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1- SYMBOLS

Graphic symbols used on this manual:



THIS SYMBOL INDICATES A HOT SURFACE



THIS SYMBOL INDICATES ELECTRIC SHOCK RISK



THIS SYMBOL INDICATES GENERAL RISK



THIS SYMBOL MEANS YOU CAN PLACE THE UNIT ON NORMALLY FLAMMABLE SURFACES



THIS SYMBOL INDICATES THE MINIMUM DISTANCE TO BE KEPT BETWEEN THE DEVICE AND THE LIT OBJECT



THIS SYMBOL INDICATES THE EUROPEAN COMMUNITY DIRECTIVE 2002/96/EC ON WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT (WEEE)

2- GENERAL WARNING

Read the instruction contained in this user manual carefully, as they give important information regarding safety during installation, use and maintenance.

The device is not for domestic use and must be installed by a qualified electrician or experienced person.

Always disconnect the device from the mains before maintenance.

The device must always be equipped with an efficient ground connection.

3- GENERAL WARRANTY CONDITIONS

The unit is guaranteed for 36 months from the date of purchase against manufacturing material defects.

4- TECHNICAL FEATURES

OVERVIEW

SCENA LED 80 FR is a compact, lightweight, DMX-controlled projector featuring a single high-power LED, and a wide excursion zoom, enabling it to be used as a Beam or a very wide Wash.

SCENA LED 80 FR is a modern alternative to conventional lights, improving light quality, flexibility of use and installation, energy savings and component duration. In fact the fixture doesn't heat up, and the projection is always flicker free. Also, the dimming curves are similar to those of halogen lamps.

PRODUCT CODES:

03.TS031.46.F	SCENA LED 80 FR *WHITE 3000K *Black finish
03.TS032.46.F	SCENA LED 80 FR *WHITE 4000K *Black finish
03.TS033.46.F	SCENA LED 80 FR *WHITE 5000K *Black finish

LED Technology

1 x White LED (3000K), 7700 lm, CRI>90; 4000K and 5000K also available (2700K, 5600K or 6500K on request)

Optical group

Ø112mm Fresnel lens 14° - 77° linear zoom

Control

2 DMX channels (default)4 digit 7 segments display + 4 soft keys

Connection

Power supply: POWERCON In/Out panel connectors

DMX: XLR 5 poles In/Out panel connectors

Power supply

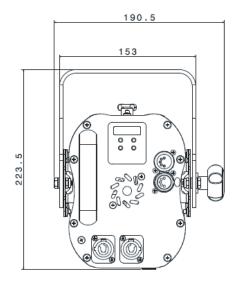
Electronic full-range AC 90-260V 50-60 Hz

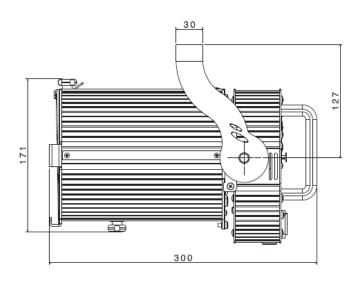
Consumption: 80W Max

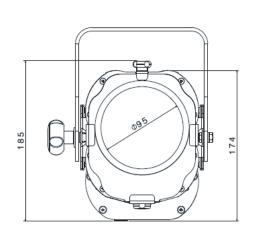
Weight

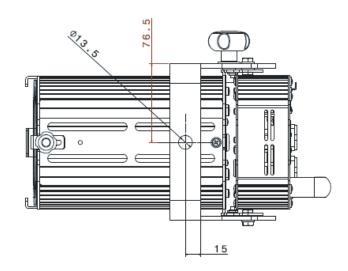
3,7 Kg

DIMENSIONS









5- ACCESSORIES

As standard

- 1 x User's Manual
- 1 x POWERCON male cable connector (D.T.S. Code 0520P014)
- 1 x XLR 5 pins male cable connector (D.T.S. Code 0508B028)
- 1 x XLR 5 pins female cable connector (D.T.S. Code 0508B027)
- 1 x Filterframe for SCENA COMPACT *Black finish (D.T.S. Code 02M00422.46)

Optional (on request)

- "C" Clamp G60 (Max. Load. 50 Kg) *Black finish (D.T.S. Code 0521A004)
- Barndoor for SCENA COMPACT *Black finish (D.T.S. Code 03.TA206)

6- IMPORTANT SAFETY INFORMATION

6.1 Fire prevention:

It is permissible to place the unit on normally flammable surfaces. Suitable for mounting on normally flammable materials surfaces greater than 200°C with some combustion time lag.

Minimum distance from the closest illuminable surface: 30 cm. LED 030 cm Replace any blown or damaged fuses only with those of identical value (2AT).

6.2 Prevention from electric shock:

High voltage is present inside the unit. Unplug the unit prior to performing any operation which involves touching the inside of the unit.

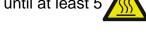
This equipment must be grounded, do not connect to non-grounded supplies. The use of a thermal magnetic circuit breaker is recommended for each SCENA LED 80 unit. Use only AC supplies 90-260V 50-60 Hz.

SCENA LED 80 should never be located in position exposed to rain or in areas of extreme humidity.

A good air ventilation is essential for proper equipment work.

6.3 Safety:

The external surface of the unit may exeed 50°C; never handle the unit until at least 5 minutes have elapsed since the unit was turned off.



Never install the unit in an enclosed area lacking sufficient air flow.

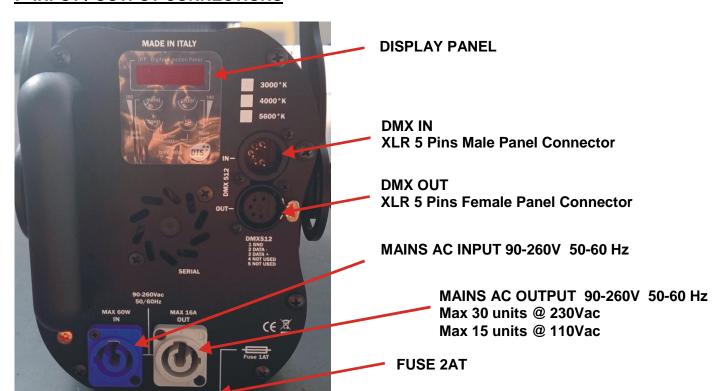
The ambient temperature should not exeed 40°C and should not be lower than -10°C.

6.4 Waste Electrical and Electronic equipment (WEEE) directive:

The unit, accessories and packaging should be sorted for environmetal-friendly recycling.

For EC countries: according to the European Directive 2002/96/EC for Waste Electrical and Electronic Equipment and its implementation into national right, luminaires that are no longer usable must be collected separately and disposed of in an environmentally correct manner.

7- INPUT / OUTPUT CONNECTIONS



8- DMX SIGNAL CONNECTION:

The unit operates using a digital DMX 512 signal.

Connection between the controller and the unit or between units must be carried out using a two pair screened Ø 0.5 mm.

Ensure that the conductors do not touch each other.

Do not connect the cable ground to the DMX connector chassis.

The plug housing must be isolated. Connect the mixer signal to the DMX IN projector plug and connect it to the next projector by connecting the DMX OUT plug on the first unit to the DMX IN plug of the second one.

In this way, all the projectors are cascade connected.



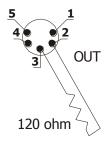
If the display showing the DMX address flashes, then one of the following errors has occurred:

- DMX signal not present
- DMX reception problem

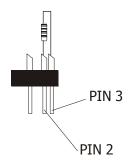
For Installations where long distance DMX cable connections are needed, we suggest to use a DMX terminator.

The DMX terminator is a male XLR 3-5 pins connector with a 120 ohm resistor Between pin 2 and 3.

The DMX terminator must be plugged into the last unit (DMX out panel connector) of the DMX line.



PLACE A 120 OHM RESISTOR BETWEEN PIN 2 AND 3 OF A MALE XRL CONNECTOR AND PLUG IT INTO THE DMX OUT PANEL CONNECTOR OF THE LAST UNIT CONNECTED TO THE DMX LINE



8.1 DMX addresses

SCENA LED 80 FR can be controlled with 2 DMX channels (default), 3 DMX channels or 1 DMX channel.

In order to use the unit in 2 DMX channels mode, set the following addresses on the mixer:

Projector 1 A001
Projector 2 A003
If you want to select the next projector, just add "2"
Projector 3 A005
..... A....
projector 6 A011

8.2 Selecting the DMX address

- 1) Press the UP-DOWN key until you reach the required DMX address. The numbers on the display will start to flash (but the new DMX address hasn't yet been set).
- 2) Press ENTER to confirm your selection. The numbers on the display will stop flashing and the projector is now controlled by the new DMX address.

TIPS: if you keep pushed the UP or DOWN keys, the channels are calculated more quickly and you get a faster selection.

2) Press ENTER to confirm your selection. The numbers on the display will stop flashing and the projector is now controlled by the new DMX address.

9- FIRMWARE UPDATING

To update the software version of the SCENA LED 80 you need:

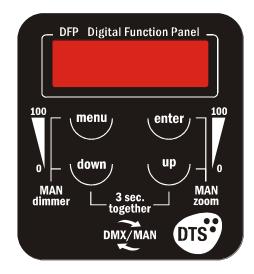
- D.T.S. RED BOX interface (D.T.S. Code: 03.LA.008)
- USB-DMX Driver for the D.T.S. RED BOX interface
- "D.T.S. Firmware upgrade utility" program installed on PC
- Latest firmware release available for SCENA COMPACT LED 50 unit

Updating the software version.

Please follow the procedure below to perform the update:

- 1. Install the D.T.S. RED BOX USB-DMX driver on the PC you will use to update the unit software.
- 2. Connect the D.T.S. RED BOX interface to the PC by using a USB cable.
- 3. Connect the D.T.S. RED BOX interface to the fixture by using a DMX cable.
- 4. Send the new software version into the unit by using "D.T.S. Firmware upgrade Utility" program.

10- DISPLAY FUNCTIONS



DISPLAY FUNCTIONS

The SCENA LED 80 display panel shows all the available functions.

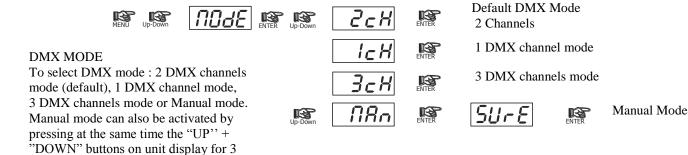
Using these functions, it is possible to change some of the parameters and add some functions. Changing the D.T.S. setting can vary the functions of the unit so that it does not respond to the DMX 512 used to control it. Carefully follow the instructions below before carrying out any variations or selections.

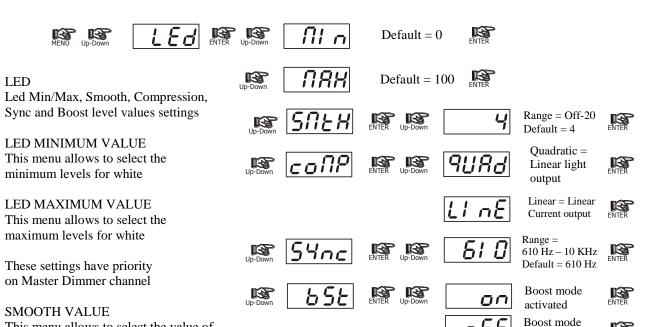
NOTE: the symbol shows which key has to be pushed to obtain the desired function.

Software version 1.07

seconds ("A001").







With BOOST active, the LED'S current is set to Max value. (30% more gain compared to **BOOST Off)** Default = Disabled

deactivated

COMPRESSION

variation.

variation.

variation.

This menu allows to select between Linear current output or Quadratic current output for LEDs Default = Quadratic

This menu allows to select the value of

the delay (in milliseconds) for Dimmer channel reaction to DMX or Program

Off = 25 ms. Instant response to DMX

20 = 250 ms. Smooth response to DMX

SYNC

This menu allows to adjust the PWM frequency value (Hz) in order to reduce flickering in the process of your camera recordings

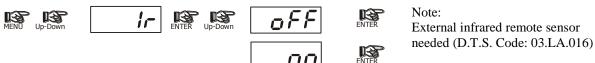
BOOST DRIVING

This menu allow to increase the LED's current from Min to Max



DIMMER

Dimmer intensity level (range 0-255) Active only if MODE = 1 DMX channel mode



INFRARED MODE

Infrared remote control. By activating Ir Mode, it will be possible to navigate trought the unit functions by using the D.T.S. infrared remote control (D.T.S. Code: 0514L008)















Wireless

Disabled

WIRELESS DMX

Wireless DMX enabled / disabled. By activating WDMX MODE, it will be possible to control SCENA LED 80 via D.T.S. ANTENNA Wireless DMX Transmitter (cod. 03.E1271). Active only on SCENA LED 80 with Wireless on board





UNLINK = LOG OUT

Logging on SCENA LED 80 (WIRELESS DMX must be enabled on SCENA LED 80 unit)

To log on the SCENA LED 80 in the WIRELESS system simply press and quickly release the function button on the transmitter.

The transmitter will start flashing rapidly red/green scanning for new free receivers / SCENA LED 80 units. When a SCENA LED 80 logs on to the transmitter the LINK green light on transmitter starts to flash rapidly. After approximately 10 seconds the transmitter will jump back to normal mode and continue transmitting data.

The SCENA LED 80 now try to synchronize to the transmitter.

When synchronized to the transmitter, 2 different modes are possible:

1. Antenna transmitter has detected and transmits a DMX signal, in this mode a solid green light is seen on the transmitter and solid display is seen on SCENA LED 80.

2. No DMX signal connected, the Antenna transmitter will flash red/green; display blinking on SCENA LED 80.

To log SCENA LED 80 off from a transmitter simply select UNLINK function under WIRELESS DMX MENU **UdfiH** and press ENTER.

When SCENA LED 80 is logged off, the display is blinking, meaning its available for log in on a new transmitter.

Logging out a SCENA LED 80

Select UNLINK function Unit under WIRELESS DMX MENU UNIT and press ENTER. When SCENA LED 80 is logged off the display is blinking, meaning its available for log in on a new transmitter.

Logging out all SCENA LED 80 units linked to a transmitter

Press and hold the function button of the transmitter for about 3 seconds. When the display is blinking on SCENA LED 80, it mean that the units are logged out.

Transmitter, Status LED

Flashing red/green, no dmx connected.

Solid green, dmx signal detected and transmitted.

Fast flashing red/green, log in mode (every free SCENA LED 80 unit, not logged in to any other transmitter, will be logged on)

SCENA LED 80 Status

Display blinking = not logged on to a transmitter (free).

Solid display = logged on to a transmitter and receiving dmx data.















ENTER

Default = OFF

EMERGENCY

Emergency operating mode. By setting Emergency mode, it will be possible to select Dimmer intensity level that will then ran if DMX signal is missing or not available. Usefull for Emergency EXIT illumination on public areas.





Default = 204 (80%)

00













DEFAULT SETTING

To restore default settings











TEMPERATURE

LED Driver board and LED temperature monitoring











LIFE TIME

This menu show the total unit life time and the LED life time















SOFTWARE

Software version

11- DMX PROTOCOL

2 CHANNELS MODE (Default)

- SHUTTER / STROBE DIMMER

DMX CHANNEL	1	Parameter: SHUTTER / STROBE
-------------	---	-----------------------------

DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-009					Black-out
010-019					Open
020-029					Black-out
030-119					Strobe (from 3.27 s to 30 ms)
120-149					Pulse up (from 42.6 s to 120 ms)
150-179					Pulse down (from 42.6 s to 120 ms)
					Random strobe
180-204					(Dimmer channel active)
					Full independent Random Strobe
205-229					(Dimmer channel disabled)
230-255					Open

DMX CHANNEL	2	Parameter: DIM	MER		
DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-255					Proportional dimmer

1 CHANNEL MODE

1 **DIMMER**

DMX CHANNEL	1	Parameter: DIMMER				
DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function	
000-255					Proportional dimmer	

3 CHANNELS MODE

- SHUTTER / STROBE DIMMER DIMMER FINE
- 1 2 3

DMX CHANNEL	1	Parameter: SHUTTER / STROBE

DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-009					Black-out
010-019					Open
020-029					Black-out
030-119					Strobe (from 3.27 s to 30 ms)
120-149					Pulse up (from 42.6 s to 120 ms)
150-179					Pulse down (from 42.6 s to 120 ms)
					Random strobe
180-204					(Dimmer channel active)
					Full independent Random Strobe
205-229					(Dimmer channel disabled)
230-255					Open

DMX CHANNEL	2	Parameter: DIMMER			
DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-255					Proportional dimmer

DMX CHANNEL	3	Parameter: DIMM	IER FINE		
DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-255					Proportional dimmer

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The Lighting Company

ISO 9001:2008

D.T.S. quality system is certified to the ISO 9001:2008 standard



D.T.S. products are designed and manufactured at the D.T.S. plants in italy

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