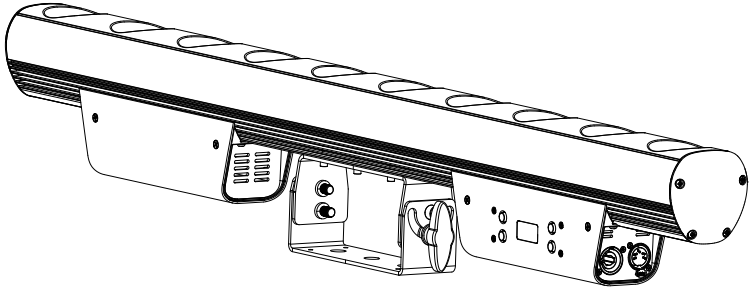


SHOWPRO

esunstrip
SHIFTER

Reproduces the look and feel
of the classic halogen sunstrip effect



USER MANUAL

EN

TABLE OF CONTENTS

Safety

General instructions

Warnings and installation precautions

1 Introduction

1.1 Features

1.2 Technical specifications

1.3 Dimensions

1.4 Overview

1.5 Power and DMX linking

1.6 Photometrics

2 Functions

2.1 Control Menu Overview

2.2 Function Menu

3 Operation

3.1 Connection of the DMX line

3.2 Construction of the DMX termination

3.3 DMX control

Packing content

- ESUNSTRIP SHIFTER
 - Power cable
 - User manual
-



WARNING! Before carrying out any operations with the unit, carefully read this instruction manual and keep it with care for future reference. It contains important information about the installation, usage and maintenance of the unit.



SAFETY

General instruction

- The products referred to in this manual conform to the European Community Directives and are therefore marked with **CE**.
- The unit is supplied with hazardous network voltage (230V~). Leave servicing to skilled personnel only. Never make any modifications on the unit not described in this instruction manual, otherwise you will risk an electric shock.
- Connection must be made to a power supply system fitted with efficient earthing (Class I appliance according to standard EN 60598-1). It is, moreover, recommended to protect the supply lines of the units from indirect contact and/or shorting to earth by using appropriately sized residual current devices.
- The connection to the main network of electric distribution must be carried out by a qualified electrical installer. Check that the main frequency and voltage correspond to those for which the unit is designed as given on the electrical data label.
- This unit is not for home use, only professional applications.
- Never use the fixture under the following conditions:
 - in places subject to vibrations or bumps;
 - in places with an ambient temperature of over 45°C.
- Make certain that no inflammable liquids, water or metal objects enter the fixture.
- Do not dismantle or modify the fixture.
- All work must always be carried out by qualified technical personnel. Contact the nearest sales point for an inspection or contact the manufacturer directly.
- If the unit is to be put out of operation definitively, take it to a local recycling plant for a disposal which is not harmful to the environment.



Warnings and installation precautions

- If this device will be operated in any way different to the one described in this manual, it may suffer damage and the guarantee becomes void. Furthermore, any other operation may lead to dangers like short circuit, burns, electric shock, etc.
- Always inspect the mechanical and electrical parts of the unit before fitting to check they are not damaged. Do not operate the product if you see damage. If the part is damaged, it has to be replaced by a qualified technician.
- When hanging the product, always use a safety cable. When carrying out any work, always comply scrupulously with all the regulations (particularly regarding safety) currently in force in the country in which the fixture's being used.
- Before starting any maintenance work or cleaning the fixture, cut off power from the main supply.
- Install the fixture in a well ventilated place.
- Make sure that the device is not exposed to extreme heat, moisture or dust.
- Keep any inflammable material at a safe distance from the fixture.
- The lamp (LED) shall be changed if it has become damaged or thermally deformed.
- Never look directly at the light beam. Please note that fast changes in lighting, e. g. flashing light, may trigger epileptic seizures in photosensitive persons or persons with epilepsy.
- Never remove warning or informative labels from the unit.
- For replacement use fuses of same type and rating only.

- 1 - INTRODUCTION

ESUNSTRIP SHIFTER is a pixel mappable LED effect that reproduces the look and feel of the classic halogen sunstrip effect.

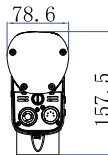
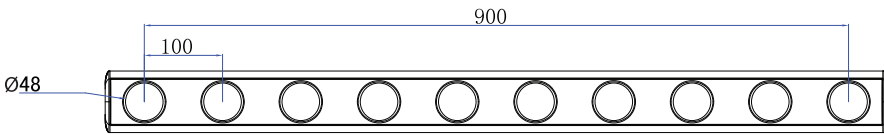
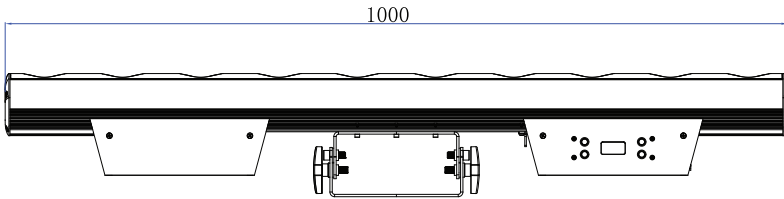
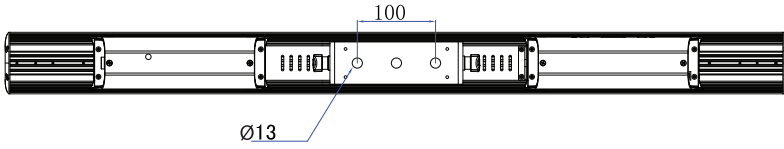
1.1 FEATURES

- "Red shift" color shifting from amber to 3100K white
- Individual pixel control for stunning pixel-mapped effects
- Variety of dimming curves to accurately evoke the look and feel of this classic effect
- Selectable LED frequencies (from 600Hz ~ 25kHz) for flicker-free performance on camera
- DMX control, Master/Slave

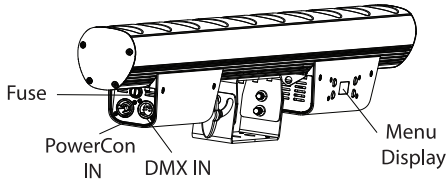
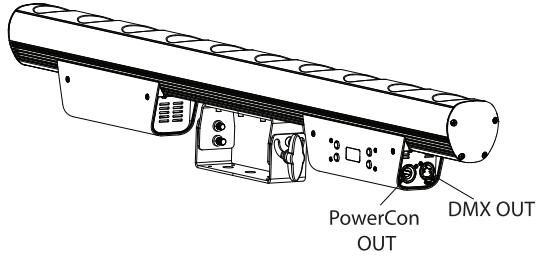
1.2 SPECIFICATIONS

Light Source:	10 x 9W 3100K White + Amber LEDs
Beam Angle:	16°
Field Angle:	37°
Output:	5658 lm / 1520 LUX @ 5 meters
Color Output:	Amber to Warm White
Pixel Matrix:	10 x 1
Strobe:	0-30 Hz
Dimming:	4 dimming curve modes
Control:	DMX
DMX Channels:	1 / 3 / 5 / 6 / 8 / 9 / 10 / 21 / 27
Display:	OLED function menu with 4 touch button
Mains:	100V-240V, 50/60Hz
Consumption:	151W
Power Linking:	Up to 13 units @ 230V / Up to 6 units @ 120V
Power connections:	PowerCon In/Out
Data connections:	XLR In/Out for DMX
Housing:	Plastic and steel
Finish:	Matte black
IP rating:	IP20
Cooling:	Convection
Dimensions:	1000 x 79 x 158 MM
Weight:	6 KG

1.3 DIMENSIONS

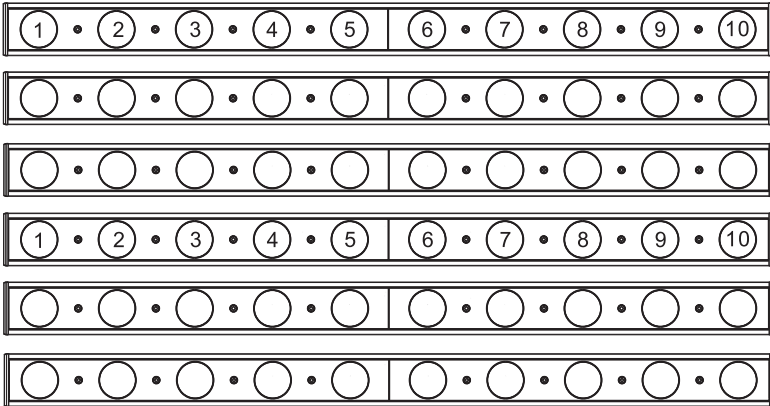


1.4 OVERVIEW



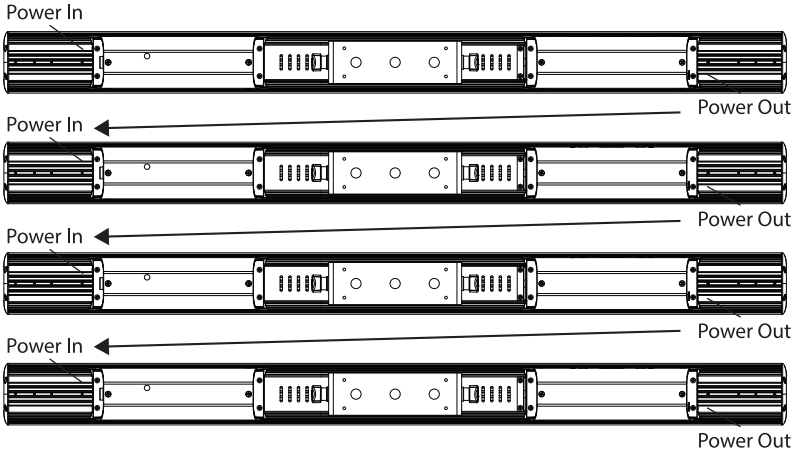
Front View

Numbers show below describe pixel position corresponding to DMX channel order

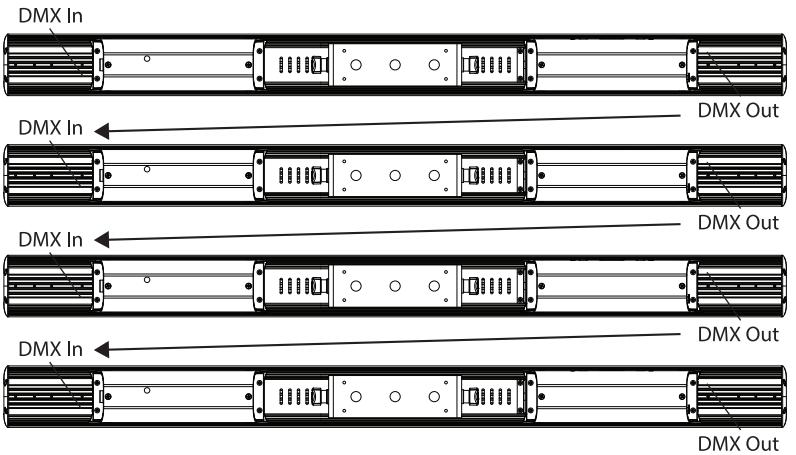


1.5 POWER AND DMX LINKING ILLUSTRATION

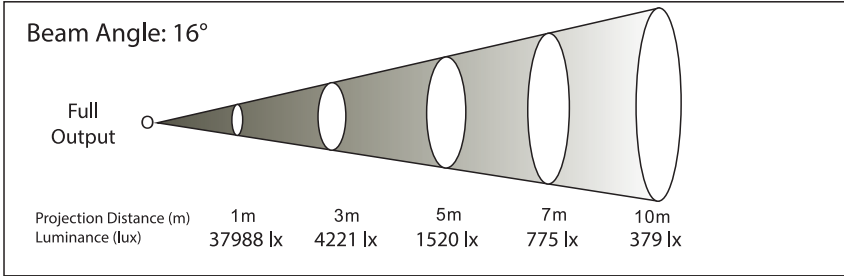
**POWER
LINKING**



**DMX
LINKING**



1.6 PHOTOMETRICS



- 2 - FUNCTIONS

2.1 CONTROL MENU OVERVIEW

CONTROL PANEL

BUTTON	FUNCTION
Menu	Selects operating mode or exits submenus
Up	Scrolls up through option lists or selects higher value
Down	Scrolls down through option lists or selects lower value
Enter	Activates displayed menu option or selected value

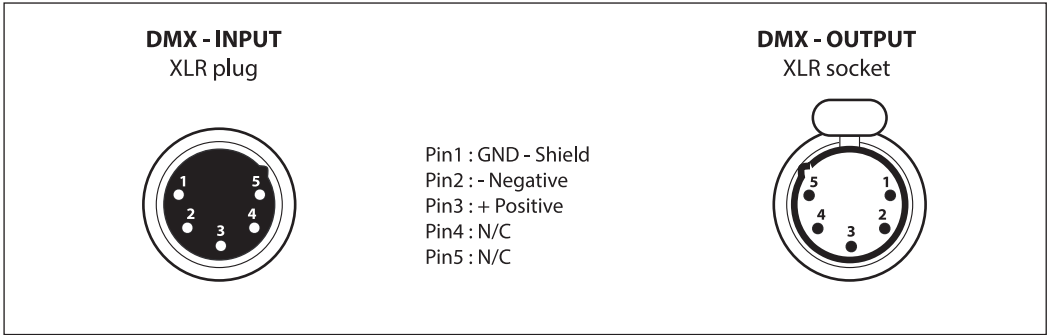
2.2 FUNCTION MENU

NO.	Main Menu	Submenu 2	Submenu 3	Submenu 4	Remark
1	DMX Address	<001>			Default : 001
2	DMX Channel	1 Ch			Default : 8 CH
		3 Ch			
		5 Ch			
		6 Ch			
		8 Ch			
		9 Ch			
		10 Ch			
		21 Ch			
3	Red Shift	On			Default : On
		Off			
4	Static	Fixed Color	Amber		Default : Amber & White
			White		
			Amber & White		
		Manual Color Mixer	Amber	<0-255>	
White	<0-255>				
5	Auto Show	Auto 1	<1-100>		Default : Auto Show 6 Speed : 100
		Auto 2	<1-100>		
		Auto 3	<1-100>		
		Auto 4	<1-100>		
		Auto 5	<1-100>		
		Auto 6	<1-100>		
6	Master/Slave	Master			Default : Slave
		Slave			
7	Dimmer Mode	Off			Default : OFF Select dimmer curves 1-3
		Dimmer 1			
		Dimmer 2			
		Dimmer 3			
8	LED Frequency	600Hz			Default : 1200Hz
		1200 Hz			
		2000 Hz			
		4000 Hz			
		6000 Hz			
		25kHZ			
9	Back Light	On			Default : On Select auto display off delay time
		105			
		205			
		305			
10	Information	Fixture Hours	<9999H>		
		Version	<V1.0>		
		21A40131****			
11	Reset Factory	No			Default : No
		Yes			

3.1 CONNECTION OF THE DMX LINE

DMX connection employs standard XLR connectors. Use shielded pair-twisted cables with 120Ω impedance and low capacity.

The following diagram shows the connection mode:



ATTENTION

The screened parts of the cable (sleeve) must never be connected to the system's earth, as this would cause faulty fixture and controller operation.

Over long runs can be necessary to insert a DMX level matching amplifier.

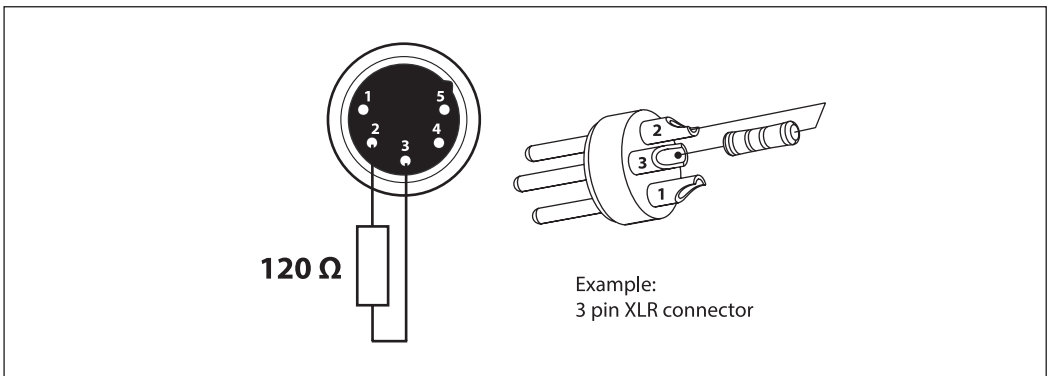
For those connections the use of balanced microphone cable is not recommended because it cannot transmit control DMX data reliably.

- Connect the controller DMX input to the DMX output of the first unit.
- Connect the DMX output to the DMX input of the following unit. Connect again the output to the input of the following unit until all the units are connected in chain.
- When the signal cable has to run longer distance is recommended to insert a DMX termination on the last unit.

3.2 CONSTRUCTION OF THE DMX TERMINATION

The termination avoids the risk of DMX 512 signals being reflected back along the cable when they reach the end of the line: under certain conditions and with certain cable lengths, this could cause them to cancel the original signals.

The termination is prepared by soldering a 120Ω 1/4 W resistor between pins 2 and 3 of the 5-pin male XLR connector, as shown in figure.



3.3 DMX CONTROL

3 CH	Function	Value	Percent/Setting	Remark
1	White	000-255	0~100%	
2	Amber	000-255	0~100%	Disabled when "red shift" is "on"
3	Red Shift On/OFF	000-000	ON	Automatic control of amber
		001-255	OFF	

5 CH	Function	Value	Percent/Setting	Remark
1	Dimmer	000-255	0~100%	
2	White	000-255	0~100%	
3	Amber	000-255	0~100%	Disabled when "red shift" is "on"
4	Strobe	000-010	No Function	
		011-125	Strobe Slow to Fast	
		126-255	Strobe Random	
5	Red Shift On/OFF	000-000	ON	Automatic control of amber
		001-255	OFF	

6 CH	Function	Value	Percent/Setting	Remark
1	Dimmer	000-255	0~100%	
2	Dimmer Fine	000-255	0~100%	
3	White	000-255	0~100%	
4	Amber	000-255	0~100%	Disabled when "red shift" is "on"
5	Strobe	000-010	No Function	
		011-125	Strobe Slow to Fast	
		126-255	Strobe Random	
6	Red Shift On/OFF	000-000	ON	Automatic control of amber
		001-255	OFF	

3.3 DMX CONTROL

8 CH	Function	Value	Percent/Setting	Remark
1	Dimmer	000-255	0~100%	
2	White	000-255	0~100%	
3	Amber	000-255	0~100%	Disabled when "red shift" is "on"
4	Strobe	000-010	No Function	
		011-125	Strobe Slow to Fast	
		126-255	Strobe Random	
5	Auto programs	000-010	No Function	
		011-032	Auto programs 1	
		033-076	Auto programs 2	
		077-120	Auto programs 3	
		121-164	Auto programs 4	
		165-208	Auto programs 5	
		209-255	Auto programs 6	
6	Auto Speed	000-255	Auto Speed Slow to Fast	
7	Red Shift On/OFF	000-000	ON	Automatic control of amber
		001-255	OFF	
8	Dimmer Speed Mode	000-051	No function	Hold 3S to override and set
		052-101	Dimmer speed mode off	
		102-152	Dimmer speed mode 1	
		153-203	Dimmer speed mode 2	
		204-255	Dimmer speed mode 3	

3.3 DMX CONTROL

9 CH	Function	Value	Percent/Setting	Remark
1	Dimmer	000-255	0~100%	
2	Dimmer Fine	000-255	0~100%	
3	White	000-255	0~100%	
4	Amber	000-255	0~100%	Disabled when "red shift" is "on"
5	Strobe	000-010	No Function	
		011-125	Strobe Slow to Fast	
		126-255	Strobe Random	
6	Auto programs	000-010	No Function	
		011-032	Auto programs 1	
		033-076	Auto programs 2	
		077-120	Auto programs 3	
		121-164	Auto programs 4	
		165-208	Auto programs 5	
		209-255	Auto programs 6	
7	Auto Speed	000-255	Auto Speed Slow to Fast	
8	Red Shift On/OFF	000-000	ON	Automatic control of amber
		001-255	OFF	
9	Dimmer Speed Mode	000-051	No function	Hold 3S to override and set
		052-101	Dimmer speed mode off	
		102-152	Dimmer speed mode 1	
		153-203	Dimmer speed mode 2	
		204-255	Dimmer speed mode 3	

3.3 DMX CONTROL

1 CH	Function	Value	Percent/Setting
1	Master Dimmer	000-255	0~100%

10 CH	Function	Value	Percent/Setting
1	White 1	000-255	0~100%
2	White 2	000-255	0~100%
3	White 3	000-255	0~100%
4	White 4	000-255	0~100%
5	White 5	000-255	0~100%
6	White 6	000-255	0~100%
7	White 7	000-255	0~100%
8	White 8	000-255	0~100%
9	White 9	000-255	0~100%
10	White 10	000-255	0~100%

21 CH	Function	Value	Percent/Setting	Remark
1	White 1	000-255	0~100%	
2	Amber 1	000-255	0~100%	Disabled when "red shift" is "on"
3	White 2	000-255	0~100%	
4	Amber 2	000-255	0~100%	Disabled when "red shift" is "on"
.....				
17	White 9	000-255	0~100%	
18	Amber 9	000-255	0~100%	Disabled when "red shift" is "on"
19	White 10	000-255	0~100%	
20	Amber 10	000-255	0~100%	Disabled when "red shift" is "on"
21	Red Shift On/OFF	000-000	ON	Automatic control of amber
		001-255	OFF	

3.3 DMX CONTROL

27 CH	Function	Value	Percent/Setting	Remark
1	Dimmer	000-255	0~100%	
2	Dimmer Fine	000-255	0~100%	
3	White 1	000-255	0~100%	
4	Amber 1	000-255	0~100%	Disabled when "red shift" is "on"
5	White 2	000-255	0~100%	
6	Amber 2	000-255	0~100%	Disabled when "red shift" is "on"
.....				
19	White 9	000-255	0~100%	
20	Amber 9	000-255	0~100%	Disabled when "red shift" is "on"
21	White 10	000-255	0~100%	
22	Amber 10	000-255	0~100%	Disabled when "red shift" is "on"
23	Strobe	000-010	No Function	
		011-125	Strobe Slow to Fast	
		126-255	Strobe Random	
24	Auto programs	000-010	No Function	
		011-032	Auto programs 1	
		033-076	Auto programs 2	
		077-120	Auto programs 3	
		121-164	Auto programs 4	
		165-208	Auto programs 5	
209-255	Auto programs 6			
25	Auto Speed	000-255	Auto Speed Slow to Fast	
26	Red Shift On/OFF	000-000	ON	Automatic control of amber
		001-255	OFF	
27	Dimmer Speed Mode	000-051	No function	Hold 3S to override and set
		052-101	Dimmer speed mode off	
		102-152	Dimmer speed mode 1	
		153-203	Dimmer speed mode 2	
		204-255	Dimmer speed mode 3	

SHOWPRO