

# *User manual*



## **Product Specifications**

- 4 DMX modes: 1, 2, 5 or 10 channel
- For stand-alone applications, the Sunstrip 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.
- 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° 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°)

Colour Temp.: 2900K

Candela: 600

Lifetime/H: 2000

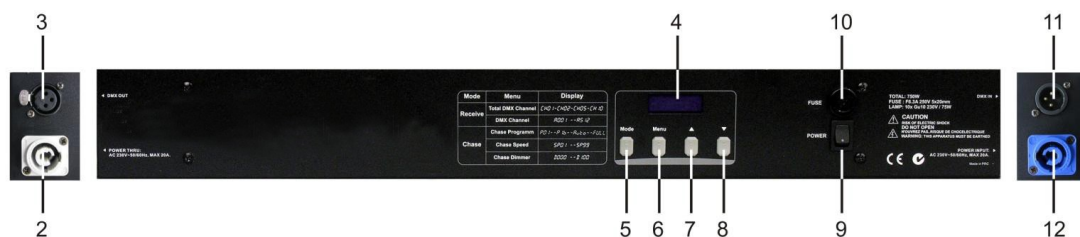
Socket: GU10

## Overview



Fig. 1

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



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).

## 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 (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 is not connected by a DMX-cable, it functions as a stand-alone device.

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
4. Use a 3-p XLR cable to connect the Sunstrip.

**Occupation of the XLR-connection:**

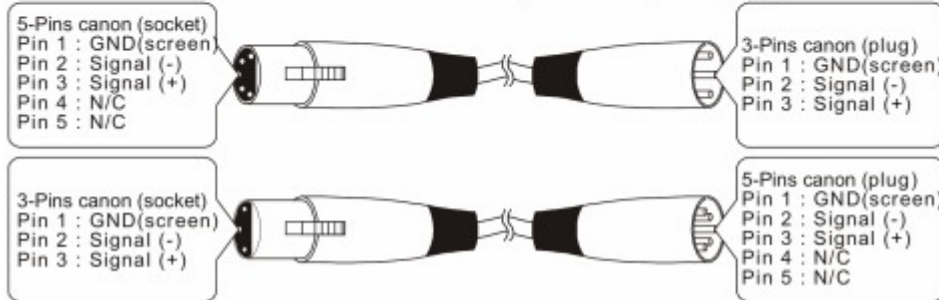
**DMX-OUTPUT  
XLR mounting-socket:**



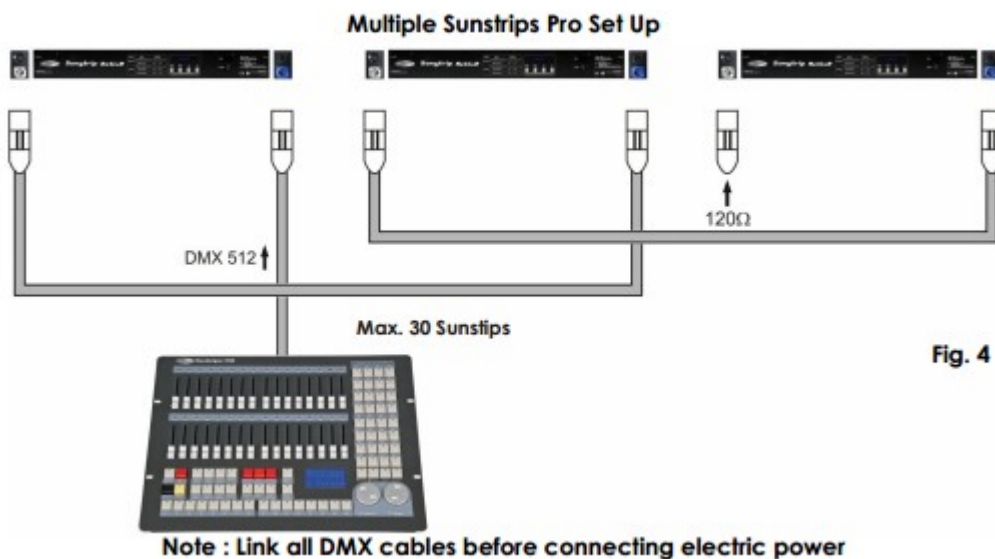
**DMX-input  
XLR mounting-plug**



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



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



## Control Panel

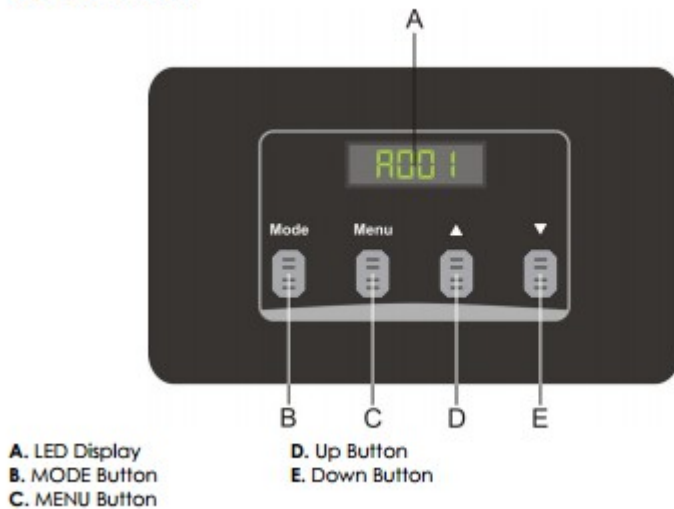


Fig. 5

### 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.

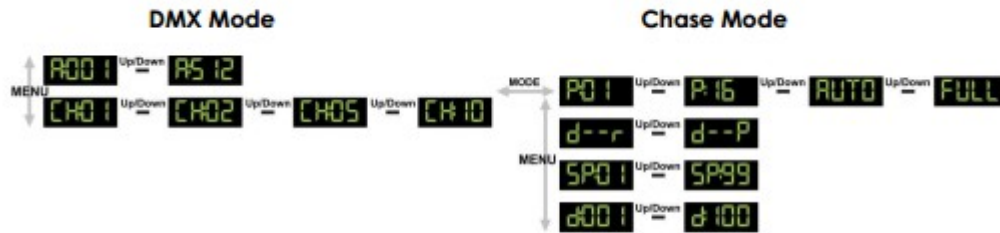
**Note:** After switching on, the Sunstrip will automatically detect whether DMX 512 data is received or not.

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 defective, 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.

## Menu Overview



The Sunstrip will only show Showtec at start-up !

**SHOWTEC**

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-CH 10
	DMX Channel	ADDR -- RS 12
Chase	Chase Programm	PD 1 -- P 16 -- AUTO -- FULL
	Chase Speed	SPD 1 -- SP99
	Chase Dimmer	d000 -- d 100

**⚠** 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 **ADDR 1**.  
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 **ADDR 1** Up/Down **RS 12**.



**⚠** 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**.



### 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	P	@	S	S		I
8	8		Space	r	R	,	H
7	7	-	-	q	Q	H	H
6	6	z	Z	P	P	G	G
5	5	y	Y	o	O	F	F
4	4	H	X	n	M	E	E
3	3	B	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 **CH 10**

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%)

