Sunstrip Active MKII

ORDERCODE 30714

Congratulations!

You have bought a great, innovative product from Showtec.
The Showtec Sunstrip Active brings excitement to any venue.

You can rely on Showtec, for more excellent lighting products.
We design and manufacture professional light equipment for the entertainment industry.
New products are being launched regularly. We work hard to keep you, our customer, satisfied.
For more information: iwant@showtec.info

You can get some of the best quality, best priced products on the market from Showtec.
So next time, turn to Showtec for more great lighting equipment.
Always get the best -- with Showtec !

Thank you!

Showtec

Showtec Sunstrip Active™ Product Guide

Warning

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:
• Sunstrip Active with Powercon powercable 1,5m
• User manual

Safety Instructions

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

Before your 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 written 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 run the device without 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.
- Never use the device during thunderstorms, unplug the device immediately.
- Never look directly into the light source.
- Never leave any cables lying around.
- Do not insert objects into air vents.
- Do not connect this device to a dimmerpack.
- Do not open the device and do not modify the device.
- Do not switch the device on and off in short intervals, as this would reduce the system's life.
- Do not touch the device's housing bare-handed during its operation (housing becomes very hot).
- Do not shake the device. Avoid brute force when installing or operating the device.
- Only use device indoor, avoid contact with water or other liquids.
- Only operate the fixture after having checked that 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 case closed while operating.
- Always allow 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 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 external cable is damaged, it has to be replaced by a qualified technician.
- If one of the lamps is obviously damaged, it has to be replaced. So that its functions are not impaired, due to cracks or deep scratches.
- If device is 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 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. Light effect must be installed out of the reach of children. Never leave the unit running unattended.
- For replacement use lamps and fuses of same type and rating only.
- Allow time to cool down, before replacing lamp.
- The user is responsible for correct positioning and operating of the Sunstrip Active. The manufacturer will not accept liability for damages caused by the misuse or incorrect installation of this device.
- This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth.
- Repairs, servicing and electric connection must be carried out by a qualified technician.
- WARRANTY: Till one year after date of purchase.

CAUTION ! EYEDAMAGES !.
Avoid looking directly into the light source.
(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 more than 1.5 meter.
- The maximum ambient temperature t_a = 45°C must never be exceeded.
- The relative humidity must not exceed 50 % with an ambient temperature of 45° 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!

Improper installation can cause serious damage to people and property !

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 device, always make sure, that the area below the installation place is blocked and staying in the area is forbidden.

The Sunstrip Active can be mounted in a hanging position (Fig. Above) or Upright (Fig. Below), using the support brackets. Mounting the Sunstrip Active with a clamp or any other mounting bracket is recommended, depending on the requirements of your application.
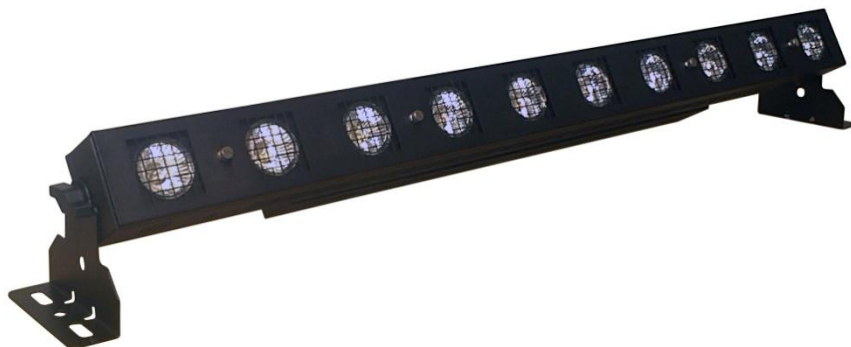
The Sunstrip Active can be placed on a flat stage floor or mounted to any kind of truss by a clamp.

Improper installation can cause serious damage to people and property !

Connection with the mains

Connect the device to the mains with the power-plug.
Always pay attention, that the right color cable is connected to the right place.

International	EU Cable	UK Cable	US Cable	Pin
L	BROWN	RED	YELLOW/COPPER	FASE
N	BLUE	BLACK	SILVER	NUL
⏚	YELLOW/GREEN	GREEN	GREEN	EARTH

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

⚠ 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:**
1) Your name
2) Your address
3) Your phone number
4) A brief description of the symptoms

Claims

The client has the obligation to check the delivered goods immediately upon delivery for any short-
comings and/or visible defects, or perform this check after our announcement that the goods are at their
disposal. Damage incurred in shipping is the responsibility of the shipper; therefore the damage must be
reported to the carrier upon receipt of merchandise.
It is the customer's responsibility to notify and submit claims with the shipper in the event that a fixture is
damaged due to shipping. Transportation damage has to be reported to us within one day after receipt
of the delivery.
Any return shipment has to be made post-paid at all times. Return shipments must be accompanied with
a letter defining the reason for return shipment. Non-prepaid return shipments will be refused, unless
otherwise agreed in writing.
Complaints against us must be made known in writing or by fax within 10 working days after receipt of the
invoice. After this period complaints will not be handled anymore.
Complaints will only then be considered if the client has so far complied with all parts of the agreement,
regardless of the agreement of which the obligation is resulting.

Description of the device

Features
The Showtec Sunstrip Active is a light effect with high output and great effects.
- Successor of the already popular Sunstrip Active
- This version offers extra features such as: reverse function, opportunity to change the logo in the display to your company name, protection function for the mode button and fast addressing.
- 4 DMX modes: 1, 2, 5 or 10 channel
- For stand-alone applications, the Sunstrip Active MKII is equipped with 16 built-in patterns as well as a manual dimmer.
- Neutrik Powercon in- and output for the most demanding users on the road.
- For easy mounting equipped with two Wall/Floor brackets as well as several M10 nuts, in order to put your clamp in any desired position.
- For optimal creativity we recommend the special multibracket (30713)
- Power Input: 230V 50Hz
- Power Consumption: 500W
- Control: 16 Built in Programs, Sound Active, Master/Slave, DMX
- Control Display: 4 Digits LED
- Power Connector: Neutrik Powercon in- & output
- Data Connector: XLR In/Out (3 Pin)
- DMX-control via standard DMX-controller
- 16 built-in programs subject to Speed and Dimmer, except for Auto & Full
- Dimmer: 0-100%
- 01 –99 Chase speed adjustment
- Power Failure Memory
- Fuse Protection
- Built-in Dimmerpack
- Digital Addressing
- 10x Osram Lamp Halopar 16, GU10 230V/50W 35° (80418) Included !
- Fuse T6,3A / 250V
- Dimensions: 1000 x 130 x 80 mm(LxWxH)
- Weight: 4,66 Kg
- Accessories: Mounting/Floor brackets (included) and Powercon powercable

⚠ Do not link more than 7 fixtures on a 16A power supply, otherwise the main fuse will blow. ⚠

Overview

Fig. 1

1

1) 10x Osram Halopar 16, GU10 230V/50W 35° (80418)
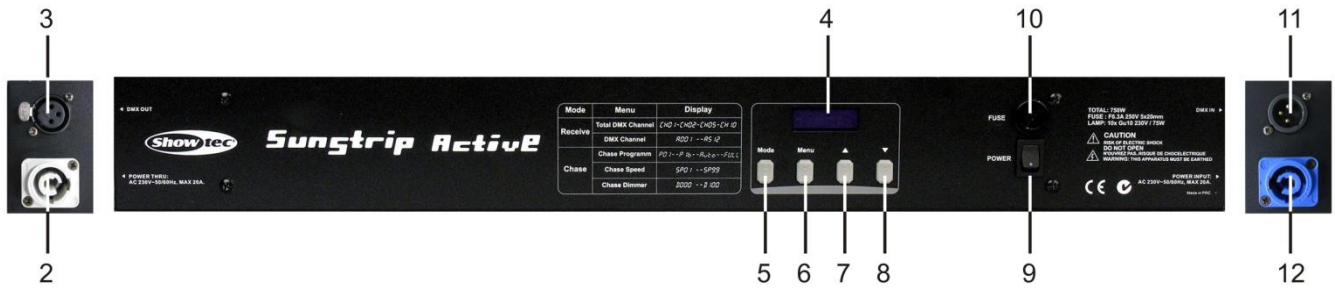
6

Backside

Fig. 2

2) Power Thru (Grey): This connector sends the power to the next unit (Max 20A).
3) DMX OUT
4) LED Display
5) Mode Button
6) Menu Button
7) Up Button
8) Down Button
9) Power On/Off
10) Fuse; 6,3A 250V 5*20mm
11) DMX IN
12) Power Input (Blue): This connector is the input power for this unit (Max 20A).

Installation

Remove all packing materials from the Sunstrip Active. Check that all foam and plastic padding is removed. Connect all cables.

Do not supply power before the whole system is set up and connected properly.
Always disconnect from electric mains power supply before cleaning or servicing.
Damages caused by non-observance are not subject to warranty.

Installing the Lamp

The Showtec Sunstrip Active uses the Halopar 16, GU10 230V/50W 35° (ordercode 80418) bulb 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

1. Loosen the 4 screws on the front of the housing.
2. Gently remove the metal housing.
3. Read lamp instructions. Do not touch the lamp bulb glass. Push and turn the lamp Counter Clockwise and remove the lamp. 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.).
4. Insert the lamp pins into the small holes in the lamp socket. Push and turn Clockwise to install the lamp. Do the same for the remaining lamps.
5. Put the metal housing back and fasten the screws snugly.

Fig. 3

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

Control Modes

FUNCTIONS:
There are 2 modes: • Chase Mode
                              • DMX512

One Sunstrip Active (Chase Mode)
1. Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
2. When the Sunstrip Active is not connected by a DMX-cable, it functions as a stand-alone device. Please see page 13 for more information about the Chase Mode.

Multiple Sunstrips (DMX Control)
1. Fasten the effect light onto firm trussing. Leave at least 0,5 meter on all sides for air circulation.
2. Plug the end of the electric mains power cord into a proper electric power supply socket.
3. Always use a safety cable (ordercode 70140 / 70141).
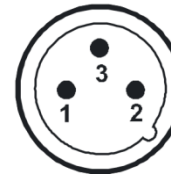4. Use a 3-p XLR cable to connect the Sunstrip Active.

Occupation of the XLR-connection:

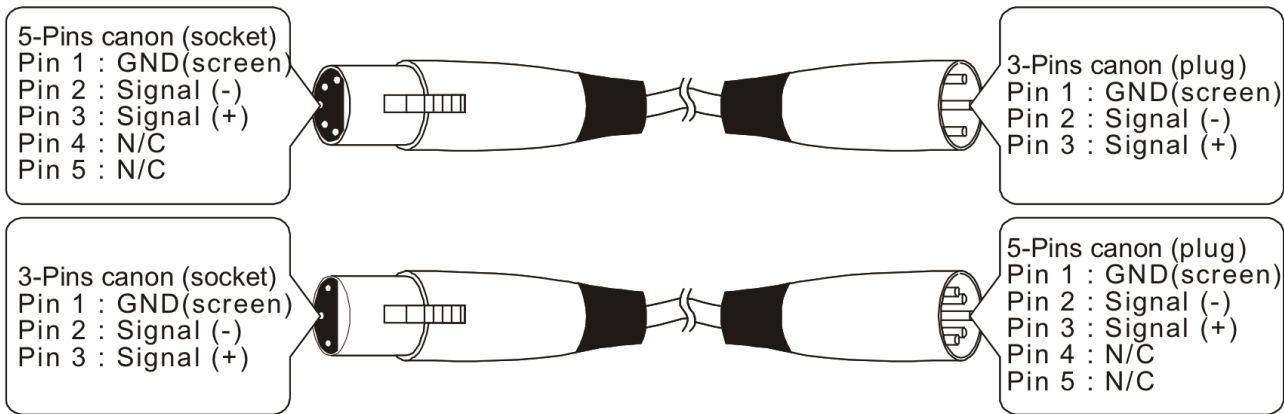**DMX-OUTPUT**
XLR mounting-socket:

1 - Ground
2 - Signal (-)
3 - Signal (+)

DMX-input
XLR mounting-plug

1 - Ground
2 - Signal (-)
3 - Signal (+)

The transformation of the controller line of 3 pins and 5 pins (plug and socket)

5-Pins canon (socket)
Pin 1 : GND(screen)
Pin 2 : Signal (-)
Pin 3 : Signal (+)
Pin 4 : N/C
Pin 5 : N/C

3-Pins canon (plug)
Pin 1 : GND(screen)
Pin 2 : Signal (-)
Pin 3 : Signal (+)

3-Pins canon (socket)
Pin 1 : GND(screen)
Pin 2 : Signal (-)
Pin 3 : Signal (+)

5-Pins canon (plug)
Pin 1 : GND(screen)
Pin 2 : Signal (-)
Pin 3 : Signal (+)
Pin 4 : N/C
Pin 5 : N/C

5. Link the units as shown in (figure 4), Connect a DMX signal cable from the first unit's DMX "out" socket to the second unit's "in" socket. Repeat this process to link the second, third, and fourth units.
6. Supply electric power: Plug the end of the mains power cord into proper electric power supply sockets. Do so for all units and the controller.

Multiple Sunstrips Pro Set Up

DMX 512 ↑

120Ω

Max. 30 Sunstips

Fig. 4
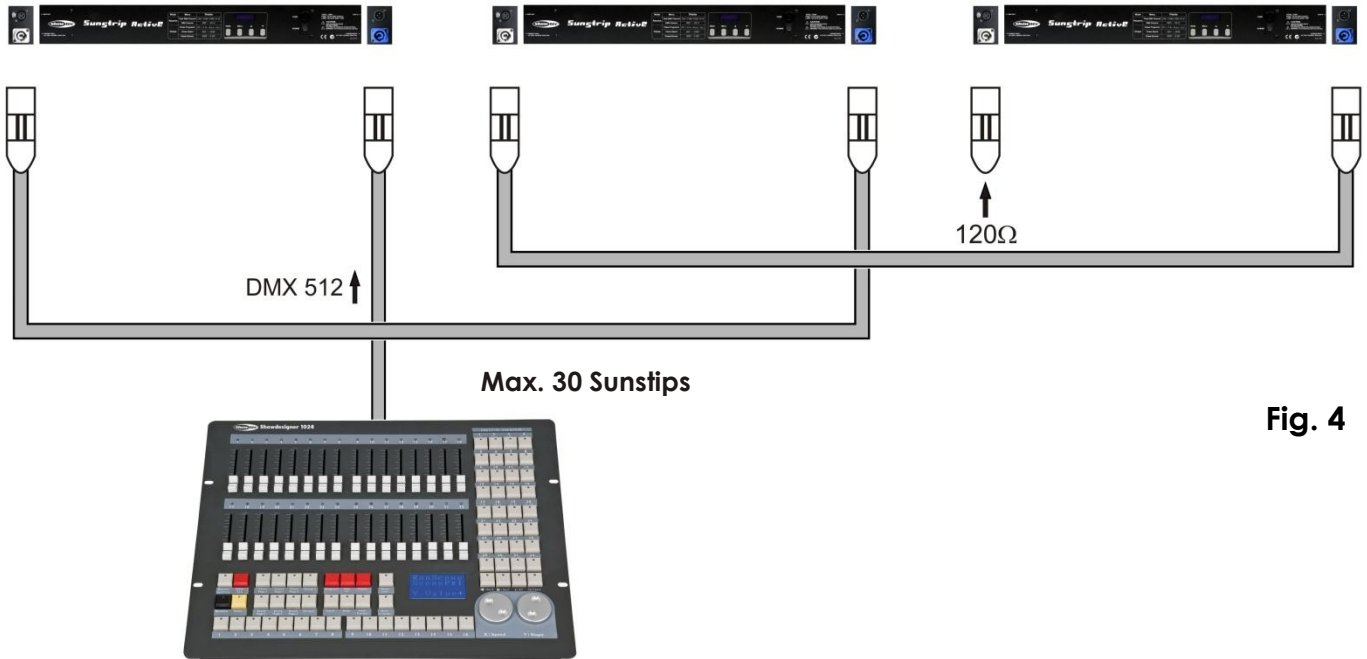
Note : Link all DMX cables before connecting electric power

7. Do not supply power before the whole system is set up and connected properly. Design your show according to your DMX controller functions. See page 12 for more about DMX programming.

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 on 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 one 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 number of Sunstrips on a power link (240V): 7 fixtures
Maximum recommended DMX data link distance: 100 meters
Maximum recommended number of Sunstrips on a DMX data link: 30 fixtures

Data Cabling

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

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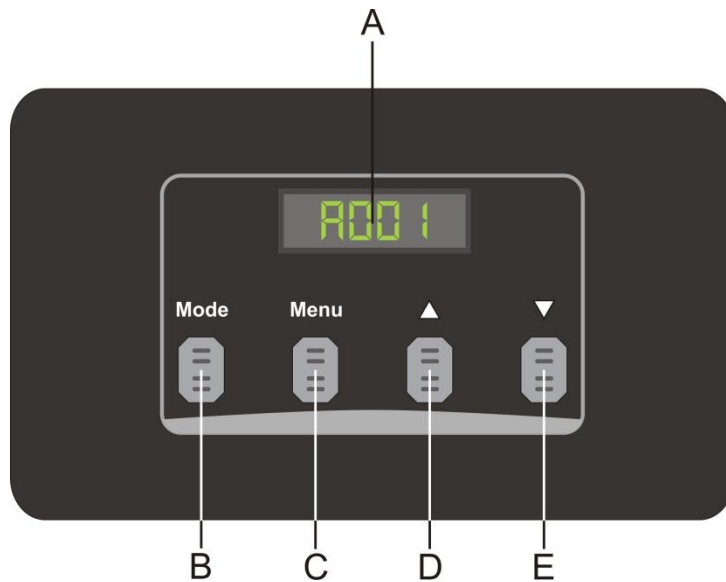
Control Panel

Fig. 5

A. LED Display   **D.** Up Button
B. MODE Button   **E.** Down Button
C. MENU Button

DMX 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.

DMX Addressing

The control panel on the front side of the base allows you to assign the DMX fixture address, which is the
first channel from which the Sunstrip will respond to the controller.
Please note when you use the controller, the unit has max. **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(001)**; the DMX address of the second Sunstrip
should be **1+10=11**; the DMX address of the third Sunstrip should be **11+10=21**, etc.
Please, be sure that you don't have any overlapping channels in order to control each Sunstrip correctly.
If two or more Sunstrips are addressed similarly, they will work similarly.
For address settings, please refer to the instructions under "Addressing' (menu d001)

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 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 detective, or the signal wires are
   swapped in the input connector.

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

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Menu Overview
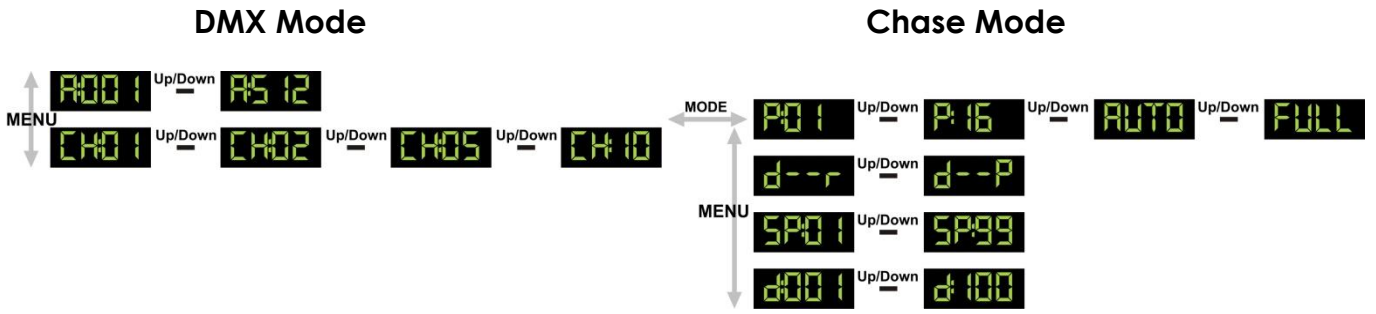
DMX Mode	Chase Mode

The Sunstrip will only show Showtec at start-up !

The logo will remain in the display for 30 seconds.

Control Modes

FUNCTIONS:

There are 2 modes: • Chase Mode (P)
                    • 1, 2, 5 or 10 Channel DMX Dimmer (A)

In DMX Mode , you can select: • DMX Address (A)
                               • Channel (CH)

In Chase Mode, you can select: • Chase Program (P), Auto, Full
                                • Chase Direction (d-r or d-p)
                                • Chase Dimmer (d)
                                • Chase Speed (SP)

Mode	Menu	Display
Receive	Total DMX Channel	CH01-CH02-CH05-CH10
	DMX Channel	A001 --A512
Chase	Chase Programm	P01--P16--Auto--FULL
	Chase Speed	SP01 --SP99
	Chase Dimmer	D000 --D100

⚠️ To unlock the display: Press and hold the **MODE** button for 5 seconds. ⚠️
To change your settings, press and hold the **MODE** button for 5 seconds, until the display starts blinking.

DMX Mode

With this menu you can set the DMX address and the required channel mode.
You can only use this mode, when you are using the device as a DMX Dimmer.
This function allows you to set your device as a 1, 2, 5 or 10 Channel DMX Dimmer.

1) Press and hold the **MODE** button for 5 seconds, until the display starts blinking.
   Press the **MODE** or **MENU** button, until the display shows `A001` .

   DMX mode is indicated by an "**A**" followed by 3 digits in the LED Display.
   If the Display shows "**P**", you are in the wrong mode (Chase Mode).
2) You can choose 512 different DMX addresses.
   Use the **UP/DOWN** buttons to select the required address from `A001` — `A512` .

⚠️ When you press and hold the UP and Down button together, the device immediately returns ⚠️
to its standard default address A001.

Setting the Channel Mode

1) Press the **MENU** button, until the display shows `CH:01` .
2) Channel mode is indicated by an "**CH**" followed by 2 digits (**01**, **02**, **05** or **10**) in the LED Display.
   You can press the **UP/DOWN** buttons to set 4 different DMX Modes.
3) You cannot use the **MENU** Button to select the Channel Mode, unless you have selected the DMX Operation Mode.
4) Once you have activated the Channel Mode, you can push the **UP** or **DOWN** button to change the setting from **01**, **02**, **05** or **10**.
5) When **CH:01** is shown in the display, all channels will be controlled by one DMX Channel.
6) When **CH:02** is shown in the display:
   Channel 1-5 will be controlled by DMX Channel 1
   Channel 6-10 will be controlled by DMX Channel 2.
7) When **CH:05** is shown in the display:
   CH1 and CH 2 will be controlled by DMX Channel 1.
   CH3 and CH4 will be controlled by DMX Channel 2.
   CH5 and CH6 will be controlled by DMX Channel 3.
   CH7 and CH8 will be controlled by DMX Channel 4.
   CH9 and CH10 will be controlled by DMX Channel 5.
   You have a total of 5 DMX Channels available.
8) When **CH:10** is shown in the display, each light will be individually controlled by one DMX Channel.
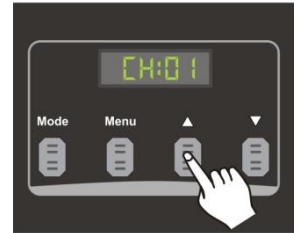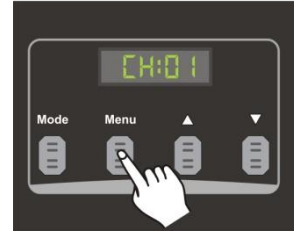
**Note** : Default setting is CH:10; this means 10 DMX Channels, so every light is individually controllable.

CHASE Mode

You can only use this mode, when you are using the device as a Chaser. The unit has 16 built-in programs, Auto and Full. You can select any of these programs to create a chase for a lightshow. You can also control the program's chase speed.

1) Press and hold the **MODE** button for 5 seconds, until the display starts blinking.
2) Press the **MODE** or **MENU** button, until the display shows `P:01` .

   Chase mode is indicated by a "**P**" followed by 2 digits (01-16) in the LED Display.
   If the Display shows "**A**", you are in the wrong mode (DMX Mode).
   If the Chase Mode has been activated, the Chase program Mode starts and this is the Default setting.
3) Once you have activated the Chase Mode, you can push the **UP/DOWN** buttons to change the setting from 01-16, Auto or Full.
4) You can select any of these settings to run at a single time.
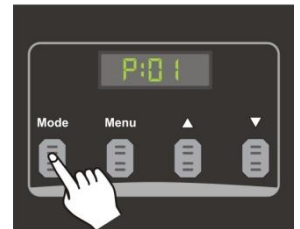
Auto
1. The Sunstrip Active will play all built-in programs, one after the other.
2. The dimmer must also be set, for this function to work, **d>000**.
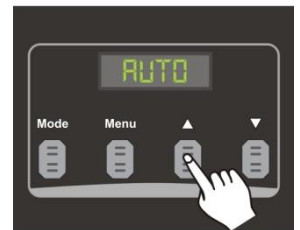
Full
1. All 10 lights on the Sunstrip Active will light up and remain ON at 100% output.
2. The dimmer must also be set, for this function to work, **d>000**.
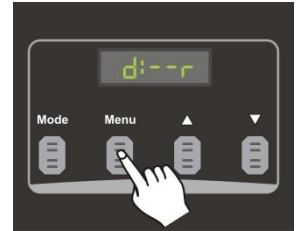
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Program direction (Normal/Reverse)

1. To adjust the Chase Program direction, you must activate the Program Direction Mode.
2. Press the **MENU** Button until the display shows `d--P` .
3. Use the **UP/DOWN** buttons to change the direction.

Regular direction `d--P`

Reverse direction `d--r`

Selecting the Chase Speed

1. To adjust the Chase Speed, you must activate the Chase Speed Mode.
2. Press the **MENU** Button until the display shows "**SP**" followed by 2 digits.
3. Use the **UP/DOWN** buttons to change the chase speed between 01-99.
4. A value of **01** means the **slowest chase speed** of approximately once every 30 sec.
   A value of **99** means the **fastest chase speed** of approximately 0.1 sec
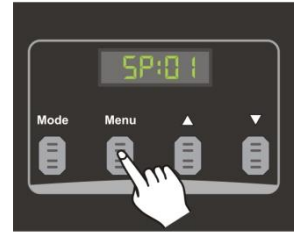
Selecting the Intensity (Dimming) Mode

1. To adjust the output intensity, you must activate the Chase Dimmer Mode.
2. Press and hold the **MODE** button for 5 seconds, until the display starts blinking.
3. Press and hold the **MENU** button until the display shows "**d**" followed by 3 digits
4. Use the **UP/DOWN** buttons to change the dimmer setting from 000-100.
5. A value of **000** means the **weakest output intensity** and a value of **100** means the **highest output**.
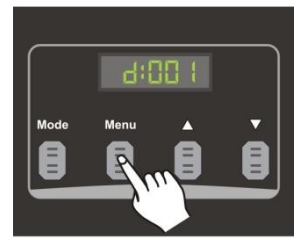
Selecting your own welcome text/logo editing

1. Press and hold the **MODE** button for 5 seconds, until the display starts blinking.
2. Now press and hold the **MODE** button, while pressing the following sequence:
   UP, **UP**, **DOWN**, **DOWN**, **UP**, **DOWN** to enter the Logo edit mode.
3. Press and hold the **UP** button for 2 seconds to select next character you want to edit.
4. If you have made an error and want to edit the previous character, press and hold the **DOWN** button for 2 seconds to select previous character.
5. The logo can hold a maximum of 23 characters. Press the **UP/DOWN** button to select a certain character. Repeat step 3-5 to edit all characters.
6. When you have completed your welcome logo/text, press the **UP/DOWN** button simultaneously, the display will show the created logo.
7. Press **MODE** button for 5 seconds to exit the EDIT mode.

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

DMX Channels

1 Channel   `CH01`

Channel 1 – Dimmer intensity (light 1-10)

0-255	From black to brightest (0 to 100%)

2 Channels   `CH02`

Channel 1 – Dimmer intensity (light 1-5)

0-255	From black to brightest (0 to 100%)

Channel 2 – Dimmer intensity (light 6-10)

0-255	From black to brightest (0 to 100%)

5 Channels   `CH05`

Channel 1 – Dimmer intensity (light 1-2)

0-255	From black to brightest (0 to 100%)

Channel 2 – Dimmer intensity (light 3-4)

0-255	From black to brightest (0 to 100%)

Channel 3 – Dimmer intensity (light 5-6)

0-255	From black to brightest (0 to 100%)

Channel 4 – Dimmer intensity (light 7-8)

0-255	From black to brightest (0 to 100%)

Channel 5 – Dimmer intensity (light 9-10)

0-255	From black to brightest (0 to 100%)

10 Channels `CH10`

Channel 1 – Dimmer intensity (light 1)

0-255	From black to brightest (0 to 100%)

Channel 2 – Dimmer intensity (light 2)

0-255	From black to brightest (0 to 100%)

Channel 3 – Dimmer intensity (light 3)

0-255	From black to brightest (0 to 100%)

Channel 4 – Dimmer intensity (light 4)

0-255	From black to brightest (0 to 100%)

Channel 5 – Dimmer intensity (light 5)

0-255	From black to brightest (0 to 100%)

Channel 6 – Dimmer intensity (light 6)

0-255	From black to brightest (0 to 100%)

Channel 7 – Dimmer intensity (light 7)

0-255	From black to brightest (0 to 100%)

Channel 8 – Dimmer intensity (light 8)

0-255	From black to brightest (0 to 100%)

Channel 9 – Dimmer intensity (light 9)

0-255	From black to brightest (0 to 100%)

Channel 10 – Dimmer intensity (light 10)

0-255	From black to brightest (0 to 100%)

Maintenance

The Showtec Sunstrip 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 lenses 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 connections with a damp cloth. Make sure connections are thoroughly dry before linking equipment or supplying electric power.

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

The operator has to make sure that safety-relating and machine-technical installations are to be inspected by a skilled person once a year.

The following points have to be considered during the inspection:

1. All screws used for installing the device or parts of the device have to be tightly connected and must not be corroded.
2. There may not be any deformations on housings, fixations and installation spots.
3. Mechanically moving parts like axles, eyes and others may not show any traces of wearing.
4. The electric power supply cables must not show any damages or material fatigue.

Changing the Lamp

1. Disconnect mains power supply. Loosen the 4 screws on the front of the housing.
2. Gently remove the metal housing.
3. Follow directions for installing a new lamp, page 8.

Replacing a 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 to do so.

1. Unplug the unit from electric power source.
2. Insert a flat-head 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.
3. Remove the used fuse. If brown or unclear, it is burned out.
4. Insert the replacement fuse into the holder where the old fuse was. Reinsert the fuse cover. Be sure to use a fuse of the same type and specification. See the product specification label for details.

Troubleshooting

No Light

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.

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

Response: Suspect three potential problem areas: the power supply, the lamps or the fuse.

1. Power supply. Check that the unit is plugged into an appropriate power supply.
2. The lamps. Replace the old lamp with a new one with the same specifications. See page 8 for replacing lamps.
3. The fuse. Replace the fuse. See page 17 for replacing the fuse.
4. If all of the above appears to be O.K., plug the unit in again.
5. If you are unable to determine the cause of the problem, do not open the Sunstrip, as this may damage the unit and the warranty will become void.
6. Return the device to your Showtec dealer.

No Response to DMX

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

1. Check the DMX setting. Make sure that DMX addresses are correct.
2. Check the DMX cable: Unplug the unit; change the DMX cable; then reconnect to electrical power. Try your DMX control again.
3. 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.
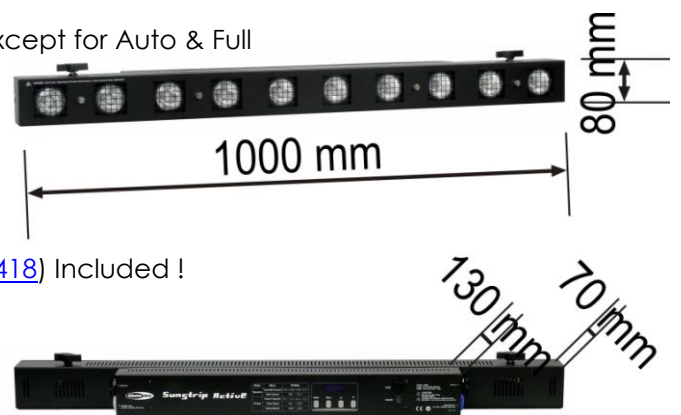
See below for more problem solving.

Problem	Probable cause(s)	Remedy
One or more fixtures are completely dead.	No power to the fixture	• Check that power is switched on and cables are plugged in.
	Internal fuse blown.	• Contact your Showtec dealer.
Fixtures reset correctly, but all respond erratically or not at all to the controller.	The controller is not connected.	• Connect controller.
	3-pin XLR Out of the controller does not match XLR Out of the first fixture on the link (i.e. signal is reversed).	• Install a phase reversing cable between the controller and the first fixture on the link.
Fixtures reset correctly, but some respond erratically or not at all to the controller.	Poor data quality	• Check data quality. If much lower than 100 percent, the problem may be a bad data link connection, poor quality or broken cables, missing termination plug, or a defective fixture disturbing the link.
	Bad data link connection	• Inspect connections and cables. Correct poor connections. Repair or replace damaged cables.
	Data link not terminated with 120 Ohm termination plug.	• Insert termination plug in output jack of the last fixture on the link.
	Incorrect addressing of the fixtures.	• Check address setting.
	One of the fixtures is defective and disturbs data transmission on the link.	• Bypass one fixture at a time until normal operation is regained: unplug both connectors and connect them directly together. • Have the defective fixture serviced by a qualified technician.
	3-pin XLR Out on the fixtures does not match (pins 2 and 3 reversed).	• Install a phase-reversing cable between the fixtures or swap pin 2 and 3 in the fixture, that behaves erratically.
No light	The power supply settings do not match local AC voltage and frequency.	• Disconnect fixture. Check settings and correct if necessary.
	LEDs damaged	• Disconnect fixture and return to your dealer.

Product Specification

Model: Showtec Sunstrip Active
- Successor of the already popular Sunstrip Active
- This version offers extra features such as: reverse function, opportunity to change the logo in the display to your company name, protection function for the mode button and fast addressing.
- 4 DMX modes: 1, 2, 5 or 10 channel
- For stand-alone applications, the Sunstrip Active MKII is equipped with 16 built-in patterns as well as a manual dimmer.
- Neutrik Powercon in- and output for the most demanding users on the road.
- For easy mounting equipped with two Wall/Floor brackets as well as several M10 nuts, in order to put your clamp in any desired position.
- For optimal creativity we recommend the special multibracket (30713)
- Power Input: 230V 50Hz
- Power Consumption: 500W
- Control: 16 Built in Programs, Sound Active, Master/Slave, DMX
- Control Display: 4 Digits LED
- Power Connector: Neutrik Powercon in- & output
- Data Connector: XLR In/Out (3 Pin)
- DMX-control via standard DMX-controller
- 16 built-in programs subject to Speed and Dimmer, except for Auto & Full
- Dimmer: 0-100%
- 01 –99 Chase speed adjustment
- Power Failure Memory
- Fuse Protection
- Built-in Dimmerpack
- Digital Addressing
- 10x Osram Lamp Halopar 16, GU10 230V/50W 35° (80418) Included !
- Fuse T6,3A / 250V
- Dimensions: 1000 x 130 x 80 mm(LxWxH)
- Weight: 4,66 Kg
- Accessories: Mounting/Floor brackets (included)

Minimum distance:
Minimum distance from flammable surfaces: 0.5m
Minimum distance to lighted object: 0.8m

Lamp
Allowed lamp models*:
Osram Halopar 16, GU10 230V/50W 35° (2000 hr, Beam angle: 10°) ordercode 80418
Colour Temp.: 2900K
Candela: 600
Lifetime/H: 2000
Socket: GU10

Showtec Multi Mirror GU10 50 mm 240V/75W GU10 (500 hr) ordercode 82382

*: Versions for other lamps may be produced. Please check the specification label on your product.

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

CE

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