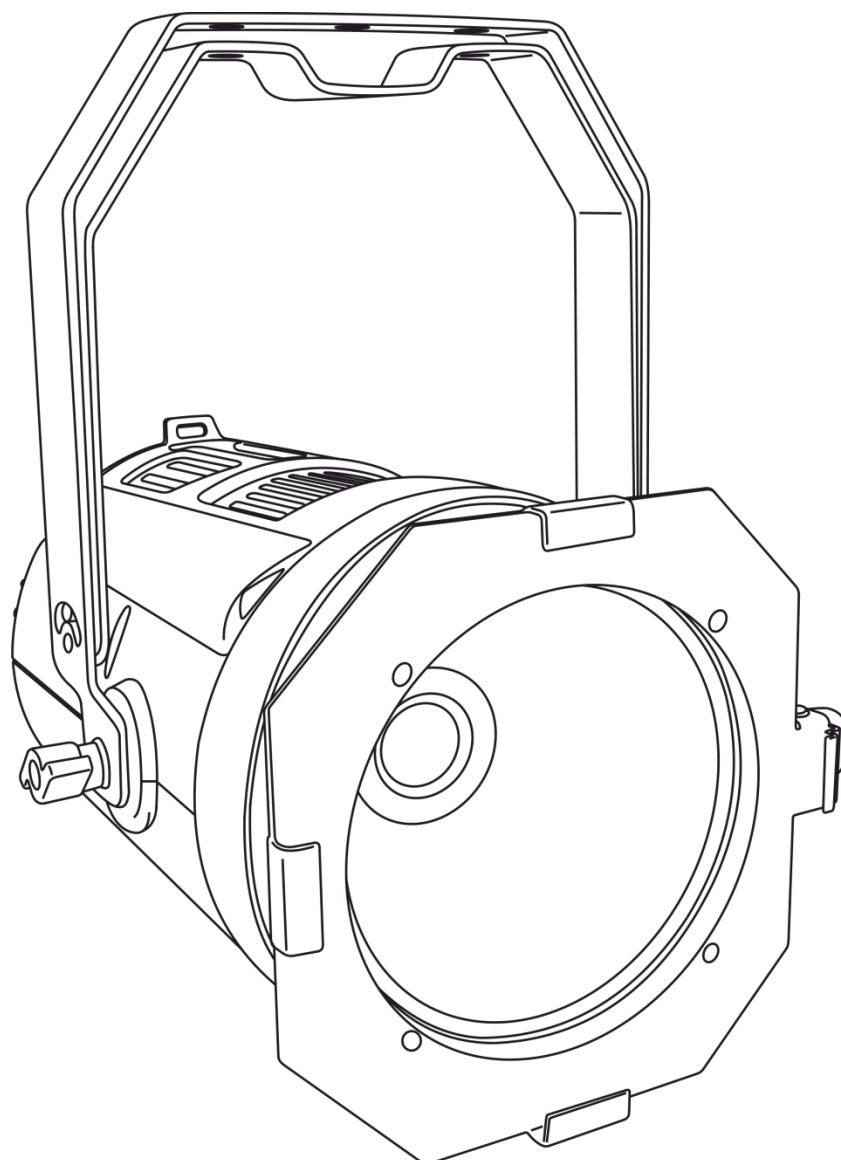




MANUAL



ENGLISH

Helios 200 COB Q4

V3

Ordercode: 43715

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## Warning



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

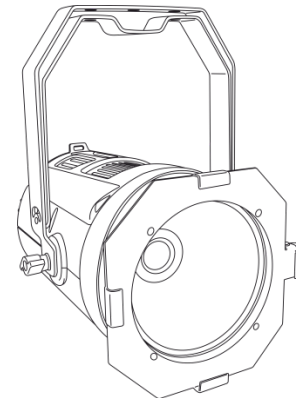


### Unpacking Instructions

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 Helios 200 COB Q4
- Pro power cable (1,5 m)
- 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 servicing 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.
- 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 fixture 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 Helios. 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.
- Repairs, servicing and electric connection must be carried out by a qualified technician.
- **WARRANTY:** Till one year after date of purchase.



**CAUTION! Eyedamages!!!**  
**Avoid looking directly into the lightsource!!!**  
**(meant especially for epileptics)!!!**



### 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  $t_a = 40^\circ\text{C}$  must never be exceeded.
- The relative humidity must not exceed 50 % with an ambient temperature of  $40^\circ\text{C}$ .
- 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

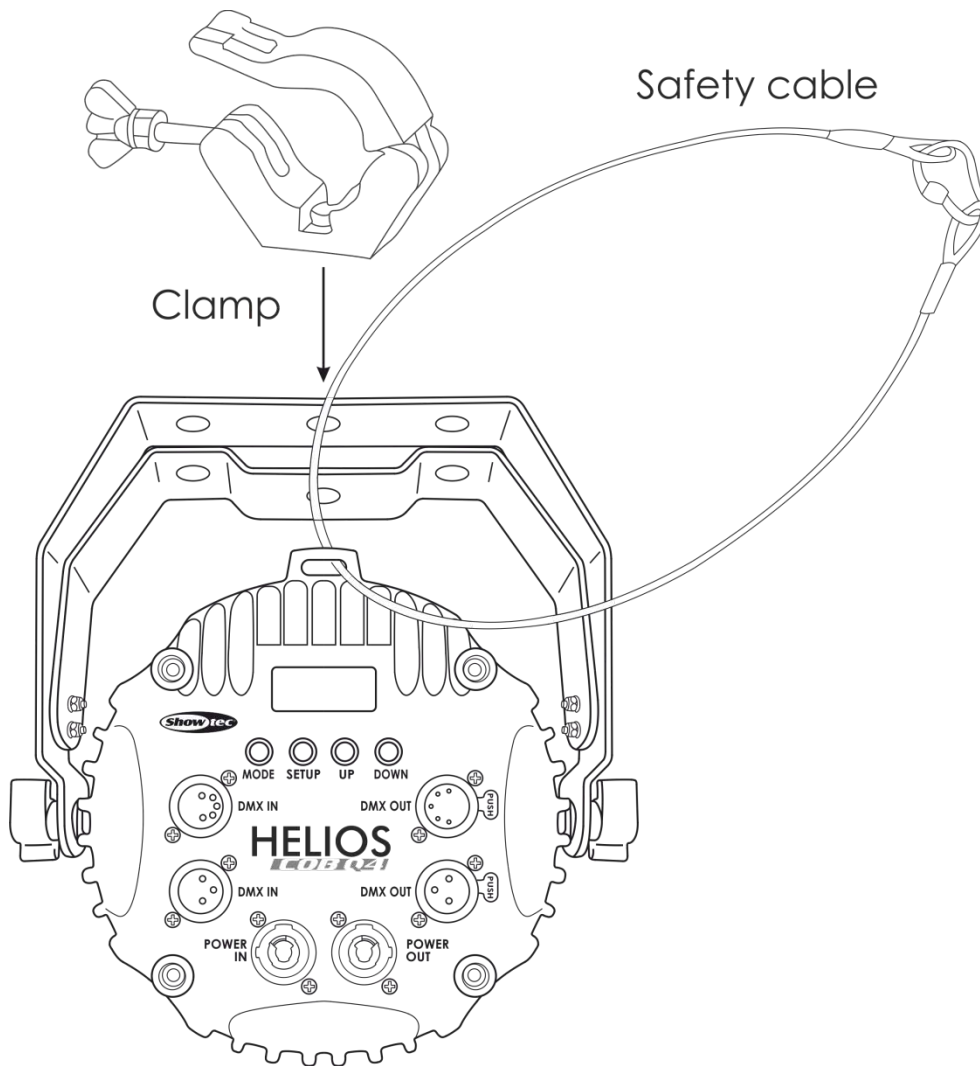
*Please follow the European and national guidelines concerning rigging, trussing and all other safety issues.*

*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, derigging 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 Helios can be placed on a flat stage floor or mounted to any kind of truss with a clamp.

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



### **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](mailto: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 shortcomings 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 report 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 agreed otherwise in writing.

Complaints against us must be prepared in writing or sent 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 from which the obligation is resulting.

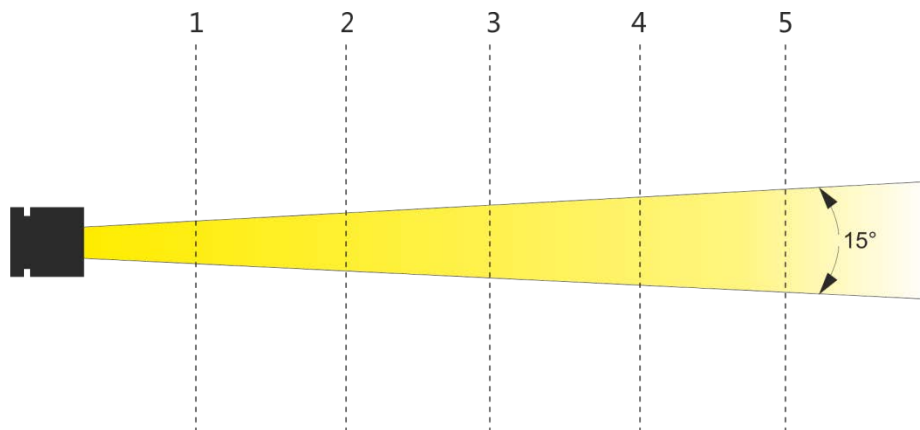
## Description of the device

### Features

The Showtec Helios 200 COB is a die-cast spot effect with RGBW color mixing. The COB technology with RGBW colors offers an excellent color mix, which can be used for making both, high saturated and pastel colors. The 16-character LCD display with a user-friendly menu structure makes it convenient to apply your desired settings.

- Input voltage: 100-240V AC, 60/50Hz
- Power consumption: 210W
- Light source: 1 x 200W COB RGBW
- Lux @2m: 2036
- Refresh rate:12kHz
- Control protocol: DMX-512
- DMX channels: 4, 6, 7, 8, 11 channels
- Control modes: Built-in programs, Auto, DMX, Master/Slave, Sound-controlled, Manual
- Dimmer: 0-100%
- Strobe: 0-20Hz
- Beam angle: 15°-60°
- Housing: Die-cast aluminum
- Connections: 3-pin/5-pin XLR connectors IN/OUT & Pro Power IN/OUT
- Cooling: Cooling fan
- Color: Black
- Dimensions: 400 x 270 x 370 mm (LxWxH)
- Weight: 4,54 kg

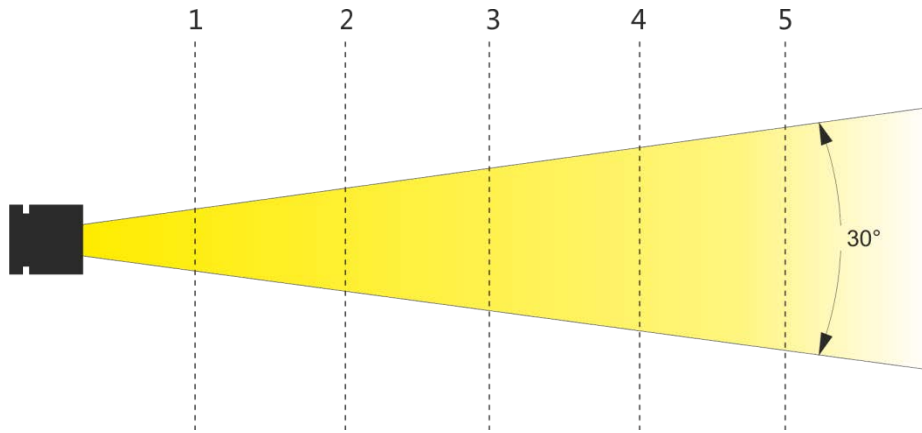
15°



Lux @ 1 - 5m	1 m	2 m	3 m	4 m	5 m
Red	6190	1650	765	428	257
Green	10600	2908	1331	753	401
Blue	2260	610	280	160	104
White	12120	3239	1458	764	539
FULL ON	27340	7560	3412	1910	1159

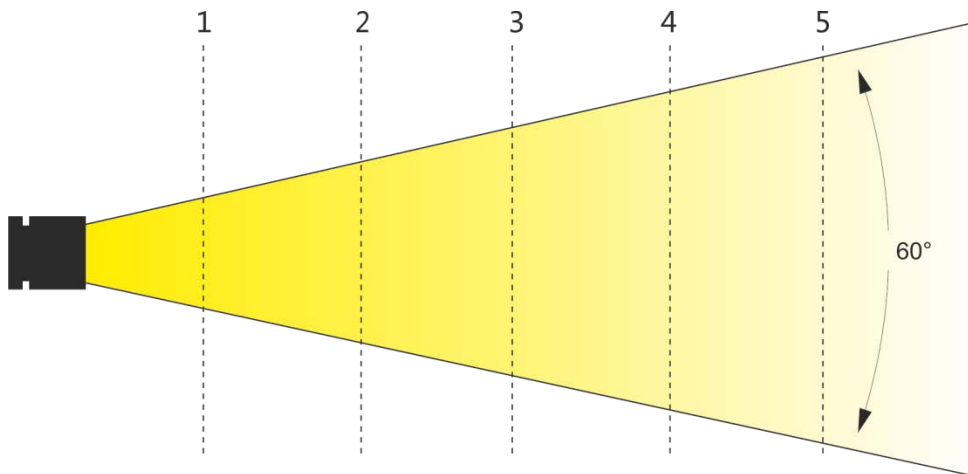


30°



Lux @ 1 - 5m	1 m	2 m	3 m	4 m	5 m
Red	3624	929	451	245	160
Green	6540	1717	795	461	300
Blue	1370	366	167	97	64
White	7340	1940	895	525	340
FULL ON	16240	4400	2000	1180	760

60°



Lux @ 1 - 5m	1 m	2 m	3 m	4 m	5 m
Red	1441	410	200	119	79
Green	2627	746	360	216	143
Blue	550	161	75	45	30
White	2761	803	386	235	153
FULL ON	6400	2036	960	577	378

Frontside

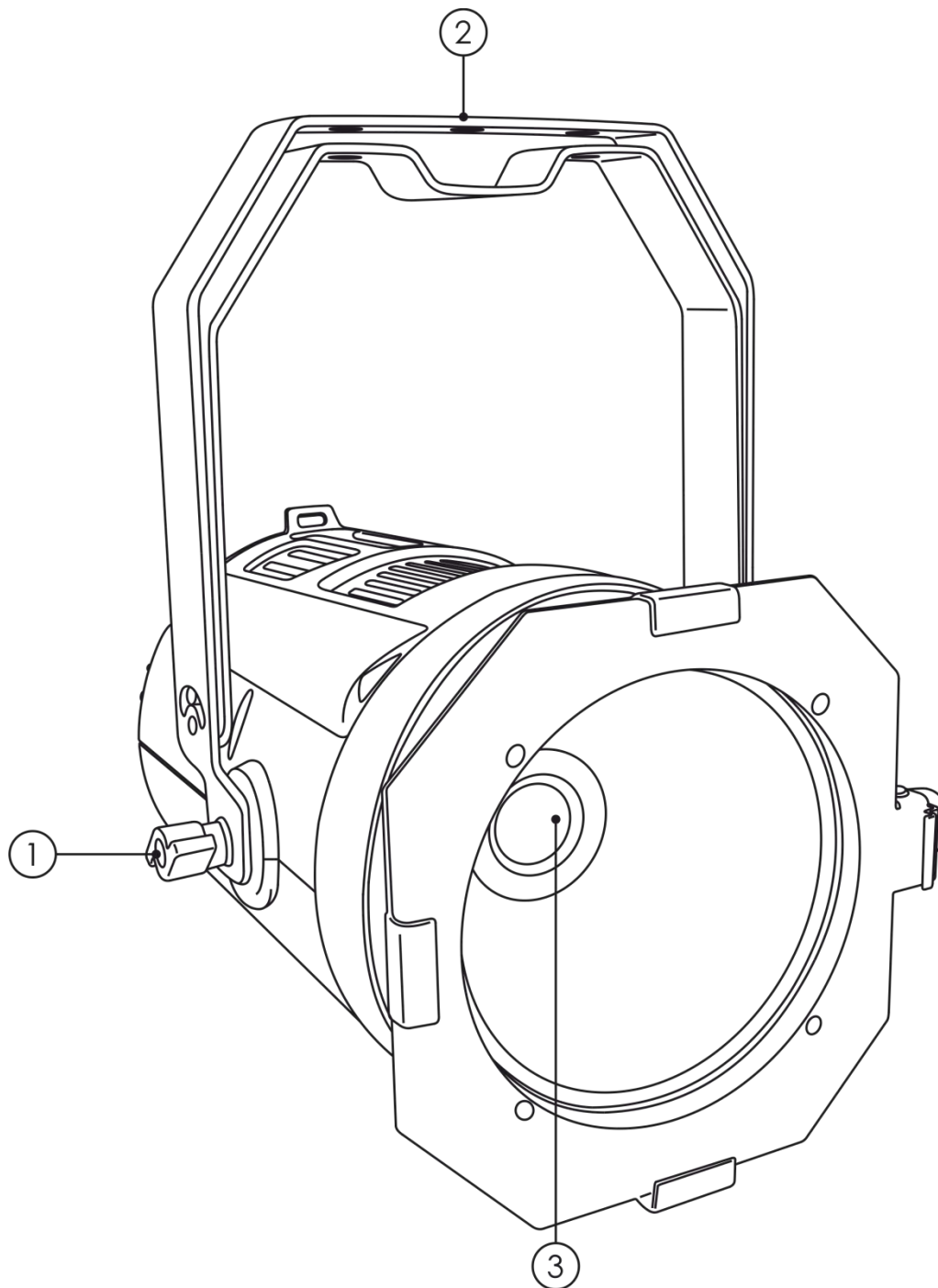


Fig. 01

- 01) Adjustment screw
- 02) Double mounting bracket
- 03) 1 x 200W COB RGBW

Backside

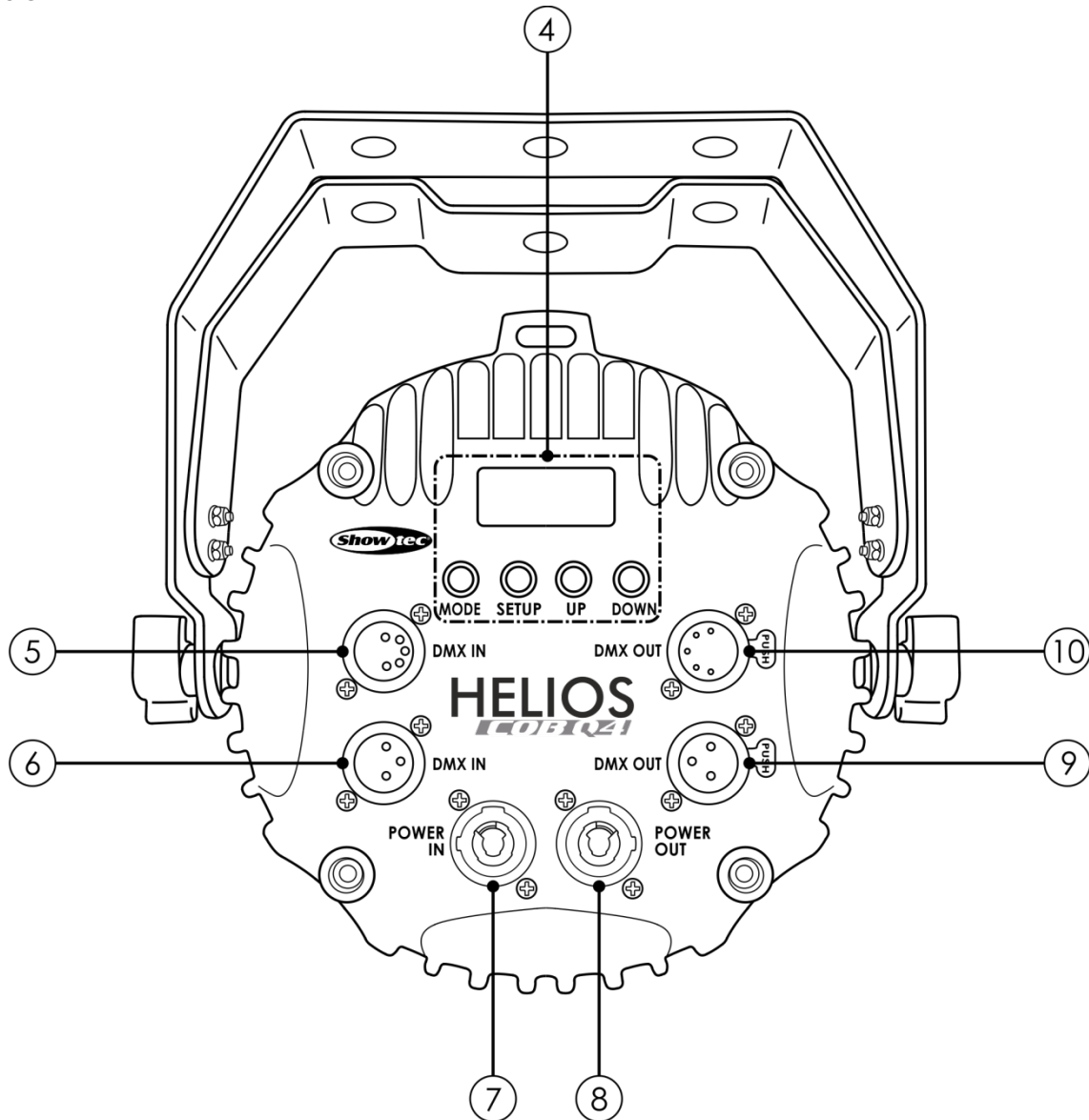


Fig. 02

- 04) LCD display + control buttons
- 05) 5-pin DMX signal connector IN
- 06) 3-pin DMX signal connector IN
- 07) Pro power connector 100-240V IN
- 08) Pro power connector 100-240V OUT
- 09) 3-pin DMX signal connector OUT
- 10) 5-pin DMX signal connector OUT

**Installation**

Remove all packing materials from the Helios 200 COB Q4. Check if 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. Connect the device to the main power supply.

### Control Modes

There are 6 modes:

- Manual Mode (Static Color)
- Auto Mode
- Built-in programs
- Sound-controlled
- Master/Slave
- DMX-512 (4CH, 6CH, 7CH, 8CH, 11CH)

#### One Helios (Manual Mode, Auto Mode, Built-in programs and Sound-controlled)

- 01) Fasten the effect light to a firm trussing. Leave at least 0,5 meter on all sides for air circulation.
- 02) Plug the end of the electric mains power cord into a proper electric power supply socket.
- 03) When the Helios is not connected with a DMX cable, it functions as a stand-alone device.
- 04) Turn on the music. If the device is set to sound-control, then the Helios will react to the beat of the music.
- 05) Please see page 16-18 for more information about the Built-in programs, Auto mode, Sound-controlled and Manual mode.

#### Multiple Helioses (Master/Slave control)

- 01) Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
- 02) Use a 3-pin/5-pin XLR cable to connect the Helios.

The pins:



- 01) Earth
- 02) Signal -
- 03) Signal +

- 03) Link the units as shown in fig. 03. Connect the first unit's DMX "out" socket with the second unit's "in" socket, using a DMX-signal cable. 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 16-18 (Built-in programs, Auto mode, Manual mode or Sound-controlled mode). This means that you can set your desired operation mode on the master device and all slave devices will react the same as the master device.

#### Multiple Helioses (Master/Slave control)

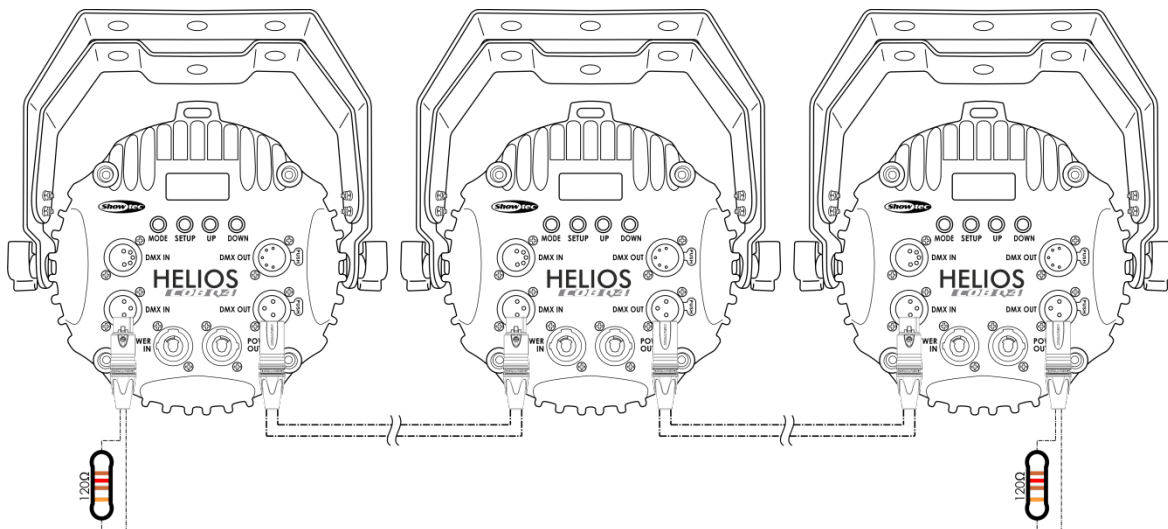
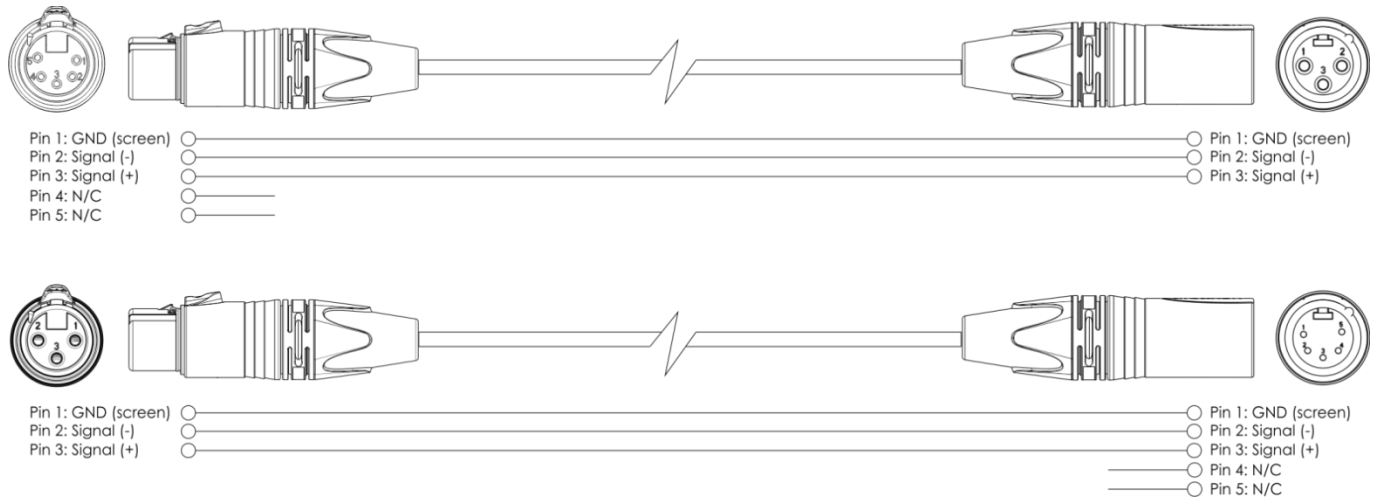


Fig. 03

## Multiple Helioses (DMX Control)

- 01) Fasten the effect light to a firm trussing. Leave at least 0,5 meter on all sides for air circulation.
- 02) Always use a safety cable (ordercode 70140 / 70141).
- 03) Use a 3-pin/5-pin XLR cable to connect the Helioses and other devices.



- 04) Link the units as shown in fig. 04. Connect the first unit's DMX "out" socket with the second unit's "in" socket, using a DMX-signal cable. Repeat this process to link the second, third, and fourth units.
- 05) Supply electric power: Plug electric mains power cords into each unit's Pro power 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 Helioses DMX Set Up

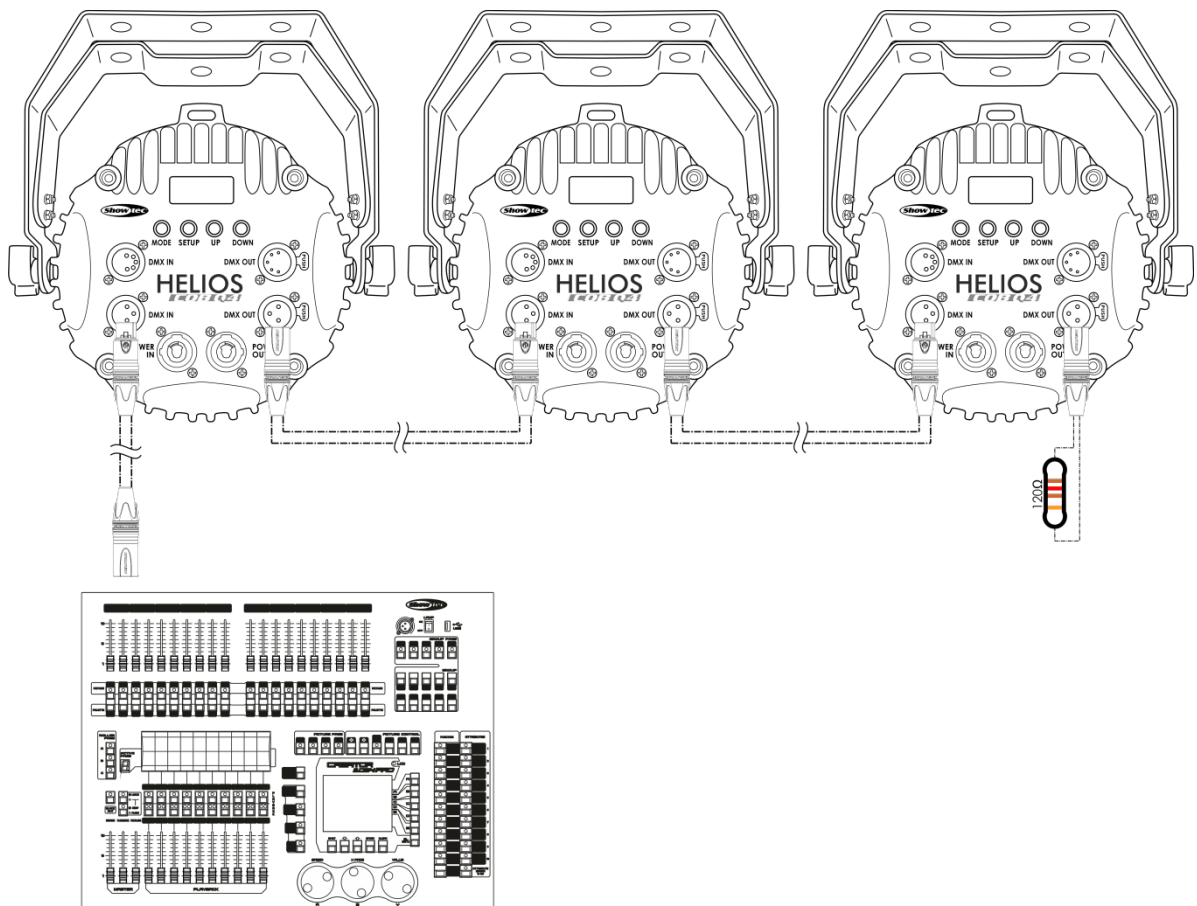


Fig. 04

Note : Link all cables before connecting electric power

## 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

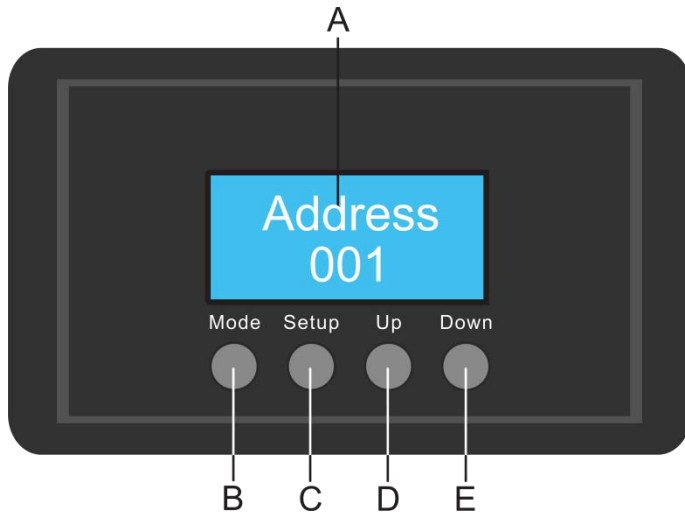
To link fixtures together, you must obtain data cables. You can purchase DAP Audio certified DMX cables directly from a dealer/distributor or construct your own cable. If you choose to create your own cable, please use data-grade cables that can carry a high quality signal and are less prone to electromagnetic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

### DAP Audio DMX Data Cables

- DAP Audio Basic microphone cable for allround use. bal. XLR/M 3-pin > XLR/F 3-pin. **Ordercode** FL01150 (1,5 m), FL013 (3 m), FL016 (6 m), FL0110 (10 m), FL0115 (15 m), FL0120 (20 m).
- DAP Audio X-type data cable XLR/M 3-pin > XLR/F 3-pin. **Ordercode** FLX0175 (0,75 m), FLX01150 (1,5 m), FLX013 (3 m), FLX016 (6 m), FLX0110 (10 m).
- DAP Audio cable for the demanding user with exceptional audio-qualities and connector made by Neutrik®. **Ordercode** FL71150 (1,5 m), FL713 (3 m), FL716 (6 m), FL7110 (10 m).
- DAP Audio cable for the demanding user with exceptional audio-qualities and connector made by Neutrik®. **Ordercode** FL7275 (0,75 m), FL72150 (1,5 m), FL723 (3 m), FL726 (6 m), FL7210 (10 m).
- DAP Audio 110 Ohm cable with digital signal transmission. **Ordercode** FL0975 (0,75 m), FL09150 (1,5 m), FL093 (3 m), FL096 (6 m), FL0910 (10 m), FL0915 (15 m), FL0920 (20 m).

The Helios 200 COB Q4 can be operated with a DMX controller in **control mode** or without the DMX controller in **stand-alone mode**.

## Control Panel



- A) LCD display
- B) MODE 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, next time.)

## DMX Addressing

The control panel on the front side of the base allows you to assign DMX fixture addresses, which is the first channel with which the Helios will respond to the controller.

Please note, when you use the controller, the unit has **11** channels.

When using multiple Helioses, make sure you set the DMX addresses right.

Therefore, the DMX address of the first Helios should be **1(001)**; the DMX address of the second Helios should be **1+11=12 (012)**; the DMX address of the third Helios should be **12+11=23 (023)**, etc. Please, be sure that you do not have any overlapping channels in order to control each Helios correctly. If two or more Helioses are addressed similarly, they will work similarly.

## Controlling:

After having addressed all Helios fixtures, you may now start operating these via your lighting controller.

**Note:** After switching on, the Helios 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.

If not, the problem may be:

- The XLR cable from the controller is not connected with the input of the Helios 200 COB Q4.
- The controller is switched off or defective, the cable or connector is defective, 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.

## Display Off after 60 seconds

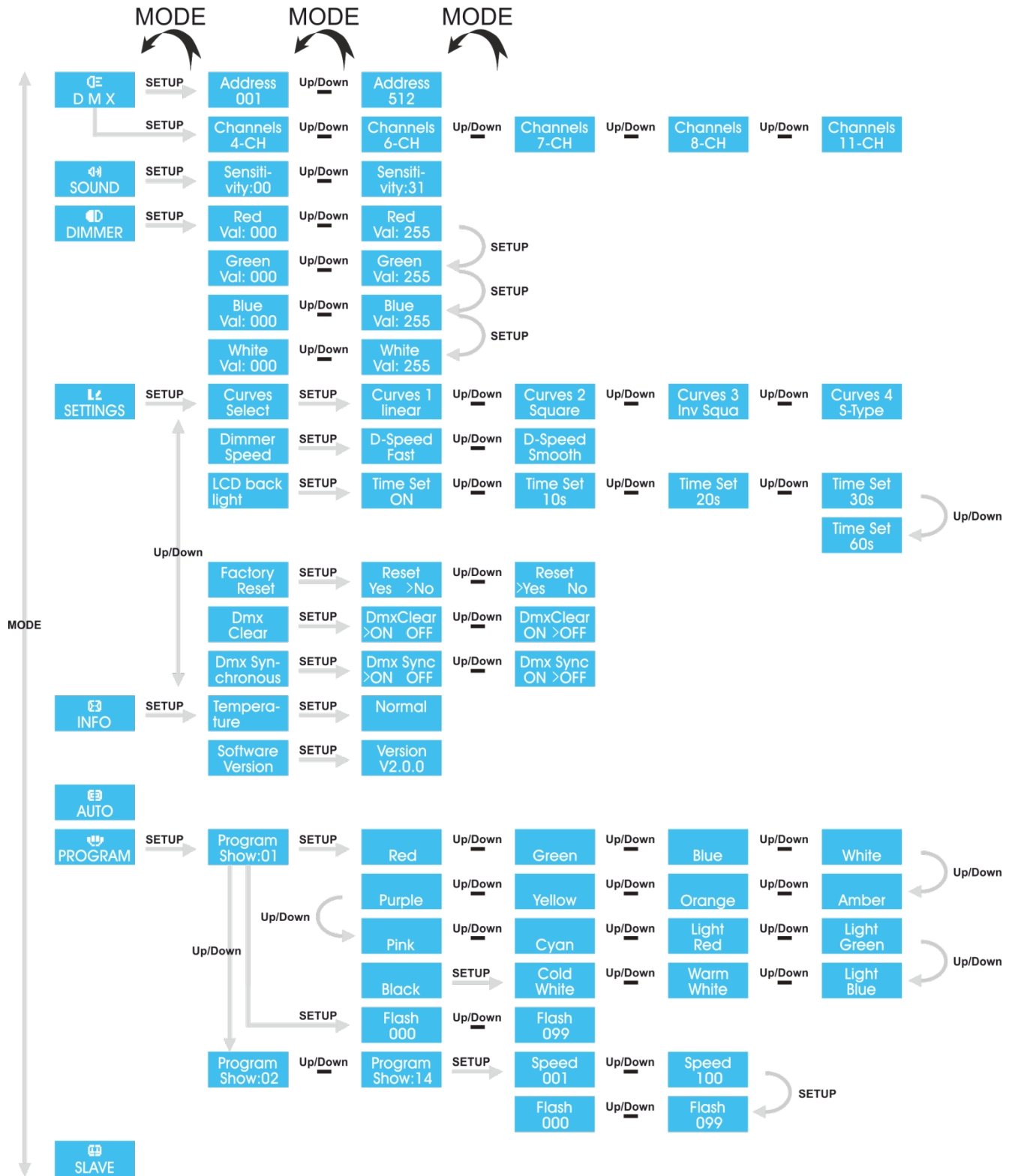
When no button is pressed for 60 seconds, the display will turn off.

To light up the display, you have to press the MODE, SETUP, UP or DOWN button.

Once you have pressed the button, the display will light up.











Menu Overview





## Main Menu Options


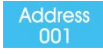

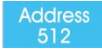
- |   |                                    |
|---|------------------------------------|
|  | 1. DMX-512 mode                    |
|  | 2. Sound-controlled mode           |
|  | 3. Manual mode (Static Color mode) |
|  | 4. Settings                        |
|  | 5. Info                            |
|  | 6. Auto Mode                       |
|  | 7. Built-in programs               |
|  | 8. Master/Slave mode               |



The Helios 200 COB Q4 will show its version number at start-up!

Version  
V1.0.1

### 1. DMX-512 Mode





With this menu you can set the DMX address.

- 01) Press the **MODE** button until the display shows .
- 02) Press the **SETUP** button to open the menu. You can choose 512 different DMX addresses.
- 03) Press the **UP/DOWN** buttons to select the required address from   .
- 04) Once you have set the desired DMX address, you can also choose one of the 3 DMX channel modes.
- 05) Press the **SETUP** button to proceed to channel mode selection.
- 06) Press the **UP/DOWN** buttons to choose between 4, 6, 7, 8 or 11 channel modes:


### 2. Sound-controlled

With this menu you can you can set the sound sensitivity.

- 01) Press the **MODE** button until the display shows .
- 02) Press the **SETUP** button to open the menu.
- 03) Press the **UP/DOWN** buttons to select the required sensitivity from   , from OFF to high sound sensitivity.
- 04) Turn on the music and the Helios will react to the beat of the music.


### 3. Manual Mode (Static Color Mode)

With this menu you can manually set the desired color.

- 01) Press the **MODE** button until the display shows .
- 02) Press the **SETUP** button to open the menu.
- 03) Repeatedly press the **SETUP** button to toggle between the following color settings: RED, GREEN, BLUE and WHITE.
- 04) Press the **UP/DOWN** buttons to adjust the intensity of each of the color LEDs. The adjustment range is between 0-255, from low to high intensity. You can combine RED, GREEN, BLUE and WHITE to create an infinite range of colors.


## 4. Settings

With this menu you can manually adjust the device's settings.


- 01) Press the **MODE** button until the display shows .
- 02) Press the **SETUP** button to open the menu.
- 03) Press the **UP/DOWN** buttons to toggle through the following menus:

	Dimming curves
	Dimmer speed
	LCD Backlight
	Factory Reset
	DMX Clear
	Synchronous DMX


### 4.1. Dimming curves

- 01) Press the **UP/DOWN** buttons until the display shows .
- 02) Press the **SETUP** button to open the menu.
- 03) Press the **UP/DOWN** buttons to choose one of the 4 dimming curves: linear, square, inverted square and S-type.


### 4.2. Dimmer speed

- 01) Press the **UP/DOWN** buttons until the display shows .
- 02) Press the **SETUP** button to open the menu.
- 03) Press the **UP/DOWN** buttons to choose between Fast or Smooth.


### 4.3. LCD Backlight

- 01) Press the **UP/DOWN** buttons until the display shows .
- 02) Press the **SETUP** button to open the menu.
- 03) Press the **UP/DOWN** buttons to select the desired LCD backlight time. The adjustment range is from ON (display remains continuously ON) and 10/20/30/60s (the amount of time after which the display will turn OFF, if no button is pressed).


### 4.4. Factory Reset

- 01) Press the **UP/DOWN** buttons until the display shows .
- 02) Press the **SETUP** button to open the menu.
- 03) Press the **UP/DOWN** buttons to choose between Yes and No.
- 04) Press the **SETUP** button to confirm your choice.
- 05) If you have chosen Yes, the device will restore the factory settings.

### 4.5. DMX Fail


- 01) Press the **UP/DOWN** buttons until the display shows .
- 02) Press the **SETUP** button to open the menu.
- 03) Press the **UP/DOWN** buttons to choose OFF or HOLD.
- 04) If you have chosen OFF, the device perform a blackout (when a DMX signal error occurs).
- 05) If you have chosen HOLD, the device will use the last working DMX signal from before the DMX error, which ensures uninterrupted performance.

4.6. Synchronous DMX

- 01) Press the **UP/DOWN** buttons until the display shows .
- 02) Press the **SETUP** button to open the menu.
- 03) Press the **UP/DOWN** buttons to choose ON or OFF.
- 04) If you have chosen ON and you are operating the device(s) in Master/Slave mode, the devices will keep moving synchronously, even after a certain amount of time.
- 05) **It is highly advisable to keep this option set to ON position, all the time.**


5. Info

With this menu you can view the software version and the device's current temperature.

- 01) Press the **MODE** button until the display shows .
- 02) Press the **SETUP** button to enter the menu.
- 03) Press the **UP/DOWN** buttons to toggle between temperature and software version.
- 04) Once you have chosen one of these options, press the **SETUP** button to view the information.


6. Auto Mode

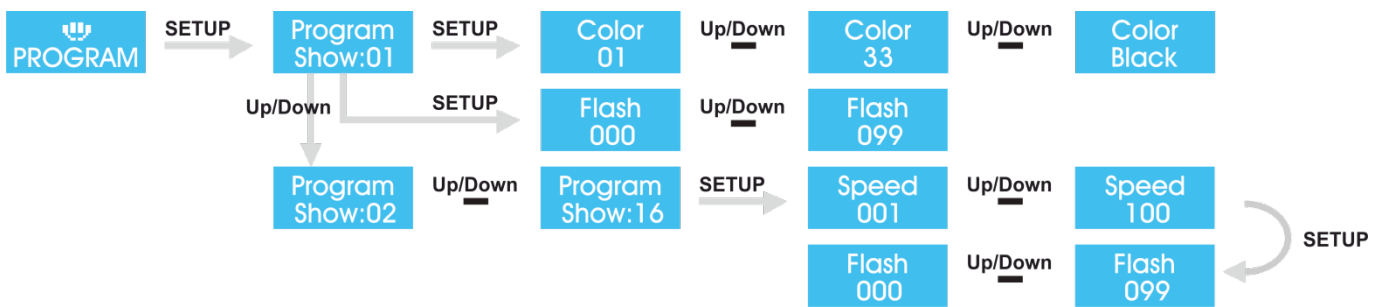
With this menu you can activate Auto mode.




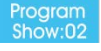
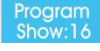




- 01) Press the **MODE** button on the device, until the display shows .
- 02) The device will now run all the available built-in programs in a sequence. It is not possible to adjust any settings in Auto mode.

7. Built-in Programs

With this menu you can you can set the built-in programs.


- 01) Press the **MODE** button until the display shows .
- 02) Press the **SETUP** button to open the menu.



- 03) Press the **UP/DOWN** buttons to toggle through the 16 built-in programs.
- 04) Press the **UP/DOWN** buttons to choose .
- 05) Press the **SETUP** button to open the menu. Press the **UP/DOWN** buttons to choose one of the 33 color macros and black.
- 06) Press the **SETUP** button again to proceed to strobe settings. Press the **UP/DOWN** buttons to increase/decrease the strobe frequency. The adjustment range is between  and .
- 07) Return to step 4 and choose one of the built-in programs:  and .
- 08) Press the **SETUP** button to open the menu.
- 09) Press the **UP/DOWN** buttons to increase/decrease the program speed. The adjustment range is between  and .
- 10) Press the **SETUP** button again to proceed to strobe settings. Press the **UP/DOWN** buttons to increase/decrease the strobe frequency. The adjustment range is between  and .

## 8. Slave Mode

With this menu you can set the slave mode.

01) Press the **MODE** button until the display shows  .

If the device has not been set to slave, it is automatically classified as a master device. All slave devices will follow the movement of the master. If the device has been set to slave, it will react the same as its master device.

## DMX Channels

### 4 channels

#### Channel 1 – Red

0-255 Gradual adjustment Red, from 0-100%

#### Channel 2 – Green

0-255 Gradual adjustment Green, from 0-100%

#### Channel 3 – Blue

0-255 Gradual adjustment Blue, from 0-100%

#### Channel 4 – White

0-255 Gradual adjustment White, from 0-100%

### 6 channels

#### Channel 1 – Dimmer intensity

0-255 Gradual adjustment, from dark to brightest 0-100%

#### Channel 2 – Strobe Dimmer and CH3-6 must be open

0-10 No function

11-255 Strobe flash frequency, from low to high

#### Channel 3 – Red Dimmer must be open

0-255 Gradual adjustment Red, from 0-100%

#### Channel 4 – Green Dimmer must be open

0-255 Gradual adjustment Green, from 0-100%

#### Channel 5 – Blue Dimmer must be open

0-255 Gradual adjustment Blue, from 0-100%

#### Channel 6 – White Dimmer must be open

0-255 Gradual adjustment White, from 0-100%

## 7 channels

### Channel 1 – Dimmer intensity

0-255 Gradual adjustment, from dark to brightest 0-100%

### Channel 2 – Fine Dimmer

0-255 Fine dimmer adjustment, from dark to brightest 0-100%

### Channel 3 – Strobe Dimmer and CH4-7 must be open

0-10 No function

11-255 Strobe flash frequency, from low to high

### Channel 4 – Red Dimmer must be open

0-255 Gradual adjustment Red, from 0-100%

### Channel 5 – Green Dimmer must be open

0-255 Gradual adjustment Green, from 0-100%

### Channel 6 – Blue Dimmer must be open

0-255 Gradual adjustment Blue, from 0-100%

### Channel 7 – White Dimmer must be open

0-255 Gradual adjustment White, from 0-100%

## 8 channels

### Channel 1 – Red

0-255 Gradual adjustment Red, from 0-100%

### Channel 2 – Fine Red CH1 must be open

0-255 Fine adjustment Red, from 0-100%

### Channel 3 – Green

0-255 Gradual adjustment Green, from 0-100%

### Channel 4 – Fine Green CH3 must be open

0-255 Fine adjustment Green, from 0-100%

### Channel 5 – Blue

0-255 Gradual adjustment Blue, from 0-100%

### Channel 6 – Fine Blue CH5 must be open

0-255 Fine adjustment Blue, from 0-100%

### Channel 7 – White

0-255 Gradual adjustment White, from 0-100%

### Channel 8 – Fine White CH7 must be open

0-255 Fine adjustment White, from 0-100%

## 11 channels

### Channel 1 – Dimmer intensity

0-255	Gradual adjustment, from dark to brightest 0-100%
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### Channel 2 – Strobe Dimmer must be open

0-10	No function
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11-255	Strobe flash frequency, from low to high frequency
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### Channel 3 – Pulse Strobe Dimmer must be open

0-10	No function
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11-255	Strobe flash frequency, from low to high frequency
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### Channel 4 – Static Colors CH5 must be set between 0-15

0-7	OFF
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8-13	Color 01
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14-20	Color 02
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21-27	Color 03
-------	----------

28-34	Color 04
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35-41	Color 05
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42-48	Color 06
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49-55	Color 07
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56-62	Color 08
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63-69	Color 09
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70-76	Color 10
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77-83	Color 11
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84-90	Color 12
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91-97	Color 13
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98-104	Color 14
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105-111	Color 15
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112-118	Color 16
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119-125	Color 17
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126-132	Color 18
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133-139	Color 19
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140-146	Color 20
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147-153	Color 21
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154-160	Color 22
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161-167	Color 23
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168-174	Color 24
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175-181	Color 25
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182-188	Color 26
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189-195	Color 27
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196-202	Color 28
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203-209	Color 29
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210-216	Color 30
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217-223	Color 31
---------	----------

224-230	Color 32
---------	----------

231-255	Color 33
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## Channel 5 -Static Color Mode / Program Mode

0-15	Static color mode / Program 1
16-31	Program 2
32-47	Program 3
48-63	Program 4
64-79	Program 5
80-95	Program 6
96-111	Program 7
112-127	Program 8
128-143	Program 9
144-159	Program 10
160-175	Program 11
176-191	Program 12
192-207	Program 13
208-223	Program 14
224-239	Program 15
238-255	Program 16

## Channel 6 - Program Speed CH5 must be set between 16-255

0-255	Program speed, from slow to fast
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## Channel 7 - Sound sensitivity

0-50	No function
51-255	Audio sensitivity, from low to high sensitivity

## Channel 8 - Red Dimmer must be open and CH5 must be set between 0-15

0-255	Gradual adjustment Red, from 0-100%
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## Channel 9 - Green Dimmer must be open and CH5 must be set between 0-15

0-255	Gradual adjustment Green, from 0-100%
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## Channel 10 - Blue Dimmer must be open and CH5 must be set between 0-15

0-255	Gradual adjustment Blue, from 0-100%
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## Channel 11 - White Dimmer must be open and CH5 must be set between 0-15

0-255	Gradual adjustment White, from 0-100%
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## Maintenance

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The operator has to make sure that safety-related 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-related 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.

The Helios 200 COB Q4 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. Do not immerse in liquid. Wipe lens clean with glass cleaner and a soft cloth. Do not use alcohol or solvents.

The front lens will require weekly cleaning, as smoke-fluid tends to build up residues, reducing the light-output very quickly.

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.

## Troubleshooting

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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.

Suspect three potential problem areas as: the power supply, the LEDs, the internal fuse.

- 01) Power supply. Check that the unit is plugged into an appropriate power supply.
- 02) The LEDs. Return the Helios to your Showtec dealer.
- 03) The fuse. Return the Helios to your Showtec dealer.
- 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 Helios, as this may damage the unit and the warranty will become void.
- 06) Return the device to your Showtec dealer.



**No Response to DMX**

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	<ul style="list-style-type: none"> <li>• Check if power is switched on and cables are plugged in</li> </ul>
	Internal fuse blown	<ul style="list-style-type: none"> <li>• Return the Helios to your Showtec dealer.</li> </ul>
Fixtures reset correctly, but all respond erratically or not at all to the controller	The controller is not connected.	<ul style="list-style-type: none"> <li>• Connect controller.</li> </ul>
	3-pin/5-pin XLR Out of the controller does not match XLR Out of the first fixture on the link (i.e. signal is reversed)	<ul style="list-style-type: none"> <li>• Install a phase reversing cable between the controller and the first fixture on the link</li> </ul>
Fixtures reset correctly, but some respond erratically or not at all to the controller	Poor data quality	<ul style="list-style-type: none"> <li>• 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</li> </ul>
	Bad data link connection	<ul style="list-style-type: none"> <li>• Inspect connections and cables. Correct poor connections. Repair or replace damaged cables</li> </ul>
	Data link not terminated with 120 Ohm termination plug	<ul style="list-style-type: none"> <li>• Insert termination plug in output jack of the last fixture on the link</li> </ul>
	Incorrect addressing of the fixtures	<ul style="list-style-type: none"> <li>• Check address setting</li> </ul>
	One of the fixtures is defective and disturbs data transmission on the link	<ul style="list-style-type: none"> <li>• Bypass one fixture at a time until normal operation is restored: unplug both connectors and connect them directly together.</li> <li>• Have the defective fixture serviced by a qualified technician</li> </ul>
	3-pin/5-pin XLR Out on the fixtures does not match (pins 2 and 3 reversed)	<ul style="list-style-type: none"> <li>• Install a phase-reversing cable between the fixtures or swap pin 2 and 3 in the fixture that behaves erratically</li> </ul>
No light or LEDs cut out intermittently	Fixture is too hot	<ul style="list-style-type: none"> <li>• Allow the fixture to cool down</li> <li>• Clean the fan</li> <li>• Turn up the air conditioning</li> </ul>
	LEDs damaged	<ul style="list-style-type: none"> <li>• Disconnect the fixture and return it to your dealer</li> </ul>
	The power supply settings do not match local AC voltage and frequency	<ul style="list-style-type: none"> <li>• Disconnect fixture. Check settings and correct if necessary</li> </ul>

## Product Specifications

Model:	Showtec Helios 200 COB Q4
Input voltage:	100-240V, 60/50Hz
Power consumption:	210W
DMX linking:	30pcs
Dimensions:	400 x 270 x 370 mm (LxWxH)
Weight:	4,54 kg
<b>Operating and Programming:</b>	
Signal pin OUT:	Pin 1 (earth), pin 2 (-), pin 3 (+)
DMX Mode:	4, 6, 7, 8, 11 channels
Signal input:	3-pin/5-pin XLR IN
Signal output:	3-pin/5-pin XLR OUT
<b>Electro-mechanical effects:</b>	
Light source:	1 x 200W COB RGBW
Lux @2m:	2036
Refresh rate:	12kHz
Color mixing:	RGBW
Beam angle:	15°-60°
Dimmer:	0-100%
Strobe:	0-20Hz
Housing:	Die-cast aluminum
DMX-control:	via standard DMX-controller
Onboard:	LCD display for easy setup
Control:	Built-in programs, Auto, DMX, Master/Slave, Sound-controlled, Manual
Connections:	Pro power connector IN/OUT
Cooling:	Cooling fan
Color:	Black
Max. ambient temperature $t_a$ :	40°C
Max. housing temperature $t_B$ :	80°C
<b>Minimum distance:</b>	
Minimum distance from flammable surfaces:	0,5 m
Minimum distance to lighted object:	1 m

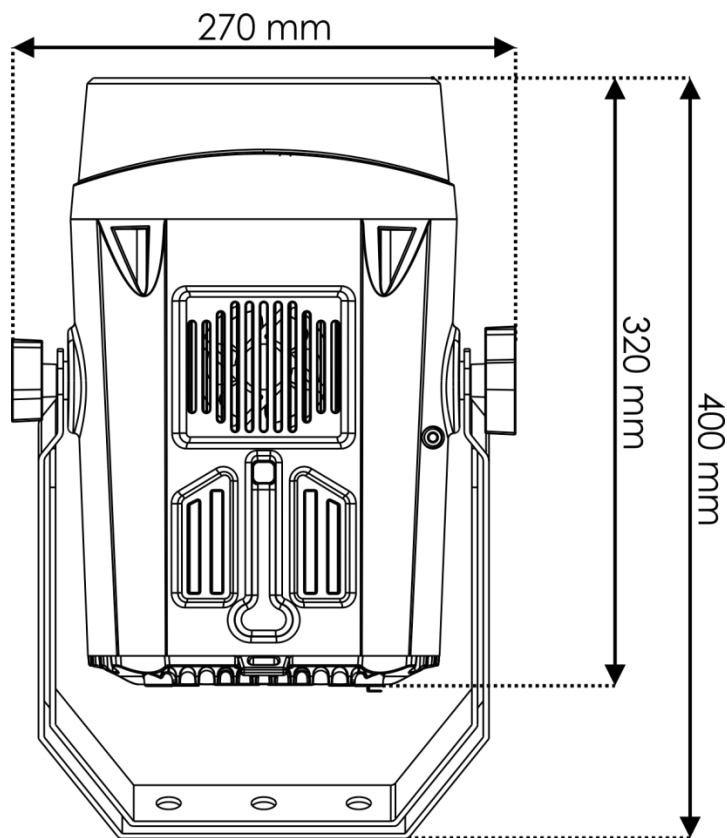
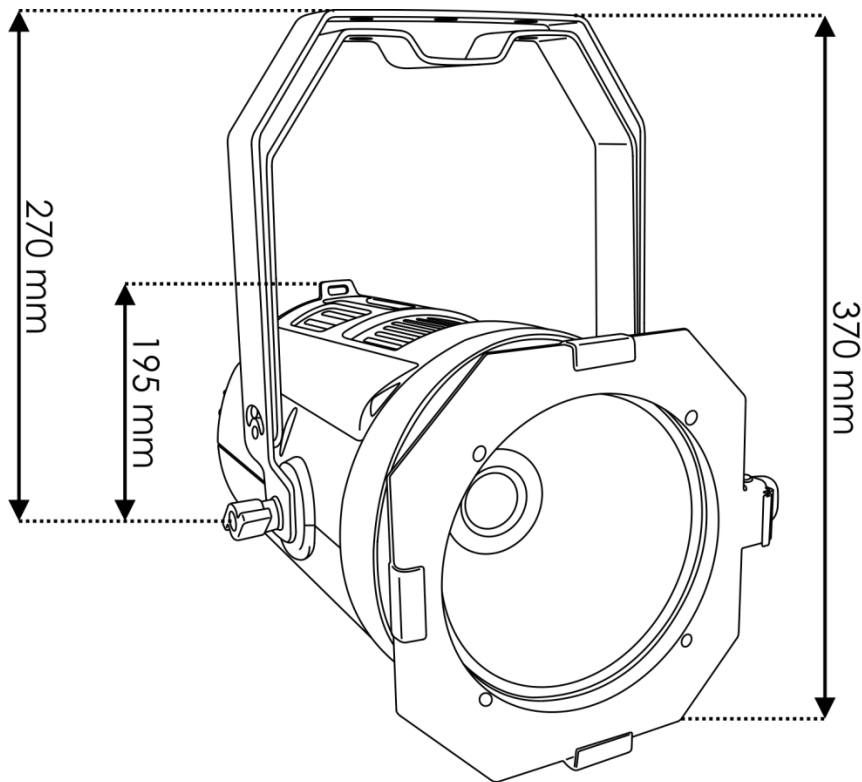
Design and product specifications are subject to change without prior notice.



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## Dimensions





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