

Le informazioni contenute in questo documento sono state attentamente redatte e controllate. Tuttavia non è assunta alcuna responsabilità per eventuali inesattezze. Tutti i diritti sono riservati e questo documento non può essere copiato, fotocopiato, riprodotto per intero o in parte senza previo consenso scritto della D.T.S.

D.T.S. si riserva il diritto di apportare senza preavviso cambiamenti e modifiche estetiche, funzionali o di design a ciascun proprio prodotto. D.T.S non assume alcuna responsabilità sull'uso o sull'applicazione dei prodotti o dei circuiti descritti.

The information contained in this publication has been carefully prepared and checked. However, no responsibility will be taken for any errors. All rights are reserved and this document cannot be copied, photocopied or reproduced, in part or completely, without prior written consent from D.T.S.

D.T.S. reserves the right to make any aesthetic, functional or design modifications to any of its products without prior notice. D.T.S. assumes no responsibility for the use or application of the products or circuits described herein.

Les informations contenues dans le présent manuel ont été rédigées et contrôlées avec le plus grand soin. Nous déclinons toutefois toute responsabilité en cas d'éventuelles inexactitudes. Tous droits réservés. Ce document ne peut être copié, photocopié ou reproduit, dans sa totalité ou partiellement, sans le consentement préalable de D.T.S. D.T.S. se réserve le droit d'apporter toutes modifications et améliorations esthétiques, fonctionnelles ou de design, sans préavis, à chacun de ses produits. D.T.S. décline toute responsabilité sur l'utilisation ou sur l'application des produits ou des circuits décrits.

Las informaciones contenidas en este documento han sido cuidadosamente redactadas y controladas. Con todo, no se asume ninguna responsabilidad por eventuales inexactitudes. Todos los derechos han sido reservados y este documento no puede ser copiado, fotocopiado o reproducido, total o parcialmente, sin previa autorización escrita de D.T.S.

D.T.S. se reserva el derecho a aportar sin previo aviso cambios y modificaciones de carácter estético, funcional o de diseño a cada producto suyo. D.T.S. no se asume responsabilidad de ningún tipo sobre la utilización o sobre la aplicación de los productos o de los circuitos descritos.



# **INDEX:**

1- SYMBOLS	4
2- GENERAL WARNING	4
3- GENERAL WARRANTY CONDITION	4
4- TECHNICAL FEATURES	5
6- ACCESSORIES	6
7- IMPORTANT SAFETY INFORMATION	9
7.1 Fire prevention	
7.2 Prevention of electric shock	
7.3 Safety	
7.4 Level of protection against the penetration of solid and liquid objects	
7.5 Waste electrical and electronic equipment (WEEE) directive	
8- INSTALLATION	10
9- INPUT / OUTPUT CONNECTIONS	11
10- DMX SIGNAL CONNECTION	14
10.1 DMX Addresses	
10.2 Selecting the DMX address	
11- FIRMWARE UPDATING	16
12- DISPLAY FUNCTIONS	17
13- DMX PROTOCOL	24



# 1-SYMBOLS

Graphic symbols used on this manual:



THIS SYMBOL INDICATES A HOT SURFACE



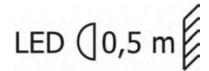
THIS SYMBOL INDICATES ELECTRIC SHOCK RISK



THIS SYMBOL INDICATES GENERAL RISK



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



THIS SYMBOL INDICATES THE MINIMUM DISTANCE BETWEEN THE UNIT AND THE ILLUMINATED 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 unit is not for residential use and must be installed by a qualified electrician or experienced person. Do not open the unit. The level of technology inherent in the unit requires the assistance of specialised personnel for all servicing. Please refer to an authorised D.T.S. service centre. In case lenses sets replacement is needed, frontal gasket must be replaced so as to maintain IP 65 rate protection.

LEDs are not replaceable. 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**

### **FOS 100 POWER SOLO FC**

# **LED Technology**

24 x FULL RGBW LEDs; 7.028 Lux / 3 m;

16 million colours; linear colour temperature 2700K – 6500K LEDs average lifespan: 75.000 hours (70% lumen output)

# **Optical group**

3 lenses sets available (Spot, Medium flood, Wide flood)

# Control

Via any DMX lighting console

### **Protection level**

IP20 or IP65

### Construction

FOS units are made on extruded aluminium

# **Connections**

FOS 100 POWER SOLO IP20: POWERCON In/Out + XLR 5 poles In/Out

FOS 100 POWER SOLO IP65: Power input cable with cable gland; HARTING power re-

send panel connector; XLR 5 poles In/Out (IP20)

# **Power supply**

Integrated Z10 POWER IP20 or IP65 PSU (FOS 100 POWER SOLO)

Electronic full range 90-260Vac 50-60 Hz

# **Power consumption**

200W



# **4- TECHNICAL FEATURES**

### **FOS 100 POWER FC**

# **LED Technology**

24 x FULL RGBW LEDs; 7.028 Lux / 3 m;

16 million colours; linear colour temperature 2700K – 6500K LEDs average lifespan: 75.000 hours (70% lumen output)

# **Optical group**

3 lenses sets available (Spot, Medium flood, Wide flood)

### Control

Via any DMX lighting console (External power supply / LED Controller required)

### **Protection level**

**IP65** 

### Construction

FOS units are made on extruded aluminium

# **Connections**

M16 male connector + 30 cm cable connection system between Power supply and LED bar

# **Power supply**

External dedicated Z40 power supply / LED controller Electronic full range 90-260Vac 50-60 Hz

### Max current

1600mA

# **Power consumption**

200W



# **6- ACCESSORIES**

# As standard (IP20)

1 x User's Manual

1 x POWERCON IN male cable connector (FOS 100 POWER SOLO)

(D.T.S. Code: 0520P014)

1 x POWERCON OUT male cable connector (FOS 100 POWER SOLO)

(D.T.S. Code: 0520P029)

1 x XLR 5 poles male cable connector (D.T.S. Code: 0508B028)

1 x XLR 5 poles female cable connector (D.T.S. Code: 0508B027)

1 x Joint/spacer (D.T.S. Code: 00M09519.46 black finish; 00M09519.44 grey finish) with

2 x knobs (D.T.S. Code: 0511P014)

# As standard (IP65)

1 x User's Manual

1 x HARTING 5 poles male cable connector (D.T.S. Code: 02LD0093.1)

1 x Joint/spacer (D.T.S. Code: 00M09519.46 black finish; 00M09519.44 grey finish) with

2 x knobs (D.T.S. Code: 0511P014)

# Optional (on request)

Lenses set Spot (FOS 100 POWER FULLCOLOUR) (D.T.S. Code 03.LK.107)
Lenses set Medium flood (FOS 100 POWER FULLCOLOUR) (D.T.S. Code 03.LK.108)
Lenses set Wide flood (FOS 100 POWER FULLCOLOUR) (D.T.S. Code 03.LK.109)

Lenses set Medium flood (FOS 100 POWER RGBW) (D.T.S. Code 03.LK.114) Lenses set Wide flood (FOS 100 POWER RGBW) (D.T.S. Code 03.LK.115)

G60 "C" Clamp (Max. load 50 Kg) \*Black (D.T.S. Code 0521A004) G50 "C" Clamp (Max. load 10 Kg) \*Black (D.T.S. Code 0521A012)

M16 female (9 poles) cable connector (D.T.S. Code 0508B106) M16 male (9 poles) cable connector (D.T.S. Code 0508B105)

Z40 Power supply / LED controller (FOS 100 POWER) (D.T.S. Code 03.LA.120)



# **DIMENSIONS**

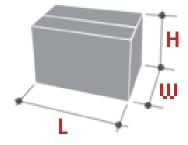
# **FOS 100 POWER SOLO**

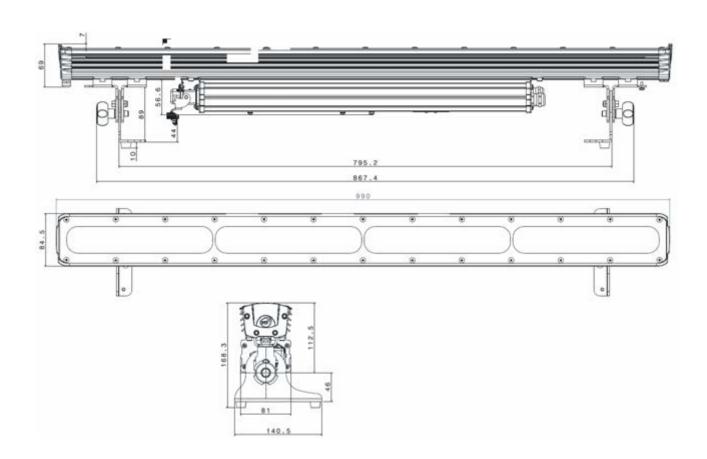
Unit Dimensions (LxWxH) 990 x 81 x 168,3 mm

Weight 7 Kg

**Packing Dimensions** (LxWxH) 1060 x 160 x 200 mm

Weight 8,5 Kg







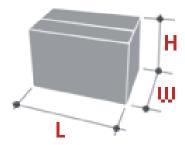
# **FOS 100 POWER**

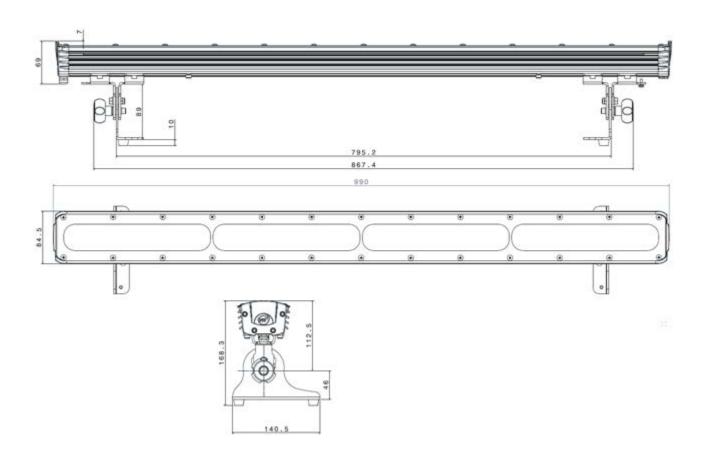
Unit Dimensions (LxWxH) 990 x 56 x 84,5 mm

Weight 5,5 Kg

Packing Dimensions (LxWxH) 1060 x 160 x 200 mm

Weight 7 Kg





# 7- IMPORTANT SAFETY INFORMATION

# 7.1 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: 0,5 m. LED 0,5 m

# 7.2 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 FOS 100 POWER SOLO unit.

Use only AC supplies 90-260V 50-60 Hz.

FOS 100 POWER SOLO IP20 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.

# 7.3 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.

# 7.4 Level of protection against the penetration of solid and liquid objects:



The unit is classified as an outdoor appliance and its protection level against the penetration of solid and liquid objects is IP 65 (FOS 100 POWER).

# 7.5 Waste Electrical and Electronic Equipment (WEEE) directive:



The LED bar, 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.



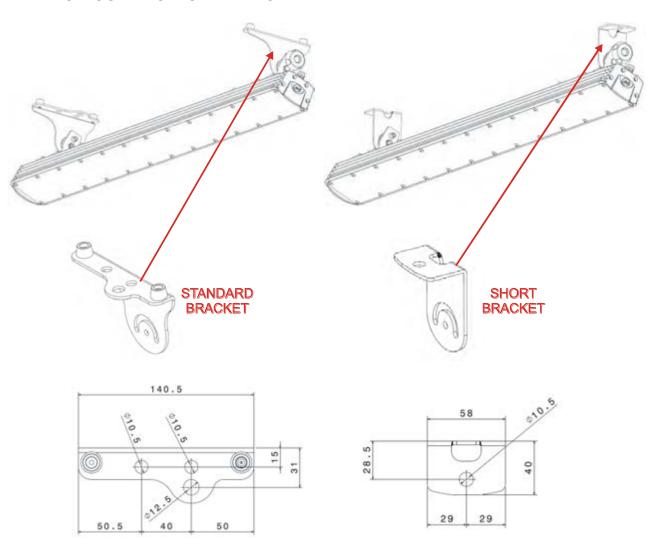
# **8-INSTALLATION**

The unit is suitable for use in wet locations. The unit may be either floor or ceiling mounted.

# FLOOR MOUNTING INSTALLATION:



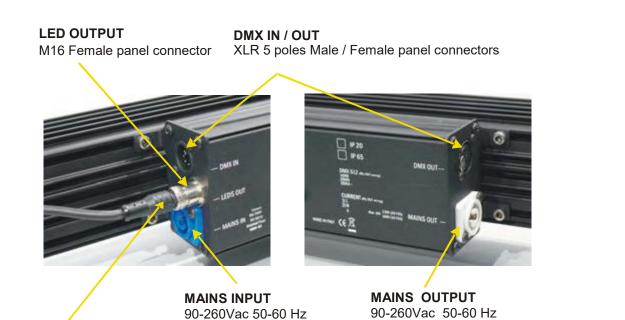
# **CEILING MOUNTING INSTALLATION:**





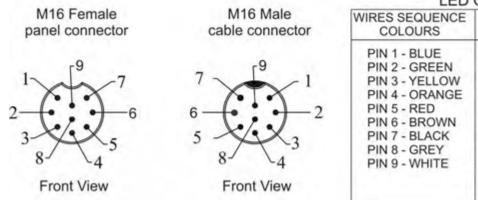
# 9-INPUT / OUTPUT CONNECTIONS

# **FOS 100 POWER SOLO IP20**



POWERCON panel connector POWERCON panel connector

**LED INPUT**M16 Male cable connector



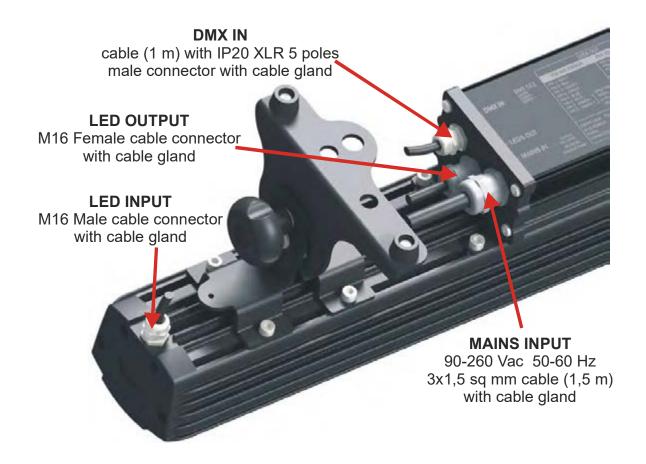
WIRES SEQUENCE COLOURS	PIN OUT
PIN 1 - BLUE PIN 2 - GREEN PIN 3 - YELLOW PIN 4 - ORANGE PIN 5 - RED PIN 6 - BROWN PIN 7 - BLACK PIN 8 - GREY PIN 9 - WHITE	PIN 1: RED + PIN 2: GREEN + PIN 3: BLUE + PIN 4: WHITE + COMMON RED - PIN 6: GREEN - BLUE - WHITE - PIN 7: WHITE - PIN 8: NTC (THERMAL) PIN 9: NTC (SENSOR)

LED QUITDUTE

Max 5 FOS 100 PWR SOLO @ 120Vac



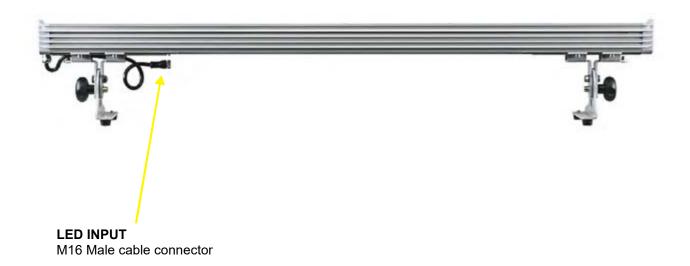
### **FOS 100 POWER SOLO IP65**

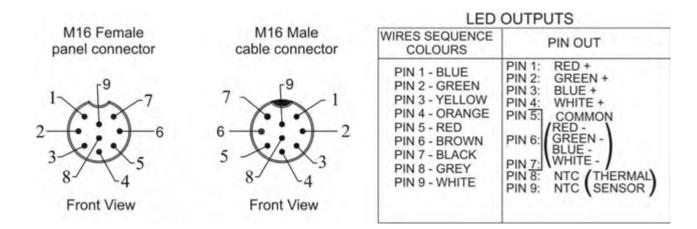


# Cable (1 m) with IP20 XLR 5 poles female connector with cable gland MAINS OUTPUT 90-260 Vac 50-60 Hz HARTING female panel connector Max 10 FOS 100 PWR SOLO @ 230V Max 5 FOS 100 PWR SOLO @ 110V



# **FOS 100 POWER (IP65)**





# 10- DMX SIGNAL CONNECTION (FOS 100 POWER SOLO):

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.



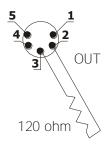
If the display showing the DMX address flashes, then one of the following errors has occurred:

- DMX signal not present
- DMX reception problem

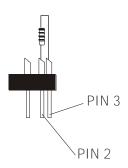
For Installations where long distance DMX cable connections are needed, we suggest to use a DMX terminator.

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



### 10.1 DMX addresses

FOS 100 POWER SOLO (all models) can be used in seven different modes: 10 DMX channels mode (default), 6 DMX channels mode (Shutter + Dimmer + RGBW), WALL mode (6 DMX channels; for use with DTS Wall mounted DMX controller 0514L007), M4CH mode (5 DMX channels; Dimmer + RGBW), RGBW mode (4 channels), 1 DMX channel mode or CUSTOM DMX mode (not yet implemented).

If you want to use the FOS 100 POWER SOLO in 10 channels mode, select the 10 CH mode from the MODE menu and set the following addresses on the mixer:

1
If you want to select the next projector, just add "10"
1
1

If you want to use the FOS 100 POWER SOLO in "WALL" mode, select the "WALL" mode from the MODE menu and set the following addresses on the mixer: (To be used only with DTS Wall mounted DMX controller 0514L007)

Projector 1 Projector 2 Projector 3 A	A009	DTS Wall mounted DMX controller 0514L007 assign 8 DMX channels per unit even if some channels are not used
projector 6	A041	

# 10.2 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.



# 11- FIRMWARE UPDATING

# Warning:

This procedure require a base knowledge of Windows computer applications. Please refer to an authorised D.T.S. service centre.



To update the software version of the FOS 100 POWER SOLO 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.
- Latest software release available for FOS 100 POWER SOLO unit.

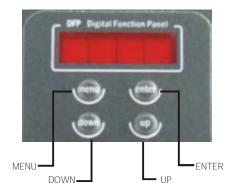
# Updating the software version.

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. Download the new software version into the unit by using "D.T.S. Firmware upgrade utility" program.



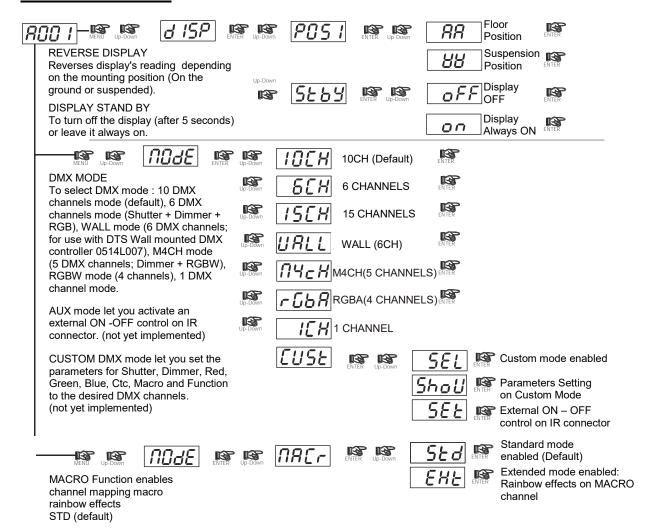
### 12- DISPLAY FUNCTIONS



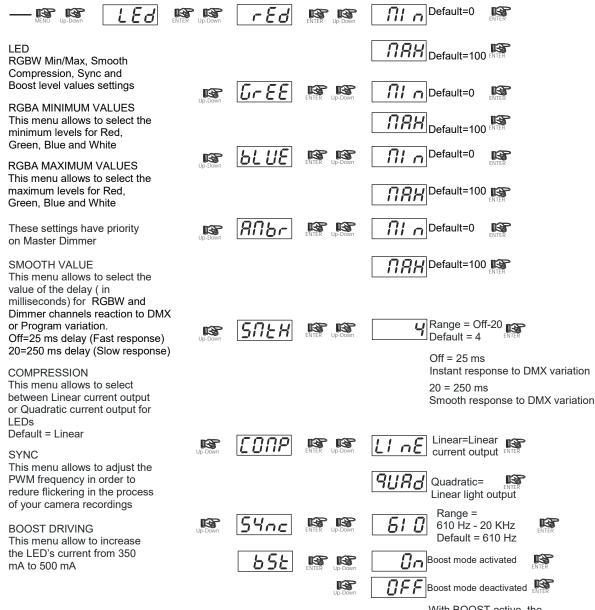
The FOS 100 POWER SOLO display panel shows all the available functions. Using these functions, it is possible to change some of the parameters and add some functions. Changing the D.T.S. setting can vary the functions of the unit so that it does not respond to the DMX 512 signal used to control it. Carefully 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.

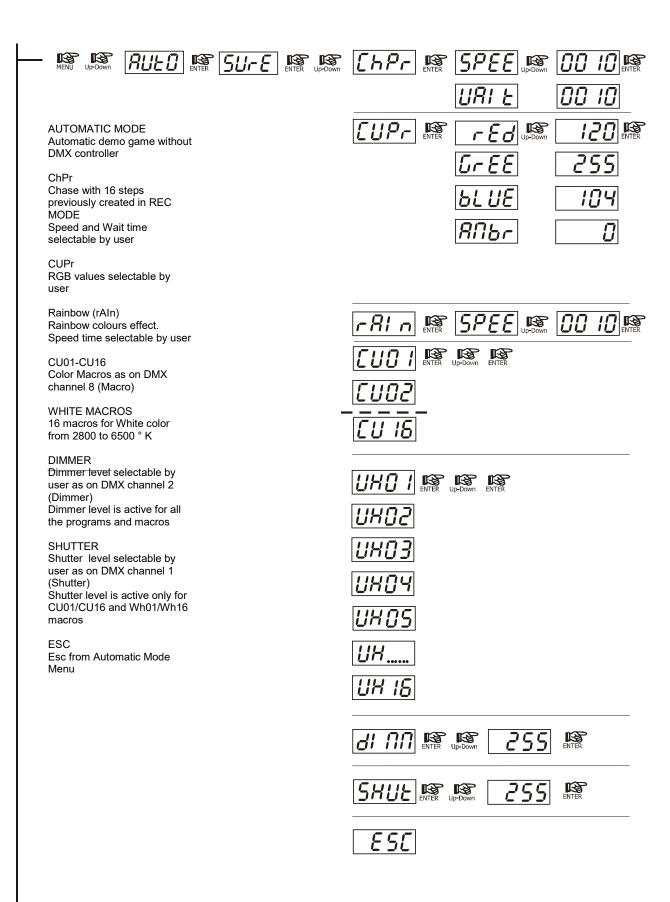
### Software version 5.16



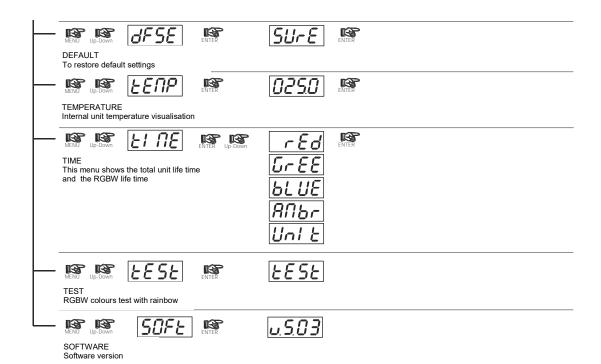




With BOOST active, the LED's current is set to 500mA (30%more gain). Default = Activated



MENU UP-DOWN FEC ENTER TOCH ENTER FOR T	
REC MODE 700 1	
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 setted to 10 channels MODE	
[NO 15]	
DMX Recorder Mode	
For the programming of ChPr by using a DMX controller, besides the 10 channels necessary t a further 3 DMX channels are needed.	o control the unit
So that in RECORDER mode (via DMX) the unit will need 13 channels to be correctly program	nmed.
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 t	he 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 to	
been recorded). It is advised that you keep the REC channel set to 0 and to run through the 25 have decided to save the scene. If ChPr is not closed, by indicating the last scene ( Edit channel set to 0 and to run through the 25 have decided to save the scene.	
255), in playback mode all 16 scenes will be played through even if not programmed	ici between 200-
MENU UPDOWN SLAU ENTER SUFE UPDOWN SLUT ENTER	
SLAVE MODE EST	
Slave mode for ChPr program.  All slave units will be synchronised with master unit,	
running their own Chpr program.	
MENU Up-Down / r ENTER Up-Down ENTER	
INFRARED MODE    INFRARED MODE	
Infrared remote control.  External infrared response sensor needed.	emote
By activating Ir MODE, it will be possible to navigate  D.T.S. Code: 03.1	A 016
through the unit functions by using the D.T.S. infrared remote control.	
D.T.S. Code :0514L008	
MENÜ Up-Down ENTER Up-Down ENTER	
FAN SPEED CONTROL Internal Fan Speed control selectable by	
Internal Fan Speed control selectable by user.	
Range: OFF - 24 volt Default : 24 volt	
EMERGENCY  EMERGENCY  EMERGENCY  ENTER Up-Down  ENTER Up-Down  ENTER Up-Down  ENTER Up-Down	
Emergency operating mode	D ( " 055
By setting Emergency mode, it will be possible to select	Default = OFF
one of the 16 preprogrammed WHITE cues that will then ran if DMX signal is missing or	Default = White 1
not available.	
Useful for Emergency EXIT illumination on public areas.	Default = 255
public areas.	



# **AUTOMATIC OPERATION (AUTO):**

FOS 100 POWER SOLO can work in automatic mode without a DMX controller. First of all connect the projectors with a DMX cable (picture below). A maximum quantity of 32 slave units can be connected to the same Master unit.



To activate Auto mode on the first unit, use the menu to run through the different modes until AUTO appears on the display, and press enter.

Now it is possible to choose between the different pre-programmed games (CUPr-RAIn-CU01/CU16-Wh01/Wh16) or ChPr which is user programmable through REC mode. To confirm game activation press ENTER on the selected GAME.

# CUPr-RAIn-CU01/CU16-Wh01/Wh16

The first unit that will work as a Master should be placed in Automatic mode (AUTO), the other units have to be placed 10 channels DMX mode (MODE 10 CH) and the DMX address should be set at A001. For Raln (rainbow) game it is possible to select the speed for the colour changling (SPEE).

DIMMER function (in AUTOMATIC MODE) is active for all the programs. SHUTTER function (in AUTOMATIC MODE) is active only for CU01/CU16 and Wh01/Wh16 macros.

# **ChPr MASTER/SLAVE**

The first unit that will function as a Master must be set to Automatic mode (AUTO), the other units must be set to Slave mode (SLAV), selectable through the menu. In this way all the Slave units will be synchronised with the master and running their own ChPr game.

On the master unit it is possible to vary the Speed time (SPEE) for the colour changling and the Wait time (UAIt) between the steps.

Speed time and Wait time on the Master, have priority on the slave units.

NB: It is possible to run GA.Pr on the other units even though these do not have GA.Pr programmed. You can do this by setting the units to 10 channels DMX mode and selecting DMX address A001.

# **REC MODE**

It is possible to program your own game on the FOS 100 POWER SOLO that will then run it in AUTO mode (ChPr).

Each unit can have its own programmed game.

In REC mode the unit must be set to 10 channels mode.

To program the ChPr by using a DMX controller, you need 3 more channels in addition to the 10 channels necessary to control the unit.

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

The three new DMX channels are:

### DMX channel 11 = SCENES channel:

- From 0-24 = no function
- From 25-255 the programmable scenes are displayed (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



# **13- DMX PROTOCOL**

# **10 CHANNELS MODE**

- SHUTTER DIMMER
- **RED**
- **GREEN**
- BLUE WHITE
- WHITE (Pre-programmed whites at different colour temperatures)
- 123456789 CTC COLOURS MACRO FUNCTIONS
- 10

DMX CHANNE	L 1	Parameter: SHU	TTER / STRC	BE	
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)
180-204					Random strobe (Dimmer channel active)
205-229					Full independent Random Strobe (Dimmer channel disabled)
230-234					Red, Yellow, Cyan and Blue colour effects at variable speed
235-255					Open

DMX CHANNEL	2 Pa	arameter: <b>DIMMER</b>			
DMX range Value	Mid Point D value	MX Move Range (degrees)	Mode	Option	Function
000-007					Black-out
008-255					Proportional dimmer

DMX CHANNEL	3	Parameter: <b>RED</b>				
DMX range Value	Mid Poin valu		Move Range (degrees)	Mode	Option	Function
000-255						Proportional colour

Ī	DMX CHANNEL	4	Parame	ter: GREEN			
	DMX range Value	Mid Point value		Move Range (degrees)	Mode	Option	Function
	000-255						Proportional colour



DMX CHANNEL	5	Parame	Parameter: <b>BLUE</b>			
DMX range Value	Mid Poir	-	Move Range (degrees)	Mode	Option	Function
000-255						Proportional colour

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

DMX CHANNEL	7 Parame	ter: WHITE PREPRO	GRAMMED (Wh	ite at diff. colour	temperature)
DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-055	23				No Function
					Full (Red-Green-
056-105	80				Blue at Full)
106-155	130				White DTS
156-205	180				Custom White Create (RGB levels selectable by DMX)
206-255	230				White CTC (Channel 15 CTC enabled)

DMX CHANNEL 8 Parameter: CTC (Colour Temperature Correction)							
DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function		
000-255					Linear control temperature correction. 0 = 2000°K / 255 = 7200°K		

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



MX CHANNEL	9	Parameter: COLO	URS MACRO EXT
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
143-504			Rainbow Speed 1 (6 Sec.)
151-158			Rainbow Speed 2 (15 Sec.)
159-166			Rainbow Speed 3 (30 Sec.)
167-174			Rainbow Speed 4 (45 Sec.)
175-182			Rainbow Speed 5 (60 Sec.)
283-190			Rainbow Speed 6 (120 Sec.)
191-198			Rainbow Speed 7 (150 Sec.)
199-206			Rainbow Speed 8 (180 Sec.)
207-214			Random Speed 1 (0,5 s)
215-222			Random Speed 2 (1 s)
223-230			Random Speed 3 (2 s)
231-238			Random Speed 4 (5 s)
239-246			Random Speed 5 (10 s)
247-255			Random Speed 6 (30 s)

DMX CHANNEL	10	Parame	Parameter: FUNCTIONS (Recall, Create and Store the Custom white)					
DMX range Value	Mid Point DMX value		Move Range (degrees)	Mode	Option	Function		
	IF CHANN	IEL 7 W	HITE PREPROGRA	MMED = DMX ran	ge value 156 – 205	5)		
000-079						Custom White Recall		
080-160						Custom White Create (Enable Custom White Creation)		
161-255						Custom White Store (Store the Custom White created)		

Parameter: SHUTTER / STROBE

Mode

Option

Move Range

(degrees)

Function

# **6 CHANNELS MODE**

Mid Point

DMX

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

DMX CHANNEL

DMX range

Value

ns) ms)
ms)
0 ms)
robe
d)
olour
t
on
ut
nal
er
n
nal
r
on
nal
r
on
nal
r
on
on onal r



# **WALL MODE**

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

DMX CHANNEL	1 Pa	rameter: <b>GREEN</b>			
DMX range Value	Mid Point Di value	MX Move Range (degrees)	Mode	Option	Function
000-255					Proportional colour
DMX CHANNEL	2 Pa	rameter: <b>RED</b>			
DMX range Value	Mid Point Di value	MX Move Range (degrees)	Mode	Option	Function
000-255					Proportional colour
DMX CHANNEL	3 Pa	rameter: <b>BLUE</b>			
DMX range Value	Mid Point Di value	MX Move Range (degrees)	Mode	Option	Function
000-255					Proportional colour
OMX CHANNEL	4 Pa	rameter: <b>DIMMER</b>			
DMX range Value	Mid Point Di	MX Move Range (degrees)	Mode	Option	Function
000-255					Proportional dimmer
DMX CHANNEL	5 Pa	rameter: <b>NOT USED</b>			
DMX range Value	Mid Point Di	MX Move Range (degrees)	Mode	Option	Function
000-255		(3.23.22)			Unused

DMX CHANNE	L 6	Parameter: SHU	TTER / STRC	BE	
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)
180-204					Random strobe (Dimmer channel active)
205-229					Full independent Random Strobe (Dimmer channel disabled)
230-234					Red, Yellow, Cyan and Blue colour effects at variable speed
235-255					Open



# **5 CHANNELS MODE (M4CH)**

- DIMMER RED GREEN BLUE WHITE

- 1 2 3 4 5

DMX CHANNEL	1	Parame	eter: <b>DIMMER</b>			
DMX range Value	Mid Poin valu		Move Range (degrees)	Mode	Option	Function
000-255						Proportional dimmer

DMX CHANNEL	2 Parame	eter: <b>RED</b>			
DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-255					Proportional colour

DMX CHANNEL	3	Parame	eter: GREEN			
DMX range Value	Mid Poin valu		Move Range (degrees)	Mode	Option	Function
000-255						Proportional colour

D	MX CHANNEL	4 Pa	rameter: BLUE			
	DMX range Value	Mid Point D value	MX Move Rai (degree	~	Option	Function
	000-255					Proportional colour

DMX CHANNEL	5 Parame	eter: <b>WHITE</b>			
DMX range Value	Mid Point DMX value	Move Range (degrees)	Mode	Option	Function
000-255					Proportional colour

# **4 CHANNELS MODE (RGBW)**

- RED GREEN BLUE WHITE

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

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

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

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

# 1 CHANNEL MODE (1CH)

### **DIMMER** 1

DMX CH	HANNEL	1	Parameter: <b>DIMMER</b>						
	( range /alue	Mid Point DMX value		Move Range (degrees)	Mode	Option	Function		
00	0-255						Proportional dimmer		



The information contained in this publication has been carefully prepared and checked. However, no responsibility will be taken for any errors. All rights are reserved and this document cannot be copied, photocopied or reproduced, in part or completely, without prior written consent from D.T.S.

D.T.S. reserves the right to make any aesthetic, functional or design modifications to any of its products without prior notice. D.T.S. assumes no responsibility for the use or application of the products or circuits described herein.





# 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

05171199

D.T.S. Illuminazione s.r.l. – Via Fagnano Selve 10-12-14 47843 Misano Adriatico (RN) Italia Tel.: +39 0541 611131. Fax + 39 0541 611111

info@dts-lighting.it www.dts-lighting.it

