

ENGLISH

Spectral M800 Q4 IP65 V1

Ordercode: 43571

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Warning



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

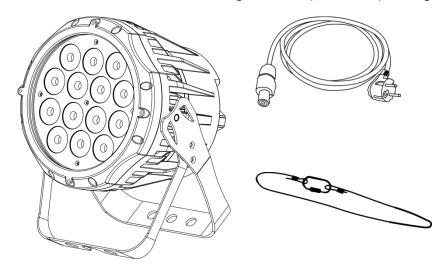


Unpacking Instructions

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 Spectral M800 Q4 IP65
- Powercon power cable (1,5 m)
- Safety cable
- 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 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.
- The user is responsible for correct positioning and operating of the Spectral. 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.

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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 $t_a = 40$ °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!

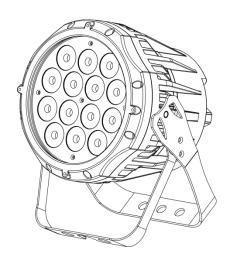
Rigging

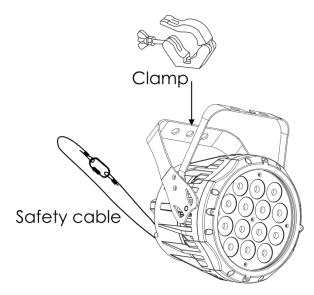
Please follow the European and national guidelines concerning rigging, trussing and all other safety issues.

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

Procedure:

- If the Spectral is lowered from the ceiling or high joists, professional trussing systems have to be used.
- Use a clamp to mount the Spectral, with the mounting bracket, to the trussing system.
- The Spectral 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 Spectral, always make sure, that the area below the installation site is secured and that there are not any unauthorized people around.





The Spectral 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
3				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 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 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 Spectral M800 Q4 IP65 is a LED fixture with high output and great effects.

- Input voltage: 100-240V AC, 50/60Hz
- Power consumption: 65W
- Light source: 14 x 3W RGBW LED
- Light output: 1452lm
- Color range: 16,7 million additive colors
- Control protocol: DMX-512
- DMX personalities: 4, 4, 5, 6, 7, 9, 10, 13, 15 channels
- 4-digit LED display
- Peak intensity: 15294 cd
- Dimmer: 0-100%Strobe: 0-20Hz
- Beam Angle: 16°

 Control Statio Colors
- Control: Static Colors, Auto, Master/Slave, DMX-512
- Housing: Die-cast black aluminum
- Connections: Special IP Neutrik PowerCON connectors IN/OUT, special IP 3-pin XLR IN/OUT
- Cooling: Convection
- IP Rating: IP-65
- Dimensions: 180 x 235 x 320 mm (LxWxH)
- Weight: 5,2 kg

Frontside

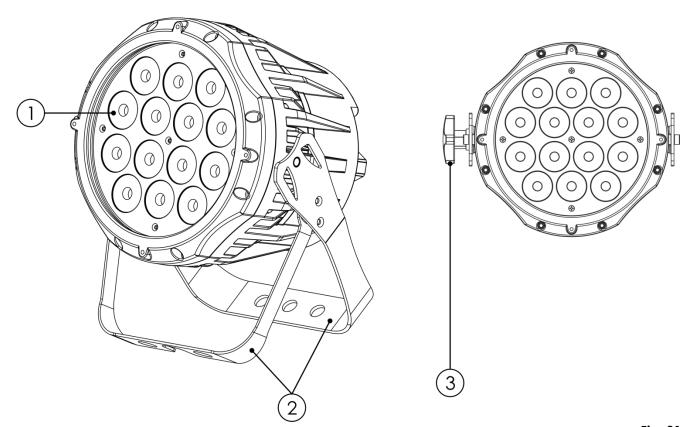


Fig. 01

- 01) 14 x 3W RGBW LED
- 02) Mounting brackets with inclination screw
- 03) Adjustment screw



Backside

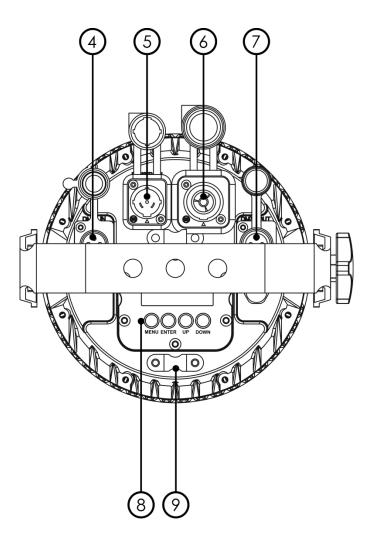


Fig. 02

- 04) Special IP 3-pin DMX signal connector IN
- 05) Special IP powerCON connector 100-240V IN (Blue)
- 06) Special IP powerCON connector 100-240V OUT (Grey)
- 07) Special IP 3-pin DMX signal connector OUT
- 08) 4-digit LED display + menu buttons
- 09) Safety eye

Installation

Remove all packing materials from the Spectral M800 Q4 IP65. 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 4 modes:

• Static Colors (Manual)

- Built-in programs (Auto)
- Master/Slave
- DMX-512 (4CH, 4CH, 5CH, 6CH, 7CH, 9CH,10CH, 13CH, 15CH)

One Spectral (Static Colors)

- 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) Plug the end of the electric mains power cord into a proper electric power supply socket.
- 04) When the Spectral is not connected with a DMX cable, it functions as a stand-alone device. Please see page 14 for more information about the static colors.

One Spectral (Built-in programs)

- 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) Plug the end of the electric mains power cord into a proper electric power supply socket.
- 04) When the Spectral is not connected with a DMX cable, it functions as a stand-alone device. Please see page 15 for more information about the built-in programs.

Multiple Spectrals (Master/Slave control)

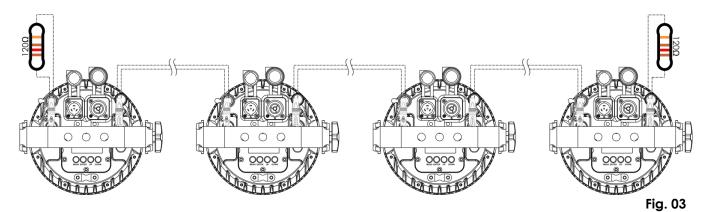
- 01) Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
- 02) Always use a safety cable (ordercode 70140 / 70141).
- 03) Use a 3-pin/5-pin XLR cable to connect the Spectral.

The pins:



- 01) Earth
- 02) Signal -
- 03) Signal +
- 04) 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 14-15 (Static colors or Built-in programs). 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.

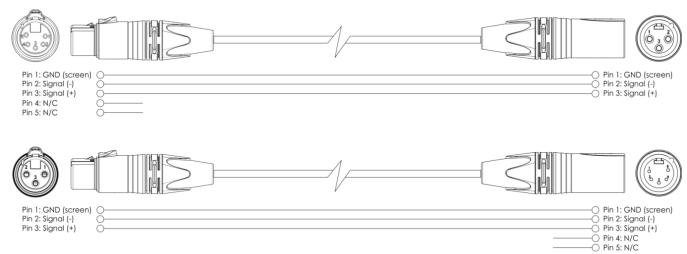
Multiple Spectrals (Master/Slave control)





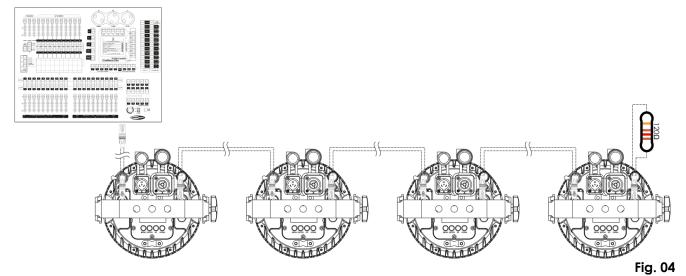
Multiple Spectrals (DMX Control)

- 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 Spectrals 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 PowerCON 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 Spectrals DMX Set Up



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 Maximum recommended number of fixtures on a power link: @110V: 12 fixtures Maximum recommended number of fixtures on a power link: @240V: 24 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).

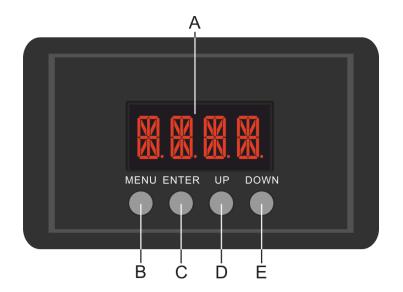
Note: connect the Spectrals with the dedicated special XLR cables for outdoor use.

FL73150 1,5 m IP65 XLR/M 3p. > XLR/F 3p. Neutrik FL733 3,0 m IP65 XLR/M 3p. > XLR/F 3p. Neutrik FL736 6,0 m IP65 XLR/M 3p. > XLR/F 3p. Neutrik FL7310 10 m IP65 XLR/M 3p. > XLR/F 3p. Neutrik

The Spectral M800 Q4 IP65 can be operated with a controller in **control mode** or without the controller in **stand-alone mode**.



Control Panel



- A) LED display
- B) MENU button
- C) ENTER 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 Spectral will respond to the controller.

Please note, when you use the controller, the unit has 15 channels.

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

Therefore, the DMX address of the first Spectral should be 1(d001); the DMX address of the second Spectral should be 1+15=16 (d016); the DMX address of the third Spectral should be 16+15=31 (d031), etc. Please, be sure that you do not have any overlapping channels in order to control each Spectral correctly. If two or more Spectrals are addressed similarly, they will work similarly.

Controlling:

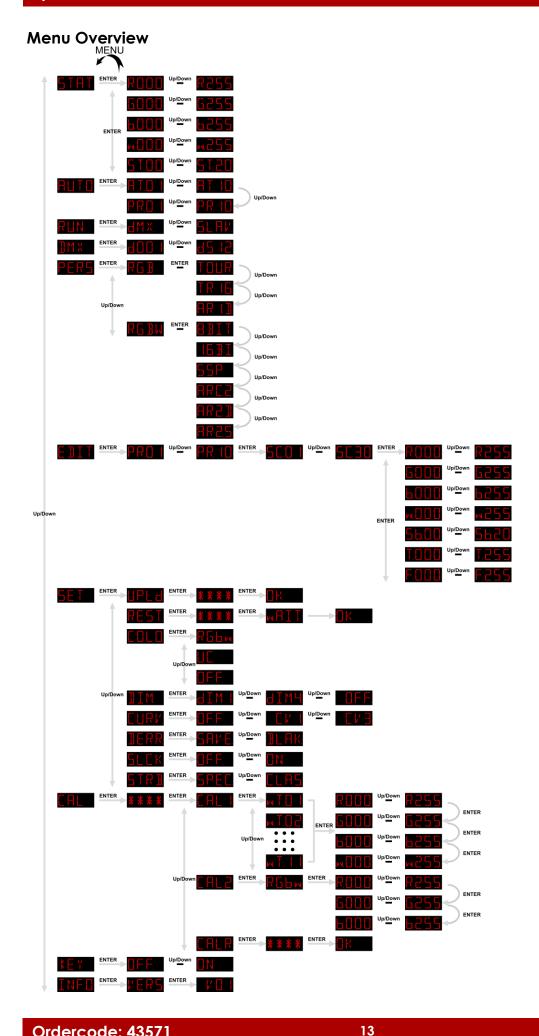
After having addressed all Spectral fixtures, you may now start operating these via your lighting controller.

Note: After switching on, the Spectral 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 Spectral M800 Q4 IP65.
- 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.







Main Menu Options

Static Colors

Built-in and custom programs

Master/Slave Mode

DMX address

DMX configuration

Edit Mode

Settings

Calibration

Safety lock

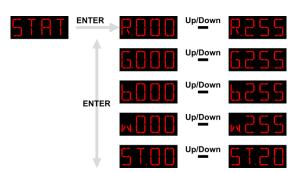
Info

The Spectral will only show its entire version number at start-up!



1. Static Colors

With this menu you can set the static colors.



- 01) Press the **UP/DOWN** buttons until the display shows **5 1 1 1**.
- 02) Press the **ENTER** button to open the menu.

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- 03) Press the ENTER button to toggle between the static colors (Red, Green, Blue and White) and Strobe.
- 04) Once you have chosen the desired color, press the **UP/DOWN** buttons to adjust the color intensity. The adjustment range is <u>between 0-255</u>, from dark to brightest.
- 05) When the display shows the strobe frequency. The adjustment range is between 0-20Hz, from OFF to high strobe frequency.
- 06) You can combine RED, GREEN, BLUE and WHITE to create an infinite range of colors (0-255).



2. Built-in and custom programs

With this menu you can set the built-in programs or choose your edited custom programs.



- 01) Press the **UP/DOWN** buttons until the display shows and press the **ENTER** button to open the menu.
- 02) Press the **UP/DOWN** buttons to choose one of the 10 uneditable built-in programs (AT.01-AT.10) and 10 editable presets (PR.01-PR.10) which can be edited in Edit mode (see page 16).
- 03) Press the **ENTER** button to activate.
- 04) The device will now run the desired built-in program or edited custom program.

3. Master/Slave Mode

With this menu you can set the device as a slave.

- 01) Press the **UP/DOWN** buttons until the display shows
- 02) Press the **ENTER** button to open the menu.
- 03) Press the **UP/DOWN** buttons to toggle between the 2 following options:



- 04) When the display shows MX, the device is operating in DMX/Master Mode.
- 05) When the display shows (5), the device is operating in Slave Mode. It means that it will react the same as the master device.

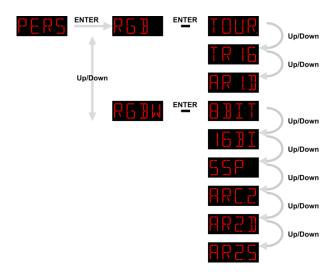
4. DMX address

With this menu you can set the DMX address.

- 01) Press the **UP/DOWN** buttons until the display shows
- 02) Press the **ENTER** button to open the menu.
- 03) Press the **UP/DOWN** buttons to choose the desired DMX address. There are 512 available DMX addresses to choose from desired DMX address.

5. DMX configuration

With this menu you can set the desired DMX channel mode (personality).



- 01) Press the **UP/DOWN** buttons until the display shows
- 02) Press the **ENTER** button to open the menu.



- 03) You can choose between RGB mode or RGBW mode.
- 04) Once you have the desired mode press the **ENTER** button to open the submenu.
- 05) Press the **UP/DOWN** buttons to toggle between the following DMX channel modes:

RGB Mode: TOUR: 9 channels

TR16: 13 channels 4 channels

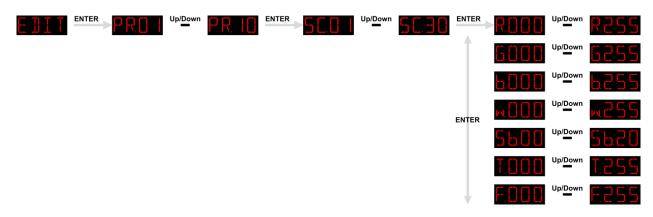
RGBW Mode: 8BIT 10 channels

16BI 15 channels
SSP 7 channels
ARC.2 4 channels
AR2.D 5 channels

AR2.S 6 channels

6. Edit Mode

With this menu you can create your own custom shows.



- 01) Press the **UP/DOWN** buttons until the display shows
- 02) Press the **ENTER** button to open the menu.
- 03) Press the **UP/DOWN** buttons to choose the desired custom program: PR.01 PR.10.
- 04) Each custom program has 30 scenes, which can be edited.
- 05) Once you have chosen the desired scene, press the **ENTER** button to enter the settings.
- 06) Press the **ENTER** button to toggle between RED, GREEN, BLUE, WHITE, STROBE, STEP TIME and FADE options.
- 07) When the display shows RED, GREEN, BLUE and WHITE, press the **UP/DOWN** buttons to increase/decrease the LED intensity. The adjustment range is between 0-255, from OFF to FULL ON.
- 08) When the display shows STROBE, press the **UP/DOWN** buttons to set the strobe frequency. The adjustment range is between 0-20Hz, from OFF to high frequency.
- 09) When the display shows TIME, press the **UP/DOWN** buttons to set the duration of a scene. The adjustment range is between 0-255, from 0 to 255 seconds.
- 10) When the display shows FADE, press the **UP/DOWN** buttons to set the fade time between particular scenes. The adjustment range is between 0-255, from 0 to 255 seconds.

6.1. How to make your own custom program

- 01) First, start with PR.01 and add the desired settings in scene 1 (SC.01), then scene 2 (SC.02), etc.
- 02) In this way you can add a maximum of 30 scenes.
- 03) After that, you can start with PR.02 and create a maximum of 30 scenes again.
- 04) You can repeat these steps, until you've reached PR.10, step 30.
- 05) It is possible to create 300 separate scenes.

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7. Settings

With this menu you can set the device's settings.

- 01) Press the **UP/DOWN** buttons until the display shows
- 02) Press the ENTER button to open the menu.
- 03) Press the **UP/DOWN** buttons to toggle between the following menus: Upload, Reset, Color, Dimmer, Dimming curve, DMX Error, Settings Lock and Strobe Settings.

7.1. Upload

With this menu you can export current programs from the master device to the connected slave devices.

- 01) Press the **UP/DOWN** buttons until the display shows
- 02) Press the **ENTER** button to open the menu.
- 03) Insert the password: UP>DOWN>UP>DOWN and press the ENTER button to confirm.
- 04) The display will show
- 05) Press the **ENTER** button again, to confirm.
- 06) While **exporting**, the slave devices will light up **yellow**.
- 07) If there are any problems with exporting, the master and the slave devices will light up red.
- 08) If the operation was **completed successfully**, the master and the slave devices will light up **green**.

7.2. Reset

With this menu you can reset the custom programs.

- 01) Press the **UP/DOWN** buttons until the display shows
- 02) Press the **ENTER** button to open the menu.
- 03) Insert the password: UP>DOWN>UP>DOWN and press the ENTER button to confirm.
- 04) The display will show the custom programs will have been reset.

7.3. Color

With this menu you can adjust the color calibration functions.

- 01) Press the **UP/DOWN** buttons until the display shows **LULU**.
- 02) Press the **ENTER** button to open the menu.
- 03) Press the **UP/DOWN** buttons to toggle between the following 3 options:

RGB to White

Adjusted output

Off Off

- 04) When the display shows RGB to White is active. This means RGB = 255, 255, 255. The color displayed is the specific color which you have calibrated in CAL2 → RGBw menu.
- 05) When the display shows , the RGB output is adjusted to a standard preset universal color. In this way, different Spectral versions are color-balanced in order to match each other.
- 06) When the display shows the RGB settings are: 255, 255, 255. The RGB values are not adjusted and the output is the most powerful.

7.4. Dimmer

Ordercode: 43571

With this menu, you can adjust the dimmer.

- 01) Press the **UP/DOWN** buttons until the display shows **III.**
- 02) Press the **ENTER** button to open the menu.
- 03) Press the **UP/DOWN** buttons to choose one of the 4 dimmer speed options (DIM1-DIM4, from fast to slow) and OFF.
- 04) If you choose OFF, then RGBW and the master dimmer are linear.
- 05) The dimmer settings do not have any influence on the device's performance in DMX **TOUR** mode. The DMX settings override the dimmer settings.

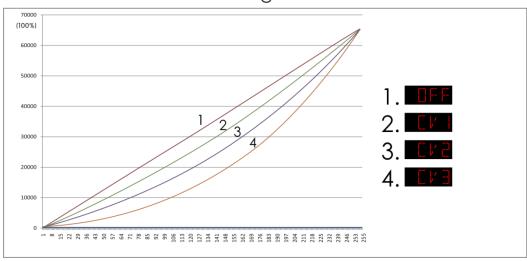


7.5. Dimming curve settings

With this menu you can adjust the dimming of the device by choosing a dimming curve.

- 01) Press the **UP/DOWN** buttons until the display shows **LURY**.
- 02) Press the **ENTER** button to open the menu.
- 03) Press the **UP/DOWN** buttons to choose the desired dimming curve out of the 4 available options:

Dimming curves



7.6. DMX Error

With this menu you can determine the device's behaviour in case of a DMX signal error.

- 01) Press the **UP/DOWN** buttons until the display shows
- 02) Press the **UP/DOWN** buttons to toggle between the 2 options:

DMX data save

Blackout

- 03) If the display shows 5HVE, the Spectral will fall back on the last working DMX signal, which will ensure undisrupted performance.
- 04) If the display shows **EFF**, the Spectral will black the output out, in case of a DMX signal error.

7.7. Settings Lock

With this menu you can determine whether Settings menu is locked or unlocked.

- 01) Press the **UP/DOWN** buttons until the display shows
- 02) Press the **ENTER** button to open the menu.
- 03) Press the **UP/DOWN** buttons to choose ON or OFF.
- 04) If the display shows ON, you will need to insert the password (press **UP>DOWN>UP>DOWN** and press the **ENTER** button) to enter Settings menu.

7.8. Strobe Settings

With this menu you can choose the desired strobe mode.

- 01) Press the **UP/DOWN** buttons until the display shows
- 02) Press the **ENTER** button to open the menu.
- 03) Press the **UP/DOWN** buttons to toggle between the following 2 options:

Special strobe

Classic strobe

04) If you have chosen by the strobe will be active only if you operate the device in one of the following DMX channel modes/personalities: TOUR, TR16, 8BIT, 16BI and SSP.



8. Calibration

With this menu you can adjust the characteristics of the white color or set the RGB calibration.

- 01) Press the **UP/DOWN** buttons until the display shows
- 02) Press the **ENTER** button to open the menu.
- 03) Insert the password: UP>DOWN>UP>DOWN and press the ENTER button to confirm.
- 04) Press the **UP/DOWN** buttons until the display shows one of the following 3 options:

White color calibration

RGB calibration

Calibration reset

8.1. White color calibration

With this menu you can adjust the temperature of the built-in white color presets.

- 01) When the display shows , press the **ENTER** button to open the menu.
- 02) Press the **UP/DOWN** buttons to choose one of the 11 white color presets: WT.01 WT.11.
- 03) Once you have chosen the desired preset, press the ENTER button to open the submenu.
- 04) Press the **ENTER** button to toggle between RED, GREEN, BLUE and WHITE.
- 05) Press the **UP/DOWN** buttons to increase/decrease the intensity of the chosen color. The adjustment range of each color is between 0-255, from OFF to FULL ON.

8.2. RGB calibration

With this menu you can <u>adjust the</u> temperature of the white color.

01) If the display shows The enter button to open the menu. The display shows



- 02) Press the **ENTER** button to open the submenu.
- 03) Press the **ENTER** button to toggle between RED, GREEN and BLUE.
- 04) Once you have chosen the desired color, press the **UP/DOWN** buttons to set the color intensity. The adjustment range is between 0-255, OFF to FULL ON.

8.3. Calibration reset

With this menu you can reset the calibration settings.

01) If the display shows The ENTER button to open the menu. The display shows



- 02) Press the **ENTER** button to open the menu.
- 03) Insert the password: UP>DOWN>UP>DOWN and press the ENTER button to confirm.
- 04) The display will show the calibration settings will have been reset.

9. Safety Lock

With this menu you can set whether the display becomes locked after remaining idle for 25 seconds.

01) Press the **UP/DOWN** buttons until the display shows



- 02) Press the **ENTER** button to open the menu.
- 03) Press the **UP/DOWN** buttons to choose between ON and OFF.
- 04) If you have selected ON, press the **ENTER** button to confirm.
- 05) It will now take 25 seconds for the device to become locked.
- 06) If this options remains active, the device will always ask for the password upon start-up.
- 07) In order to unlock the device, press the following buttons in the following order: **UP>DOWN>UP>DOWN** and confirm by pressing the **ENTER** button.

10. Information

Ordercode: 43571

With this menu you can view the currently installed software version.

01) Press the **UP/DOWN** buttons until the display shows **INFO**.



- 02) Press the **ENTER** button to open the menu.
- 03) You can now view the currently installed software version.



DMX Channels

9 channels (TOUR)

Channel 1 – Dimmer intensity

Gradual adjustment, from dark to brightest 0-100%

Channel 2 – Red (CH1 must be set between 1-255 🔼)

Gradual adjustment Red from 0–100%

Channel 2 – Time (CH7 must be set between 121-220 🔼)

Gradual adjustment time from 0 to 255 sec.

Channel 3 – Green (CH1 must be set between 1-255 🔼)

Gradual adjustment Green from 0-100%

Channel 3 – Fade time (CH7 must be set between 121-220 🔼)

Gradual adjustment fade time from 0 to 255 sec.

Channel 4 – Blue (CH1 must be set between 1-255 🔼)

Gradual adjustment Blue from 0-100%

Channel 5 – Macros (CH1 must be set between 1-255 🔼)

Cildinicio	Macros (em mosi de sei dei meem 1 200 —)
0-10	No function
11-30	Red 100% / Green Up / Blue 0%
31-50	Red Down / Green 100% / Blue 0%
51-70	Red 0% / Green 100% / Blue Up
71-90	Red 0% / Green Down / Blue 100%
91-110	Red Up / Green 0% / Blue 100%
111-130	Red 100% / Green 0% / Blue Down
131-150	Red 100% / Green Up / Blue Up
151-170	Red Down / Green Down / Blue 100%
171-200	Red 100% / Green 100% / Blue 100% / White 100%
201-205	White 1: 3200K
206-210	White 2: 3400K
211-215	White 3: 4200K
216-220	White 4: 4900K
221-225	White 5: 5600K
226-230	White 6: 5900K
231-235	White 7: 6500K
236-240	White 8: 7200K
241-245	White 9: 8000K
246-250	White 10: 8500K
251-255	White 11: 10000K

Channel 6 – Classic Strobe (mode is in settings menu 577)

(CH1 and CH2, CH3 or CH4 must be set between 1-255 and CH5 between 11-255 🗘)

0 - 10No function

0 10	140 1011011
11-255	Strobe flash frequency from slow to fast (0-20Hz)
11-200	Shope hash hequericy, horn slow to last (0-20112)





(CH1 and CH2, CH3 or CH4 must be set between 1-255 and CH5 between 11-2.

255	\triangle)

(on the one, one of one most be set between 1 200 and one between 11 200 —)	
0-9	No function
10-99	Strobe flash frequency, from slow to fast (0-20Hz)
100-109	No function
110-179	Pulse strobe, from slow to fast
180-189	No function
190-255	Random strobe, from slow to fast

Channel 7 –	· Built-in programs/Cu	tom programs (CH1 must be set between 1-255 🛕)
0-20	No function	
21-30	AUTO01	
31-40	AUTO02	
41-50	AUTO03	
51-60	AUTO04	
61-70	AUTO05	
71-80	AUTO06	
81-90	AUTO07	
91-100	AUTO08	
101-110	AUTO09	
111-120	AUTO10	
121-130	PR.01	
131-140	PR.02	
141-150	PR.03	
151-160	PR.04	
161-170	PR.05	
171-180	PR.06	
181-190	PR.07	
191-200	PR.08	
201-210	PR.09	
211-220	PR.10	

Channel 8 – Program speed (CH7 must be set between 21-120 🔼)

0-255 Gradual speed adjustment, from slow to fast

No function

Channe	l 9 – D	immer	speed

221-255

0-9	Preset dimmer speed from the device's menu
10-29	Linear dimmer
30-69	Non-linear dimmer 1 (fastest)
70-129	Non-linear dimmer 2
130-189	Non-linear dimmer 3
190-255	Non-linear dimmer 4 (slowest)



13 channels (TR16)

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 – Red (CH1 must be set between 1-255 🗘)

0-255 Gradual adjustment Red from 0-100%

Channel 3 – Time (CH11 must be set between 121-220 🗘)

0-255 Gradual adjustment time from 0 to 255 sec.

Channel 4 – Fine Red (CH2 must be set between 1-255

0-255 Fine adjustment Red from 0-100%

Channel 4 – Fade time (CH11 must be set between 121-220

0-255 Gradual adjustment fade time from 0 to 255 sec.

Channel 5 – Green (CH1 must be set between 1-255 🗘)

0-255 Gradual adjustment Green from 0-100%

Channel 6 – Fine Green (CH2 must be set between 1-255 🔼)

0-255 Fine adjustment Green from 0-100%

Channel 7 – Blue (CH1 must be set between 1-255

0-255 Gradual adjustment Blue from 0-100%

Channel 8 – Fine Blue (CH2 must be set between 1-255 🔼)

0-255 Fine adjustment Blue from 0-100%

Channel 9 – Macros (CH1 must be set between 1-255 🗘)

• · · · · · · · · · · · · · · · · · · ·	
0-10	No function
11-30	Red 100% / Green Up / Blue 0%
31-50	Red Down / Green 100% / Blue 0%
51-70	Red 0% / Green 100% / Blue Up
71-90	Red 0% / Green Down / Blue 100%
91-110	Red Up / Green 0% / Blue 100%
111-130	Red 100% / Green 0% / Blue Down
131-150	Red 100% / Green Up / Blue Up
151-170	Red Down / Green Down / Blue 100%
171-200	Red 100% / Green 100% / Blue 100% / White 100%
201-205	White 1: 3200K
206-210	White 2: 3400K
211-215	White 3: 4200K
216-220	White 4: 4900K
221-225	White 5: 5600K
226-230	White 6: 5900K
231-235	White 7: 6500K
236-240	White 8: 7200K



241-245	White 9: 8000K	
246-250	White 10: 8500K	
251-255	White 11: 10000K	

Channel 10 – Classic Strobe (mode is in settings menu (CH1 and CH2, CH3, CH4, CH5, CH6, CH7 or CH8 must be set between 1-255 and

CH9 between 11-255 1

0-10 No function
11-255 Strobe flash frequency, from slow to fast (0-20Hz)

Channel 10 – Special Strobe (mode is in settings menu (CH1 and CH2, CH3, CH4, CH5, CH6, CH7 or CH8 must be set between 1-255 and

CH9 between 11-255 🛕)

	· · · · = · ·
0-9	No function
10-99	Strobe flash frequency, from slow to fast (0-20Hz)
100-109	No function
110-179	Pulse strobe, from slow to fast
180-189	No function
190-255	Random strobe, from slow to fast

Channel 11 – Built-in programs/Custom programs (CH1 must be set between 1-255 🛕)

Cildille	- bolli-ili programs/costoni programs (citi most be set between 1-255 222)
0-20	No function
21-30	AUTO01
31-40	AUTO02
41-50	AUTO03
51-60	AUTO04
61-70	AUTO05
71-80	AUTO06
81-90	AUTO07
91-100	AUTO08
101-110	AUTO09
111-120	AUTO10
121-130	PR.01
131-140	PR.02
141-150	PR.03
151-160	PR.04
161-170	PR.05
171-180	PR.06
181-190	PR.07
191-200	PR.08
201-210	PR.09
211-220	PR.10
221-255	No function

Channel 12 – Program speed (CH11 must be set between 21-120 1)

0-255 Speed adjustment, from slow to fast

Channel 13 – Dimmer speed

0-9	Preset dimmer speed from the device's menu
10-29	Linear dimmer
30-69	Non-linear dimmer 1 (fastest)
70-129	Non-linear dimmer 2
130-189	Non-linear dimmer 3
190-255	Non-linear dimmer 4 (slowest)



4 channels (AR1.D)

Channel 1 – Dimmer intensity

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

Channel 2 – Red (CH1 must be set between 1-255

0-255 Gradual adjustment Red from 0-100%

Channel 3 – Green (CH1 must be set between 1-255

0-255 Gradual adjustment Green from 0-100%

Channel 4 – Blue (CH1 must be set between 1-255 🛕

0-255 Gradual adjustment Blue from 0-100%

10 channels (8BIT)

Channel 1 – Dimmer intensity

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

Channel 2 – Red (CH1 must be set between 1-255 🗘)

0-255 Gradual adjustment Red from 0-100%

Channel 2 – Time (CH8 must be set between 121-220 🗘)

0-255 Gradual adjustment time from 0 to 255 sec.

Channel 3 – Green (CH1 must be set between 1-255

0-255 Gradual adjustment Green from 0-100%

Channel 3 – Fade time (CH8 must be set between 121-220 🚹

0-255 Gradual adjustment fade time from 0 to 255 sec.

Channel 4 – Blue (CH1 must be set between 1-255 🛕

0-255 Gradual adjustment Blue from 0-100%

Channel 5 – White (CH1 must be set between 1-255

0-255 Gradual adjustment White from 0-100%

Channel 6 – Macros (CH1 must be set between 1-255 🛕)

Chamero – I	Mucios (Citi illosi de sei delweeli 1-255 Z
0-10	No function
11-30	Red 100% / Green Up / Blue 0%
31-50	Red Down / Green 100% / Blue 0%
51-70	Red 0% / Green 100% / Blue Up
71-90	Red 0% / Green Down / Blue 100%
91-110	Red Up / Green 0% / Blue 100%
111-130	Red 100% / Green 0% / Blue Down
131-150	Red 100% / Green Up / Blue Up
151-170	Red Down / Green Down / Blue 100%
171-200	Red 100% / Green 100% / Blue 100% / White 100%
201-205	White 1: 3200K
206-210	White 2: 3400K



11-255

211-215	White 3: 4200K	
216-220	White 4: 4900K	
221-225	White 5: 5600K	
226-230	White 6: 5900K	
231-235	White 7: 6500K	
236-240	White 8: 7200K	
241-245	White 9: 8000K	
246-250	White 10: 8500K	
251-255	White 11: 10000K	

Channel 7 – Classic Strobe (mode is in settings menu 577)

(CH1 and CH2, CH3, CH4 or CH5 must be set between 1-255 and CH6 between 11-255 \triangle)

0-10 No function

Channel 7 – Special Strobe (mode is **SPEE** in settings menu **STRI**)

Strobe flash frequency, from slow to fast (0-20Hz)

(CH1 and CH2, CH3, CH4 or CH5 must be set between 1-255 and CH6 between 11-255 🗘)

0-9 No function	
10-99 Strobe flash fred	uency, from slow to fast (0-20Hz)
100-109 No function	
110-179 Pulse strobe, from	m slow to fast
180-189 No function	
190-255 Random strobe,	from slow to fast

Channel 8 – Built-in programs/Custom programs (CH1 must be set between 1-255 🛕)

Channel 8 - Built-in programs/Custom programs (CH1 must be set between 1-255 2-4)		
0-20	No function	
21-30	AUTO01	
31-40	AUTO02	
41-50	AUTO03	
51-60	AUTO04	
61-70	AUTO05	
71-80	AUTO06	
81-90	AUTO07	
91-100	AUTO08	
101-110	AUTO09	
111-120	AUTO10	
121-130	PR.01	
131-140	PR.02	
141-150	PR.03	
151-160	PR.04	
161-170	PR.05	
171-180	PR.06	
181-190	PR.07	
191-200	PR.08	
201-210	PR.09	
211-220	PR.10	
221-255	No function	

Channel 9 – Program speed (CH8 must be set between 21-120 🛕)

0-255 Speed adjustment, from slow to fast



Channel 10) – Dimmer speed
0-9	Preset dimmer speed from the device's menu
10-29	Linear dimmer
30-69	Non-linear dimmer 1 (fastest)
70-129	Non-linear dimmer 2
130-189	Non-linear dimmer 3
190-255	Non-linear dimmer 4 (slowest)
15 channels	
	- Dimmer intensity
0-255	Gradual adjustment, from dark to brightest 0-100%
	- Fine dimmer
0-255	Fine dimmer adjustment, from dark to brightest 0-100%
Channel 3 0-255	– Red (CH1 must be set between 1-255 🛕) Gradual adjustment Red from 0-100%
	∧
	– Time (CH13 must be set between 121-220 🔼)
0-255	Gradual adjustment time from 0 to 255 sec.
Channel 4 0-255	Fine Red (CH2 must be set between 1-255 1) Fine adjustment Red from 0-100%
	A .
Channel 4	– Fade time (CH13 must be set between 121-220 📤)
0-255	Gradual adjustment fade time from 0 to 255 sec.
0 200	Claded adjosition reactific forms to 250 Sec.
Channal F	Green (GUI mount he eat habusen 1 255 🐧)
0-255	- Green (CH1 must be set between 1-255 (1)
0-255	Gradual adjustment Green from 0-100%
	A
Channel 6	– Fine Green (CH2 must be set between 1-255 🔼)
0-255	Fine adjustment Green from 0-100%
Channal 7	– Blue (CH1 must be set between 1-255 🛕)
0-255	Gradual adjustment Blue from 0-100%
0-233	Gradodi adjosimeni bioe irom o-100%
	A
Channel 8	– Fine Blue (CH2 must be set between 1-255 🔼)
0-255	Fine adjustment Blue from 0-100%
	A
Channel 9	– White (CH1 must be set between 1-255 🛕)
0-255	Gradual adjustment White from 0-100%
0 200	Gradua adjustitioni filmo ilottio 100/0



Channel 10 – Fine White (CH2 must be set between 1-255 1)

0-255 Fine adjustment White from 0-100%

Channel 11 – Macros (CH1 must be set betwee

n	1-255	A)

0-10	No function
11-30	Red 100% / Green Up / Blue 0%
31-50	Red Down / Green 100% / Blue 0%
51-70	Red 0% / Green 100% / Blue Up
71-90	Red 0% / Green Down / Blue 100%
91-110	Red Up / Green 0% / Blue 100%
111-130	Red 100% / Green 0% / Blue Down
131-150	Red 100% / Green Up / Blue Up
151-170	Red Down / Green Down / Blue 100%
171-200	Red 100% / Green 100% / Blue 100% / White 100%
201-205	White 1: 3200K
206-210	White 2: 3400K
211-215	White 3: 4200K
216-220	White 4: 4900K
221-225	White 5: 5600K
226-230	White 6: 5900K
231-235	White 7: 6500K
236-240	White 8: 7200K
241-245	White 9: 8000K
246-250	White 10: 8500K
251-255	White 11: 10000K

Channel 12 – Classic Strobe (mode is in settings menu (CH1 and CH2, CH3, CH4, CH5, CH6, CH7, CH8, CH9 or CH10 must be set between 1-255 and

CH11 between 11-255 1

0-10	No function
11-255	Strobe flash frequency, from slow to fast (0-20Hz)

Channel 12 – Special Strobe (mode is 5PEE in settings menu 5TPE) (CH1 and CH2, CH3, CH4, CH5, CH6, CH7, CH8, CH9 or CH10 must be set between 1-255 and

CH11 between 11-255 1

0-9	No function
10-99	Strobe flash frequency, from slow to fast (0-20Hz)
100-109	No function
110-179	Pulse strobe, from slow to fast
180-189	No function
190-255	Random strobe, from slow to fast

Channel 13 – Built-in programs/Custom programs (CH1 must be set between 1-255 🛕)

0-20	No function
21-30	AUTO01
31-40	AUTO02
41-50	AUTO03
51-60	AUTO04
61-70	AUTO05
71-80	AUTO06
81-90	AUTO07
91-100	AUTO08
101-110	AUTO09
111-120	AUTO10
121-130	PR.01
131-140	PR.02
141-150	PR.03



151-160	PR.04	
161-170	PR.05	
171-180	PR.06	
181-190	PR.07	
191-200	PR.08	
201-210	PR.09	
211-220	PR.10	
221-255	No function	

Channel 14 – Program speed (CH13 must be set between 21-120 1)

0-255 Speed adjustment, from slow to fast

Channel 15 – Dimmer speed

	1	
0-9	Preset dimmer speed from the device's menu	
10-29	Linear dimmer	
30-69	Non-linear dimmer 1 (fastest)	
70-129	Non-linear dimmer 2	
130-189	Non-linear dimmer 3	
190-255	Non-linear dimmer 4 (slowest)	

7 channels (SSP)

Channel 1 – Dimmer intensity

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

Channel 2 – Red (CH1 must be set between 1-255 🔼)

0-255 Gradual adjustment Red from 0-100%

Channel 3 – Green (CH1 must be set between 1-255 🔼)

0-255 Gradual adjustment Green from 0-100%

Channel 4 – Blue (CH1 must be set between 1-255 🔼)

0-255 Gradual adjustment Blue from 0-100%

Channel 5 – White (CH1 must be set between 1-255 🗘)

0-255 Gradual adjustment White from 0-100%

Channel 6 – Classic Strobe (mode is _____ in settings menu _____)

(CH1 and CH2, CH3, CH4 or CH5 must be set between 1-255 🔼)

0-10	No function
11-255	Strobe flash frequency, from slow to fast (0-20Hz)

Channel 6 – Special Strobe (mode is in settings menu)

(CH1 and CH2, CH3, CH4 or CH5 must be set between 1-255 🚹)

0-9	No function
10-99	Strobe flash frequency, from slow to fast (0-20Hz)
100-109	No function
110-179	Pulse strobe, from slow to fast
180-189	No function
190-255	Random strobe, from slow to fast



Channel 7 0-9	Preset dimmer speed from the device's menu
10-29	Linear dimmer
30-69	Non-linear dimmer 1 (fastest)
70-129	Non-linear dimmer 2
130-189	Non-linear dimmer 3
190-255	Non-linear dimmer 4 (slowest)
channels (
Channel 1	
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% AR2.D)
channels (Channel 1	
channels (Channel 1 0-255	AR2.D) - Dimmer intensity Gradual adjustment, from dark to brightest 0-100%
channels (Channel 1 0-255 Channel 2	AR2.D) - Dimmer intensity Gradual adjustment, from dark to brightest 0-100% - Red (CH1 must be set between 1-255 1)
channels (Channel 1 0-255 Channel 2	AR2.D) - Dimmer intensity Gradual adjustment, from dark to brightest 0-100%
channels (Channel 1 0-255 Channel 2 0-255	AR2.D) - Dimmer intensity Gradual adjustment, from dark to brightest 0-100% - Red (CH1 must be set between 1-255 1)
channels (Channel 1 0-255 Channel 2 0-255 Channel 3	AR2.D) - Dimmer intensity Gradual adjustment, from dark to brightest 0-100% - Red (CH1 must be set between 1-255 1) Gradual adjustment Red from 0-100%
channels (Channel 1 0-255 Channel 2 0-255 Channel 3 0-255	AR2.D) - Dimmer intensity Gradual adjustment, from dark to brightest 0-100% - Red (CH1 must be set between 1-255) Gradual adjustment Red from 0-100% - Green (CH1 must be set between 1-255) Gradual adjustment Green from 0-100%
Channels (Channel 1 0-255) Channel 2 0-255 Channel 3 0-255 Channel 4	AR2.D) - Dimmer intensity Gradual adjustment, from dark to brightest 0-100% - Red (CH1 must be set between 1-255) Gradual adjustment Red from 0-100% - Green (CH1 must be set between 1-255) Gradual adjustment Green from 0-100% - Blue (CH1 must be set between 1-255)
Channels (Channel 1 0-255 Channel 2 0-255 Channel 3 0-255	AR2.D) - Dimmer intensity Gradual adjustment, from dark to brightest 0-100% - Red (CH1 must be set between 1-255) Gradual adjustment Red from 0-100% - Green (CH1 must be set between 1-255) Gradual adjustment Green from 0-100%
Channels (Channel 1 0-255 Channel 2 0-255 Channel 3 0-255 Channel 4 0-255	AR2.D) - Dimmer intensity Gradual adjustment, from dark to brightest 0-100% - Red (CH1 must be set between 1-255) Gradual adjustment Red from 0-100% - Green (CH1 must be set between 1-255) Gradual adjustment Green from 0-100% - Blue (CH1 must be set between 1-255) Gradual adjustment Blue from 0-100%
Channels (Channel 1 0-255 Channel 2 0-255 Channel 3 0-255 Channel 4 0-255	AR2.D) - Dimmer intensity Gradual adjustment, from dark to brightest 0-100% - Red (CH1 must be set between 1-255) Gradual adjustment Red from 0-100% - Green (CH1 must be set between 1-255) Gradual adjustment Green from 0-100% - Blue (CH1 must be set between 1-255)
Channels (Channel 1 0-255 Channel 2 0-255 Channel 3 0-255 Channel 4 0-255 Channel 5	AR2.D) - Dimmer intensity Gradual adjustment, from dark to brightest 0-100% - Red (CH1 must be set between 1-255) Gradual adjustment Red from 0-100% - Green (CH1 must be set between 1-255) Gradual adjustment Green from 0-100% - Blue (CH1 must be set between 1-255) Gradual adjustment Blue from 0-100%
Channels (Channel 1 0-255 Channel 2 0-255 Channel 3 0-255 Channel 4 0-255 Channel 5 0-255	AR2.D) - Dimmer intensity Gradual adjustment, from dark to brightest 0-100% - Red (CH1 must be set between 1-255) Gradual adjustment Red from 0-100% - Green (CH1 must be set between 1-255) Gradual adjustment Green from 0-100% - Blue (CH1 must be set between 1-255) Gradual adjustment Blue from 0-100% - White (CH1 must be set between 1-255) Gradual adjustment White from 0-100%
Channels (Channel 1 0-255 Channel 2 0-255 Channel 3 0-255 Channel 4 0-255 Channel 5 0-255 Channel 5 0-255	AR2.D) - Dimmer intensity Gradual adjustment, from dark to brightest 0-100% - Red (CH1 must be set between 1-255) Gradual adjustment Red from 0-100% - Green (CH1 must be set between 1-255) Gradual adjustment Green from 0-100% - Blue (CH1 must be set between 1-255) Gradual adjustment Blue from 0-100% - White (CH1 must be set between 1-255) Gradual adjustment White from 0-100%

Channel 1 – Dimmer intensity			
0-255	55 Gradual adjustment, from dark to brightest 0-100%		
Channel 2 : 0-255	2 – Red (CH1 must be set between 1-255 📤) Gradual adjustment Red from 0-100%		

Channel 3	Green (CH1 must be set between 1-255 100%)
0-255	Gradual adjustment Green from 0-100%



Channel 4 – Blue (CH1 must be set between 1-255 🔼)

Gradual adjustment Blue from 0-100%

Channel 5 – White (CH1 must be set between 1-255 🔼)

Gradual adjustment White from 0-100%

Channel 6 –Strobe (CH1 and CH2, CH3, CH4 or CH5 must be set between 1-255 🕰)

No function

11-255 Strobe flash frequency, from slow to fast (0-20Hz)

Maintenance

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 Spectral M800 Q4 IP65 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 lightoutput very quickly.

Please clean internal components once a year with a light brush and vacuum cleaner.

Keep connections clean. Disconnect electric power, and then wipe the DMX connections with a damp cloth. Make sure connections are thoroughly dry before linking equipment or supplying electric power.

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.

Suspect two potential problem areas as: the power supply and the LEDs.

- 01) Power supply. Check that the unit is plugged into an appropriate power supply.
- 02) The LEDs. Return the Spectral to your Showtec dealer.
- 03) If both of the above appears to be O.K., plug the unit in again.
- 04) If you are unable to determine the cause of the problem, do not open the Spectral, as this may damage the unit and the warranty will become void.
- 05) Return the device to your Showtec dealer.

No Response to DMX

Ordercode: 43571

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	No power to the fixture	Check if power is switched on and cables are plugged in
function at all	Internal fuse blown	Return the device to your local Showtec dealer.
Fixtures reset	The controller is not connected.	Connect controller.
correctly, but all respond erratically or not at all to the controller	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)	Install a phase reversing cable between the controller and the first fixture on the link
	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
Fixtures reset	Bad data link connection	 Inspect connections and cables. Correct poor connections. Repair or replace damaged cables
correctly, but some respond	Data link not terminated with 120 Ohm termination plug	 Insert termination plug in output jack of the last fixture on the link
erratically or not at all to the	Incorrect addressing of the fixtures	Check address setting
controller	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/5-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 LEDs	Fixture is too hot	 Allow the fixture to cool down Make sure air vents in control panel and the front lens are not blocked Turn up the air conditioning
cuts out intermittently	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 Spectral M800 Q4 IP65
Input voltage:	100-240V AC, 50/60Hz
Power consumption:	65W (full output)
DMX linking:	30pcs
Power linking @120V:	12 units
Power linking @230V:	24 units
Dimensions:	180 x 235 x 320 mm (LxWxH)
Weight:	5,2 kg
Operating and Programming:	
Signal pin OUT:	Pin 1 (earth), pin 2 (-), pin 3 (+)
DMX Mode:	4, 4, 5, 6, 7, 9, 10, 13, 15 channels
Signal input:	3-pin DMX IN
Signal output:	3-pin DMX OUT
Electro-mechanical effects:	
Light source:	14 x 3W RGBW LED
Light output:	1452lm
Color range:	16,7 million additive colors
Beam angle:	16°
Dimmer:	0-100%
Strobe:	0-20 Hz
Peak intensity:	15294 cd
Housing:	Die-cast black aluminum
DMX-control:	via standard DMX-controller
Onboard:	4-digit LED display for easy setup
Control:	Static Colors, Auto, Master/Slave, DMX-512
Connections:	Special IP Neutrik PowerCON connectors IN/OUT,
	special IP 3-pin XLR connectors IN/OUT
Cooling:	Convection
IP rating:	IP-65
Max. ambient temperature t_a :	40°C
Max. housing temperature t_B :	80°C
Minimum distance:	
Minimum distance from flammable surfaces:	0,5 m
Minimum distance to lighted object:	1 m
willinion distance to lighted object.	1 III

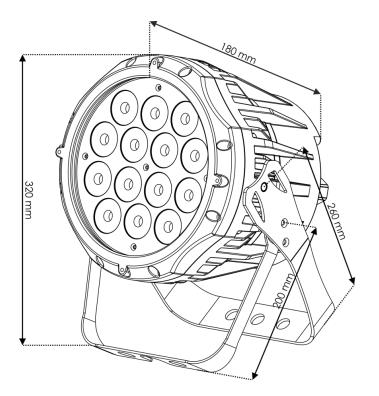
Design and product specifications are subject to change without prior notice.

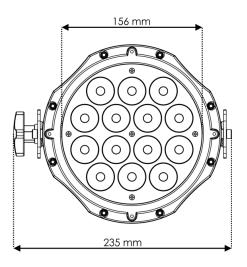


Website: <u>www.Showtec.info</u> Email: <u>service@highlite.nl</u>



Dimensions





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Notes



Spectral M800 Q4 IP65

