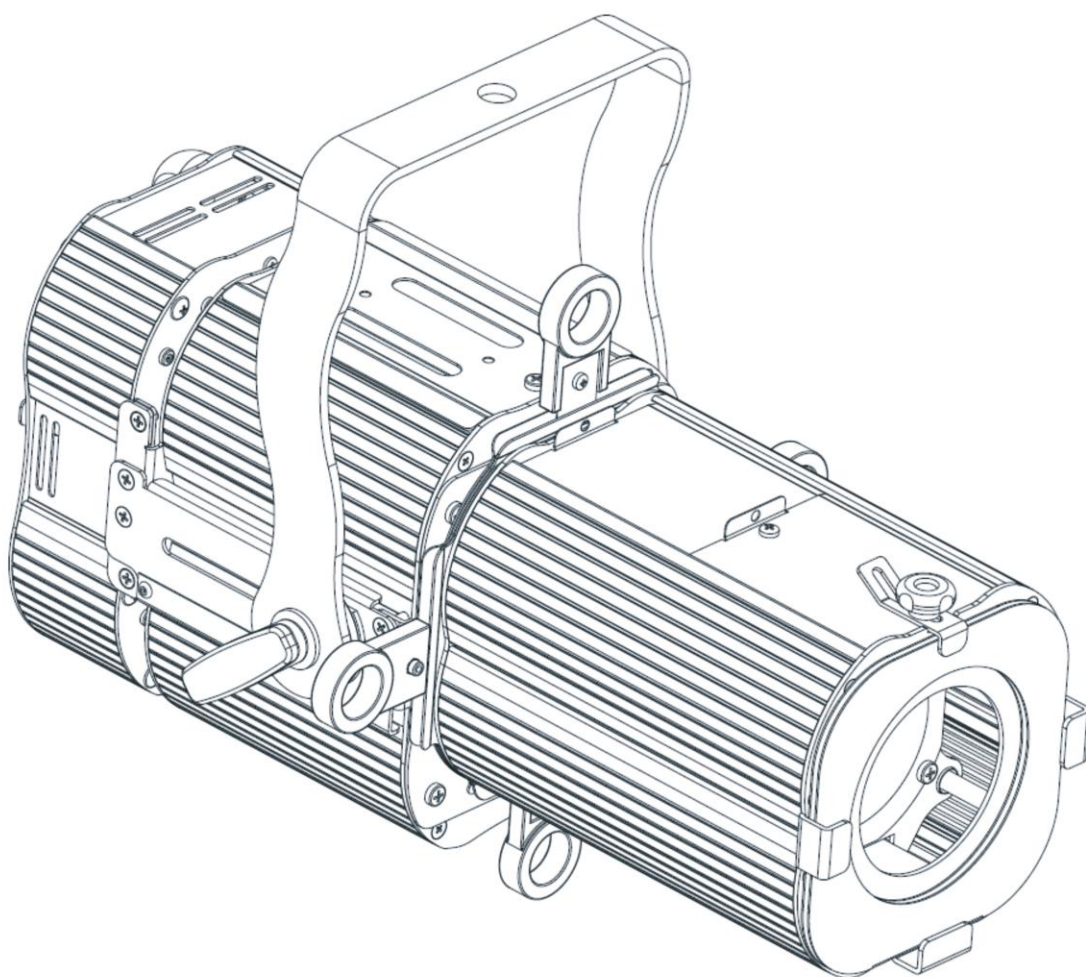


# PROFILO LED 80 CT



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## **1- SYMBOLS**

Graphic symbols used on this manual:



**THIS SYMBOL INDICATES A HOT SURFACE**



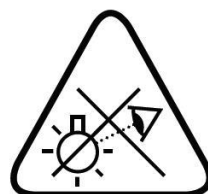
**THIS SYMBOL INDICATES ELECTRIC SHOCK RISK**



**THIS SYMBOL INDICATES GENERAL RISK**

$t_a$  40°C

**THIS SYMBOL INDICATES THE MAXIMUM OPERATING AMBIENT TEMPERATURE**



**THIS SYMBOL MEANS “DO NOT STARE AT THE OPERATING LIGHT SOURCE”**



**THIS SYMBOL INDICATES PHOTOBIOLOGICAL SAFETY**

Risk Group 2



**THIS SYMBOL INDICATES THE EUROPEAN COMMUNITY DIRECTIVE 2012/19/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 unit is not for residential 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**

PROFILO LED 80 CT is a very compact LED profile spot equipped with an high efficiency White LED source.

The unit LED's white color temperature is linearly tunable from 2700K to 6000K; a must in top level Television and Theatre applications, where a perfectly adjustable white color temperature is a key requirement.

The unit features an internal four-shutter shaping system, and a 20° to 36° linear zoom.

### **DTS product codes:**

03.TP033.46      PROFILO LED 80 CT BLACK  
03.TP033.03      PROFILO LED 80 CT WHITE

### **LED Technology**

Single high-power White LED with linearly tunable color temperature 2700K – 6000K

### **Optical group**

20°- 36° linear zoom

High definition zoom lens with double optical condenser lens

### **Control**

DMX 512 / RDM

7 DMX channels (Default) or 2 DMX channels

4-digit 7-segment LED display + 4 soft keys

### **Power supply**

Full-range 100-240Vac 50-60 Hz

Consumption: 100W Max

### **Connections**

Power supply: PowerCON In&Out panel connectors

DMX: XLR 5 pins In&Out panel connectors

### **Operating temperature**

-10° / 40°

### **Weight**

5,8 Kg

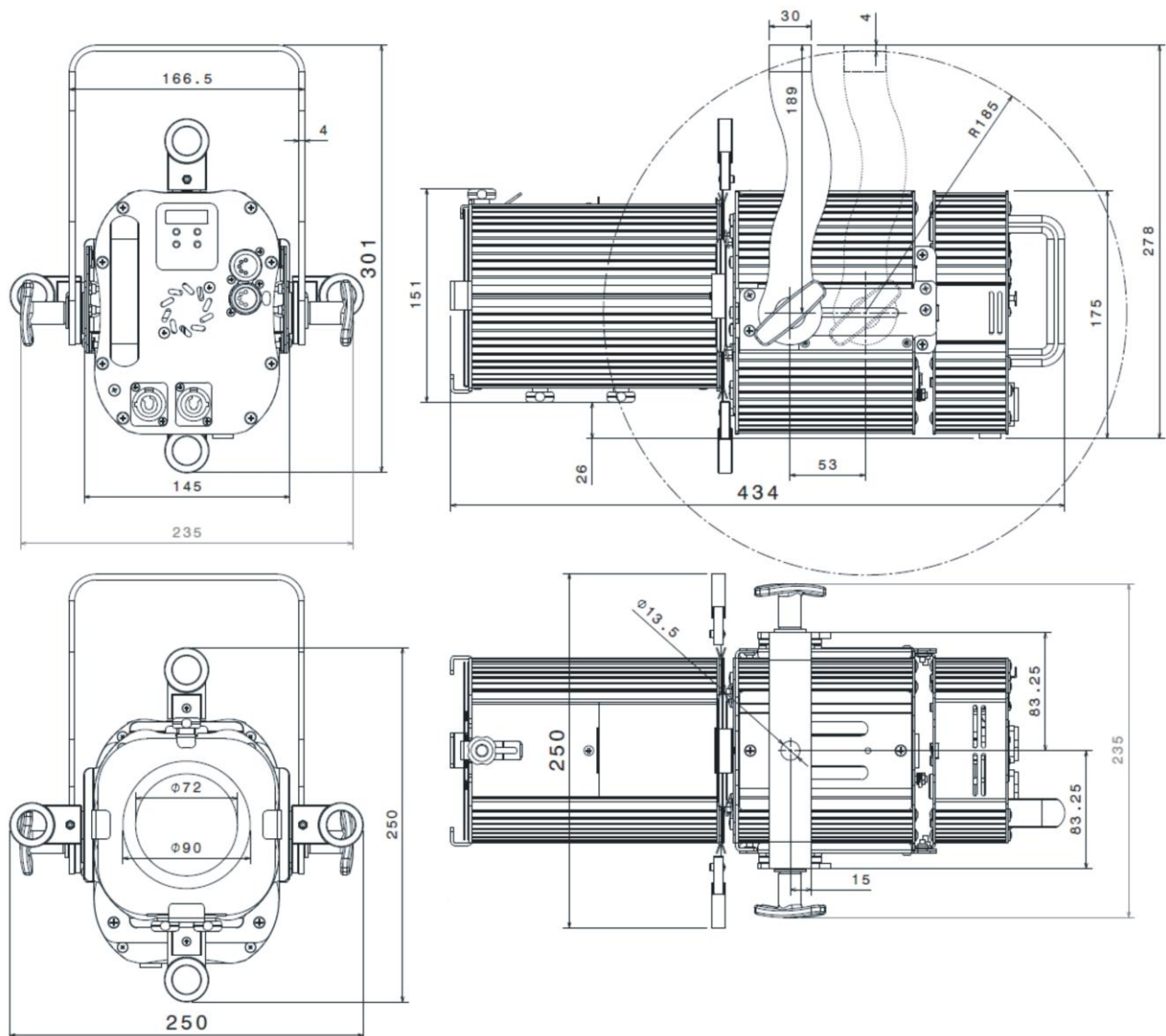
### **Certifications**



2014/35/UE ; 2014/30/UE  
IEC 62471 ; IEC 695-2-1

EN 60598-1 ; EN 62471 ; EN 61347-2-13  
EN 60598-2-17 ; EN 55015 EMC ; EN 61347-1

## **DIMENSIONS**



## **5- ACCESSORIES**

### **As standard**

- 1 x PowerCON male cable connector (DTS Code 0520P014)
- 1 x XLR 5 pins male cable connector (DTS Code 0508B028)
- 1 x XLR 5 pins female cable connector (DTS Code 0508B027)
- 4 x Shutter blades (single blade DTS code 02SK0335)
- 1 x Filterframe black finishing (already installed on the projector) (DTS Code 02M00426.46)
- 1 x User's Manual

### **Optional (on request)**

- Iris/diaphragm (DTS Code 03.TA223)
- Gobo holder (DTS Code 03.TA224)
- "C" Clamp G50 (Max. Load 10 Kg) (DTS Code 0521A012)
- "C" Clamp G60 (Max. Load 50 Kg) (DTS Code 0521A004)
- Safety cable 3 mm x 60 cm, max capacity load 60 Kg (DTS Code 0521A010)

## **6- IMPORTANT SAFETY INFORMATION**

### **6.1 Fire prevention:**

Replace any blown or damaged fuses only with those of identical value: T 2A 250V.

### **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 PROFILO LED 80 CT unit. Use only AC supplies 100-240V 50-60 Hz.  
PROFILO LED 80 CT 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:**



Risk Group 2 product according to EN 62471. Risk Group 2



CAUTION. Do not look directly into the light output. May be harmful to the eyes and skin.



Do not stare at the operating light source.

The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer than 3.7 m is not expected.

The light source contained in this luminaire shall only be replaced by the manufacturer or his service agent or a similar qualified person.

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

The external surface of the unit may exceed 60°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 exceed 40°C.  $t_a$  40°C

### **6.4 Waste Electrical and Electronic equipment (WEEE) directive:**



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

For EC countries: according to the European Directive 2012/19/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- INSTALLATION**

The unit is suitable for dry locations only.

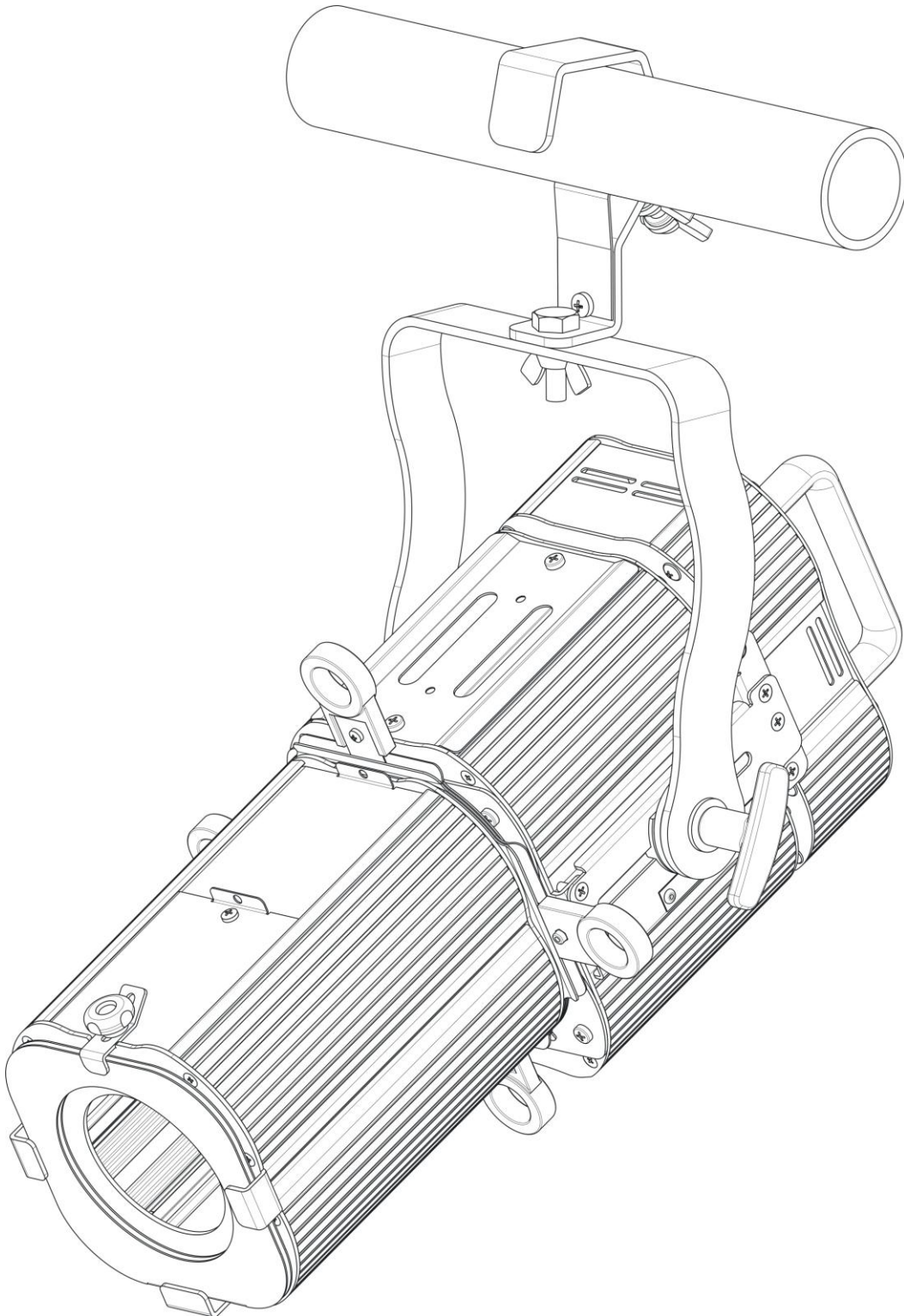
PROFILO LED 80 CT can be installed on a truss or on the ceiling.

It is recommended the use of appropriate clamps to fix the unit to the mounting surface.

**ATTENTION:**

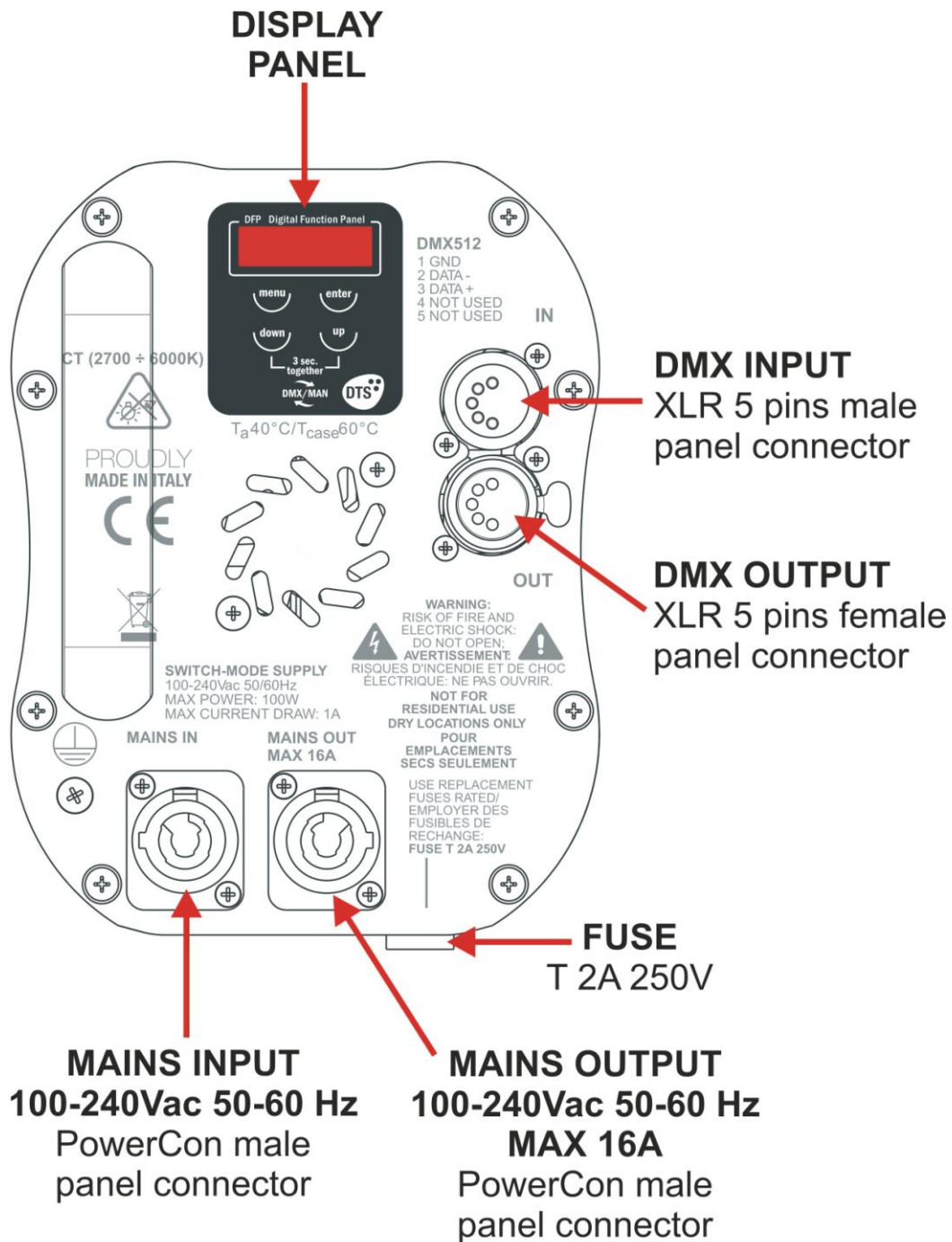
A safety cable (code 0521A010) must be securely fixed to the unit's mounting bracket and to the support structure of the projector as shown in the picture below.

Fixing clamps and safety cable are available on request.





## 8- INPUT / OUTPUT CONNECTIONS



**Max 24 units @ 240Vac**  
**Max 12 units @ 100Vac**

## 9- DMX SIGNAL CONNECTION:

The unit operates using a digital DMX 512 signal.

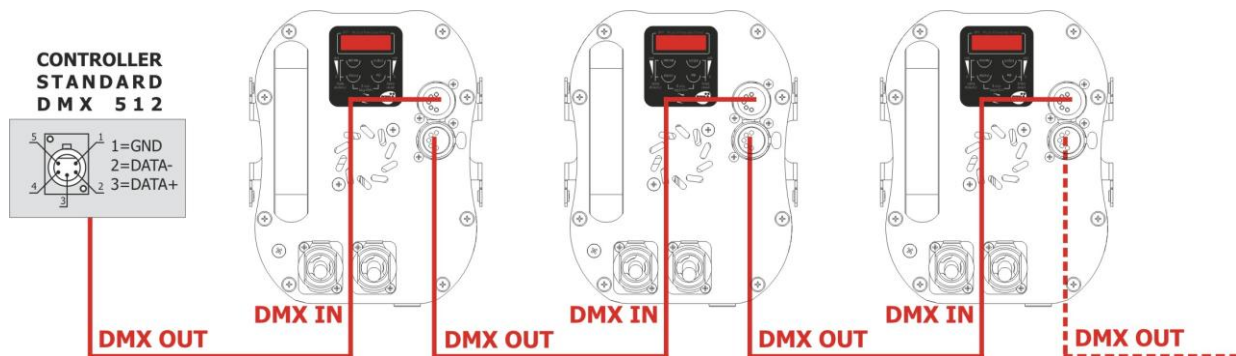
Connection between the controller and the unit or between units must be carried out using a two pair screened  $\varnothing$  0.5 mm.

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.



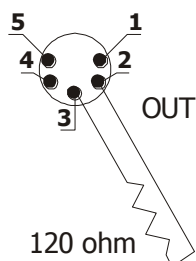
If the display showing the DMX address flashes, then one of the following errors has occurred:

- DMX signal not present
- DMX reception problem

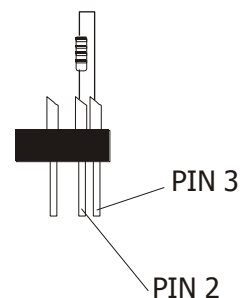
For Installations where long distance DMX cable connections are needed, we suggest to use a DMX terminator.

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 XLR CONNECTOR AND PLUG IT INTO THE DMX OUT PANEL CONNECTOR OF THE LAST UNIT CONNECTED TO THE DMX LINE



## **9.1 DMX addresses**

PROFILO LED 80 CT can be controlled with 7 DMX channels (Default) or 2 DMX channels.

In order to use the unit in 7 DMX channels mode (Default), set the following addresses on the mixer:

Projector 1	A001	
Projector 2	A008	If you want to select the next projector, just add "7"
Projector 3	A015	
.....	A....	
projector 6	A036	

## **9.2 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.

## **10- RDM FUNCTIONS**

By using a RDM controller it is possible to set DMX address, DMX mode and other parameters.

PROFILO LED 80 CT accepts the following RDM commands:

DEVICE_INFO	To read the following parameters: <ul style="list-style-type: none"> <li>• RDM protocol version</li> <li>• Fixture model ID</li> <li>• Fixture type</li> <li>• Software version ID</li> <li>• DMX channels</li> <li>• DMX mode</li> <li>• DMX address</li> <li>• Total sub-fixtures</li> <li>• Total sensors</li> </ul>
IDENTIFY_DEVICE	All LED channels ON at max power to identify the fixture
DMX_START_ADDRESS	To read / set the DMX address
SOFTWARE_VERSION_LABEL	Software version ID
SUPPORTED_PARAMETERS	List of all supported parameters
PARAMETER_DESCRIPTION	Description / details of Manufacturer Specific parameter as "NO DMX ACTION"
DMX_PERSONALITY	To set the DMX mode
DMX_PERSONALITY_DESCRIPTION	Description / details of the DMX mode
DEVICE_MODEL_DESCRIPTION	Description / details of the Fixture model
MANUFACTURER_LABEL	Producer ID
SENSOR_DEFINITION, SENSOR VALUE	Description / values of sensors
<b>SENSORS</b>	
1: LED BOARD TEMPERATURE	LED temperature
2: DRIVER BOARD TEMPERATURE	LED Driver board temperature
<b>RDM MANUFACTURER-SPECIFIC PIDs</b>	
NO DMX ACTION	To set the desired fixture's behavior in case DMX signal is missing or not available. 1 = Black-out 2 = All channels @ 60% 3 = All channels @ 100% 4 = White CCT (Correlated Color Temperature): NO DMX SELECTABLE WHITE CCT 1 = 2700K (Default) 2 = 3000K 3 = 3200K 4 = 3500K 5 = 4000K 6 = 4500K 7 = 5000K 8 = 5600K 9 = 6000K NO DMX SELECTABLE WHITE INTENS. 0 ÷ 255 (Default = 0) 5 = Keep last valid DMX signal

## **11- FIRMWARE UPDATING**

To update the software version of the PROFILO LED 80 CT you need:

- DTS RED BOX interface (DTS Code 03.LA.008).
- USB-DMX Driver for the DTS RED BOX interface.
- “DTS Firmware Upgrade Utility v.2.02” program installed on PC.
- Latest firmware release available for PROFILO LED 80 CT unit.

### **Updating the software version.**

Please follow the procedure below to perform the update:

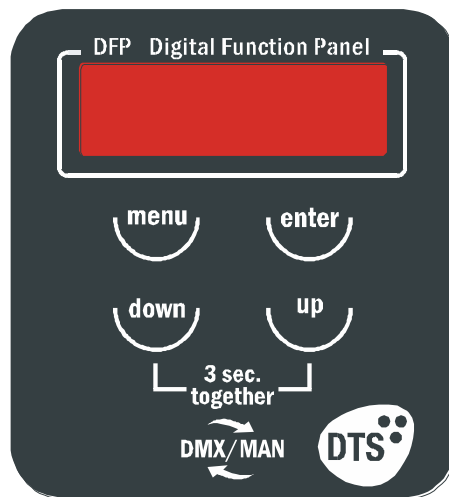
1. Install the DTS RED BOX USB-DMX driver on the PC you will use to update the unit software.
2. Connect the DTS RED BOX interface to a spare USB port on the PC (be sure that internal switch on DTS RED BOX is set to COM).
3. Connect the unit DMX input to the DTS RED BOX DMX output with a standard DMX cable and turn ON the unit.
4. Send the new software version into the unit by using “DTS Firmware upgrade Utility v.2.02” program. At the end of the procedure, the unit will reset.

## **12- DISPLAY FUNCTIONS**

The PROFILO LED 80 CT display panel shows all the available control menus.

Using these options, it is possible to change the fixture’s setting.

Changing the DTS settings 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.



<b>MENU</b>	<ul style="list-style-type: none"> <li>• To access the control menus in the display panel.</li> <li>• To return to the previous level in the menu structure without making a change.</li> <li>• To exit the menus.</li> </ul>
<b>ENTER</b>	<ul style="list-style-type: none"> <li>• To select any required menu.</li> <li>• To confirm any changes.</li> </ul>
<b>UP / DOWN</b>	<ul style="list-style-type: none"> <li>• To navigate the menus structure.</li> <li>• To change any value.</li> </ul>

Firmware release	1.00
------------------	------

MAIN MENU	LEVEL 1	LEVEL 2	LEVEL 3	FUNCTION
DISP	Pos1	RR		Display normal orientation for floor mounting position (Default)
		BB		Display inverted orientation for suspended mounting position
	Stby	oFF		Display always ON (Default)
		oN		Display goes OFF after 10 seconds
Menu	7 CH			Allows to select 7 DMX channels mode (Default)
	2 CH			Allows to select 2 DMX channels mode
LED	SntH	oFF-20		Allows to select the value of the delay (in milliseconds) for Dimmer channel reaction to DMX or Program variation. Off = Instant response to DMX variation. <b>4 = 100 ms Smooth response to DMX variation (Default)</b> 20 = 500 ms Smooth response to DMX variation.
		QuAd		Allows to select Quadratic current for linear light output (Default)
				Allows to select Linear current output
	Sync	610-20.0H		Allows to adjust the PWM frequency value (Hz) in order to reduce flickering in the process of your camera recordings. <b>Default = 610 Hz</b>
	bSt	oN		Allows to increase the LED's current from 1470mA to 2100mA per channel <b>Default = ON</b>
		oFF		
Auto	SurE	2700		Automatic mode without DMX controller. 9 White color temperature selection from <b>2700K (Default)</b> to 6000K as on DMX channel 6 (CCT). In Auto mode the unit do generate DMX for slave units.
		6000		
		dimm	0-255	
		SHut	0-255	
		Esc		Esc from automatic mode menu
SLAV	SurE	SLU		Slave mode. The unit is forced to DMX address 1 and 7 DMX channels mode receiving signal from the unit set in Auto mode.
		Esc		Esc from slave mode
ndNH	LdNH			No DMX action. <b>Keep last valid DMX signal (Default)</b>
	60			All channels @ 60%
	100			All channels @ 100%
	White	cct	2700	9 White color temperature selection from <b>2700K (Default)</b> to 6000K as on DMX channel 6 (CCT)
			6000	
		dimm	0-255	Dimmer level selectable for White <b>Default = 255</b>
	oFF			Black-out



MAIN MENU	LEVEL 1	LEVEL 2	LEVEL 3	FUNCTION
<i>dfSE</i>	<i>SurE</i>			To restore default settings
<i>tENP</i>	<i>LEd</i>	<i>025.0</i>		LED temperature monitoring
	<i>drU</i>	<i>025.0</i>		LED Driver board temperature monitoring
<i>tINE</i>	<i>WARn</i>			Shows the total unit life time and the Warm White / Cold White LEDs life time
	<i>cold</i>			
	<i>unit</i>			
<i>SoFt</i>	<i>v.1.00</i>			Software version

### **13- MANUAL MODE (not yet implemented)**

Manual mode can be activated by pressing at the same time 'UP' and 'DOWN' keys on unit display for 3 seconds (A001).

In Manual mode it is possible to select:

<i>WHIt</i>	<i>2700</i> <i>6000</i>	9 White color temperature selection from 2700K to 6000K as on DMX channel 6 (CCT). <b>Default = 2700K</b>
<i>dIMn</i>	<i>0-255</i>	Dimmer level selectable by user as on DMX channel 4 (DIMMER) <b>Default = 255</b>
<i>SHUt</i>	<i>0-255</i>	Shutter level selectable by user as on DMX channel 3 (SHUTTER) <b>Default = 15</b>
<i>Esc</i>		Esc from Manual mode

When Manual mode is active, unit switch OFF/ON cycle will maintain Manual Mode selection.

In Manual mode the DMX signal is ignored.

### **14- ERROR MESSAGES**

ERROR SHOWED ON DISPLAY	APPEARS WHEN
<i>SEnSor Error</i>	LED thermal sensor damaged (open or in short circuit). Unit immediately goes in black-out.
<i>LEd ouERtENPErAturE</i>	LED temperature detected over 100°C. Unit immediately goes in black-out.

## 15- DMX PROTOCOL

### 7 CHANNELS MODE (Default)

- 1 WARM WHITE 2700K
- 2 COLD WHITE 6000K
- 3 SHUTTER
- 4 DIMMER
- 5 DIMMER FINE
- 6 CCT
- 7 FUNCTIONS

Ch	Name	DMX levels	
1	WARM WHITE 2700K	0..255	Proportional color from min to max
2	COLD WHITE 6000K	0..255	Proportional color from min to max
3	SHUTTER	0..9	Black-out
		10..19	Open
		20..29	Black-out
		30..119	Strobe (da 3,27 s a 30 ms)
		120..149	Pulse up (da 42,6 s a 120 ms)
		150..179	Pulse down (da 42,6 s a 120 ms)
		180..204	Random strobe (Warm White, Cold White, Dimmer, Dimmer Fine active)
		205..229	Independent random strobe (Dimmer, Dimmer Fine active)
		230..255	Open
4	DIMMER	0..255	Proportional dimmer from min to max
5	DIMMER FINE	0..255	Proportional dimmer from min to max
6	CCT	0..010 — No func. 011 — 2700K 054 — 3000K 083 — 3200K 126 — 3500K 169 — 4000K 198 — 4500K 226 — 5000K 241 — 5600K 255 — 6000K	Linear color temperature correction from 2700K to 6000K. Relevant CCT (Correlated Color Temperature) values: 11 = 2700K 54 = 3000K 83 = 3200K 126 = 3500K 169 = 4000K 198 = 4500K 226 = 5000K 241 = 5600K 255 = 6000K

<i>Ch</i>	<i>Name</i>	<i>DMX levels</i>	
7	FUNCTIONS (staying on desired option for 5 seconds)	0..14	No function
		15..24	SMOOTH OFF
		25..26	SMOOTH 1 (25 ms)
		27..28	SMOOTH 2 (50 ms)
		29..30	SMOOTH 3 (75 ms)
		31..32	SMOOTH 4 (100 ms) (DEFAULT)
		33..34	SMOOTH 5 (125 ms)
		35..36	SMOOTH 6 (150 ms)
		37..38	SMOOTH 7 (175 ms)
		39..40	SMOOTH 8 (200 ms)
		41..42	SMOOTH 9 (225 ms)
		43..44	SMOOTH 10 (250 ms)
		45..46	SMOOTH 11 (275 ms)
		47..48	SMOOTH 12 (300 ms)
		49..50	SMOOTH 13 (325 ms)
		51..52	SMOOTH 14 (350 ms)
		53..54	SMOOTH 15 (375 ms)
		55..56	SMOOTH 16 (400 ms)
		57..58	SMOOTH 17 (425 ms)
		59..60	SMOOTH 18 (450 ms)
		61..62	SMOOTH 19 (475 ms)
		63..64	SMOOTH 20 (500 ms)
		65..74	GAMMA CORRECTION ( $\cos^2 P$ ) QUADRATIC (DEFAULT)
		75..84	GAMMA CORRECTION ( $\cos^2 P$ ) LINEAR
		85..104	OUTPUT FREQUENCY 610 Hz (DEFAULT)
		105	OUTPUT FREQUENCY 800 Hz
		106	OUTPUT FREQUENCY 1000 Hz
		107	OUTPUT FREQUENCY 1500 Hz
		108	OUTPUT FREQUENCY 2000 Hz
		109	OUTPUT FREQUENCY 2500 Hz
		110	OUTPUT FREQUENCY 3000 Hz
		111	OUTPUT FREQUENCY 3500 Hz
		112	OUTPUT FREQUENCY 4000 Hz
		113	OUTPUT FREQUENCY 4500 Hz
		114	OUTPUT FREQUENCY 5000 Hz
		115	OUTPUT FREQUENCY 5500 Hz
		116	OUTPUT FREQUENCY 6000 Hz
		117	OUTPUT FREQUENCY 6500 Hz
		118	OUTPUT FREQUENCY 7000 Hz
		119	OUTPUT FREQUENCY 7500 Hz
		120	OUTPUT FREQUENCY 8000 Hz
		121	OUTPUT FREQUENCY 8500 Hz
		122	OUTPUT FREQUENCY 9000 Hz
		123	OUTPUT FREQUENCY 9500 Hz
		124	OUTPUT FREQUENCY 10000 Hz
		125	OUTPUT FREQUENCY 11000 Hz
		126	OUTPUT FREQUENCY 12000 Hz
		127	OUTPUT FREQUENCY 13000 Hz
		128	OUTPUT FREQUENCY 14000 Hz
		129	OUTPUT FREQUENCY 15000 Hz
		130	OUTPUT FREQUENCY 16000 Hz
		131	OUTPUT FREQUENCY 17000 Hz
		132	OUTPUT FREQUENCY 18000 Hz
		133	OUTPUT FREQUENCY 19000 Hz
		134	OUTPUT FREQUENCY 20000 Hz
		135..144	BOOST ON (DEFAULT)
		145..154	BOOST OFF
		155..164	DISPLAY STAND-BY OFF (DEFAULT)
		165..174	DISPLAY STAND-BY ON

<i>Ch</i>	<i>Name</i>	<i>DMX levels</i>	
		175..176	NO DMX ACTION – KEEP LAST DMX (DEFAULT)
		177..178	NO DMX ACTION – Black-out
		179..180	NO DMX ACTION – All channels @ 100%
		181..182	NO DMX ACTION – All channels @ 60%
		183..184	NO DMX ACTION – 2700K..6000K (active CCT as per display menu > NDMX > WHIT or via RDM Custom PIDs (Default = 2700K)
		185..194	RESERVED
		195..204	RESERVED
		205..214	RESERVED
		215..224	RESERVED
		225..234	RESERVED
		235..244	RESERVED
		245..255	RESERVED

## 2 CHANNELS MODE

- 1 WARM WHITE 2700K
- 2 COLD WHITE 6000K

<i>Ch</i>	<i>Name</i>	<i>DMX levels</i>	
1	WARM WHITE 2700K	0..255	Proportional color from min to max
2	COLD WHITE 6000K	0..255	Proportional color from min to max

## 16- GOBO HOLDER

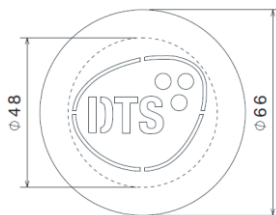
Gobo Holder for PROFILO LED 80 CT: DTS code 03.TA224  
(Metal / Glass Gobo not included).

Gobo dimensions:

Ø external = 66 mm

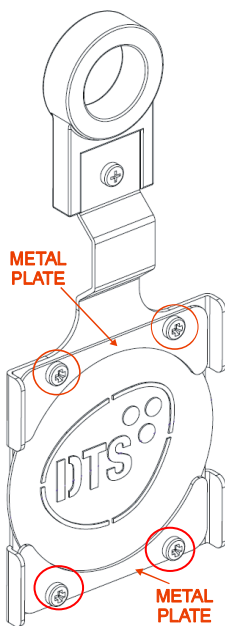
Ø of image = 48 mm

Thickness = from 0.2 to 3 mm



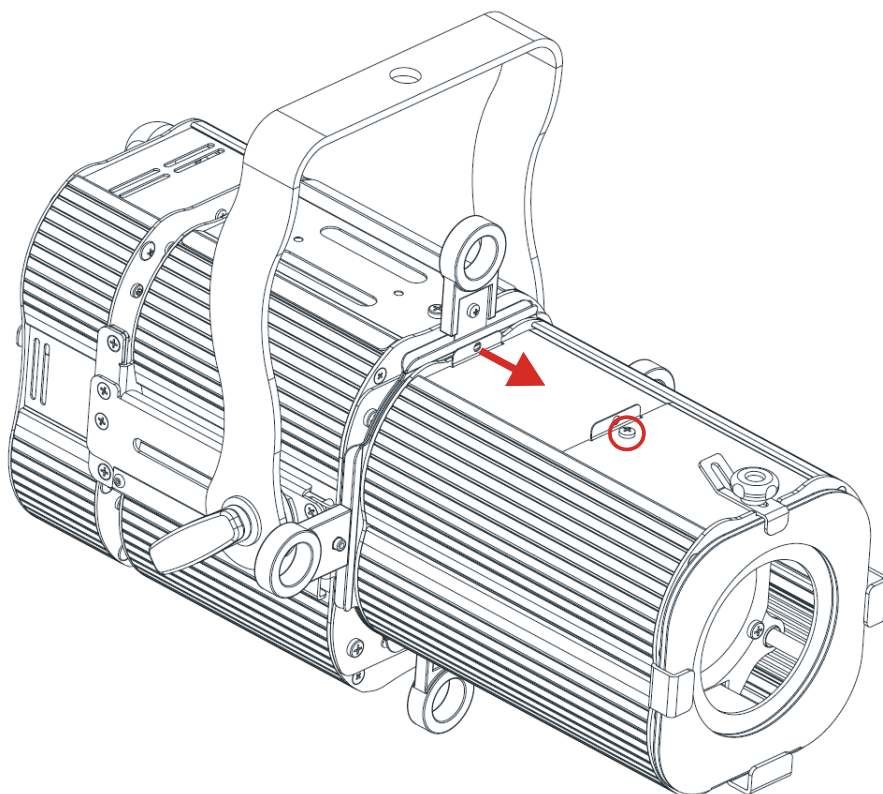
How to fix the Gobo on Gobo Holder:

- 1 - Loose the marked screws fixing each metal plate.
- 2 - Put in place the Gobo and tighten again the screws.

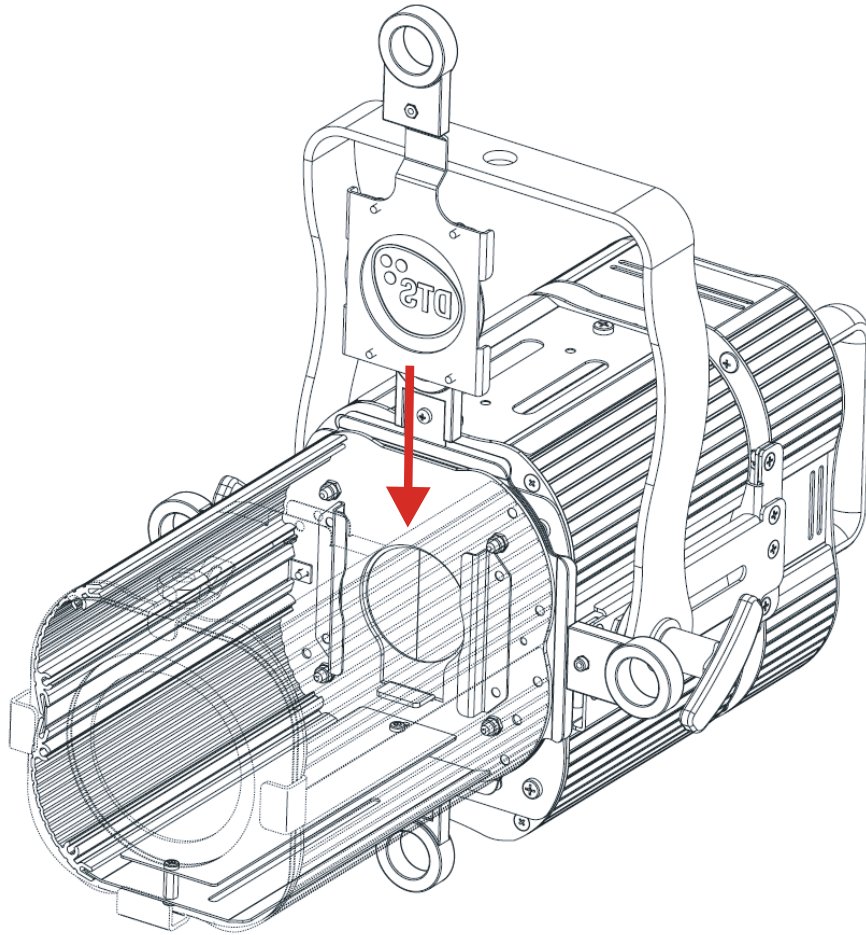


To properly install the Gobo Holder:

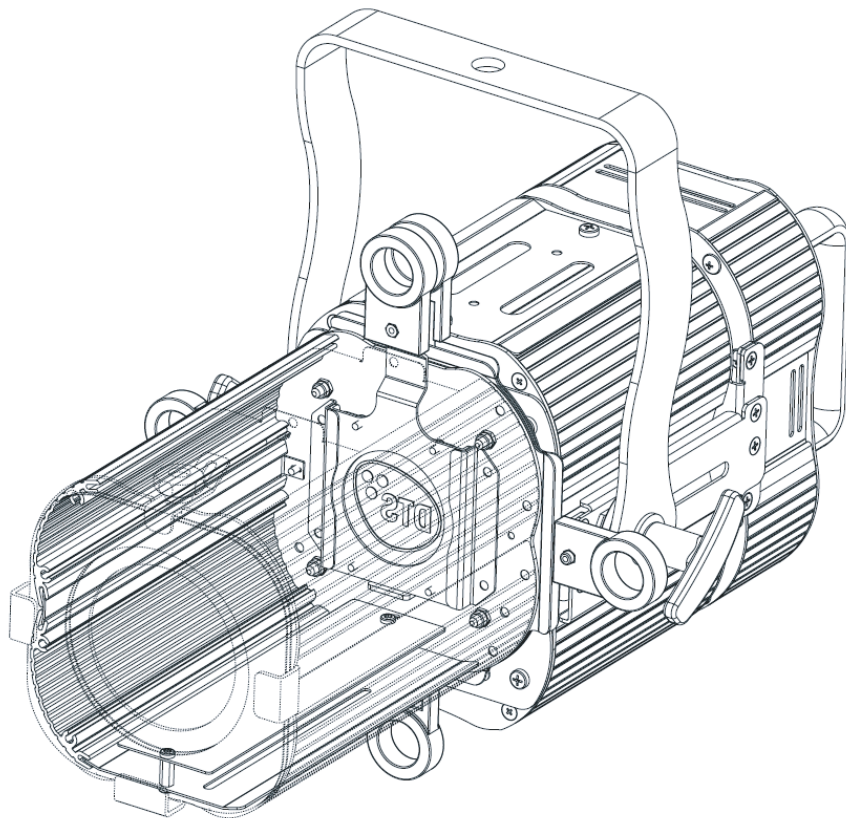
- 1 - Remove the marked screw and slide the panel.



2 - Put in place the Gobo Holder.



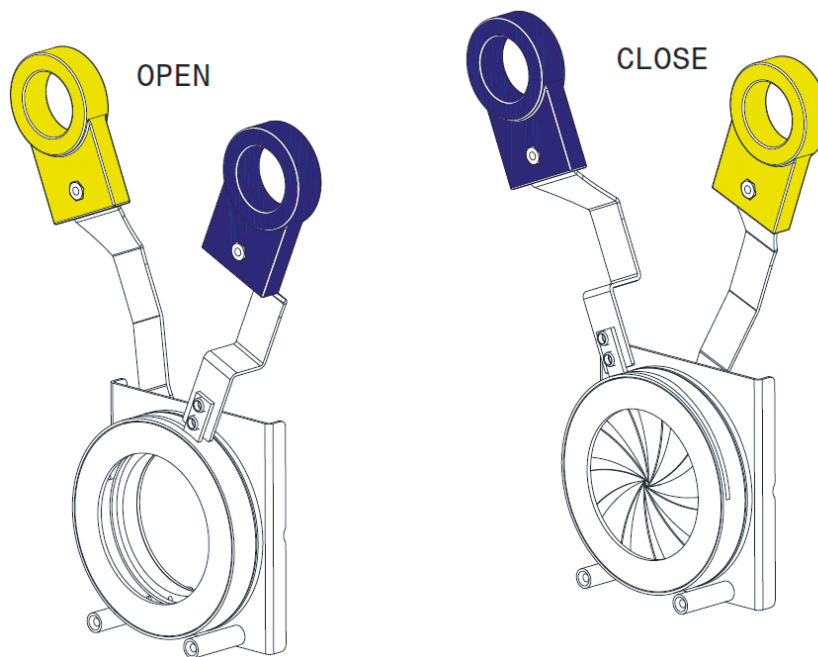
3 - Gobo Holder properly inserted.





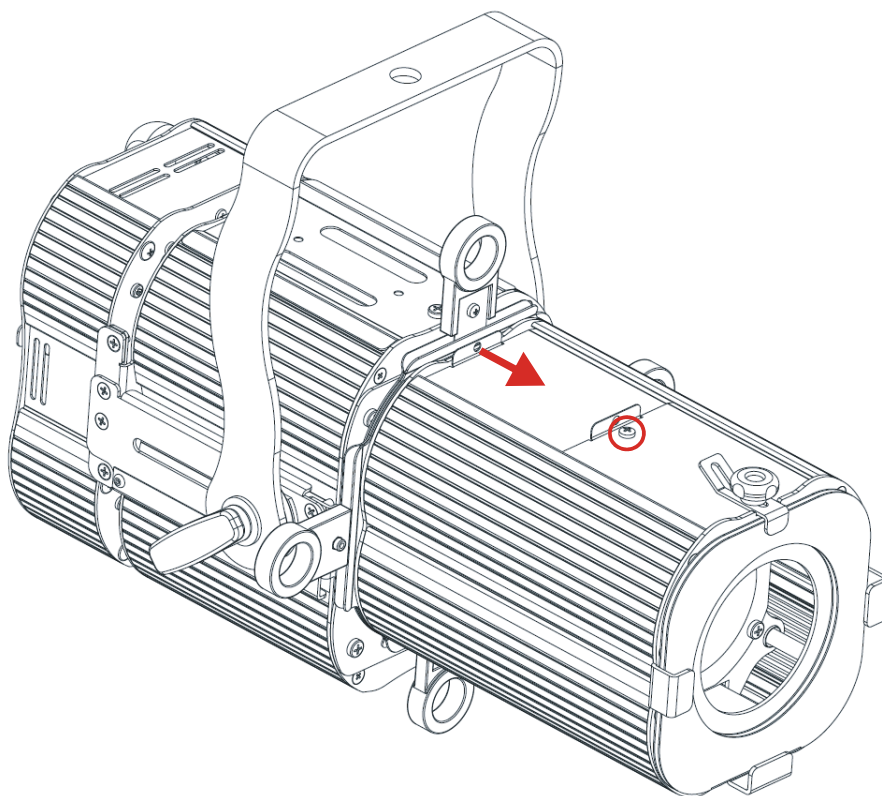
## 17- IRIS

Iris for PROFILO LED 80 CT: DTS code 03.TA223

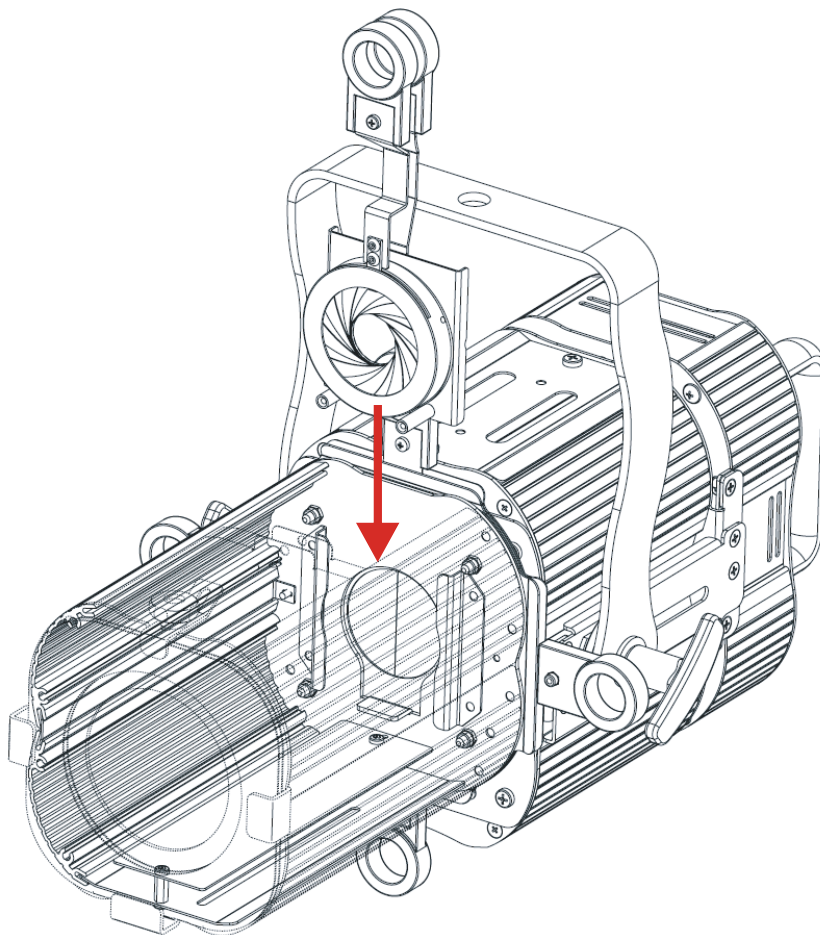


To properly install the Iris:

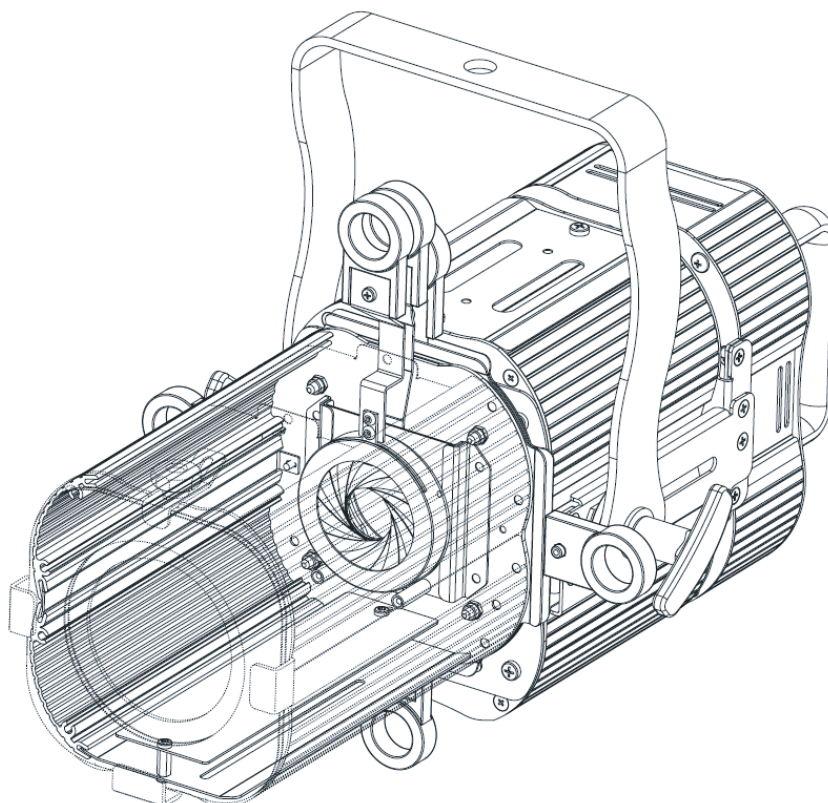
1 - Remove the marked screw and slide the panel.



2 - Put in place the Iris.



3 - Iris properly inserted.



**NOTES**

PROUDLY  
MADE IN ITALY



DTS products are designed  
and manufactured at the  
DTS plants in Italy



**ISO 9001:2008**

DTS quality system is certified  
to the ISO 9001:2008 standard

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