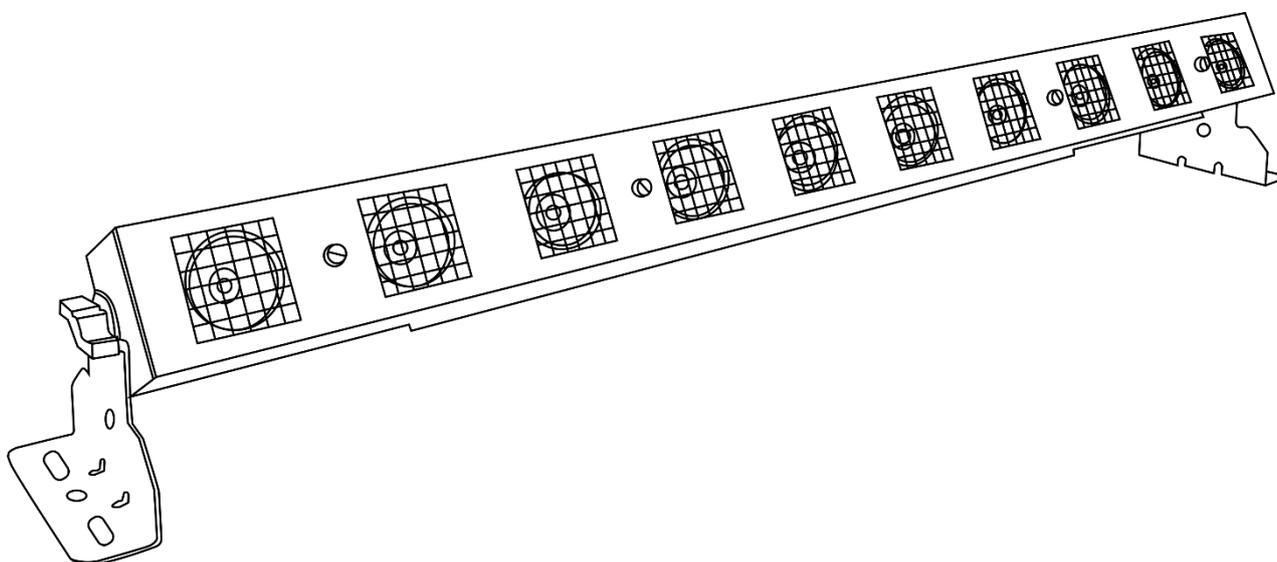




MANUAL



ENGLISH

Sunstrip Active MKII 110V V1

Ordercode: 30751

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Warning



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

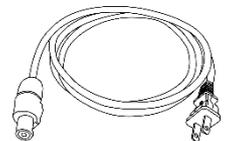
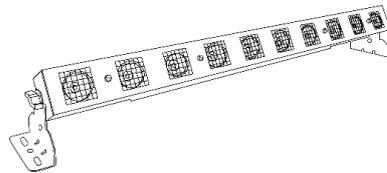


Unpacking Instructions

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 Sunstrip Active 110V
- 2 brackets incl. screws
- Neutrik Powercon to US plug power cable 1,5m
- 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.

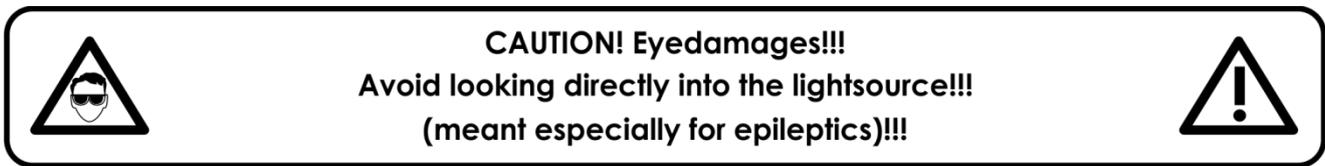
Please consider that damages caused by manual modifications to the device are not subject to warranty. This device contains no user-serviceable parts. Refer servicing to qualified technicians only.

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 modify, bend, mechanically strain, put pressure on, pull or heat up the power cord.
- Never strain the cable insert or the female part in the device. There must always be sufficient cable going to the device. Otherwise, the cable will be damaged, which can cause serious damage.
- Never remove warning or informative labels from the unit.
- Never use anything to cover the ground contact.
- Never lift the device holding it by the projector-head, as the mechanics may be damaged. Always hold the device by the transport handles.
- Never place any material over the lens.
- Never look directly into the light source.
- Never use the device without the lamp.
- Never ignite the lamp if the objective lens or any housing cover is open, as discharge lamps may expose and emit a high ultraviolet radiation, which may cause burns.
- In case of strobe fixtures: Never operate the stroboscope without protective shield! When the shield is cracked, replace it before using the device again.
- Never leave any cables lying around.
- Never use the device during thunderstorms, unplug the device immediately.
- Never leave various parts of the packaging (plastic bags, polystyrene foam, nails, etc.) within children's reach, as they are potential sources of danger.
- Do not insert objects into air vents.
- Do not open the device and do not modify the device.
- 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 device to cool for at least 5 minutes before handling.
- Do not shake the device. Avoid brute force when installing or operating the device.
- Do not install lamps of higher wattage.
- Only use the appropriate lamp for your unit. Note that product versions, that use other lamps, may be offered in the future. Check your product specification label for information.
- Only use the device indoors, avoid contact with water or other liquids (only applies to devices with IP<=65).
- Only operate the device 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 replace the lamp, when it is damaged or deformed due to the heat.
- 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, before cleaning or when replacing lamp! 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.
- Make sure that the core diameter of extension cords and power cords is sufficient for the required power consumption of the device.
- If the lens is obviously damaged, it has to be replaced to prevent its functions from being impaired, due to cracks or deep scratches.
- If the external cable is damaged, it has to be replaced by a qualified technician.
- 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 device must be installed beyond the reach of children. Never leave the unit running unattended.
- Never attempt to bypass the thermostatic switch or fuses.
- For replacement use fuses of same type and rating only.
- The user is responsible for correct positioning and operating of the device. 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.
- Allow time to cool down, before replacing lamp.
- For replacement use lamps of same type and rating only.
- Repairs, servicing and electric connection must be carried out by a qualified technician.
- WARRANTY: Till one year after date of purchase.



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. (This distance may differ depending on the model. The exact minimum distance will be mentioned in the corresponding manual.)
- To eliminate wear and improve lifespan, during periods of non-use, completely disconnect from power via breaker or by unplugging.
- The maximum ambient temperature $t_a = 40^\circ\text{C}$ must never be exceeded.
- The relative humidity must not exceed 50 % with an ambient temperature of 40°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

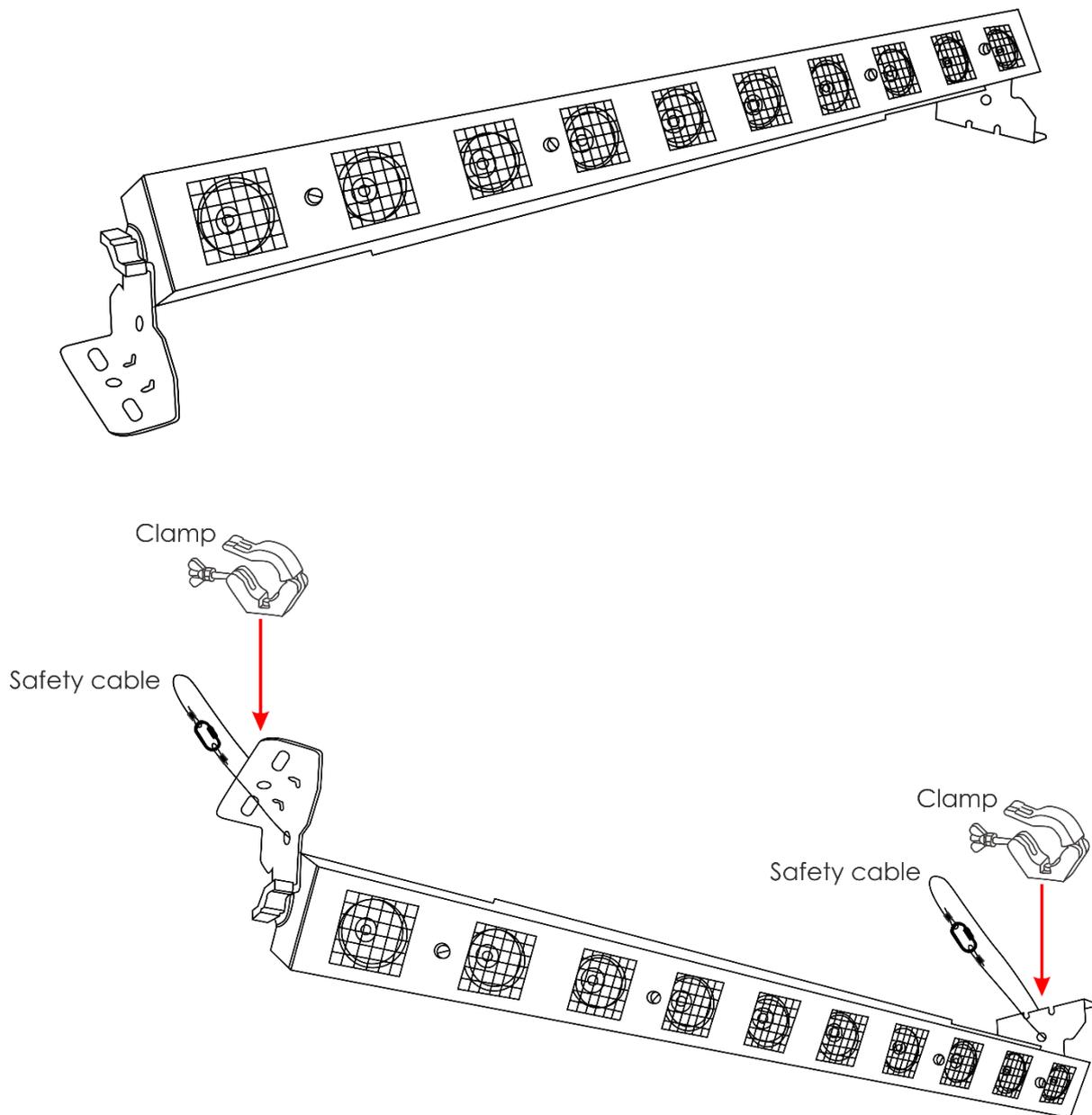
Please follow the European and national guidelines concerning rigging, trussing and all other safety issues.

Do not attempt the installation yourself !

Always let the installation be carried out by an authorized dealer !

Procedure:

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



The Sunstrip Active MKII 110V can be placed on a flat stage floor or mounted to any kind of truss with a clamp.

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

Connection with the mains

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

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

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

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



Return Procedure

Returned merchandise must be sent prepaid and in the original packing, call tags will not be issued. Package must be clearly labeled with a Return Authorization Number (RMA number). Products returned without an RMA number will be refused. Highlite will not accept the returned goods or any responsibility. Call Highlite 0031-455667723 or mail offersales@highlite.com 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 Sunstrip Active 110V is a 110V version of the already popular Sunstrip Active MKII. It is the most versatile fixture including 10 pcs Sunstrip lamp GU10. This Sunstrip is specially designed for countries which have a 110V power connection.

- Invert function
- Programmable name in start screen
- Input voltage: 110V, 50/60Hz
- Power consumption: 500W
- DMX channels: 1, 2, 5 or 10 channels
- 4-digit LED display for easy setup
- Light source: 10 x 110V/50W GU10 (Ordercode: SPHK498)
- Socket: GU10
- Lumen: 300lm (each Lamp)
- Control modes: Chase mode, DMX mode
- Control protocol: DMX-512
- Dimmer: 0-100%
- Beam Angle: 35°
- Protection rate: IP-20
- Power Connector: Neutrik Powercon IN/OUT
- Data Connector: 3-pin XLR IN/OUT
- Fuse: F10A/250V
- Dimensions: 1080 x 130 x 130 mm (LxWxH) (incl. brackets)
- Weight: 6,2 kg

Note: Knowledge of DMX is required to fully utilize this unit.

Optional accessories

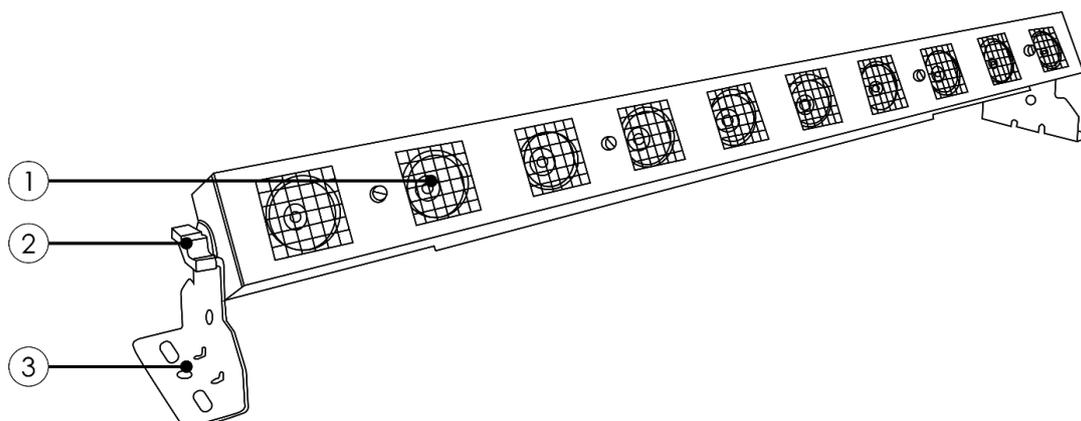
[30713](#) Multibracket for Sunstrip

[D7039](#) Case for 12x Sunstrip Active

[D7240](#) Case for 8x Sunstrip Active (Premium Line)

[D7510](#) Case for 8x Sunstrip Active

Frontside



- 01) 10 x 110V/50W GU10 (Ordercode: SPHK498)
02) Adjustment screw
03) Mounting bracket

Fig. 01

Backside

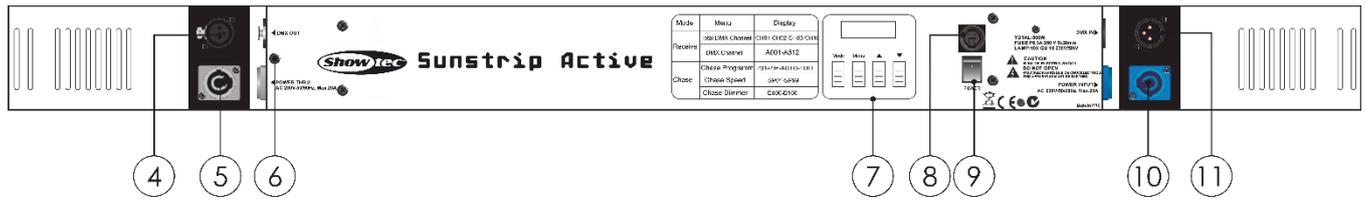


Fig. 02

- 04) 3-pin DMX signal connector OUT
- 05) Neutrik Powercon Thru (Grey, Max 20A)
- 06) Ground/Earth connection
- 07) 4-digit LED display + menu buttons
- 08) Fuse 6A/250V
- 09) Powerswitch ON/OFF
- 10) Neutrik Powercon IN (Blue, Max 20A)
- 11) 3-pin DMX signal connector IN

Installation

Remove all packing materials from the Sunstrip Active MKII 110V. 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.

Installing the Lamp

The Showtec Sunstrip Active MKII 110V uses a 110V/50W GU10 bulb (Ordercode: SPHK498) as manufactured by all popular manufacturers. Use only the appropriate lamp for your unit.

Note that, product versions that use other lamps, may be offered in the future. Check your product specification label for information.

Always disconnect from electric mains power supply before changing lamps.

The lamp has to be replaced when it is damaged or deformed due to the heat.

Do not install lamps with a higher wattage! Lamps with a higher wattage generate temperatures the device was not designed for.

Damages caused by non-observance are not subject to warranty.

Procedure

- 01) Loosen the 4 screws on the front of the housing.
- 02) Gently remove the metal housing (Fig. 05).
- 03) Read lamp instructions. Do not touch the lamp bulb glass.
- 04) Push and turn the lamp counter clockwise and remove the lamp (Fig. 06).
- 05) Oil on hands shortens the lamp life. (If you touch the bulb glass, wipe off the glass with a clean, lint-free towel and rubbing alcohol).
- 06) Insert the lamp pins into the small holes in the lamp socket.
Push and turn clockwise to install the lamp (Fig. 07).
- 07) Put the metal housing back and fasten the screws snugly (Fig. 08).

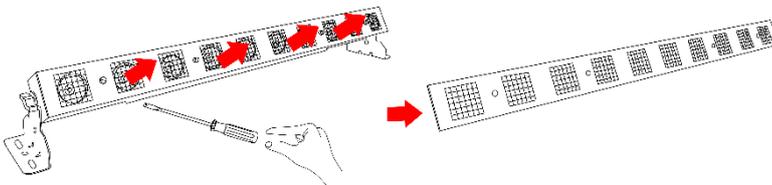


Fig.05

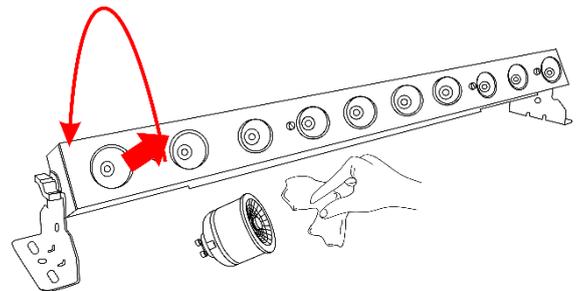


Fig.06

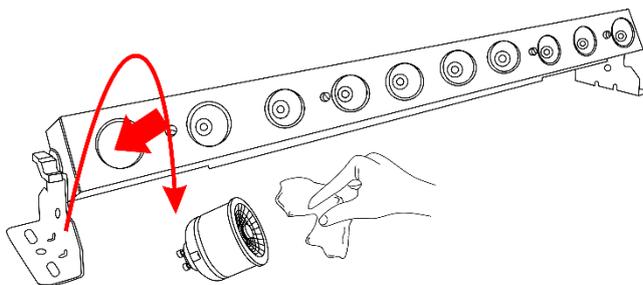


Fig.07

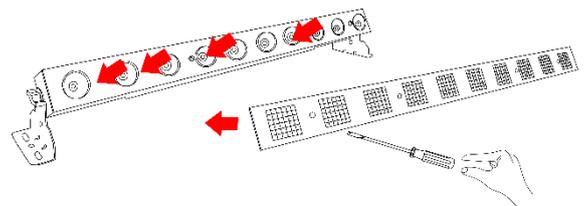


Fig.08

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

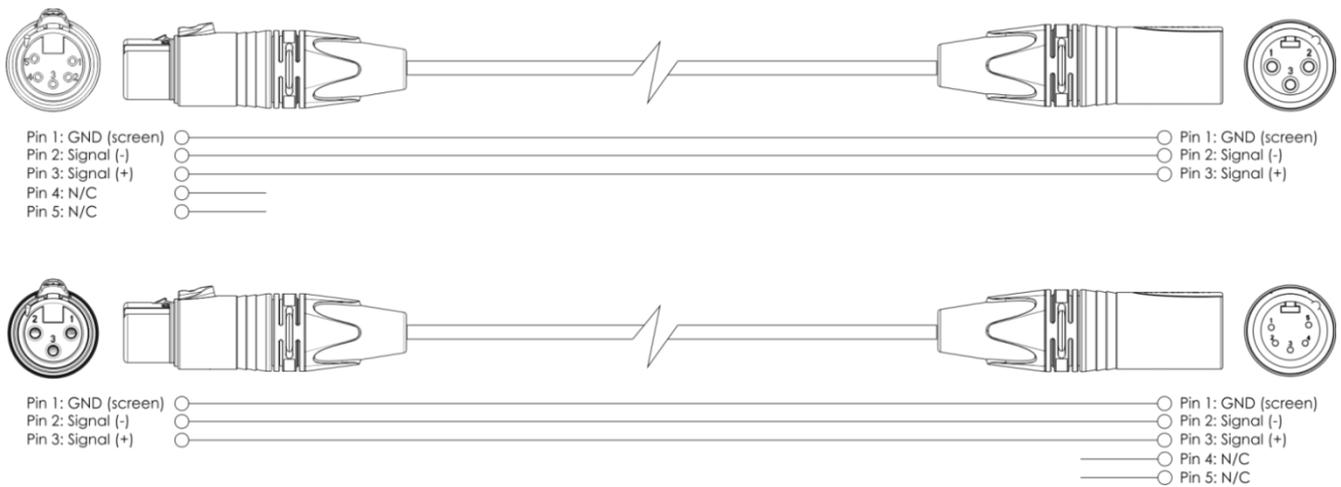
- There are 2 modes:
- Chase mode
 - DMX-512 (1CH, 2CH, 5CH or 10CH)

One Sunstrip Active (Chase mode)

- 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 Sunstrip Active is not connected with a DMX cable, it functions as a stand-alone device. Please see page 13 for more information about the Chase mode.

Multiple Sunstrips Active (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 Sunstrips Active and other devices.



- 04) Link the units as shown in Fig. 09. 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 and third units.
- 05) Supply electric power: Plug electric mains power cords into each unit's Neutrik Powercon, 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 Sunstrips Active DMX Set Up

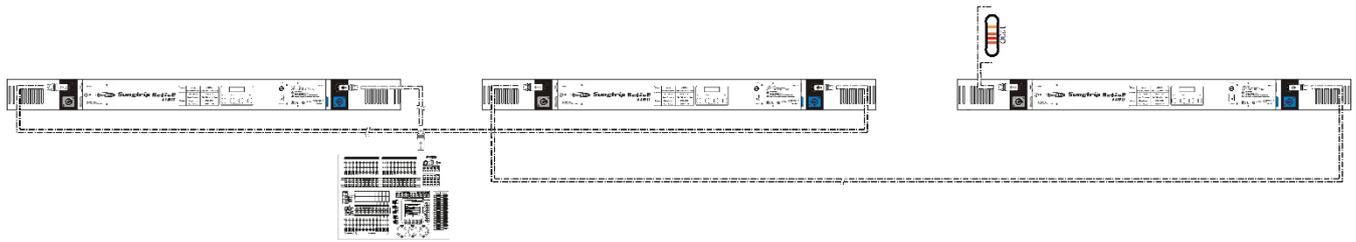


Fig. 09

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: 3 fixtures



Data Cabling

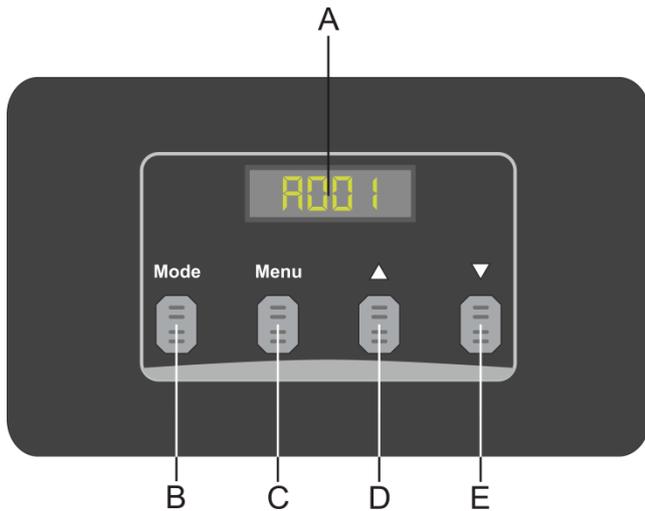
To link fixtures together, you must obtain data cables. You can purchase DAP Audio certified DMX cables directly from a dealer/distributor or construct your own cable. If you choose to create your own cable, please use data-grade cables that can carry a high quality signal and are less prone to electromagnetic 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).
- DAP Audio data cable FL08 DMX/AES-EBU, XLR/M 5-pin > XLR/F 5-pin. **Ordercode** FL08150 (1,5 m), FL083 (3 m), FL086 (6 m), FL0810 (10 m), FL0820 (20 m).
- DAP Audio DMX adapter: 5-pin/3-pin. **Ordercode** FLA29.
- DAP Audio DMX adapter: 3-pin/5-pin. **Ordercode** FLA30.

The Sunstrip Active MKII 110V can be operated with a controller in **control mode** or without the controller in **stand-alone mode**.

Control Panel



- A) LED display
- B) Mode button
- C) Menu button
- D) Up button
- E) Down button

Fig. 04

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 back side of the device allows you to assign DMX fixture addresses, which is the first channel with which the Sunstrip will respond to the controller. Please note, when you use the controller, the unit has **10** channels. When using multiple Sunstrips, make sure you set the DMX addresses right. Therefore, the DMX address of the first Sunstrip should be **1(A001)**; the DMX address of the second Sunstrip should be **1+10=11 (A011)**; the DMX address of the third Sunstrip should be **11+10=21 (A021)**, etc. Please, be sure that you do not have any overlapping channels in order to control each Sunstrip correctly. If two or more Sunstrips are addressed similarly, they will work similarly.

Controlling:

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

Note: After switching on, the Sunstrip 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 Sunstrip.
- The controller is switched off or defective, the cable or connector is defective, or the signal wires are swapped in the input connector.

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

Display Off after 10 seconds

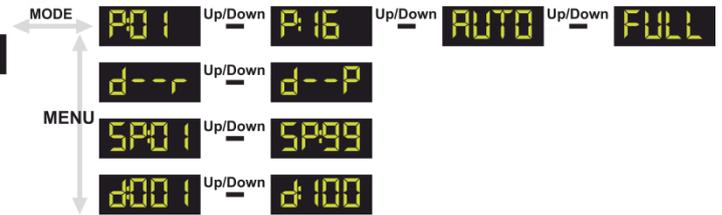
When no button is pressed for 10 seconds, the display will turn off. To light up the display, you have to press the **Mode**, **Menu**, **Up** or **Down** button. Once you have pressed the button, the display will light up.

Menu Overview

DMX Mode



Chase Mode



Main Menu Options

DMX Mode

-  DMX address
-  DMX configuration

Chase Mode

-  Chase program
-  Chase direction
-  Chase speed
-  Chase dimmer

The Sunstrip Active MKII 110V will show Showtec at start-up !



The text will remain in the display for 30 seconds.

1. DMX Mode

With this mode you can set the DMX address and choose a DMX configuration.

1.1 DMX address

- 01) Press and hold the **Mode** button for 5 seconds until the display starts blinking.
- 02) Press the **Mode** or **Menu** button, until the display shows .
- 03) You can choose 512 different DMX addresses.
- 04) Press the **Up/Down** buttons to select the required address from  Up/Down .

 Press and hold down the **Up** and **Down** buttons and the device immediately returns to its default address A001. 

Note: To change this option, the display has to blink.

1.2 DMX configuration

- 01) Press the **Menu** button (in DMX Mode), until the display shows **CH01**.
- 02) You can choose 4 different DMX configurations.
- 03) Press the **Up/Down** buttons to select the required DMX configuration.

CH01	1 DMX channel
CH02	2 DMX channels
CH05	5 DMX channels
CH10	10 DMX channels

Note: To change this option, the display has to blink.

2. Chase Mode

With this mode you can choose a built-in chase program, set the direction of the chase, set the speed of the chase and set the dimmer of the chase.

2.1 Chase program

- 01) To activate the chase programs, you have to set the dimmer between **d001** ^{Up/Down} **d100**.
- 02) Press and hold the **Mode** button for 5 seconds until the display starts blinking.
- 03) Press the **Mode** or **Menu** button, until the display shows **P01**.
- 04) You can choose 16 different built-in programs, auto or full.
- 05) Press the **Up/Down** buttons to select the required built-in program from **P01** ^{Up/Down} **P:16**.
- 06) If you choose **AUTO** program, the device will start with its built-in chases 1-16 in sequence.
- 07) If you choose **FULL**, all 10 LEDs will light up and remain On at 100% output.

Note: To change this option, the display has to blink.

2.2 Chase direction

- 01) Press the **Menu** button (in Chase Mode), until the display shows **d--P**.
- 02) You can choose **d--P** or **d--r**.
- 03) Press the **Up/Down** buttons to select the required direction.
- 04) If you choose **d--P**, the chase will start in the regular direction.
- 05) If you choose **d--r**, the chase will start in the reverse direction.

Note: To change this option, the display has to blink.

2.3 Chase speed

- 01) Press the **Menu** button (in Chase Mode), until the display shows **SP01**.
- 02) Press the **Up/Down** buttons to select the required speed.
- 03) Set the speed between **SP01** ^{Up/Down} **SP99**.

Note: To change this option, the display has to blink.

2.4 Chase dimmer

- 01) Press the **Menu** button (in Chase Mode), until the display shows **d001**.
- 02) Press the **Up/Down** buttons to select the required light intensity.
- 03) Set the intensity between **d001** ^{Up/Down} **d100**.

Note: To change this option, the display has to blink.

Edit welcome text

The default text is Showtec, with this function you can create your own welcome text.

- 01) Press and hold the **Mode** button for 5 seconds, until the display starts blinking.
- 02) Now press and hold the **Mode** button, while pressing the following buttons in sequence: **Up, Up, Down, Down, Up, Down** to enter the **Edit** mode.
- 03) Press and hold the **Up** button for 2 seconds to select the next character you want to edit.
- 04) If you have made an error and want to change the previous character, press and hold the **Down** button for 2 seconds to select the previous character.
- 05) Press the **Up/Down** button to select a certain character. Repeat step 3-5 to edit all characters.
- 06) The text can hold a maximum of 23 characters.
- 07) When you have completed your welcome text, press the **Up/Down** buttons simultaneously, the display will show the created text.
- 08) Press the **Mode** button for 5 seconds to exit the **Edit** mode.

Available characters

	9		@		S		I
	8		Space		R		H
	7		-		Q		G
	6		Z		P		F
	5		Y		O		E
	4		X		M		D
	3		W		N		C
	2		V		L		B
	1		U		K		A
	0		T		J		

DMX Channels

1 DMX channel

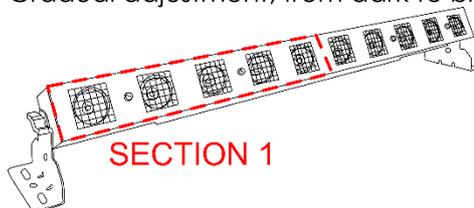
Channel 1 – Dimmer intensity (All LEDs)

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

2 DMX channels

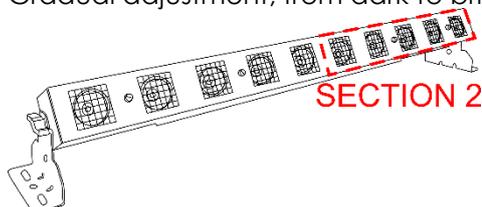
Channel 1 – Dimmer intensity section 1

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



Channel 2 – Dimmer intensity section 2

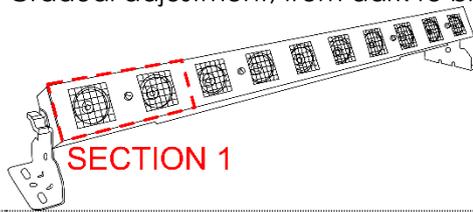
0-255 Gradual adjustment, from dark to brightest 0-100%



5 DMX channels

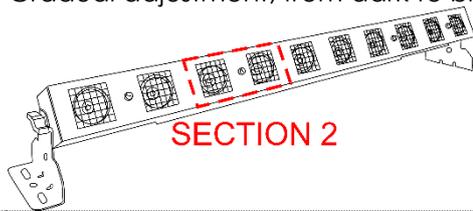
Channel 1 – Dimmer intensity section 1

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



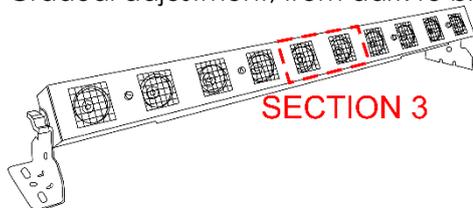
Channel 2 – Dimmer intensity section 2

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



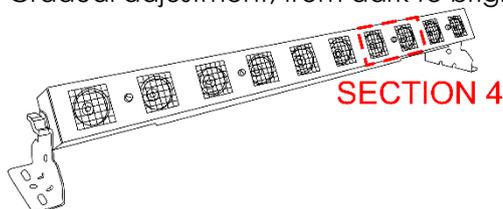
Channel 3 – Dimmer intensity section 3

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



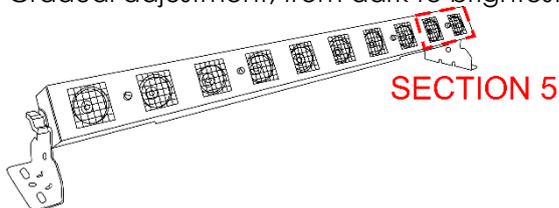
Channel 4 – Dimmer intensity section 4

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



Channel 5 – Dimmer intensity section 5

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



10 DMX channels

Channel 1 – Dimmer intensity LED 1

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

Channel 2 – Dimmer intensity LED 2

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

Channel 3 – Dimmer intensity LED 3

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

Channel 4 – Dimmer intensity LED 4

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

Channel 5 – Dimmer intensity LED 5

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

Channel 6 – Dimmer intensity LED 6

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

Channel 7 – Dimmer intensity LED 7

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

Channel 8 – Dimmer intensity LED 8

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

Channel 9 – Dimmer intensity LED 9

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

Channel 10 – Dimmer intensity LED 10

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

Maintenance

The Sunstrip Active MKII 110V requires almost no maintenance. However, you should keep the unit clean. Otherwise, the fixture's light-output will be significantly reduced. Disconnect the mains power supply, and then wipe the cover with a damp cloth. Do not immerse in liquid. Wipe lens clean with glass cleaner and a soft cloth. Do not use alcohol or solvents.

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

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

The operator has to make sure that safety-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.

Changing the Lamp

- 01) Disconnect mains power supply. Allow the fixture to cool for at least 15 minutes before handling and replacing lamp.
- 02) Read lamp instructions.
- 03) Follow directions for installing a new lamp page 9.

Replacing the Fuse

Power surges, short-circuit or inappropriate electrical power supply may cause a fuse to burn out. If the fuse burns out, the product will not function whatsoever. If this happens, follow the directions below:

- 01) Unplug the unit from electric power source.
- 02) Insert a flat-headed screwdriver into a slot in the fuse cover. Turn the screwdriver to the left, at the same time gently push a bit (Turn and Push). The fuse will come out.
- 03) Remove the used fuse. If brown or unclear, it is burned out.
- 04) Insert the replacement fuse into the holder. Reinsert the fuse cover. Be sure to use a fuse of the same type and specification. See the product specification label for details.

Troubleshooting

This troubleshooting guide is meant to help solve simple problems.

If a problem occurs, carry out the steps below in sequence until a solution is found. Once the unit operates properly, do not carry out following steps.

No Light

If the light effect does not operate properly, refer servicing to a technician.

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

- 01) Power supply. Check that the unit is plugged into an appropriate power supply.
- 02) The lamp. Replace the old lamp with a new one with the same specifications. See page 9 for replacing the lamp.
- 03) The fuse. Replace the fuse. See page 18 for replacing the fuse.
- 04) If all of the above appears to be O.K., plug the unit in again.
- 05) If you are unable to determine the cause of the problem, do not open the Sunstrip Active, as this may damage the unit and the warranty will become void.
- 06) Return the device to your Showtec dealer.

No Response to DMX

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

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

Problem	Probable cause(s)	Solution
One or more fixtures do not function at all	No power to the fixture	<ul style="list-style-type: none"> • Check if power is switched on and cables are plugged in
	Primary fuse blown	<ul style="list-style-type: none"> • Replace fuse
Fixtures reset correctly, but all respond erratically or not at all to the controller	The controller is not connected.	<ul style="list-style-type: none"> • Connect controller.
	3-pin XLR Out of the controller does not match XLR Out of the first fixture on the link (i.e. signal is reversed)	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Inspect connections and cables. Correct poor connections. Repair or replace damaged cables
	Data link not terminated with 120 Ohm termination plug	<ul style="list-style-type: none"> • Insert termination plug in output jack of the last fixture on the link
	Incorrect addressing of the fixtures	<ul style="list-style-type: none"> • Check address setting
	One of the fixtures is defective and disturbs data transmission on the link	<ul style="list-style-type: none"> • Bypass one fixture at a time until normal operation is restored: unplug both connectors and connect them directly together. • Have the defective fixture serviced by a qualified technician
	3-pin XLR Out on the fixtures does not match (pins 2 and 3 reversed)	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 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
	Lamp damaged	<ul style="list-style-type: none"> • Disconnect the fixture and replace the lamp
	The power supply settings do not match local AC voltage and frequency	<ul style="list-style-type: none"> • Disconnect fixture. Check settings and correct if necessary

Product Specifications

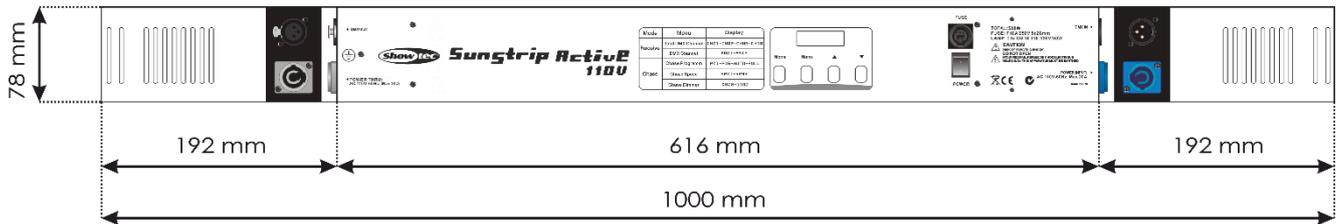
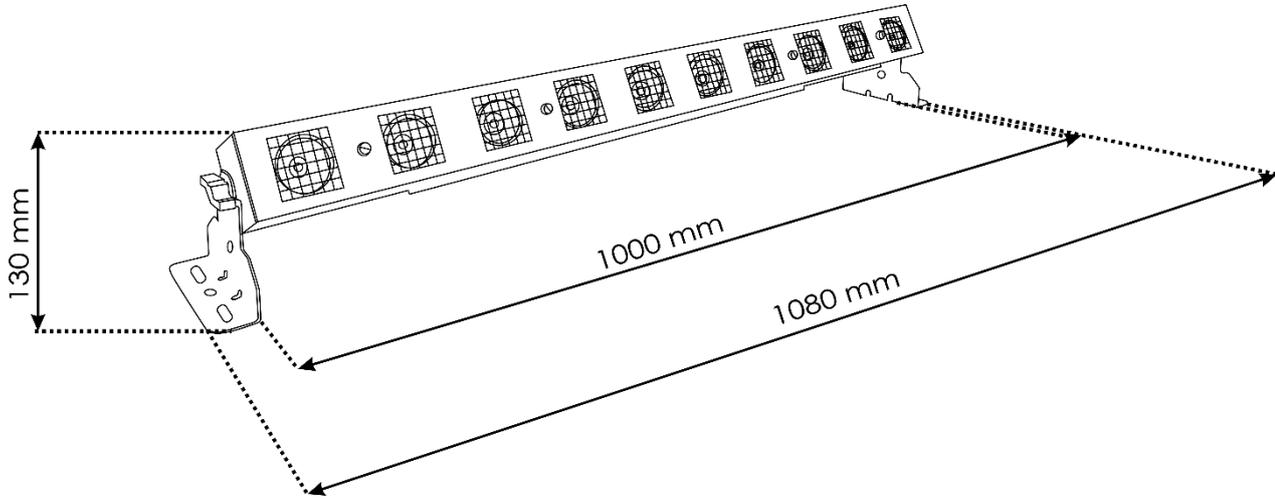
Model:	Showtec Sunstrip Active MKII 110V
Input Voltage:	110 VAC, 60Hz
Power consumption:	500W (full output)
DMX linking:	30 pcs
Power linking	3 pcs
Protection rate:	IP-20
Fuse:	F10A/250V
Dimensions:	1080 x 130 x 130 mm (LxWxH) (incl. brackets)
Weight:	6,2 kg
Operating and Programming:	
Signal pin OUT:	Pin 1 (earth), pin 2 (-), pin 3 (+)
DMX Mode:	1, 2, 5 or 10 channels
Signal input:	3-pin DMX IN
Signal output:	3-pin DMX OUT
Electro-mechanical effects:	
Light source:	10 x 110V/50W GU10
Socket:	GU10
Lumen:	300lm (each Lamp)
Beam angle:	35°
Dimmer:	0-100%
DMX-control:	via standard DMX-controller
On Board:	4-digit LED display for easy setup
Control:	Chase mode, DMX mode
Connections:	Neutrik Powercon IN/OUT 3-pin XLR IN/OUT
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

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

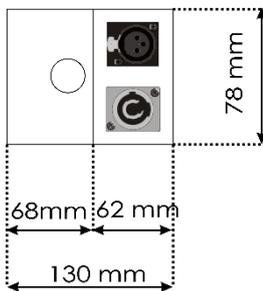


Website: www.Showtec.info
Email: service@highlite.com

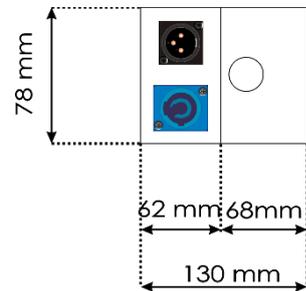
Dimensions



Leftside



Rightside





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