

PROFILO LED 80 FC



User's Manual rel E.13 **GB**

D.T.S. Illuminazione s.r.l. – ITALY
<http://www.dts-lighting.it/>



The Lighting Company

Made in Italy

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1- SYMBOLS

Graphic symbols used on this manual:



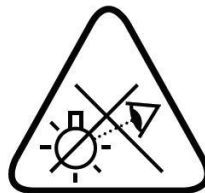
THIS SYMBOL INDICATES A HOT SURFACE



THIS SYMBOL INDICATES ELECTRIC SHOCK RISK



THIS SYMBOL INDICATES GENERAL RISK



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



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 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 FC is a compact, lightweight, DMX-controlled LED shaper equipped with an high-power FULL RGBW LED featuring 4 LED channels (Red / Green / Blue / White); 3660 Total Lumens.

The unit features a 18°-36° linear zoom with high-efficiency optical system, and an Internal rotating system with four removable shutters, to give high-precision shaping of light beams.

PROFILO LED 80 FC is a modern alternative to conventional lights, improving light quality, flexibility of use and installation, energy savings and component duration.

The fixture doesn't heat up and the projection is always flicker free.

PROFILO LED 80 FC is contained in a strong housing with folded edges, designed to resist all the rigors of continuous use.

Also, the yoke has an exclusive round flange + clutch system which guarantees a perfect grip and safer operation.

LED Technology

1 x FULL RGBW LED; 3660 Lumens

Optical group

High definition zoom lens with double optical condenser lens

18° - 36° linear zoom

Shutters

Internal rotating system with four removable shutters

Control

10 DMX channels (Default)

4 digit 7 segments LED display + 4 soft keys

Connectors

Power supply: POWERCON In&Out panel connectors

DMX: XLR 5 pins In&Out panel connectors

Power supply

Electronic full-range 100-240Vac 50-60 Hz

Consumption: 100W Max

Weight

5,8 Kg

International certifications



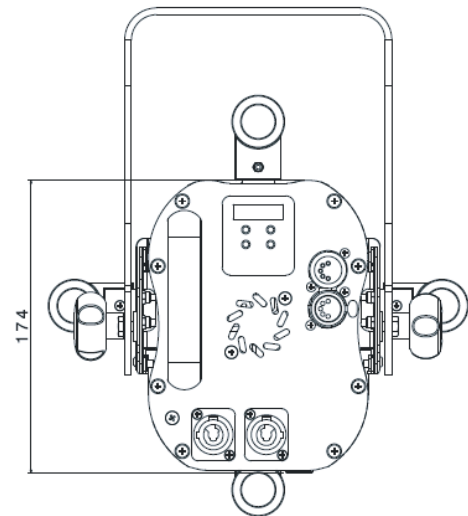
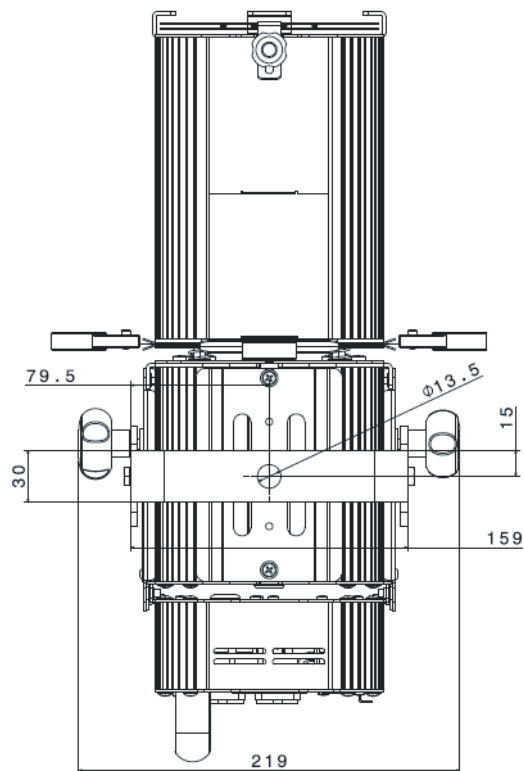
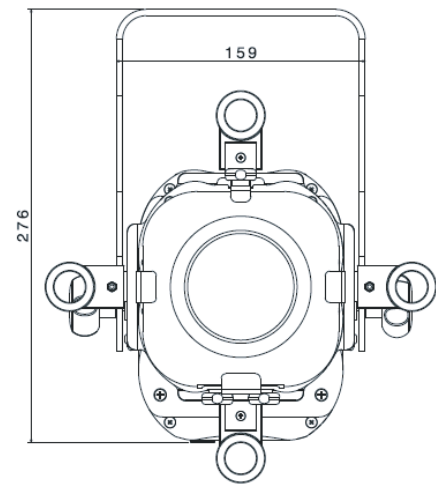
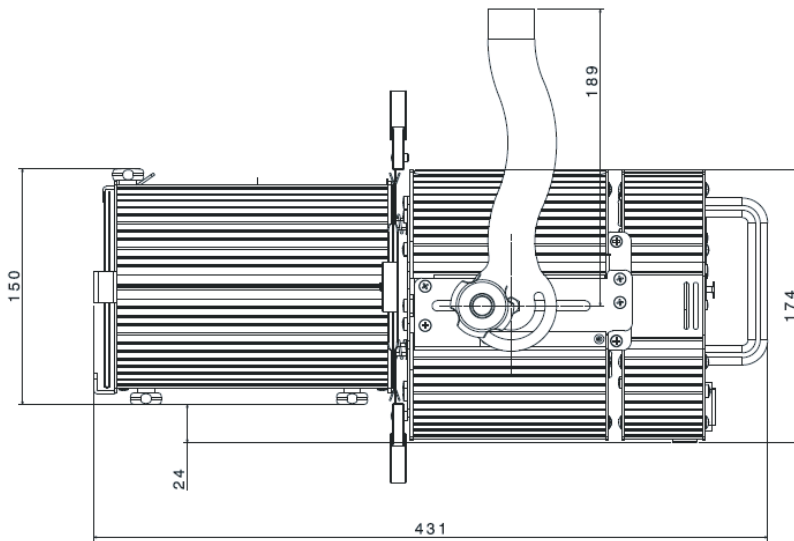
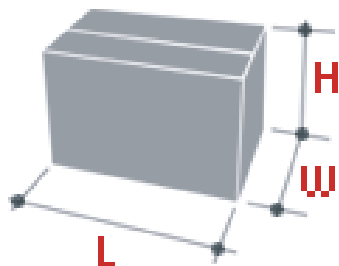
2006/95/CE ; 2004/108/CE
IEC 62471 ; IEC 695-2-1

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



Intertek
5000116

Conforms to UL Std. 1573; Cert. to CSA Std. C22.2 No.166.

DIMENSIONS**UNIT****PACKAGING**

(L x W x H) 500 x 270 x 273

Weight: 5,9 Kg

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 *Black finish (D.T.S. Code 02M00422.46)
- 4 x Shutter blades (Single blade D.T.S. Code 02SK0041)

Optional (on request)

- "C" Clamp G50 (Max. Load. 10 Kg) *Black finish (D.T.S. Code 0521A012)
- "C" Clamp G60 (Max. Load. 50 Kg) *Black finish (D.T.S. Code 0521A004)
- Safety cable 3 mm x 60 cm, max capacity load 60 Kg (D.T.S. Code 0521A010)
- Gobo holder (D.T.S. Code 03.TA208)
- Iris/diaphragm (D.T.S. Code 03.TA207)
- Barndoor *Black finish (D.T.S. Code 03.TA206)

6- IMPORTANT SAFETY INFORMATION

6.1 Fire prevention:

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 PROFILO LED 80 FC unit. Use only AC supplies 100-240V , 50-60 Hz.

PROFILO LED 80 FC 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 unit is not for residential use and must be installed by a qualified electrician or experienced person.

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 6 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 external surface of the unit may exceed 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 exceed 40°C and should not be lower than -10°C.

6.4 Waste Electrical and Electronic Equipment (WEEE) directive:



The machine, accessories and packaging should be sorted for environmental-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- INSTALLATION

The unit is suitable for dry locations only.

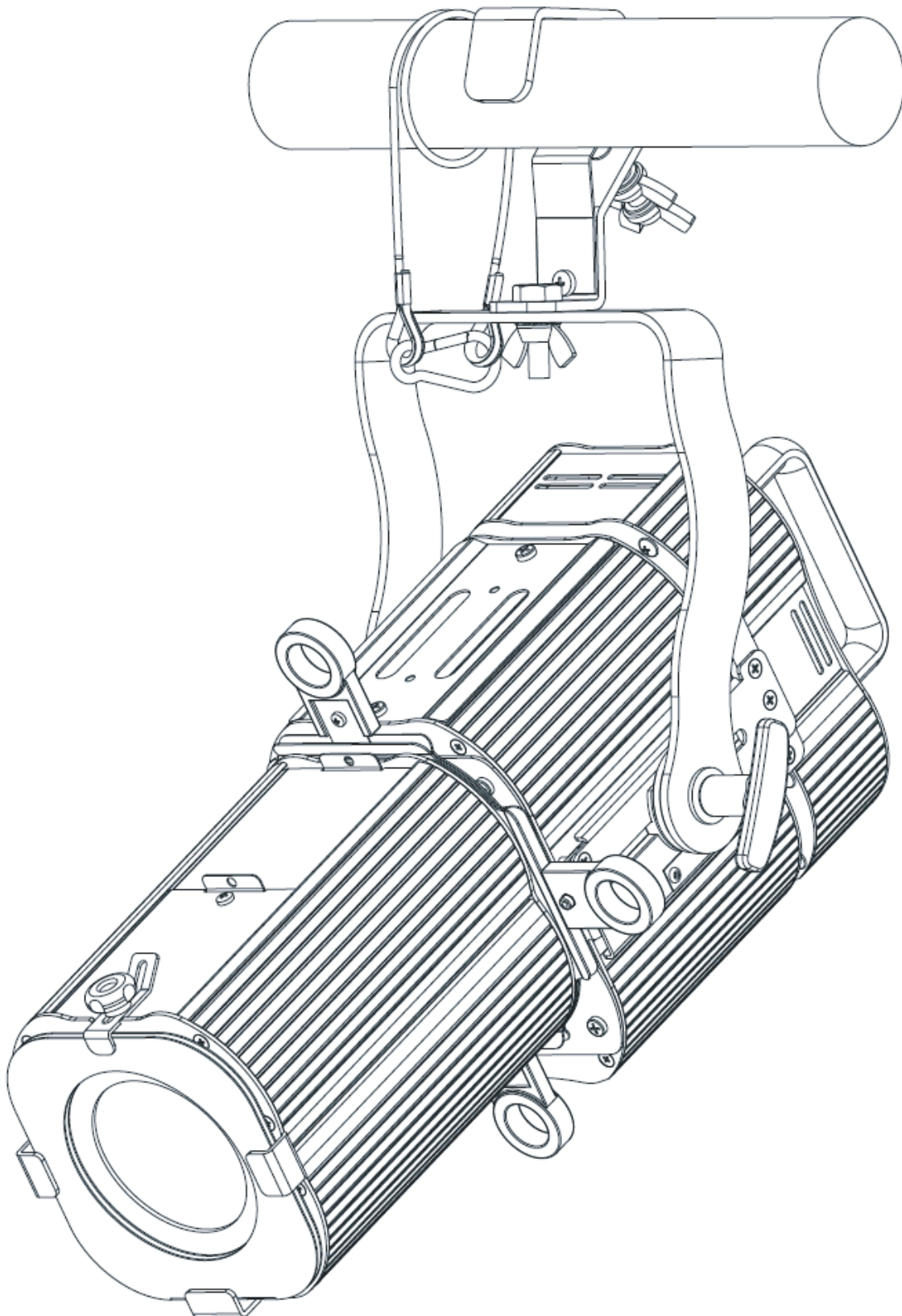
PROFILO LED 80 can be installed on a truss or on the ceiling.

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

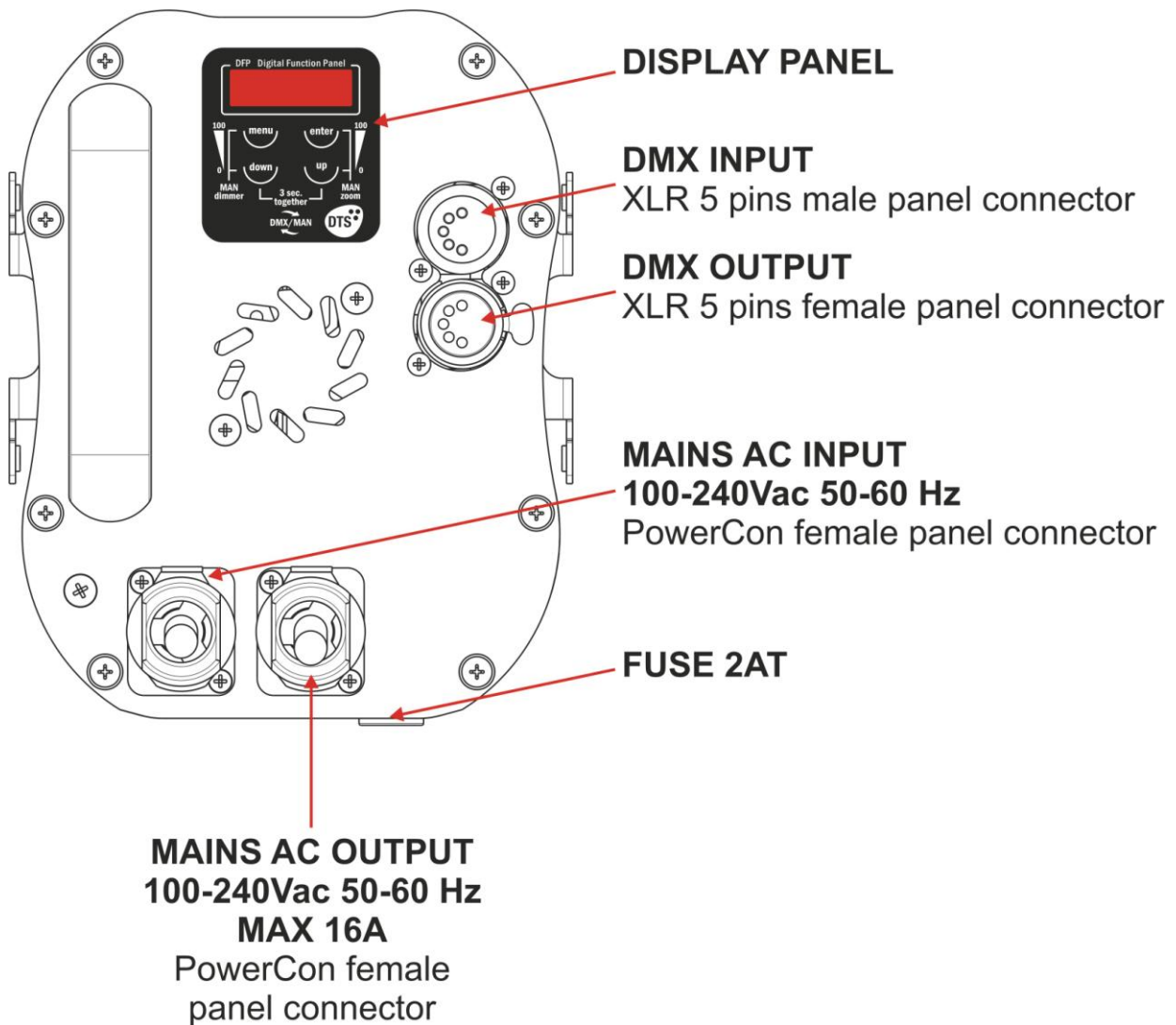
ATTENTION:

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

Fixing clamps and safety cable are available on request.



INPUT / OUTPUT CONNECTIONS



9- DMX SIGNAL CONNECTION:

The unit operates using a digital DMX 512 signal.

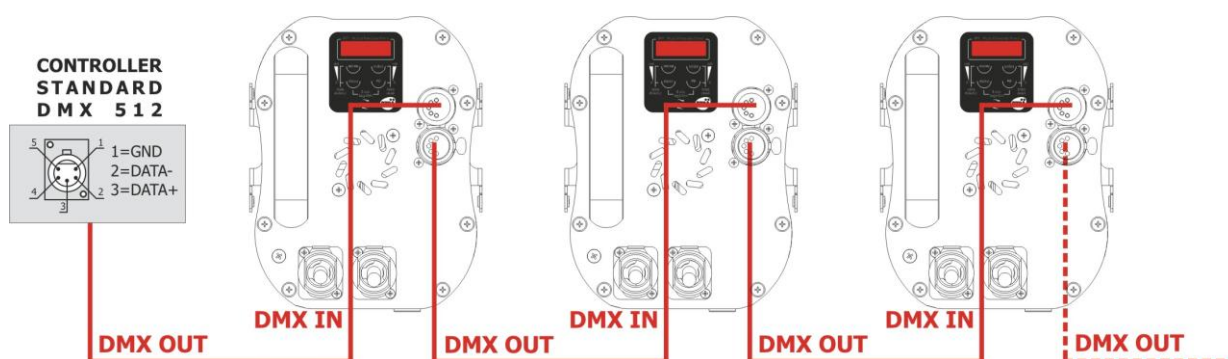
Connection between the controller and the unit or between units must be carried out using a two pair screened \varnothing 0.5 mm.

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.



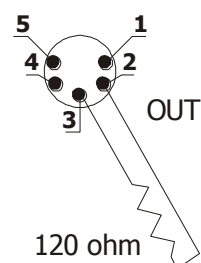
If the display showing the DMX address flashes, then one of the following errors has occurred:

- DMX signal not present
- DMX reception problem

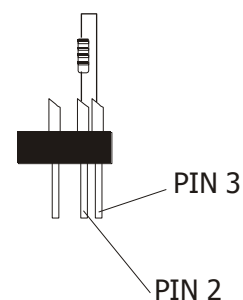
For Installations where long distance DMX cable connections are needed, we suggest to use a DMX terminator.

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 FC can be controlled with 10 DMX channels mode (Default). In order to use the unit in 10 DMX channels mode, set the following addresses on the mixer:

Projector 1	A001	
Projector 2	A011	If you want to select the next projector, just add "10"
Projector 3	A021	
.....	A....	
projector 6	A051	

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- FIRMWARE UPDATING

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

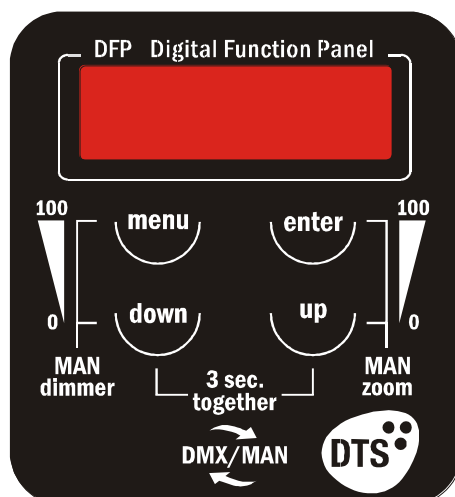
- D.T.S. RED BOX interface (D.T.S. Code: 03.LA.008)
- USB-DMX Driver for the D.T.S. RED BOX interface
- "D.T.S. Firmware upgrade utility" program installed on PC
- Latest firmware release available for PROFILO LED 80 FC unit

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.

11- DISPLAY FUNCTIONS












































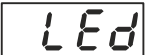











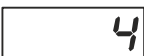











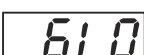


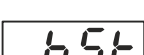






DISPLAY FUNCTIONS

The PROFILO LED 80 FC 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 5.13

  ROOM	  DISP	  Pos1	 AA	Floor Position 
REVERSE DISPLAY Reverses display's reading depending on the mounting position (on the ground or suspended).	 Stby	  off	BB	Suspended Position 
DISPLAY STAND-BY To turn off the display (after 5 seconds) Or leave it always on.	 1ch	 5urE	 on	Display Off 
	 10cH	 Std	 1ch	Display Always on 
DMX MODE To select DMX mode: 10 DMX channels mode (default), 6 DMX channel mode, 15 DMX channels mode, "WALL" mode, "M4CH" mode, "RGBA" mode or 1 DMX channel mode.	 6cH	 Ext		Default DMX Mode 10 Channels
MACRO MACRO Function, enable channel mapping macro rainbow effects STD (default)	 15cH	 1cH		6 DMX channels mode
	 WALL	 15cH		15 DMX channels mode
	 M4cH	 6cH		"WALL" 6 channels mode
	 RGBA	 M4cH		"M4CH" 5 channels mode
	 1cH	 1cH		"RGBA" 4 channels mode
	 1cH	 1cH		1 channel mode
	 MACr	  Std	 Ext	Standard mode enabled: (Default).
			 Ext	Extended mode enabled: Rainbow effects on MACRO channel.

	 		 		 		Range: 0-100	
LED RGBW Min/Max, Smooth, Compression, Sync and Boost level values settings					 		Range = Off-20 Default = 4	
RGBW MINIMUM VALUE This menu allows to select the minimum levels for Red, Green, Blue And White					 		Quadratic = Linear light output	
RGBW MAXIMUM VALUE This menu allows to select the maximum levels for Red, Green, Blue and White					 		Linear = Linear Current output	
These settings have priority on Master Dimmer channel					 		Boost mode activated	
SMOOTH VALUE This menu allows to select the value of the delay (in milliseconds) for Dimmer channel reaction to DMX or Program variation. Off = 25 ms Instant response to DMX variation. 20 = 250 ms Smooth response to DMX variation.							Boost mode deactivated	

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

COMPRESSION

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

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 allows to increase the
LED's current from 350mA to
500mA



AUTO

SUFE

ChPr

SPEED

00 10

WAIT

00 10

AUTOMATIC MODE

Automatic demo game without DMX controller

ChPr

Chase with 16 steps previously created in REC MODE

Speed and Wait time selectable by user

CUPr

RGBW values selectable by user

Rainbow (rAI n)

Rainbow colours effect.

Speed time selectable by user

CU01-CU16

Color Macros as on DMX channel 9 (MACRO)

WHITE MACROS

16 macros for White color from 2800K to 6500K

DIMMER

Dimmer level selectable by user as on DMX channel 2 (DIMMER)

Dimmer level is active for all the programs and macros

SHUTTER

Shutter level selectable by user as on DMX channel 1 (SHUTTER)

Shutter level is active only for CU01/CU16 and Wh01/Wh16 macros

ESC

Esc from Automatic Mode Menu

CUPr

rEd

120

GrEE

255

blUE

104

WHIT

104

rAI n

SPEED

00 10

CU01

CU02

CU 16

WH01

WH02

WH03

WH04

WH05

WH.....

WH 16

dimm

255

SHUT

255

ESC



REC

10CH

r001

r001

r002

r0.....

r0 16

REC MODE

In DMX Recorder Mode, it is possible to create and store the scenes of the ChPr by using an external DMX controller.

The unit must be set to 10 channels mode.

DMX Recorder Mode

For the programming of ChPr by using a DMX controller, besides the 10 channels necessary to control the unit a further 3 DMX channels are needed.

So that in RECORDER mode (via DMX) the unit will need 13 channels to be correctly programmed.

The three new DMX channels are:

DMX channel 11 = SCENES channel

From 0-10 = no function (r001)

From 11-255 are displayed the programmable scenes (max 16 scenes from M001 to M0016)

DMX channel 12 = EDIT channel:

-From 0-19 = no function

-From 20-234 the unit runs the configuration given by the received input DMX values.

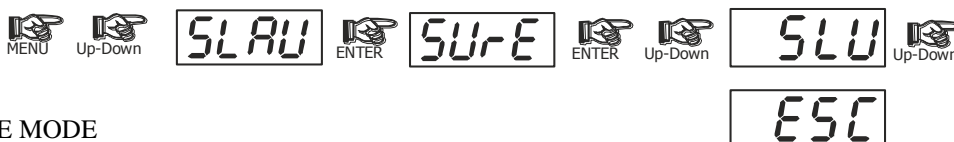
With the channel SCENES it is possible to pass from one step to the next while with REC it is possible to record the selected scene.

-From 235-255 the unit runs the configuration given by the received input DMX values closing the sequence as last scene.

With the channel REC it is possible to record the selected scene as last scene.

DMX channel 13 = RECORDING channel

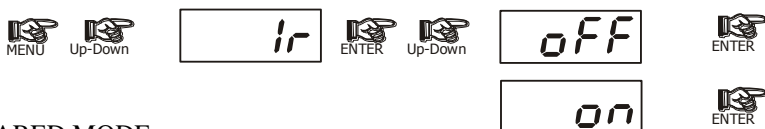
Records the set scene with a variation between 0 to 255 (the display flashes indicating that the scene has been recorded). It is advised that you keep the REC channel set to 0 and to run through the 255 only once you have decided to save the scene. If ChPr is not closed, by indicating the last scene (Edit channel between 235-255), in playback mode all 16 scenes will be played through even if not programmed



SLAVE MODE

Slave mode for ChPr program.

All slave units will be synchronised with master unit, running their own Chpr program.



INFRARED MODE

Infrared remote control.

By activating Ir Mode, it will be possible to navigate through the unit functions by using the D.T.S.

infrared remote control
(D.T.S. Code: 0514L008)

Note:

External infrared remote sensor needed (D.T.S. Code: 03.LA.016)

NOT IMPLEMENTED ON PROFILO LED 80 FC



WIRELESS DMX

Wireless DMX enabled / disabled.

By activating WDMX MODE, it will be possible to control PROFILO LED 80 FC via D.T.S. ANTENNA Wireless DMX Transmitter (cod. 03.E1271).

Active only on PROFILO LED 80 FC with Wireless on board



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





To log on the PROFILO LED 80 FC 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 / PROFILO LED 80 FC units. When a PROFILO LED 80 FC 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 PROFILO LED 80 FC now try to synchronize to the transmitter.

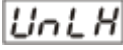

When synchronized to the transmitter, 2 different modes are possible:

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

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

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

Logging out a PROFILO LED 80 FC

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

Logging out all PROFILO LED 80 FC units linked to a transmitter

Press and hold the function button of the transmitter for about 3 seconds. When the display is blinking on PROFILO LED 80 FC, 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 PROFILO LED 80 FC unit, not logged in to any other transmitter, will be logged on)

PROFILO LED 80 FC Status

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

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



ENER



SEL



off



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.

on



dimm



DFSE



SURE



DEFAULT SETTING

To restore default settings



TEMP



0250



Internal unit temperature (° Celsius)

TEMPERATURE

Internal unit temperature visualisation



LIFE



red



LIFE TIME

This menu shows the total unit life time and the Red, Green, Blue and White life time

Green



blue



white



Unit



Soft



0.122

SOFTWARE

Software version

12- DMX PROTOCOL**10 CHANNELS MODE (Default)**

- 1 SHUTTER
- 2 DIMMER
- 3 RED
- 4 GREEN
- 5 BLUE
- 6 WHITE
- 7 WHITE PRE-PROGRAMMED
- 8 CTC
- 9 MACRO
- 10 FUNCTIONS

DMX CHANNEL	1	Parameter: SHUTTER
-------------	---	---------------------------

DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-009	5				Black-out
010-019	14				Open
020-029	24				Black-out
030-119					Strobe at variable speed from slow to fast (3,27 s – 30 ms)
120-149					Pulse open at variable speed from slow to fast (42,6 s – 120 ms)
150-179					Pulse close at variable speed from slow to fast (42,6 s – 120 ms)
180-204	192				Random Strobe
205-229	218				Full Independent Random Strobe
230-234					Red, Yellow, Cyan and Blue colour effects at variable speed
235-255	245				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: RED
-------------	---	-----------------------

DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-255					Proportional colour

DMX CHANNEL	4	Parameter: GREEN
-------------	---	-------------------------

DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-255					Proportional colour

DMX CHANNEL	5	Parameter: BLUE
-------------	---	------------------------

DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-255					Proportional colour

DMX CHANNEL	6	Parameter: WHITE
-------------	---	-------------------------

DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-255					Proportional colour

DMX CHANNEL	7	Parameter: WHITE PRE-PROGRAMMED
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DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-055	23				No Function
056-105	80				Full (Red-Green-Blue at Full)
106-155	130				White DTS

IF CHANNEL 10 (FUNCTIONS) = CUSTOM WHITE RECALL (DMX range value 000-079)

156-205	180				Custom White Recall
206-255	225				White CTC (Channel 8 CTC enabled 256 color temp. Correction Macros: 2800°K – 6500°K)

IF CHANNEL 10 (FUNCTIONS) = CUSTOM WHITE CREATE (DMX range value 080-160)

156-205	180				Custom White Create (RGB levels selectable by DMX)
206-255	225				White CTC (Channel 8 CTC enabled 256 color temp. Correction Macros: 2800°K – 6500°K)

DMX CHANNEL	8	Parameter: CTC (Colour Temperature Correction)
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DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
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IF CHANNEL 7 (WHITE PRE-PROGRAMMED) = WHITE CTC (DMX range value 206-255)





000-255					256 colour temp. Correction Macros: 0=2800°K / 128=4500°K / 255=6500°K
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IF CHANNEL 7 (WHITE PRE-PROGRAMMED) = NO FUNCTION (DMX range value 000-055)

000-255					NO FUNCTION
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DMX CHANNEL	9	Parameter: MACRO
IF:  node  MAC  5td  PLEASE CHECK PAGE 11		

DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-014					No Function
015-029					Macro 1
030-044					Macro 2
045-059					Macro 3
060-074					Macro 4
075-089					Macro 5
090-104					Macro 6
105-119					Macro 7
120-134					Macro 8
135-149					Macro 9
150-164					Macro 10
165-179					Macro 11
180-194					Macro 12
195-209					Macro 13
210-225					Macro 14
226-239					Macro 15
240-255					Macro 16

DMX CHANNEL	9	Parameter: MACRO
IF:  node  MAC  EHL  PLEASE CHECK PAGE 11		

DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-014					No Function
015-022					Macro 1
023-030					Macro 2
031-038					Macro 3
039-046					Macro 4
047-054					Macro 5
055-062					Macro 6
063-070					Macro 7
071-078					Macro 8
079-086					Macro 9
087-094					Macro 10
095-102					Macro 11
103-110					Macro 12
111-118					Macro 13
119-126					Macro 14
127-134					Macro 15
135-142					Macro 16
143-150					Rainbow Speed 1 (1 Sec.)
151-158					Rainbow Speed 2 (5 Sec.)
159-166					Rainbow Speed 3 (10 Sec.)
167-174					Rainbow Speed 4 (20 Sec.)
175-182					Rainbow Speed 5 (30 Sec.)
183-190					Rainbow Speed 6 (60 Sec.)
191-198					Rainbow Speed 7 (120 Sec.)
199-206					Rainbow Speed 8 (180 Sec.)
207-214					Random Speed 1 (0,5 Sec.)
215-222					Random Speed 2 (1 Sec.)
223-230					Random Speed 3 (2 Sec.)
231-238					Random Speed 4 (5 Sec.)
239-246					Random Speed 5 (10 Sec.)
247-255					Random Speed 6 (30 Sec.)

DMX CHANNEL	10	Parameter: FUNCTIONS (Recall, Create and Store the Custom white)
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DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-079					Custom White Recall (Enable CH 7 for Custom white Recall)
080-160					Custom White Create (Enable CH 7 for Custom white Creation)
161-255					Custom White Store (Store the Custom White created)

“WALL” 6 CHANNELS MODE

(For use with DTS Wall mounted DMX controller 0514L007)



- 1 GREEN
- 2 RED
- 3 BLUE
- 4 DIMMER
- 5 NOT USED
- 6 SHUTTER

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

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

DMX CHANNEL	3	Parameter: BLUE
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DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-255					Proportional colour

DMX CHANNEL	4	Parameter: DIMMER
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DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-255					Proportional dimmer

DMX CHANNEL	5	Parameter: NOT USED
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DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-255					No Function

DMX CHANNEL	6	Parameter: SHUTTER
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DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-009	5				Black-out
010-019	14				Open
020-029	24				Black-out
030-119					Strobe at variable speed from slow to fast (3,27 s – 30 ms)
120-149					Pulse open at variable speed from slow to fast (42,6 s – 120 ms)
150-179					Pulse close at variable speed from slow to fast (42,6 s – 120 ms)
180-204	192				Random Strobe
205-229	218				Full Independent Random Strobe
230-234					Red, Yellow, Cyan and Blue colour effects at variable speed
235-255	245				Open

“M4CH” 5 CHANNELS MODE

- 1 **DIMMER**
- 2 **RED**
- 3 **GREEN**
- 4 **BLUE**
- 5 **WHITE**

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

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

DMX CHANNEL	3	Parameter: GREEN
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DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-255					Proportional colour

DMX CHANNEL	4	Parameter: BLUE
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DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-255					Proportional colour

DMX CHANNEL	5	Parameter: WHITE
-------------	---	-------------------------

DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-255					Proportional colour

4 CHANNELS MODE

- 1 **RED**
- 2 **GREEN**
- 3 **BLUE**
- 4 **WHITE**

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

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

DMX CHANNEL	3	Parameter: BLUE
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DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-255					Proportional colour

DMX CHANNEL	4	Parameter: WHITE
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DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-255					Proportional colour

1 CHANNEL MODE

1 DIMMER

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

15 CHANNELS MODE

- 1 SHUTTER
- 2 DIMMER
- 3 DIMMER FINE
- 4 RED
- 5 RED FINE
- 6 GREEN
- 7 GREEN FINE
- 8 BLUE
- 9 BLUE FINE
- 10 WHITE
- 11 WHITE FINE
- 12 WHITE PRE-PROGRAMMED
- 13 CTC
- 14 MACRO
- 15 FUNCTIONS

DMX CHANNEL	1	Parameter: SHUTTER
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DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-009	5				Black-out
010-019	14				Open
020-029	24				Black-out
030-119					Strobe at variable speed from slow to fast (3,27 s – 30 ms)
120-149					Pulse open at variable speed from slow to fast (42,6 s – 120 ms)
150-179					Pulse close at variable speed from slow to fast (42,6 s – 120 ms)
180-204	192				Random Strobe
205-229	218				Full Independent Random Strobe
230-234					Red, Yellow, Cyan and Blue colour effects at variable speed
235-255	245				Open

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

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

DMX CHANNEL	4	Parameter: RED
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DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-255					Proportional colour

DMX CHANNEL	5	Parameter: RED FINE
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DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-255					Proportional colour

DMX CHANNEL	6	Parameter: GREEN
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DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-255					Proportional colour

DMX CHANNEL	7	Parameter: GREEN FINE
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DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-255					Proportional colour

DMX CHANNEL	8	Parameter: BLUE
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DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-255					Proportional colour

DMX CHANNEL	9	Parameter: BLUE FINE
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DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-255					Proportional colour

DMX CHANNEL	10	Parameter: WHITE
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DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-255					Proportional colour

DMX CHANNEL	11	Parameter: WHITE FINE
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DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-255					Proportional colour

DMX CHANNEL	12	Parameter: WHITE PRE-PROGRAMMED
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DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-055	23				No Function
056-105	80				Full (Red-Green-Blue at Full)
106-155	130				White DTS

IF CHANNEL 15 (FUNCTIONS) = CUSTOM WHITE RECALL (DMX range value 000-079)

DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
156-205	180				Custom White Recall
206-255	225				White CTC (Channel 13 CTC enabled 256 color temp. Correction Macros: 2800°K – 6500°K)

IF CHANNEL 15 (FUNCTIONS) = CUSTOM WHITE CREATE (DMX range value 080-160)

DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
156-205	180				Custom White Create (RGB levels selectable by DMX)
206-255	225				White CTC (Channel 13 CTC enabled 256 color temp. Correction Macros: 2800°K – 6500°K)

DMX CHANNEL	13	Parameter: CTC (Colour Temperature Correction)
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DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
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IF CHANNEL 12 (WHITE PRE-PROGRAMMED) = WHITE CTC (DMX range value 206-255)





000-255					256 colour temp. Correction Macros: 0=2800°K / 128=4500°K / 255=6500°K
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IF CHANNEL 12 (WHITE PRE-PROGRAMMED) = NO FUNCTION (DMX range value 000-043)

000-255					NO FUNCTION
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DMX CHANNEL	14	Parameter: MACRO
IF:  node  MAC  5td  PLEASE CHECK PAGE 11		

DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-014					No Function
015-029					Macro 1
030-044					Macro 2
045-059					Macro 3
060-074					Macro 4
075-089					Macro 5
090-104					Macro 6
105-119					Macro 7
120-134					Macro 8
135-149					Macro 9
150-164					Macro 10
165-179					Macro 11
180-194					Macro 12
195-209					Macro 13
210-225					Macro 14
226-239					Macro 15
240-255					Macro 16

DMX CHANNEL	14	Parameter: MACRO
IF:  node  MAC  EHL  PLEASE CHECK PAGE 11		

DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-014					No Function
015-022					Macro 1
023-030					Macro 2
031-038					Macro 3
039-046					Macro 4
047-054					Macro 5
055-062					Macro 6
063-070					Macro 7
071-078					Macro 8
079-086					Macro 9
087-094					Macro 10
095-102					Macro 11
103-110					Macro 12
111-118					Macro 13
119-126					Macro 14
127-134					Macro 15
135-142					Macro 16
143-150					Rainbow Speed 1 (1 Sec.)
151-158					Rainbow Speed 2 (5 Sec.)
159-166					Rainbow Speed 3 (10 Sec.)
167-174					Rainbow Speed 4 (20 Sec.)
175-182					Rainbow Speed 5 (30 Sec.)
183-190					Rainbow Speed 6 (60 Sec.)
191-198					Rainbow Speed 7 (120 Sec.)
199-206					Rainbow Speed 8 (180 Sec.)
207-214					Random Speed 1 (0,5 Sec.)
215-222					Random Speed 2 (1 Sec.)
223-230					Random Speed 3 (2 Sec.)
231-238					Random Speed 4 (5 Sec.)
239-246					Random Speed 5 (10 Sec.)
247-255					Random Speed 6 (30 Sec.)

DMX CHANNEL	15	Parameter: FUNCTIONS (Recall, Create and Store the Custom white)
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DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-079					Custom White Recall (Enable CH 12 for Custom white Recall)
080-160					Custom White Create (Enable CH 12 for Custom white Creation)
161-255					Custom White Store (Store the Custom White created)

NOTES

NOTES

NOTES

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