

MANUAL

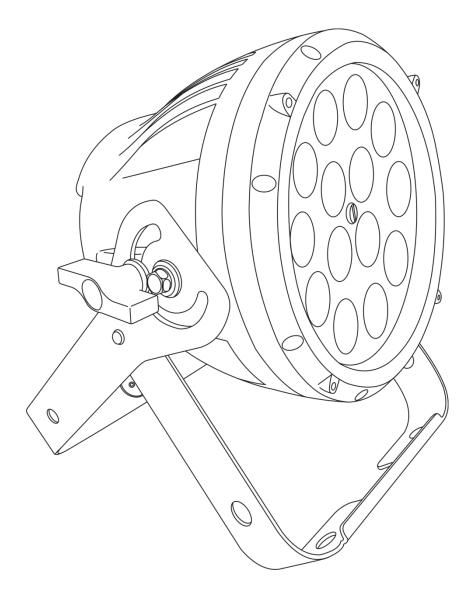




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Warning



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 M850 Q4 Tour
- Blue/White power cable (1,5 m)
- User manual



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.



Spectral M850 Q4 Tour

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 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.
- During the initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective.
- Repairs, servicing and electric connection must be carried out by a qualified technician.
- WARRANTY: Till one year after date of purchase.





CAUTION! EYEDAMAGES !!! NEVER LOOK DIRECTLY INTO THE LIGHTSOURCE !!!



Operating Determinations

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

You endanger your own safety and the safety of others!

Rigging

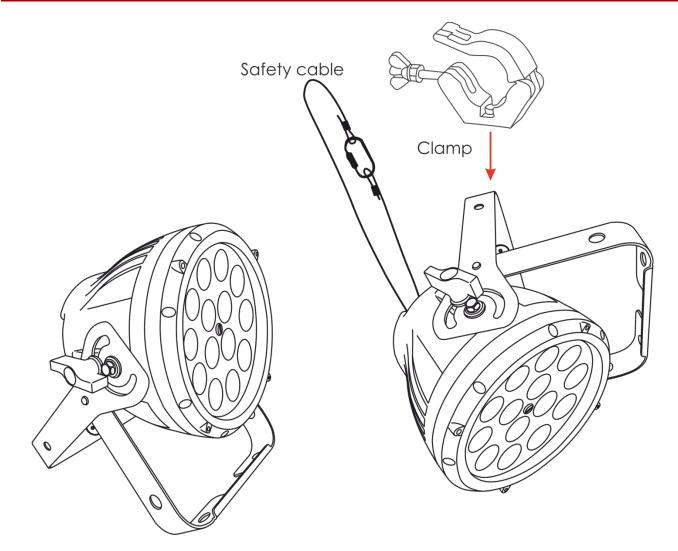
Please follow the European and national guidelines concerning rigging, trussing and all other safety issues.

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

Procedure:

- If the projector is lowered from the ceiling or high joists, professional trussing systems have to be used.
- Use a clamp to mount the projector, with the mounting bracket, to the trussing system.
- The projector must never be fixed swinging freely in the room.
- The installation must always be secured with a safety attachment, e.g. an appropriate safety net or safety cable.
- When rigging, 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 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!

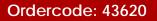
Connection with the mains

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
Ν	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 <u>aftersales@highlite.nl</u> 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 Spectral M850 Q4 Tour is a waterproof light effect with high output and great effects.

- Input voltage: 100-240V, 60/50Hz
- Power consumption: 100W
- DMX channels: 4, 8 or 15 channels
- OLED display for easy setup
- Light source: 14 x 8W 4-in-1 RGBA LEDs
- Light output: 18730 lumen @ 1 m
- Refresh rate: 400Hz
- Control modes: Built-in programs, Color presets, Manual, Master/Slave, DMX-512
- Control protocol: DMX-512
- Dimmer: 0-100%
- Strobe: 0-20Hz
- Beam Angle: 10°
- Housing: Metal & Flame retardant plastic
- Connections: Blue/White & 3-pin/5-pin XLR IN & OUT
- Cooling: convection
- Dimensions: 195 x 280 x 300 mm (LxWxH)
- Weight: 4,7 kg

Frontside

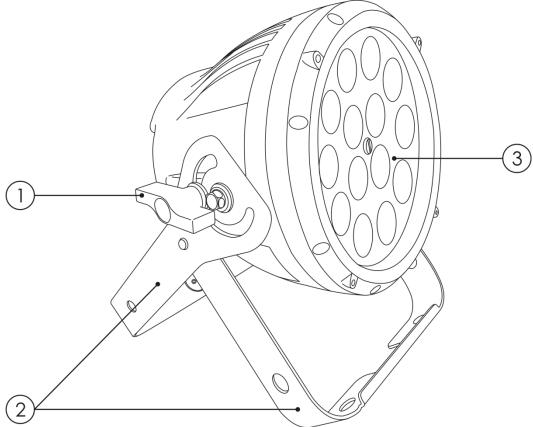


Fig. 01

- 01) Adjustment screw
- 02) Mounting brackets with inclination screw
- 03) 14 x 8W 4-in-1 RGBA LEDs





Backside

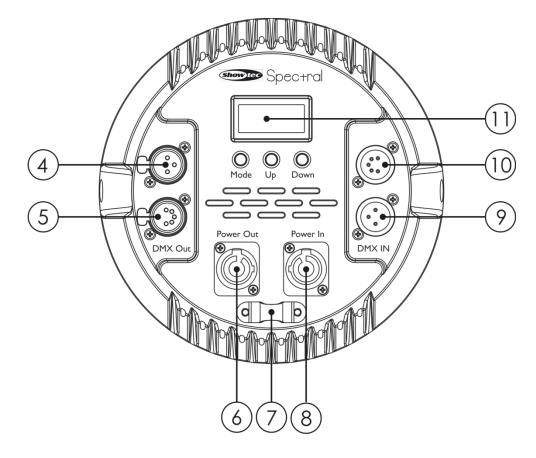


Fig. 02

- 04) 3-pin DMX signal connector OUT
- 05) 5-pin DMX signal connector OUT
- 06) Blue/White power connector 100-240V OUT
- 07) Safety eye
- 08) Blue/White power connector 100-240V IN
- 09) 3-pin DMX signal connector IN
- 10) 5-pin DMX signal connector IN
- 11) OLED display + menu buttons

Installation

Remove all packing materials from the Spectral M850 Q4 Tour. 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 5 modes:

- Built-in programs
- Color Presets
- Manual Mode
- Master/Slave
- DMX-512 (4CH, 8CH, 15CH)

One Spectral (Built-in programs, Color Presets and Manual Mode)

- 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 Spectral is not connected with a DMX cable, it functions as a stand-alone device. Please see pages 15 and 16 for more information about the Built-in programs, Color Presets and Manual Mode.

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) Use a 3-pin XLR cable to connect the Spectral.

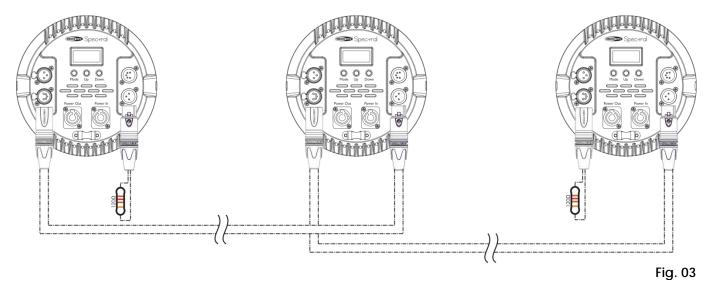




01) Earth 02) Signal -03) Signal +

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 15-16 (Built-in programs, Color Presets and Manual 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.

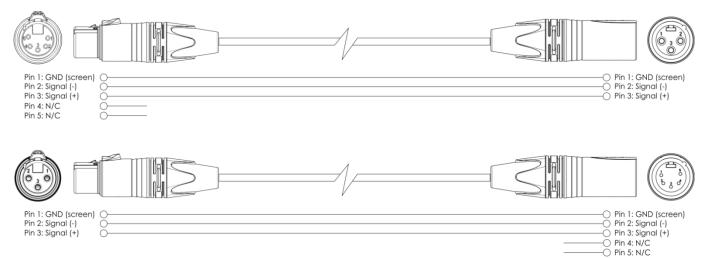
Multiple Spectrals (Master/Slave control)



Spectral M850 Q4 Tour

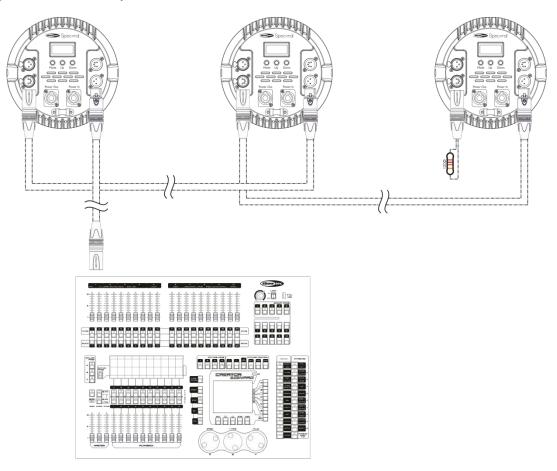
Multiple Spectrals (DMX Control)

- 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 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 IEC socket, then plug the other end of the mains power cord into proper electric power supply sockets, starting with the first unit. Do not supply power before the whole system is set up and connected properly.

Multiple Spectrals DMX Set Up



Note : Link all cables before connecting electric power

Fig. 04

Show IG

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).

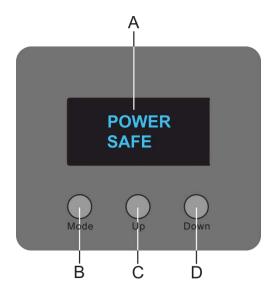




Spectral M850 Q4 Tour

The Spectral M850 Q4 Tour can be operated with a controller in **control mode** or without the controller in **stand-alone mode**.

Control Panel



A) OLED displayB) MODE buttonC) UP buttonD) 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(001)**; the DMX address of the second Spectral should be **1+15=16 (016)**; the DMX address of the third Spectral should be **16+15=31 (031)**, 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 M850 Q4 Tour.
- 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.

A Display Off after 10 seconds

When no button is pressed for 10 seconds, the display will turn off.

To light up the display, you have to press the MODE, UP or DOWN button and hold it down for 3 seconds. Once you have pressed the button, the display will light up.



Menu Overview

1	POWER SAFE	Up/Down	POWER POWERFUL							
	Lock Key No	Up/Down	Lock Key Yes							
	DMX-4CH DMX 1	Up/Down	DMX-4CH DMX 512							
	DMX-8CH DMX 1	Up/Down	DMX-8CH DMX 512							
	DMX-15CH DMX 1		DMX-15CH DMX 512							
	LEE 790 Mor Pink	Up/Down	LEE 157 Pink	Up/Down	LEE 332 Spc Pink	Up/Down	LEE 328 Fol Pink	Up/Down	LEE 345 FuchPink	
		Un/Dawn	LEE 120 DeepBlue	Up/Down	LEE 071 TokyBlue	Up/Down	LEE 181 CongBlue	Up/Down	LEE 194 SurpPink	Up/Down
		Up/Down	LEE 079 JustBlue	Up/Down	LEE 132 MedBlue	Up/Down	LEE 200 D.CTBlue	Up/Down	LEE 161 StatBlue	Lin/Daum
		Up/Down	LEE 353 LghterBlue	Up/Down	LEE 117 StlBlue	Up/Down	LEE 202 HfCTBlue	Up/Down	LEE 201 FICTBlue	Up/Down
		opibowii	LEE 118 LghtBlue	Up/Down	LEE 116 MedBlGr	Up/Down	LEE 124 DarkGrn	Up/Down	LEE 139 PrmGrn	Up/Down
		Up/Down	LEE 088 LimeGrn	Up/Down	LEE 738 JASGrn	Up/Down	LEE 122 FernGrn	Up/Down	LEE 089 MossGrn	dp/bowii
MOD	Ε	opidomi	LEE 100 SprngYel	Up/Down	LEE 104 DeepAmbr	Up/Down	LEE 179 ChrmOran	Up/Down	LEE 105 Orange	Up/Down
		Up/Down	LEE 164 FlameRed	Up/Down	LEE 135 DeepGold	Up/Down	LEE 778 MillGold	Up/Down	LEE 021 GldAmber	Children and Child
		opisonii	> ₩₩2700K	Up/Down	NW4000K	Up/Down	WH5600K	Up/Down	CW6000K	Up/Down
									CW7200K	
	Col Progr Prog 1	Up/Down	Col Progr Prog 6							
	ColSpeed Speed 1		ColSpeed Speed 16							
	ColSet Red (Up/Down	ColSet Red 255							
	ColSet Green (Up/Down	ColSet Green 255							
	ColSet Blue (Up/Down	ColSet Blue 255							
	ColSet Amber (Up/Down	ColSet Amber 255							
	PowerHr 00001h									

SafeHr 00001h



Spectral M850 Q4 Tour

Main Menu Options

POWER SAFE	Up/Down	POWER POWERFUL	Power Saving Mode/Full Power Mode
Lock Key No	Up/Down	Lock Key Yes	Display lock
DMX-4CH DMX 1	Up/Down	DMX-4CH DMX 512	DMX 4-channel mode
DMX-8CH DMX 1	Up/Down	DMX-8CH DMX 512	DMX 8-channel mode
DMX-15CH DMX 1	Up/Down	DMX-15CH DMX 512	DMX 15-channel mode
LEE 790 Mor Pink	Up/Down	CW7200K	Color presets
Col Progr Prog 1	Up/Down	Col Progr Prog 6	Built-in programs
ColSpeed Speed 1	Up/Down	ColSpeed Speed 16	Program speed
ColSet Red 0	Up/Down	ColSet Red 255	Red LED brightness (Manual Mode)
ColSet Green 0	Up/Down	ColSet Green 255	Green LED brightness (Manual Mode)
ColSet Blue 0	Up/Down	ColSet Blue 255	Blue LED brightness (Manual Mode)
ColSet Amber 0	Up/Down	ColSet Amber 255	Amber LED brightness (Manual Mode)
PowerHr 00001h			Full Power Mode counter
SafeHr 00001h			Power Saving Mode counter

1. Power Saving Mode/Full Power Mode

With this menu, you can set the desired energy mode.

- 01) Press the **MODE** button until the display shows
- 02) When the display shows SAFE, the device is operating in Power Saving Mode. Its output is limited in response to the ambient temperature, in order to ensure long and flawless operation, as well as to extend the lifespan of the LEDs.

POWER

SAFE

POWER

POWERFUL

or

- 03) When the display shows **POWERFUL**, the device is operating in Full Power Mode and its output is not limited.
- 04) In order to toggle between the 2 modes, press and hold down the UP/DOWN buttons for 3 seconds.



Ordercode: 43620

It is highly advised to operate the device in Power Saving Mode, in order to extend its lifespan.



∕∧

2. Display lock

With this menu, you can activate/deactivate a display lock

- 01) Press the **MODE** button until the display shows
- 02) Press the UP/DOWN buttons to activate/deactivate a display lock.
- 03) If you choose "Yes" and the display turns OFF after 10 seconds, you will have to press and hold down one of the menu buttons (MODE, UP/DOWN) for 3 seconds. The display will turn ON.

Lock Kev

DMX-4CH

DMX

04) If you choose "No", the display will remain continuously ON.

3. DMX 4-channel mode

With this menu, you can set the DMX address in 4-channel mode. Up/Down

- 01) Press the **MODE** button until the display shows
- 02) Press the **UP/DOWN** buttons to set the desired DMX address. The adjustment range is between 1-512.

4. DMX 8-channel mode

With this menu, you can set the DMX address in 8-channel mode. Up/Down

- DMX-8CH DMX 01) Press the **MODE** button until the display shows
- 02) Press the UP/DOWN buttons to set the desired DMX address. The adjustment range is between 1-512.

5. DMX 15-channel mode

With this menu, you can set the DMX address in 15-channel mode. Up/Down DMX-15CH

- DMX 01) Press the **MODE** button until the display shows
- 02) Press the UP/DOWN buttons to set the desired DMX address. The adjustment range is between 1-512.

6. Color presets

With this menu, you can set the desired color preset.

01) Press the **MODE** button until the display shows one of the following 38 color presets:



02) Press the UP/DOWN buttons to toggle between the presets.



Up/Down



DMX-15CH

DMX 512

DMX-4CH

512

DMX

DMX-8CH

7. Built-in programs

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

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

02) Press the UP/DOWN buttons to toggle between the 6 built-in programs.

8. Program speed

With this menu, you can set the built-in program speed

- ColSpeed Speed 01) Press the **MODE** button until the display shows
- 02) Press the UP/DOWN buttons to increase/decrease the program speed. The adjustment range is between 1-16, from slow to fast.

Col Prog

9. Red LED brightness (Manual Mode)

With this menu, you can set the Red LED brightness

- 01) Press the **MODE** button until the display shows
- 02) Press the UP/DOWN buttons to increase/decrease the Red LED brightness. The adjustment range is between 0-255, from dark to brightest.

ColSet

ColSet

Green

0

0

0

Red

03) You can combine Red, Green, Blue and Amber to create an infinite range of colors (0-255).

10. Green LED brightness (Manual Mode)

With this menu, you can set the Green LED brightness

- 01) Press the **MODE** button until the display shows
- 02) Press the UP/DOWN buttons to increase/decrease the Green LED brightness. The adjustment range is between 0-255, from dark to brightest.
- 03) You can combine Red, Green, Blue and Amber to create an infinite range of colors (0-255).

11. Blue LED brightness (Manual Mode)

With this menu, you can set the Blue LED brightness

- ColSet Blue 01) Press the **MODE** button until the display shows
- 02) Press the UP/DOWN buttons to increase/decrease the Blue LED brightness. The adjustment range is between 0-255, from dark to brightest.
- 03) You can combine Red, Green, Blue and Amber to create an infinite range of colors (0-255).

12. Amber LED brightness (Manual Mode)

With this menu, you can set the Amber LED brightness

- 01) Press the MODE button until the display shows Amber
- 02) Press the UP/DOWN buttons to increase/decrease the Amber LED brightness. The adjustment range is between 0-255, from dark to brightest.

ColSet

03) You can combine Red, Green, Blue and Amber to create an infinite range of colors (0-255).

13. Full Power Mode counter

With this menu, you can keep track of the operating time in Full Power Mode.

- PowerHr 00001h 01) Press the **MODE** button until the display shows
- 02) Now you can keep track of the operating time in Full Power Mode.

14. Power Saving Mode counter

With this menu, you can keep track of the operating time in Power Saving Mode.

- SafeHr 00001h 01) Press the **MODE** button until the display shows
- 02) Now you can keep track of the operating time in Power Saving Mode.





ColSet

Green 255

ColSet

Red

255

ColSet 255 Blue

ColSet

Amber 255





Col Progr

Prog

Up/Down

Up/Down

Up/Down

Up/Down

Up/Down

DMX Channels

4 channels

Channel 1 -	Red
0-255	Gradual adjustment Red, from 0-100%
Channel 2 -	
0-255	Gradual adjustment Green, from 0-100%
Channel 3 -	Bue
0-255	Gradual adjustment Blue, from 0-100%
0 200	
Channel 4 -	
0-255	Gradual adjustment Amber, from 0-100%
0 obonnolo	
8 channels	
Channel 1 -	- Dimmer intensity
0-255	Gradual adjustment, from dark to brightest 0-100%
Channel 2 -	· Red 🛆 Dimmer must be open 🛕
0-255	Gradual adjustment Red, from 0-100%
Channel 3 -	- Green 🛕 Dimmer must be open 🛕
0-255	Gradual adjustment Green, from 0-100%
Channel 4	
0-255	- Blue Dimmer must be open Gradual adjustment Blue, from 0-100%
0-233	
o	
	- Amber 🕰 Dimmer must be open 🕰
0-255	Gradual adjustment Amber, from 0-100%
	Macros 🕰 Dimmer must be open 🕰
0-13	Not functional
14-18	LEE 790 – Mor Pink
19-24	LEE 157 – Pink
25-30	LEE 332 – Spc Pink
<u>31-36</u> 37-42	LEE 328 – Fol Pink LEE 345 – FuchPink
43-48	LEE 343 – Fuchrink
49-54	LEE 181 – CongBlue
55-60	LEE 071 – TokyBlue
61-66	LEE 120 – DeepBlue
67-72	LEE 079 – JustBlue
73-78	LEE 132 – MedBlue
79-84	LEE 200 – D.CTBlue
85-90	LEE 161 – StatBlue
91-96	LEE 201 – FICTBlue
97-102	LEE 202 – HfCTBlue
103-108	LEE 117 – StiBlue
109-114	LEE 353 – LghterBlue
115-120	LEE 118 – LghtBlue
121-126	LEE 116 – MedBIGr

Show tec

127-132	LEE 124 – DarkGrn
133-138	LEE 139 – PrmGrn
139-144	LEE 089 – MossGrn
145-150	LEE 122 – FernGrn
151-156	LEE 738 – JASGrn
157-162	LEE 088 – LimeGrn
163-169	LEE 100 – SprngYel
170-176	LEE 104 – DeepAmbr
177-183	LEE 179 – ChrmOran
184-190	LEE 105 – Orange
191-197	LEE 021 – GldAmber
198-204	LEE 778 – MillGold
205-211	LEE 135 – DeepGold
212-218	LEE 164 – FlameRed
219-225	WW2700K
226-232	NW4000K
233-239	WH5600K
240-246	CW6000K
247-255	CW7200K

Not functional	
Strobe flash frequency, from slow to fast	

Channel 8 - Dimming curveDimmer must be open0-255Gradual adjustment dimming curve



Spectral M850 Q4 Tour

15 channels

15 channel	
Channel 1	– Dimmer intensity
0-255	Gradual adjustment, from dark to brightest 0-100%
Channel 2	– Fine dimmer intensity 🛕 Dimmer must be open 🛕
0-255	Fine adjustment dimmer, from dark to brightest 0-100%
0 200	
	- Red Dimmer must be open and CH14 must be set between 0-35
0-255	Gradual adjustment Red, from 0-100%
Channel 4	- Fine Red 🕰 Dimmer must be open and CH14 must be set between 0-35 🕰
0-255	Fine adjustment Red, from 0-100%
	A A
Channel 5	– Green \Lambda Dimmer must be open and CH14 must be set between 0-35 \Lambda
0-255	Gradual adjustment Green, from 0-100%
Channol 6	- Fine Green A Dimmer must be open and CH14 must be set between 0-35 A
0-255	Fine adjustment Green, from 0-100%
0 200	
	- Blue Dimmer must be open and CH14 must be set between 0-35
0-255	Gradual adjustment Blue, from 0-100%
Channel 8	- Fine Blue 🗥 Dimmer must be open and CH14 must be set between 0-35 🗥
0-255	Fine adjustment Blue, from 0-100%
Channel 9	– Amber \Lambda Dimmer must be open and CH14 must be set between 0-35 🛕
0-255	Gradual adjustment Amber, from 0-100%
Channol 1(0 – Fine Amber 🛕 Dimmer must be open and CH14 must be set between 0-35 🛕
0-255	Fine adjustment Amber, from 0-100%
0 200	
0-13	1 – Macros 🕰 Dimmer must be open 🕰 Not functional
14-18	LEE 790 – Mor Pink
19-24	LEE 157 – Pink
25-30	LEE 332 – Spc Pink
31-36	LEE 328 – Fol Pink
37-42	LEE 345 – FuchPink
43-48	LEE 194 – SurpPink
49-54	LEE 181 – CongBlue
55-60	LEE 071 – TokyBlue
61-66	LEE 120 – DeepBlue
67-72	LEE 079 – JustBlue
73-78	LEE 132 – MedBlue
79-84	LEE 200 – D.CTBlue
85-90	LEE 161 – StatBlue
91-96	LEE 201 – FICTBlue
97-102	LEE 202 – HfCTBlue
103-108	LEE 117 – StIBlue
109-114	LEE 353 – LghterBlue
115-120	LEE 118 – LghtBlue



Show tec

121-126	LEE 116 – MedBIGr
127-132	LEE 124 – DarkGrn
133-138	LEE 139 – PrmGrn
139-144	LEE 089 – MossGrn
145-150	LEE 122 – FernGrn
151-156	LEE 738 – JASGrn
157-162	LEE 088 – LimeGrn
163-169	LEE 100 – SprngYel
170-176	LEE 104 – DeepAmbr
177-183	LEE 179 – ChrmOran
184-190	LEE 105 – Orange
191-197	LEE 021 – GldAmber
198-204	LEE 778 – MillGold
205-211	LEE 135 – DeepGold
212-218	LEE 164 – FlameRed
219-225	WW2700K
226-232	NW4000K
233-239	WH5600K
240-246	CW6000K
247-255	CW7200K

Channel 12 – Strobe 🛆 Dimmer must be open and CH14 must be set between 0-35 🛕

0-15	Not functional
16-255	Strobe flash fre

be flash frequency, from slow to fast

Channel 13 – Dimming curve 🛕 Dimmer must be open 🛕

0-255 Gradual adjustment dimming curve

Channel 14 – Control modes 🛆 Dimmer must be open 🔬

0-35	Manual Mode (Static Color Mode)
36-71	Program 1 – fade in
72-107	Program 2 – fade out
108-143	Program 3 – fade in/out
144-179	Program 4 – color flow
180-215	Program 5 – 3-color switch
216-255	Program 6 – 7-color switch

 Channel 15 – Program speed A Dimmer must be open and CH14 must be set between 36-255

 0-255
 Program speed adjustment, from slow to fast



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 M850 Q4 Tour 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 and audio 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 appear 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

Suspect the DMX cable or connectors, a controller malfunction, a light effect DMX card malfunction.

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

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



Product Specifications

Model:	Showton Spactral M950 O4 Tour
	Showtec Spectral M850 Q4 Tour 100-240 VAC, 60/50Hz
Input Voltage:	100-240 VAC, 80/30HZ
Power consumption:	
DMX linking:	30pcs
Dimensions:	195 x 280 x 300 mm (LxWxH)
Weight:	4,7 kg
Operating and Programming:	
Signal pin OUT:	Pin 1 (earth), pin 2 (-), pin 3 (+)
DMX Mode:	4, 8, 15 channels
Signal input:	3-pin/5-pin DMX IN
Signal output:	3-pin/5-pin DMX OUT
Electro-mechanical effects:	
LED Quantity:	14 x 8W 4-in-1 RGBA LEDs
Light output:	18730 lumen @ 1 m
Color mixing:	RGBA
Beam angle:	10°
Dimmer:	0-100%
Strobe:	0-20Hz
Refresh rate:	400Hz
Housing:	Metal & Flame retardant plastic
DMX-control:	via standard DMX-controller
On Board:	OLED display for easy setup
Control:	Built-in programs, Color presets, Manual, Master/Slave, DMX-512
Connections:	Dedicated Schuko to Blue/White & Data connector
Cooling:	Convection
Max. ambient temperature ta:	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

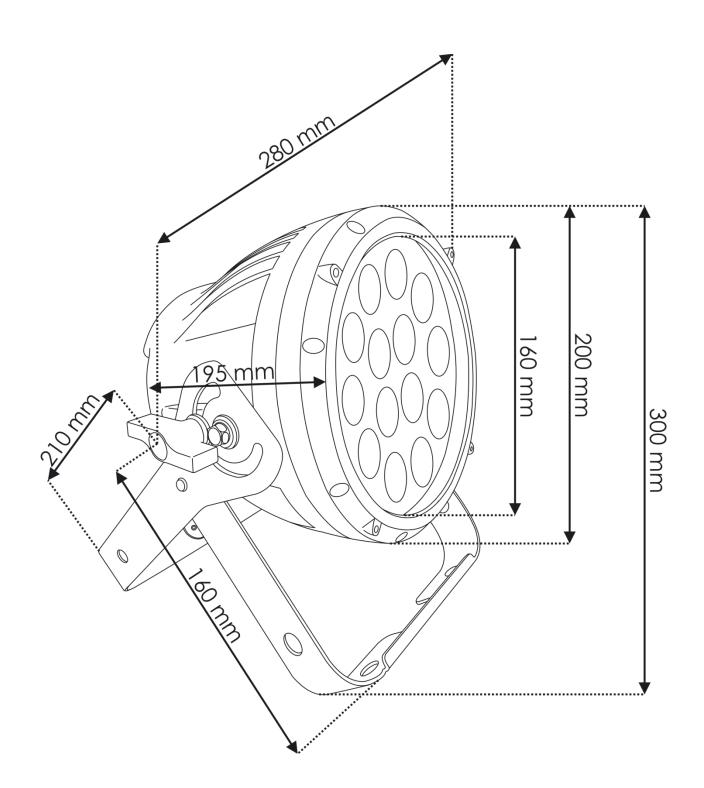
Design and product specifications are subject to change without prior notice.

CE

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Dimensions





Ordercode: 43620



Ordercode: 43620





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