried out by a qualified technician.
- WARRANTY: Till one year after date of purchase.

> ⚠️ **CAUTION! EYEDAMAGES !!!**
> **NEVER LOOK DIRECTLY INTO THE LIGHTSOURCE !!!** ⚠️

Operating Determinations
- This device is not designed for permanent operation. Consistent operation breaks will ensure that the device will serve you for a long time without defects.
- The minimum distance between light output and the illuminated surface must be bigger than 1 meter.
- The maximum ambient temperature t_a = 40°C must never be exceeded.
- The relative humidity must not exceed 50 % with an ambient temperature of 40° C.
- If this device is operated in any other way than the one described in this manual, the product may suffer damages and the warranty becomes void.
- Any other operation may lead to dangers like short-circuit, burns, electric shock, crash, etc.

You endanger your own safety and the safety of others!

Rigging
Please follow the European and national guidelines concerning rigging, trussing and all other safety issues.

Do not attempt the installation yourself !
Always let the installation be carried out by an authorized dealer!

Procedure:
- If the projector is lowered from the ceiling or high joists, professional trussing systems have to be used.
- Use a clamp to mount the projector, with the mounting bracket, to the trussing system.
- The projector must never be fixed swinging freely in the room.
- The installation must always be secured with a safety attachment, e.g. an appropriate safety net or safety cable.
- When rigging, de-rigging or servicing the projector, always make sure, that the area below the installation site is secured and that there are not any unauthorized people around.
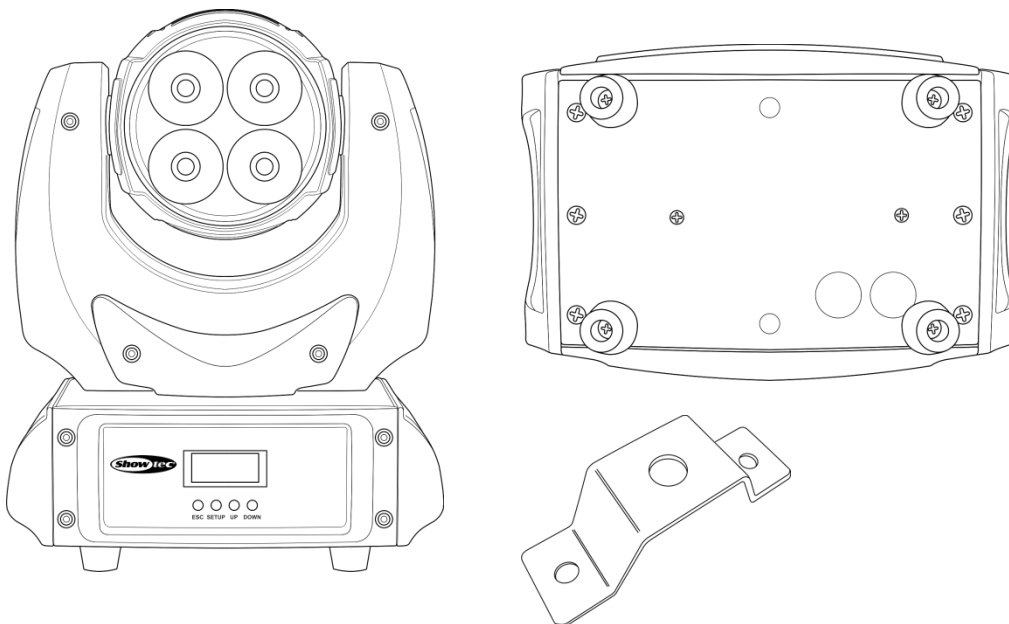
The Beacon can be placed on a flat stage floor or mounted to any kind of truss with a clamp.

Mounting a clamp to the underside of the Beacon 360 moving head

Clamp

Mounting bracket
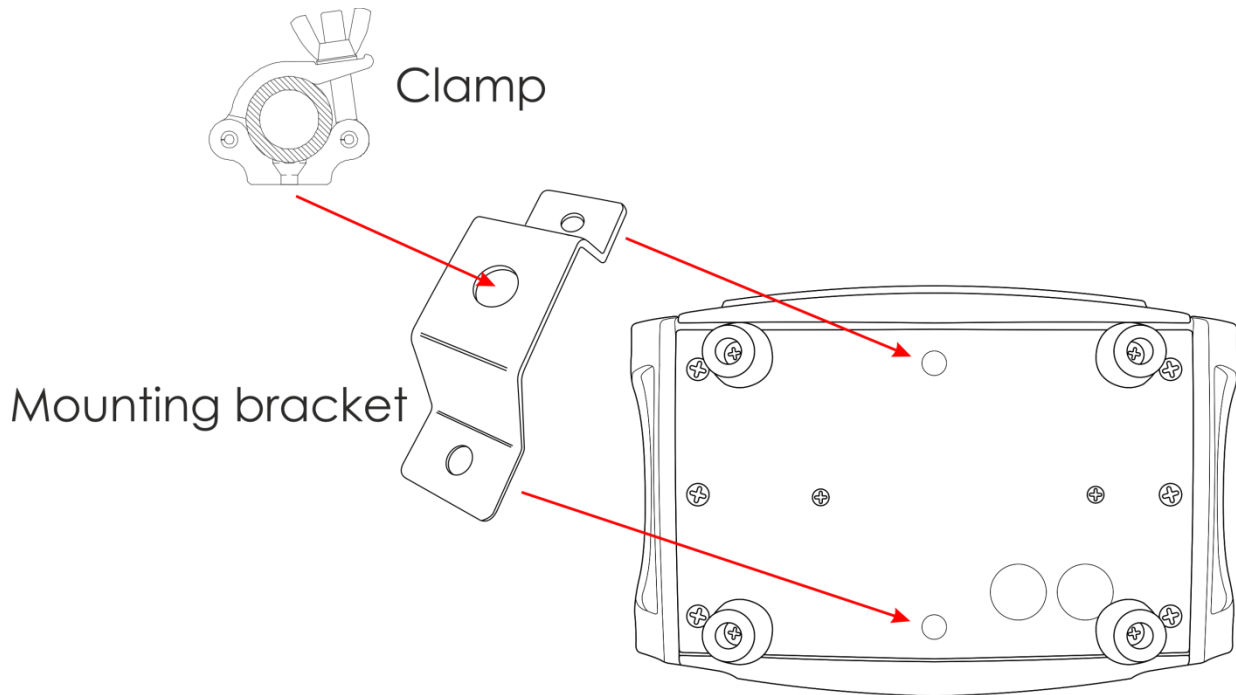
Improper installation can cause serious injuries to people and/or damage of property !

Connection with the mains
Connect the device to the mains with the power plug.
Always check if the right color cable is connected to the right place.

International	EU Cable	UK Cable	US Cable	Pin
L	BROWN	RED	YELLOW/COPPER	PHASE
N	BLUE	BLACK	SILVER	NEUTRAL
⏚	YELLOW/GREEN	GREEN	GREEN	PROTECTIVE GROUND

Make sure that the device is always properly connected to the earth!

Improper installation can cause serious injuries to people and/or damage of property!

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⚠️ **Return Procedure** ⚠️

Returned merchandise must be sent prepaid and in the original packing, call tags will not be issued. Package must be clearly labeled with a Return Authorization Number (RMA number). Products returned without an RMA number will be refused. Highlite will not accept the returned goods or any responsibility. Call Highlite 0031-455667723 or mail aftersales@highlite.nl and request an RMA prior to shipping the fixture. Be prepared to provide the model number, serial number and a brief description of the cause for the return. Be sure to properly pack fixture, any shipping damage resulting from inadequate packaging is the customer's responsibility. Highlite reserves the right to use its own discretion to repair or replace product(s). As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

Note: If you are given an RMA number, please include the following information on a piece of paper inside the box:
01) Your name
02) Your address
03) Your phone number
04) A brief description of the symptoms

Claims

The client has the obligation to check the delivered goods immediately upon delivery for any short-comings and/or visible defects, or perform this check after our announcement that the goods are at their disposal. Damage incurred in shipping is the responsibility of the shipper; therefore the damage must be reported to the carrier upon receipt of merchandise.

It is the customer's responsibility to notify and submit claims with the shipper in the event that a fixture is damaged due to shipping. Transportation damage has to be reported to us within one day after receipt of the delivery.

Any return shipment has to be made post-paid at all times. Return shipments must be accompanied with a letter defining the reason for return shipment. Non-prepaid return shipments will be refused, unless otherwise agreed in writing.

Complaints against us must be made known in writing or by fax within 10 working days after receipt of the invoice. After this period complaints will not be handled anymore.

Complaints will only then be considered if the client has so far complied with all parts of the agreement, regardless of the agreement of which the obligation is resulting.

Description of the device

Features
The Showtec Beacon 360 is a moving head fixture with high output and great effects.

- Beam Angle: 8°
- Power consumption: 60 W
- LCD display
- 9, 19 Channels
- 360° pan and 360° tilt
- Colors: Red, Green, Blue, White
- Control modes: DMX-512, Auto, Manual, Master/Slave, Sound
- Metal & Flame-retardant plastic housing
- DMX Data IN/OUT
- Powercon IN/OUT
- Dimmer: 0-100%
- Strobe: 0-20Hz
- Fuse: 3A/250V
- Control protocol: DMX-512
- Dimensions: 241 mm x 145 mm x 313 mm (LxWxH)
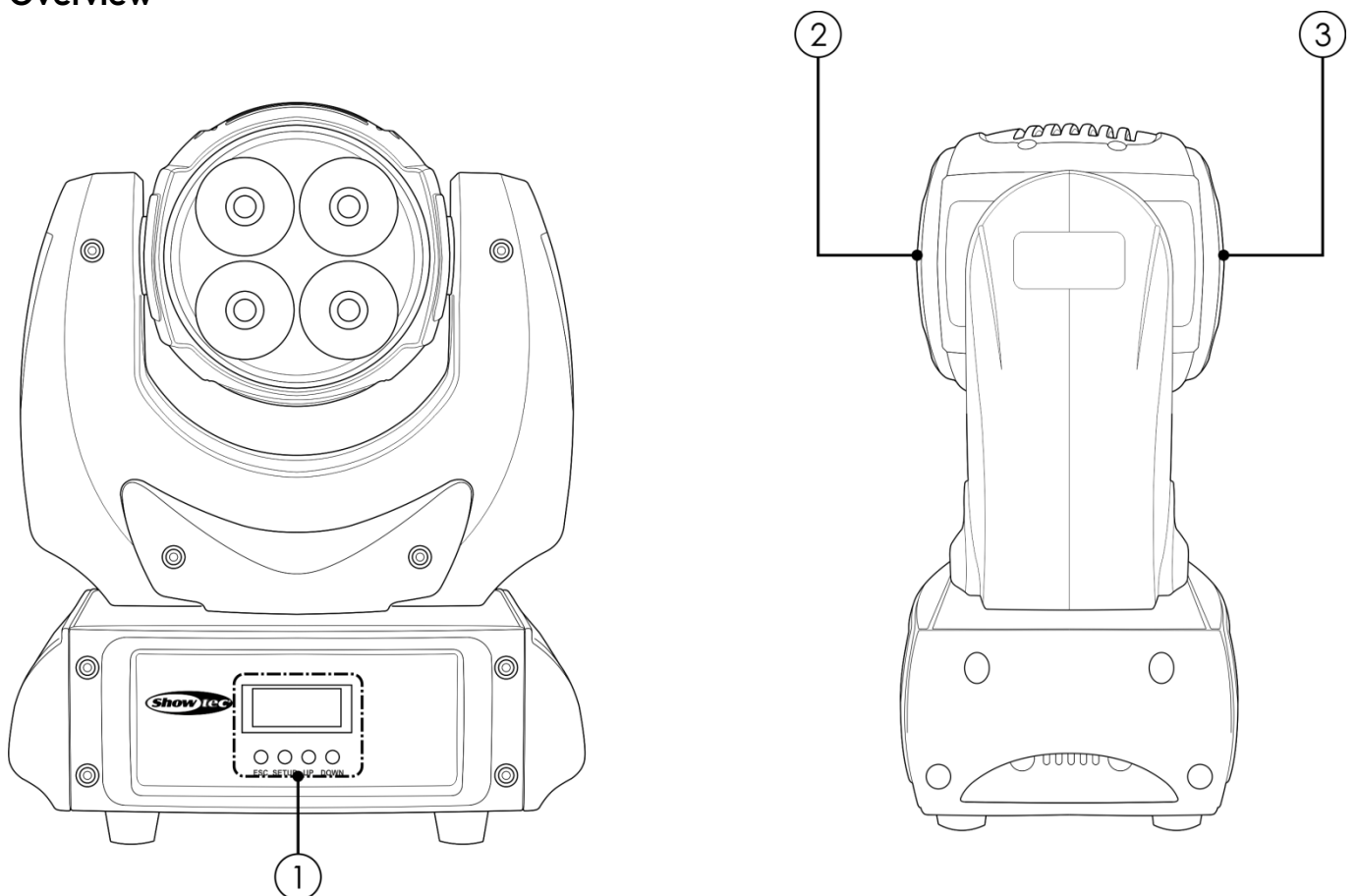- Weight: 5 kg

Overview

Fig. 01

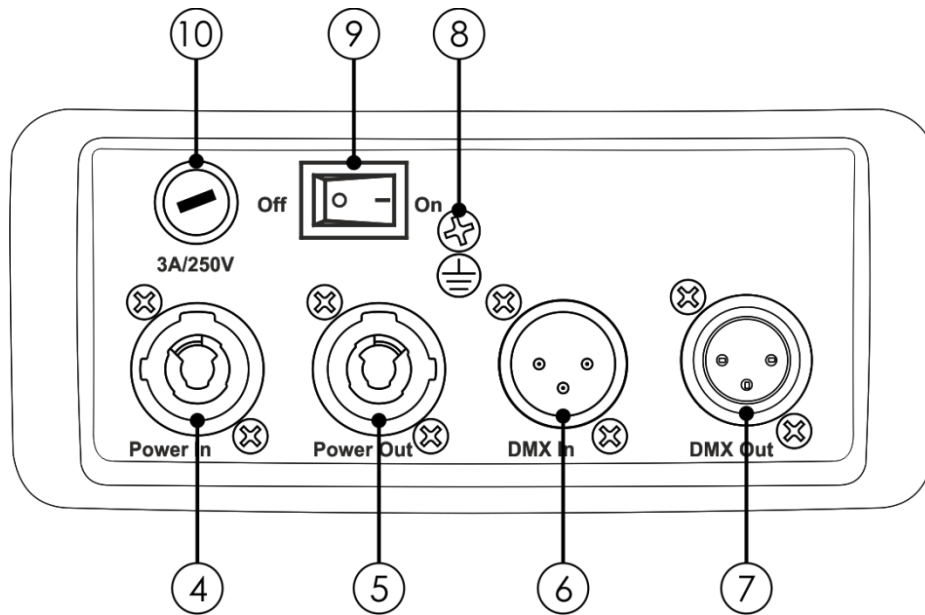01) LCD Display +control buttons
02) Lens 2
03) Lens 1

Backside

Fig. 02

04) Powercon connector IN
05) Powercon connector OUT
06) 3-pin DMX signal connector IN
07) 3-pin DMX signal connector OUT
08) Ground/earth connection
09) Power switch ON/OFF
10) Fuse 3A/250V

Installation

Remove all packing materials from the Beacon 360. Check that all foam and plastic padding is removed.
Connect all cables.
Do not supply power before the whole system is set up and connected properly.
Always disconnect from electric mains power supply before cleaning or servicing.
Damages caused by non-observance are not subject to warranty.

Set Up and Operation

Follow the directions below, as they pertain to your preferred operation mode.
Before plugging the unit in, always make sure that the power supply matches the product specification voltage. Do not attempt to operate a 120V specification product on 230V power, or vice versa.

Control Modes

There are 5 modes: Built-in programs (stand-alone)
                                       Manual mode Built-in programs (stand-alone)
                                       Sound-controlled
                                       Master/Slave
                                       DMX-512 (9CH, 19CH)

One Beacon (Stand-alone and Manual)
01) Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
02) Always use a safety cable (ordercode 70140 / 70141).
03) Plug the end of the electric mains Powercon cord into a proper electric power supply socket.
04) When the Beacon is not connected with a DMX cable, it functions as a stand-alone device.
05) Please see page 14 for more information about the Built-in auto programs and page 15 for more information about the Manual mode.

One Beacon (Sound-controlled)
01) Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
02) Always use a safety cable (ordercode 70140 / 70141).
03) Plug the end of the electric mains Powercon cord into a proper electric power supply socket.
04) When the Beacon is not connected with a DMX cable, it functions as a stand-alone device.
05) Please see page 16 for more information about the Sound-controlled mode.

Multiple Beacons (Master/Slave Mode)
01) Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
02) Always use a safety cable (ordercode 70140 / 70141).
03) Plug the end of the electric mains Powercon cord into a proper electric power supply socket.
04) Use a 3-pin XLR cable to connect the Beacons.

The pins: 01) Earth
                                                  02) Signal (-)
                                                  03) Signal (+)

05) Link the units as shown in Fig. 03, connect a DMX signal cable from the first unit's DMX "out" socket to the second unit's "in" socket. Repeat this process to link the second, third, and fourth units. You can use the same functions on the master device as described on pages 14 and 16 (Built-in or Sound-controlled). This means on the master device you can set your desired operation mode and all slave devices will react the same as the master device.

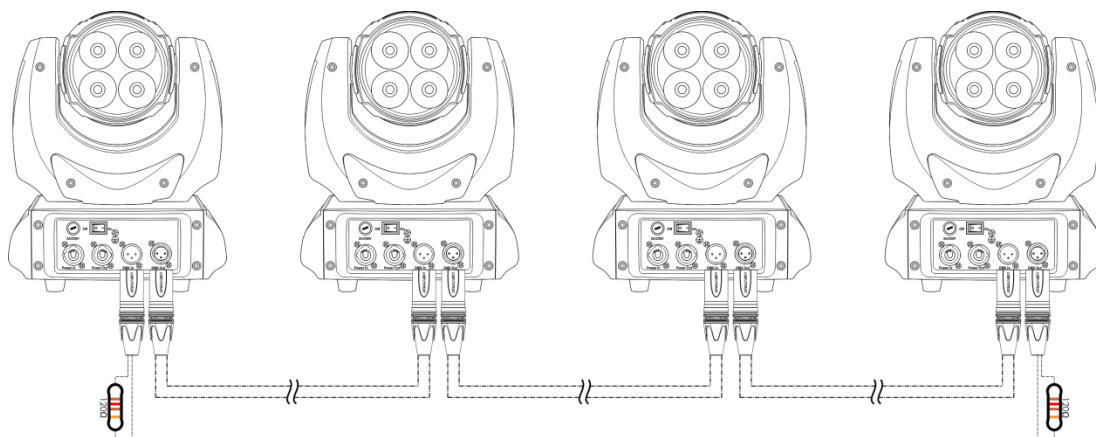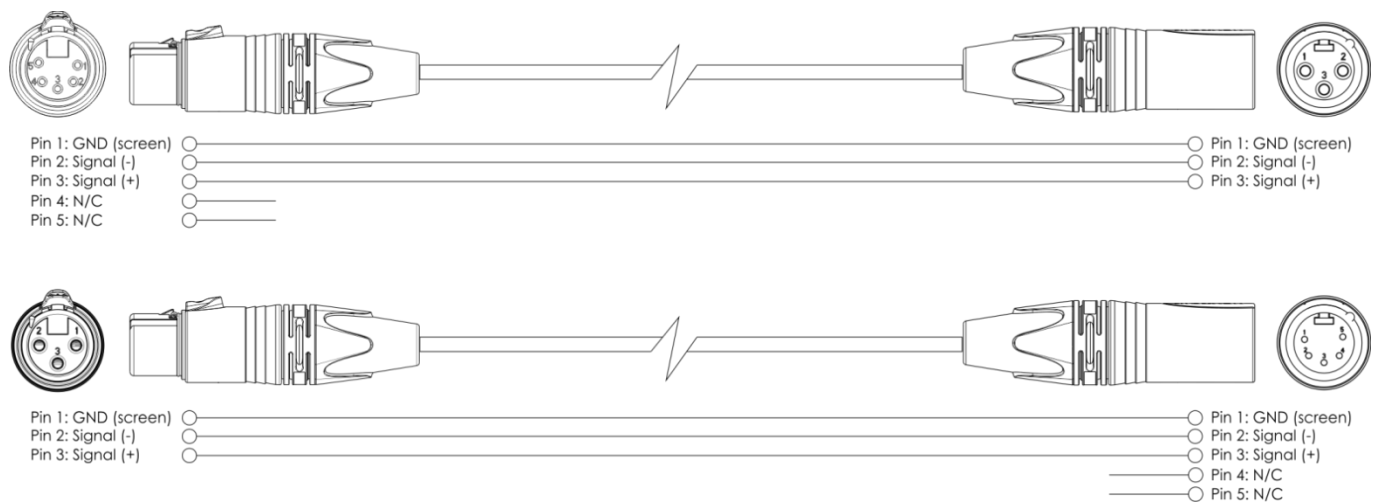**Multiple Beacons Master/Slave Set Up**

Fig. 03

Multiple Beacons (DMX Control)
01) Fasten the effect light onto firm trussing. Leave at least 1 meter on all sides for air circulation.
02) Always use a safety cable (ordercode 70140 / 70141).
03) Plug the end of the electric mains power cord into a proper electric power supply socket.
04) Use a 3-p XLR cable to connect the Beacons and other devices.

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

05) Link the units as shown in Fig. 04, Connect a DMX signal cable from the first unit's DMX "out" socket to the second unit's "in" socket. Repeat this process to link the second, third, and fourth units.
06) Supply electric power: Plug electric mains power cords into each unit's IEC socket, then plug the other end of the mains power cord into proper electric power supply sockets, starting with the first unit. Do not supply power before the whole system is set up and connected properly.
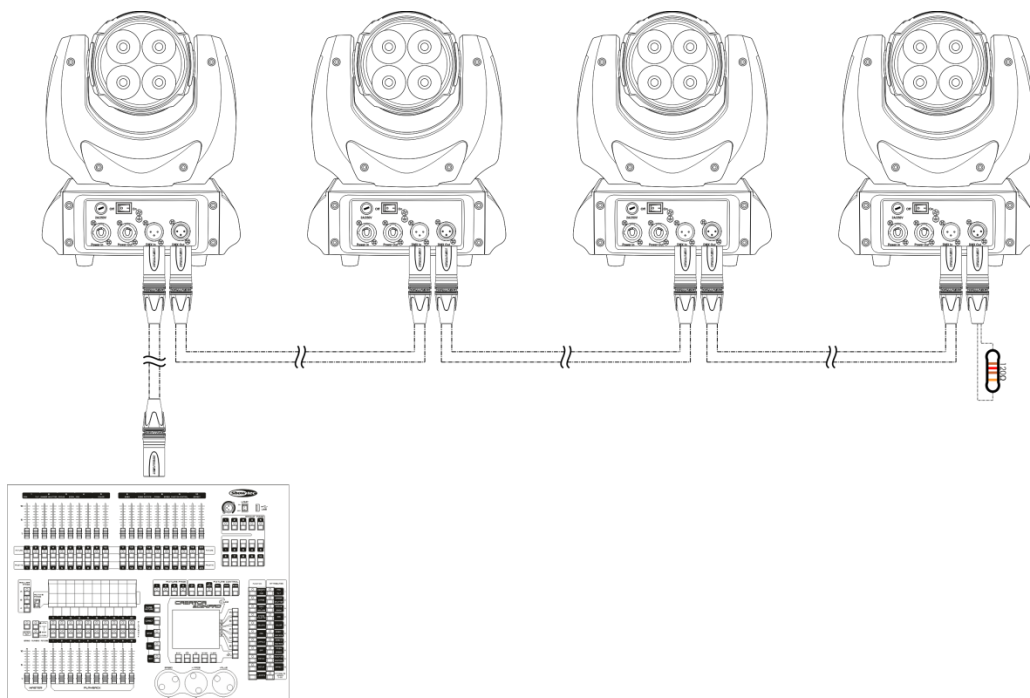
Multiple Beacons DMX Set Up

Fig. 04

Fixture Linking

You will need a serial data link to run light shows of one or more fixtures using a DMX-512 controller or to run synchronized shows of two or more fixtures set to a master/slave operating mode. The combined number of channels required by all the fixtures on a serial data link determines the number of fixtures the data link can support.

Important: Fixtures on a serial data link must be daisy-chained in a single line. To comply with the EIA-485 standard, no more than 30 devices should be connected on one data link. Connecting more than 30 fixtures on one serial data link without the use of a DMX optically isolated splitter may result in deterioration of the digital DMX signal.

Maximum recommended DMX data link distance: 100 meters
Maximum recommended number of fixtures on a DMX data link: 30 fixtures

Data Cabling

To link fixtures together, you must obtain data cables. You can purchase DAP Audio certified DMX cables directly from a dealer/distributor or construct your own cable. If you choose to create your own cable, please use data-grade cables that can carry a high quality signal and are less prone to electromagnetic interference.

DAP Audio Certified DMX Data Cables

- DAP Audio Basic microphone cable for allround use. bal. XLR/M 3 p. > XLR/F 3 p.
  Ordercode FL01150 (1,5m.), FL013 (3m.), FL016 (6m.), FL0110 (10m.), FL0115 (15m.), FL0120 (20m.).
- DAP Audio cable for the demanding user with exceptional audio-qualities and connector made by Neutrik®. **Ordercode** FL71150 (1,5m.), FL713 (3m.), FL716 (6m.), FL7110 (10m).

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Control Panel

A

Show
Mode

ESC SETUP UP DOWN

B C D E
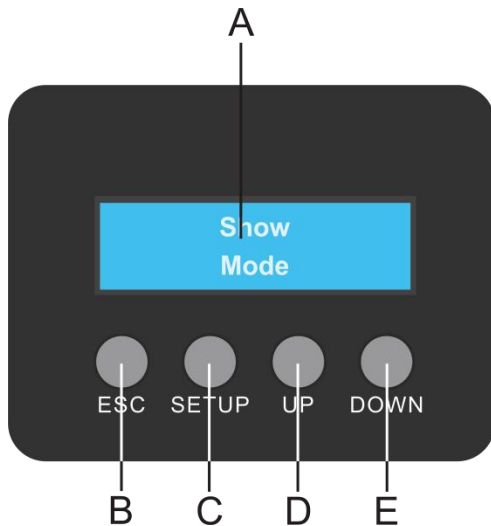
A) LCD display
B) ESC button
C) SETUP button
D) UP button
E) DOWN button

Fig. 05

Control Mode
The fixtures are individually addressed on a data-link and connected to the controller.
The fixtures respond to the DMX signal from the controller. (When you select the DMX address and save it, the controller will display the saved DMX address the next time.)

DMX Addressing
The control panel on the front side of the base allows you to assign the DMX fixture address, which is the first channel from which the Beacon will respond to the controller.
Please note when you use the controller, the unit has **19** channels.
When using multiple Beacons, make sure you set the DMX addresses right.
Therefore, the DMX address of the first Beacon should be **1(001)**; the DMX address of the second Beacon should be **1+19=20 (020)**; the DMX address of the third Beacon should be **20+19=39 (039)**, etc.
Please, make sure that you do not have any overlapping channels in order to control each Beacon correctly.
If two or more Beacons are addressed similarly, they will work similarly.

Controlling:
After having addressed all Beacon fixtures, you may now start operating these via your lighting controller.
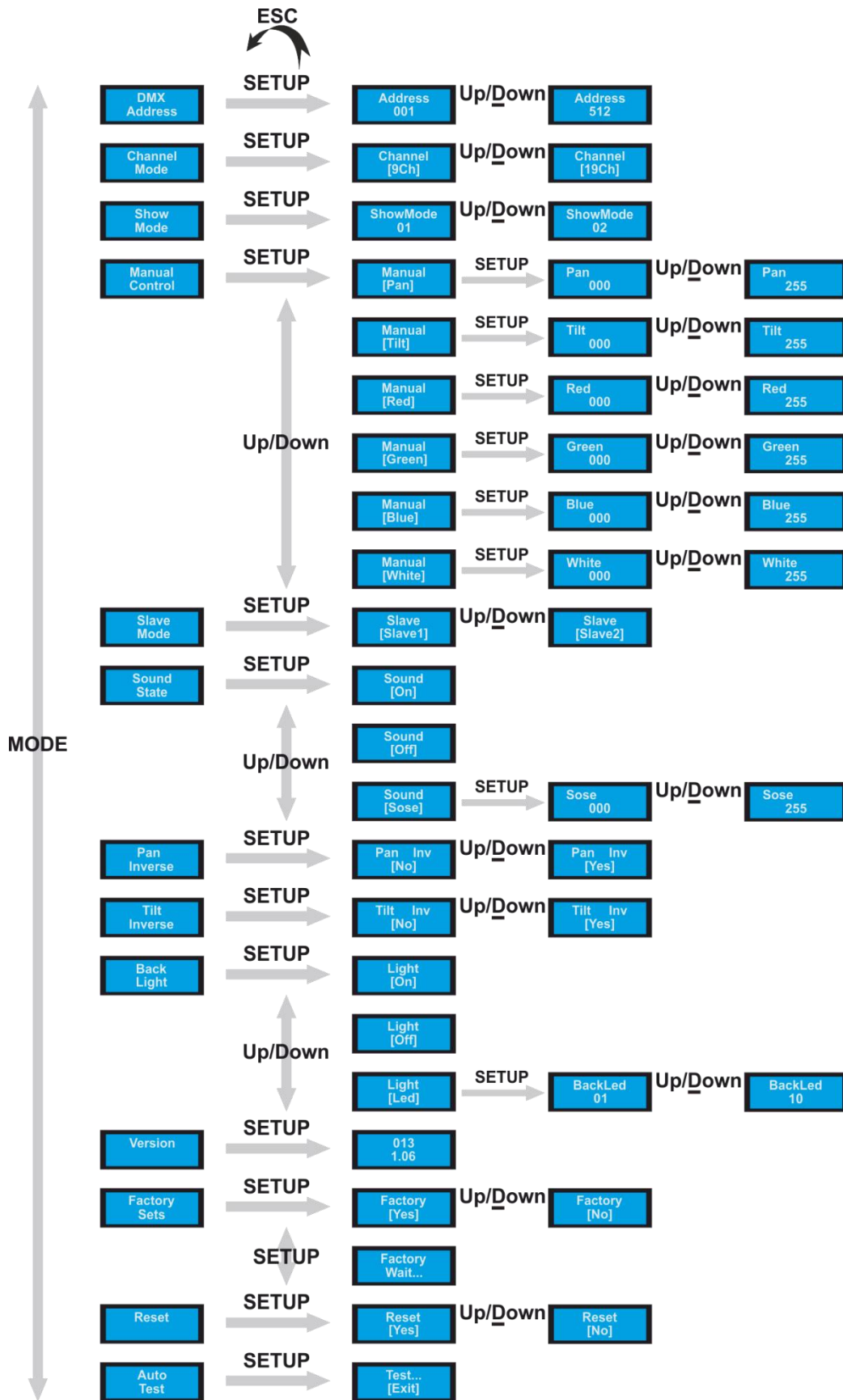**Note:** After switching on, the Beacon will automatically detect whether DMX-512 data is received or not.
If there is no data received at the DMX-input, the "**LED**" on the control panel will not flash.
The problem may be:
•   The XLR cable from the controller is not connected with the input of the Beacon.
•   The controller is switched off or defective, the cable or connector is detective, or the signal wires are swapped in the input connector.

Note: It is necessary to insert an XLR termination plug (with 120 Ohm) in the last fixture in order to ensure proper transmission on the DMX data link.
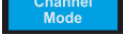
Menu Overview

ESC
SETUP

| DMX Address | SETUP → | Address 001 | Up/Down | Address 512 |

| Channel Mode | SETUP → | Channel [9Ch] | Up/Down | Channel [19Ch] |

| Show Mode | SETUP → | ShowMode 01 | Up/Down | ShowMode 02 |

| Manual Control | SETUP → | Manual [Pan] | SETUP → | Pan 000 | Up/Down | Pan 255 |

Manual [Tilt] → SETUP → Tilt 000 → Up/Down → Tilt 255

Manual [Red] → SETUP → Red 000 → Up/Down → Red 255

Manual [Green] → SETUP → Green 000 → Up/Down → Green 255

Manual [Blue] → SETUP → Blue 000 → Up/Down → Blue 255

Manual [White] → SETUP → White 000 → Up/Down → White 255

Up/Down

| Slave Mode | SETUP → | Slave [Slave1] | Up/Down | Slave [Slave2] |

| Sound State | SETUP → | Sound [On] |

Sound [Off]

Up/Down

Sound [Sose] → SETUP → Sose 000 → Up/Down → Sose 255

| Pan Inverse | SETUP → | Pan Inv [No] | Up/Down | Pan Inv [Yes] |

| Tilt Inverse | SETUP → | Tilt Inv [No] | Up/Down | Tilt Inv [Yes] |

| Back Light | SETUP → | Light [On] |

Light [Off]

Up/Down

Light [Led] → SETUP → BackLed 01 → Up/Down → BackLed 10

| Version | SETUP → | 013 1.06 |

| Factory Sets | SETUP → | Factory [Yes] | Up/Down | Factory [No] |

Factory Wait...

SETUP

| Reset | SETUP → | Reset [Yes] | Up/Down | Reset [No] |

| Auto Test | SETUP → | Test... [Exit] |

MODE

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Main Menu Options

Button	Description
DMX Address	DMX-512 Mode
Channel Mode	Channel Mode (9CH, 19CH)
Show Mode	Show Mode
Manual Control	Manual Control mode
Slave Mode	Master/Slave Mode
Sound State	Sound-controlled Mode
Pan Inverse	Pan Reverse Mode
Tilt Inverse	Tilt Reverse Mode
Back Light	Display settings
Version	Software Version
Factory Sets	Restoration of Factory Settings
Reset	Setting Reset
Auto Test	Auto Test Mode

1. DMX-512 Mode

01) While in the main menu, press the **UP** and **DOWN** buttons until the display shows **DMX Address**.
02) Press the **SETUP** button to enter the menu.
03) Press the **UP** and **DOWN** buttons to set the DMX address between **Address 001** Up/Down **Address 512**.
04) Press the **SETUP** button to confirm the address.

2. Channel Mode

01) While in the main menu, press the **UP** and **DOWN** buttons until the display shows **Channel Mode**.
02) Press the **SETUP** button to enter the menu.
03) Press the **UP** and **DOWN** buttons to choose between 2 options: **Channel [9Ch]** Up/Down **Channel [19Ch]**.
04) Press the **SETUP** button to confirm your choice.

3. Built-in auto programs

01) While in the main menu, press the **UP** and **DOWN** buttons until the display shows **Show Mode**.
02) Press the **SETUP** button to enter the menu.
03) Press the **UP** and **DOWN** buttons to choose between 2 options: **ShowMode 01** Up/Down **ShowMode 02**.
04) Press the **SETUP** button to confirm your choice.

4. Manual Control Mode

In this menu it is possible to manually adjust the device's settings.

01) While in the main menu, press the **UP** and **DOWN** buttons until the display shows `Manual Control`.
02) Press the **SETUP** button to enter the menu.
03) Press the **UP** and **DOWN** buttons to toggle between the following settings:

`Manual [Pan]`   Pan

`Manual [Tilt]`   Tilt

`Manual [Red]`   Red Color

`Manual [Green]`   Green Color

`Manual [Blue]`   Blue Color

`Manual [White]`   White Color

04) When the display shows `Manual [Pan]`, press the **SETUP** button to enter the menu. Subsequently, press the **UP** and **DOWN** buttons to adjust the pan movement settings between `Pan 000` **Up/Down** `Pan 255`. The values correspond with their DMX counterparts.
05) Press the **SETUP** button to store the changes.
06) When the display shows `Manual [Tilt]`, press the **SETUP** button to enter the menu. Subsequently, press the **UP** and **DOWN** buttons to adjust the tilt movement settings between `Tilt 000` **Up/Down** `Tilt 255`. The values correspond with their DMX counterparts.
07) Press the **SETUP** button to store changes.
08) When the display shows `Manual [Red]`, press the **SETUP** button to enter the menu.
09) Press the **UP** and **DOWN** buttons to set the red color intensity between `Red 000` **Up/Down** `Red 255`. 0 = off, 255 = full on.
10) Press the **SETUP** button to store changes.
11) When the display shows `Manual [Green]`, press the **SETUP** button to enter the menu.
12) Press the **UP** and **DOWN** buttons to set the green color intensity between `Green 000` **Up/Down** `Green 255`. 0 = off, 255 = full on.
13) Press the **SETUP** button to store changes.
14) When the display shows `Manual [Blue]`, press the **SETUP** button to enter the menu.
15) Press the **UP** and **DOWN** buttons to set the blue color intensity between `Blue 000` **Up/Down** `Blue 255`. 0 = off, 255 = full on.
16) Press the **SETUP** button to store changes.
17) When the display shows `Manual [White]`, press the **SETUP** button to enter the menu.
18) Press the **UP** and **DOWN** buttons to set the white color intensity between `White 000` **Up/Down** `White 255`. 0 = off, 255 = full on.
19) Press the **SETUP** button to store changes.

5. Master/Slave Mode

01) While in the main menu, press the **UP** and **DOWN** buttons until the display shows
    | Slave Mode |
    .
02) Press the **SETUP** button to enter the menu.
03) Press the **UP** and **DOWN** buttons to toggle between the following slave modes:

| Slave [Slave1] | Normal slave mode |

| Slave [Slave2] | Mirror slave mode |

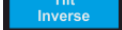04) Press the **SETUP** button to confirm your choice.

6. Sound-controlled Mode

01) While in the main menu, press the **UP** and **DOWN** buttons until the display shows
    | Sound State |
    .
02) Press the **SETUP** button to enter the menu.
03) Press the **UP** and **DOWN** buttons to toggle between the following options:

| Sound [On] | Sound-controlled mode ON |

| Sound [Off] | Sound-controlled mode OFF |

| Sound [Sose] | Sound Sensitivity settings |

04) Press the **SETUP** button to confirm your choice.

05) When the display shows | Sound [Sose] |, press the **SETUP** button to enter the sound sensitivity menu.

06) Press the **UP** and **DOWN** buttons to set the sound sensitivity between | Sose 000 | **Up/Down** | Sose 255 |.
    0 = Off, 255 = very sensitive.
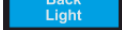
07) Press the **SETUP** button to store changes.

7. Pan Reverse Mode

01) While in the main menu, press the **UP** and **DOWN** buttons until the display shows
    | Pan Inverse |
    .
02) Press the **SETUP** button to enter the menu.
03) Press the **UP** and **DOWN** buttons to choose between 2 options: | Pan Inv [No] | **Up/Down** | Pan Inv [Yes] |.
04) Press the **SETUP** button to store changes.

8. Tilt Reverse Mode

01) While in the main menu, press the **UP** and **DOWN** buttons until the display shows
    | Tilt Inverse |
    .
02) Press the **SETUP** button to enter the menu.
03) Press the **UP** and **DOWN** buttons to choose between 2 options: | Tilt Inv [No] | **Up/Down** | Tilt Inv [Yes] |.
04) Press the **SETUP** button to store changes.
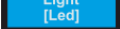
9. Display settings

01) While in the main menu, press the **UP** and **DOWN** buttons until the display shows
    | Back Light |
    .
02) Press the **SETUP** button to enter the menu.
03) Press the **UP** and **DOWN** buttons to toggle between the following options:

| Light [On] | Display always ON |

| Light [Off] | Display OFF after 10 seconds |

| Light [Led] | Display brightness |

04) Press the **SETUP** button to confirm your choice.

05) When the display shows `Light [Led]`, press the **SETUP** button to enter the display brightness menu.

06) Press the **UP** and **DOWN** buttons to set the display brightness between `BackLed 01` **Up/Down** `BackLed 10`.
01 = dark, 10 = very bright.

07) Press the **SETUP** button to store changes.

10. Software version

01) While in the main menu, press the **UP** and **DOWN** buttons until the display shows `Version`.

02) Press the **SETUP** button to look up the currently installed software version.

11. Restoration of Factory Settings

01) While in the main menu, press the **UP** and **DOWN** buttons until the display shows `Factory Sets`.

02) Press the **SETUP** button to enter the menu.

03) Press the **UP** and **DOWN** buttons to choose between 2 options: `Factory [Yes]` **Up/Down** `Factory [No]`.

04) If the display shows `Factory [Yes]`, press the **SETUP** button to start restoring the factory settings.
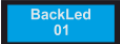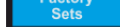
12. Setting Reset

01) While in the main menu, press the **UP** and **DOWN** buttons until the display shows `Reset`.

02) Press the **SETUP** button to enter the menu.

03) Press the **UP** and **DOWN** buttons to choose between 2 options: `Reset [Yes]` **Up/Down** `Reset [No]`.

04) If the display shows `Reset [Yes]`, press the **SETUP** button to start resetting settings.
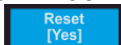
13. Auto Test Mode

01) While in the main menu, press the **UP** and **DOWN** buttons until the display shows `Auto Test`.

02) Press the **SETUP** button to run the automatic test of all the available features.

DMX Channels

9 channels

Channel 1 – Horizontal movement (Pan)

0-127	Manual pan adjustment, between 0-360°
128-191	Clockwise rotation, from fast to slow
192-255	Counterclockwise rotation, from slow to fast

Channel 2 – Vertical movement (Tilt)

0-127	Manual tilt adjustment, between 0-360°
128-191	Clockwise rotation, from fast to slow
192-255	Counterclockwise rotation, from slow to fast

Channel 3 – Dimmer

0-255	Dimmer intensity, from OFF to full ON

Channel 4 – Red color

0-255	Red color intensity, from OFF to full ON

Channel 5 – Green color

0-255	Green color intensity, from OFF to full ON

Channel 6 – Blue color

0-255	Blue color intensity, from OFF to full ON

Channel 7 – White color

0-255	White color intensity, from OFF to full ON

Channel 8 – Strobe effect

0-5	Strobe OFF
6-255	Strobe speed, from slow to fast

Channel 9 – Setting reset

0-9	Not functional
10-20	Setting reset active
21-255	Not functional

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19 channels

Channel 1 – Manual horizontal movement (Pan)

0-255	Manual pan adjustment, between 0-360°

Channel 2 – Pan 16-bit

0-255	Manual 16-bit pan adjustment

Channel 3 – Manual vertical movement (Tilt)

0-255	Manual tilt adjustment, between 0-360°

Channel 4 – Tilt 16-bit

0-255	Manual 16-bit tilt adjustment

Channel 5 – Pan and Tilt speed

0-255	Speed adjustment, from fast to slow

Channel 6 – Horizontal movement (Pan)

0-127	Manual pan adjustment, between 0-360°
128-191	Clockwise rotation, from fast to slow
192-255	Counterclockwise rotation, from slow to fast

Channel 7 – Vertical movement (Tilt)

0-127	Manual tilt adjustment, between 0-360°
128-191	Clockwise rotation, from fast to slow
192-255	Counterclockwise rotation, from slow to fast

Channel 8 – Red color, LED 1

0-255	Red color intensity, from OFF to full ON

Channel 9 – Green color, LED 1

0-255	Green color intensity, from OFF to full ON

Channel 10 – Blue color, LED 1

0-255	Blue color intensity, from OFF to full ON

Channel 11 – White color, LED 1

0-255	White color intensity, from OFF to full ON

Channel 12 – Red color, LED 2

0-255	Red color intensity, from OFF to full ON

Channel 13 – Green color, LED 2

0-255	Green color intensity, from OFF to full ON

Channel 14 – Blue color, LED 2

0-255	Blue color intensity, from OFF to full ON

Channel 15 – White color, LED 2

0-255	White color intensity, from OFF to full ON

Channel 16 – Strobe effect

0-5	Strobe OFF
6-255	Strobe speed, from slow to fast

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Channel 17 – Color settings

0-15	Not functional
16-55	Color switch, effect 1
56-95	Color switch, effect 2
96-135	Color switch, effect 3
136-175	Color switch, effect 4
176-215	Color switch, effect 5
216-255	Color flow

Channel 18 – Color flow ⚠ **CH17 must be set between 216-255** ⚠

0-255	Color flow speed, from slow to fast

Channel 19 – Setting reset

0-9	Not functional
10-20	Setting reset active
21-255	Not functional

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Maintenance

The Showtec Beacon 360 requires almost no maintenance. However, you should keep the unit clean. Otherwise, the fixture's light-output will be significantly reduced.
Disconnect the mains power supply and then wipe the cover with a damp cloth. Wipe the front glass panel clean with glass cleaner and a soft cloth. Do not use alcohol or solvents. The front glass panel will require weekly cleaning, as smoke-fluid tends to build up residues, reducing the light-output very quickly. Do not immerse in liquid.
Keep connections clean. Disconnect electric power, and then wipe the DMX and audio connections with a damp cloth. Make sure connections are thoroughly dry before linking equipment or supplying electric power.

The operator has to make sure that safety-relating and machine-technical installations are to be inspected by an expert after every year in the course of an acceptance test.
The operator has to make sure that safety-relating and machine-technical installations are to be inspected by a skilled person once a year.

The following points have to be considered during the inspection:
01)   All screws used for installing the device or parts of the device have to be tightly connected and must not be corroded.
02)   There may not be any deformations on housings, fixations and installation spots.
03)   Mechanically moving parts like axles, eyes and others may not show any traces of wearing.
04)   The electric power supply cables must not show any damages or material fatigue.

Replacing the Fuse

Power surges, short-circuit or inappropriate electrical power supply may cause a fuse to burn out.
If the fuse burns out, the product will not function whatsoever. If this happens, follow the directions below:
01)   Unplug the unit from electric power source.
02)   Insert a flat-headed screwdriver into a slot in the fuse cover and turn. The fuse will come out.
03)   Remove the used fuse. If brown or unclear, it is burned out.
04)   Insert the replacement fuse into the holder. Reinsert the fuse cover. Be sure to use a fuse of the same type and specification. See the product specification label for details.

Troubleshooting

This troubleshooting guide is meant to help solve simple problems.
If a problem occurs, carry out the steps below in sequence until a solution is found. Once the unit operates properly, do not carry out following steps.

No Light

If the light effect does not operate properly, refer servicing to a technician.
Response: Suspect three potential problem areas as: the power supply, the LEDs, the fuse.
01)   Power supply. Check if the unit is plugged into an appropriate power supply.
02)   The LEDs. Return the Beacon to your Showtec dealer.
03)   The fuse. Replace the fuse. See page 21 for replacing the fuse.
04)   If all of the above appears to be O.K., plug the unit in again.
05)   If you are unable to determine the cause of the problem, do not open the Beacon, as this may damage the unit and the warranty will become void.
06)   Return the device to your Showtec dealer.

No Response to DMX

Response: Suspect the DMX cable or connectors, a controller malfunction, a light effect DMX card malfunction.
01)   Check the DMX setting. Make sure that DMX addresses are correct.
02)   Check the DMX cable: Unplug the unit; change the DMX cable; then reconnect to electrical power. Try your DMX control again.
03)   Determine whether the controller or light effect is at fault. Does the controller operate properly with other DMX products? If not, take the controller in for repair. If so, take the DMX cable and the light effect to a qualified technician.

Problem	Probable cause(s)	Solution
One or more fixtures do not function at all	No power to the fixture	• Check if power is switched on and cables are plugged in
	Primary fuse blown	• Replace fuse
Fixtures reset correctly, but all respond erratically or not at all to the controller	The controller is not connected.	• Connect controller.
	3-pin XLR Out of the controller does not match XLR Out of the first fixture on the link (i.e. signal is reversed)	• Install a phase reversing cable between the controller and the first fixture on the link
Fixtures reset correctly, but some respond erratically or not at all to the controller	Poor data quality	• Check data quality. If much lower than 100 percent, the problem may be a bad data link connection, poor quality or broken cables, missing termination plug, or a defective fixture disturbing the link
	Bad data link connection	• Inspect connections and cables. Correct poor connections. Repair or replace damaged cables
	Data link not terminated with 120 Ohm termination plug	• Insert termination plug in output jack of the last fixture on the link
	Incorrect addressing of the fixtures	• Check address setting
	One of the fixtures is defective and disturbs data transmission on the link	• Bypass one fixture at a time until normal operation is restored: unplug both connectors and connect them directly together. • Have the defective fixture serviced by a qualified technician
	3-pin XLR Out on the fixtures does not match (pins 2 and 3 reversed)	• Install a phase-reversing cable between the fixtures or swap pin 2 and 3 in the fixture that behaves erratically
No light or lamp cuts out intermittently	Fixture is too hot	• Allow the fixture to cool down • Clean the fan • Make sure air vents in control panel and the front lens are not blocked • Turn up the air conditioning
	LEDs damaged	• Disconnect the fixture and return it to your dealer
	The power supply settings do not match local AC voltage and frequency	• Disconnect fixture. Check settings and correct if necessary

Product Specifications

Model	Showtec Beacon 360
Input Voltage:	100~240VAC 50/60Hz
Power consumption:	60W
Fuse:	3A/250V
Dimensions:	241 mm x 145 mm x 313 mm (LxWxH)
Weight:	5 Kg
Operation and Programming	
Signal pin OUT:	pin 1 earth, pin 2 (-), pin 3 (+)
Set Up and Addressing:	LCD control panel
Pan/Tilt resolution:	16 bit
DMX Channels:	9, 19
Signal input and output:	3-pin XLR male IN 3-pin XLR female OUT

Electro-mechanical effects

- High torque motor
- Ultra-fast movements
- DMX-control via standard DMX-controller
- Reverse Pan / Tilt movement
- Special: Pan / Tilt movement
- Pan 0º -- 360º, Tilt 0º -- 360º
- Control modes: DMX-512, Auto, Manual, Master/Slave, Sound
- Colors: Red, Green, Blue, White
- Color functions: Rainbow effect
- Rotation: Bi-directional
- Beam Angle: 8°
- Dimmer: 0-100%
- Strobe: 0-20Hz
- Housing: Black Metal & Flame-retardant plastic

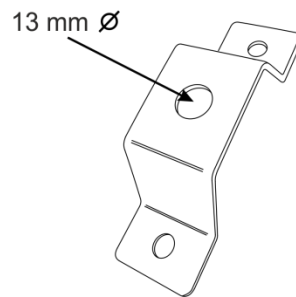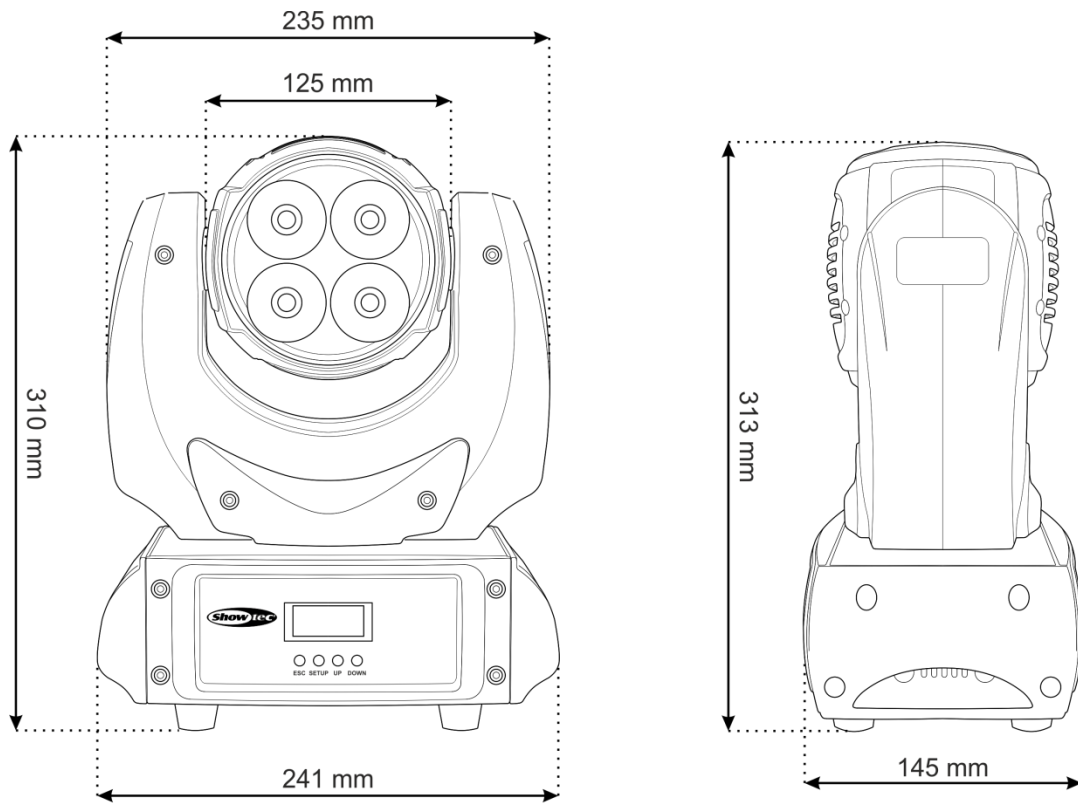| Max. ambient temperature t_a:	40°C; Max. housing temperature t_B: 80°C
Cooling:	Cooling fan
Motor:	high quality stepping-motor controlled by microprocessors

Minimum distance	
Minimum distance from flammable surfaces:	0.5 m
Minimum distance to lighted object:	1.3 m

Design and product specifications are subject to change without prior notice

CE

Website: www.Showtec.info
Email: service@highlite.nl

Show tec®

Dimensions

235 mm

125 mm

310 mm

241 mm

313 mm

145 mm

13 mm Ø

Showtec®

Notes