SCENA LED 80 CT





User's Manual rel 1.0 GB

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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 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

SCENA LED 80 CT is a compact, lightweight, DMX-controlled LED projector equipped with an high-power Tunable WHITE LED 2700K ÷ 6000K featuring 2 LED channels (Warm White / Cold White); 9200 Lumens.

The unit features a Ø 112 mm Fresnel lens, and a long excursion 14°-77° linear zoom with high-efficiency optical system.

SCENA LED 80 CT 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.

The dimming curves are similar to those of halogen lamps.

The panel connectors are PowerCON In&Out and XLR 5 pins In&Out.

SCENA 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

Tunable WHITE LED 2700K ÷ 6000K 9200 Lumens

Optical group

Ø 112 mm Fresnel lens 14° - 77° linear zoom

Control

DMX 512 / RDM 7 DMX channels (Default) 4-digit 7-segment LED display + 4 soft keys

Connections

Power supply: PowerCON In&Out panel connectors

DMX: XLR 5 pins In&Out panel connectors

Power supply

Full-range 100-240Vac 50-60 Hz

Consumption: 100W Max

Weight

3,7 Kg

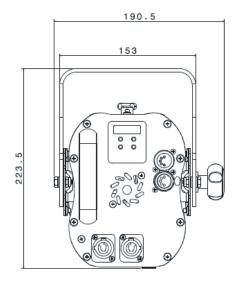
Certifications

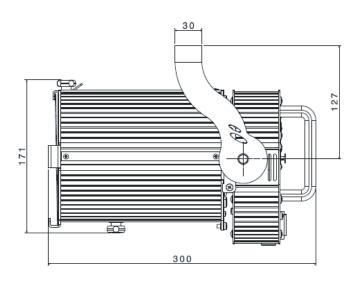
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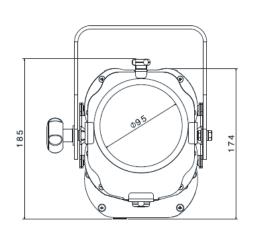
2014/35/UE; 2014/30/UE IEC 62471; IEC 695-2-1

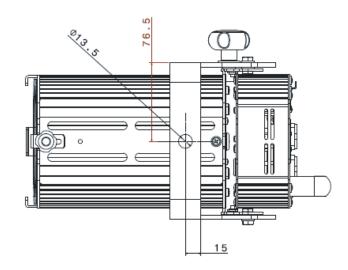
EN 60598-1 ; EN 62471 ; EN 61347-2-13 EN 60598-2-17 ; EN 55015 EMC ; EN 61347-1

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)
- 1 x Filterframe black finishing (already installed on the projector) (DTS Code 02M00422.46)
- 1 x User's Manual

Optional (on request)

- Barndoor black finishing (DTS Code 03.TA206)
- "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 SCENA LED 80 CT unit. Use only AC supplies 100-240V 50-60 Hz.

SCENA 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:



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

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

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

6.4 Waste Electrical and Electronic equipment (WEEE) directive:



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

For EC countries: according to the European Directive 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

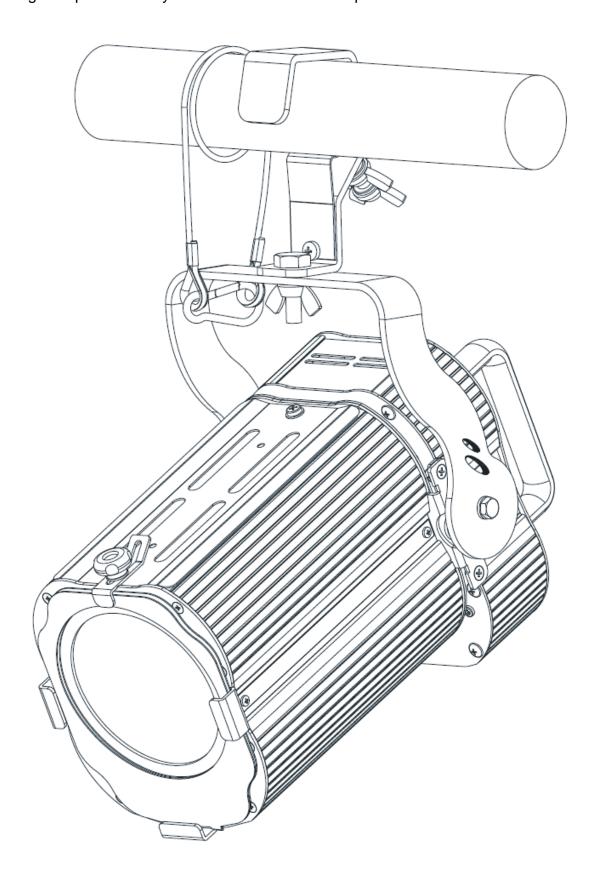
The unit is suitable for dry locations only.

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

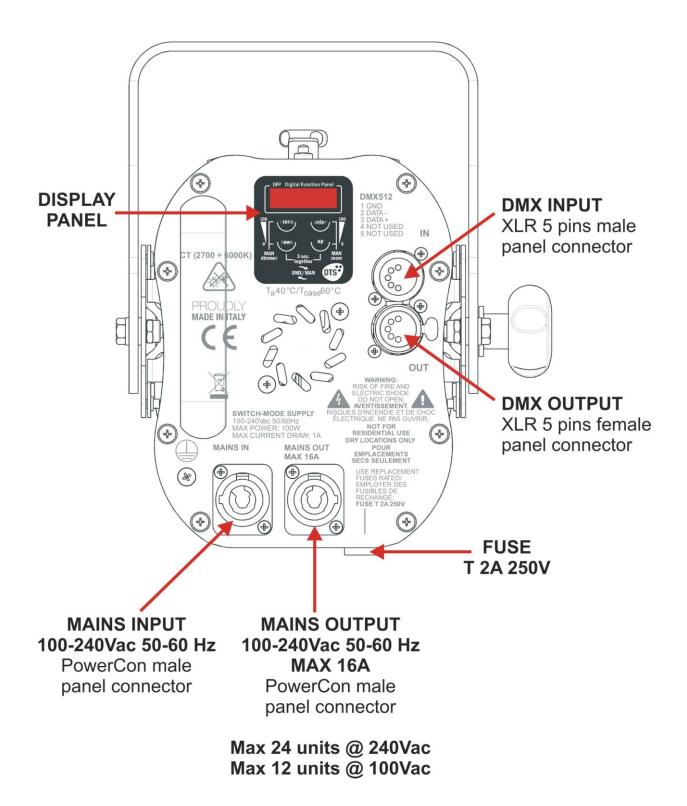
It is recommend the use of appropriate clamps to fix the unit to the mounting surface.

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.



8- INPUT / OUTPUT CONNECTIONS



9- DMX SIGNAL CONNECTION:

The unit operates using a digital DMX 512 signal.

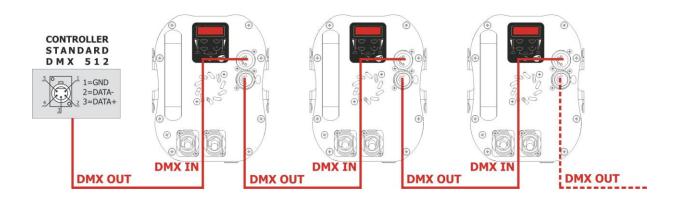
Connection between the controller and the unit or between units must be carried out using a two pair screened ø 0.5 mm.

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.



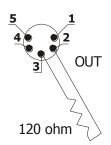
If the display showing the DMX address flashes, then one of the following errors has occurred:

- DMX signal not present
- DMX reception problem

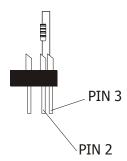
For Installations where long distance DMX cable connections are needed, we suggest to use a DMX terminator.

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



9.1 DMX addresses

SCENA 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
Projector 3 A015
..... A....
projector 6 A036

If you want to select the next projector, just add "7"

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.

SCENA LED 80 CT accepts the following RDM commands:

DEVICE_INFO To read the following parameters:					
DEVICE_INFO	RDM protocol version				
	Fixture model ID				
	Fixture type				
	Software version ID				
	DMX channels				
	DMX mode				
	DMX address				
	Total sub-fixtures				
	Total sensors				
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	LED Temperature				
	URER-SPECIFIC PIDs				
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				
	I D = NEED IASL VAIIU DIVIA SIUHAI				

11- FIRMWARE UPDATING

To update the software version of the SCENA 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 SCENA LED 80 CT unit.

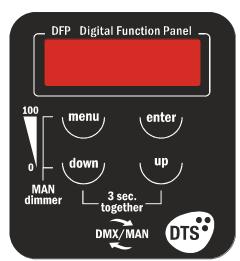
Updating the software version.

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 SCENA 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.



MENU	 To access the control menus in the display panel. To return to the previous level in the menu structure without making a change. 			
	To exit the menus.			
ENTER	 To select any required menu. 			
	 To confirm any changes. 			
 UP / DOWN To navigate the menus structure. 				
	 To change any value. 			

Eirmwara ralaasa	1.00
Firmware release	1.00

Allows to select 7 DMX channels mode (Defaut)	MAIN MENU	LEVEL 1	LEVEL 2	LEVEL 3	FUNCTION
Display inverted orientation for suspended mounting position suspended mounting position suspended mounting position of the property of the	8158	205 l	HH		Display normal orientation for floor mounting position (Default)
Display always ON (Default) Display goes OFF after 10 second:			88		Display inverted orientation for
Display goes OFF after 10 second Continue Continu		SHHY	nFF		Display always ON (Default)
RE		200			Display goes OFF after 10 seconds
Allows to select 2 DMX channels mode select 2 DMX channels mode select 2 DMX channels mode select 2 DMX channels and select the value of the delay (in milliseconds) for Dimmer channel reaction to DMX or Program variation. Off = Instant response to DMX variation. Off = Instant response to DMX variation. A = 100 ms Smooth response to DMX variation. A = 100 ms Smooth response to DMX variation. Allows to select Quadratic current for linear light output (Default) 20 = 500 ms Smooth response to DMX variation. Allows to select Linear current output (Default) Allows to select Linear current output (Default) Allows to select Linear current output (Default) and the program of the process of your camera recordings. Default = 610 Hz Allows to increase the LED's current from 1470mA to 2100mA per channel Default = ON OFF Automatic mode without DMX cantroller. 9 White color temperature select by user as on DMX channel (CCT), In Automode the units of Default = 255 Shutter level selectable by user as on DMX channels (CCT), In Automode the units of DMX channels and of DMX channels mode receiving signal from the unit set in Automode. Stave mode. The unit is forced to DMX address and 7 DMX channels mode receiving signal from the unit set in Automode. Stave mode. The unit is forced to DMX address and 7 DMX channels mode receiving signal from the unit set in Automode. See from automatic mode menu Stave mode. The unit is forced to DMX address and 7 DMX channels mode receiving signal from the unit set in Automode. See from signal do DMX signal All channels @ 60% All channels @ 60% All channels @ 60% All channels @ 60% All channels @ 60% All channels @ 60% All channels @ 60% DMX channels @ 60% D	NEnu	7 cH	_		Allows to select 7 DMX channels
### STATE Sure Sure		2 cH			Allows to select 2 DMX channels
Sunce Sunc	LEd	5NEH	oFF-20		delay (in milliseconds) for Dimmer channel reaction to DMX or Program variation. Off = Instant response to DMX variation. 4 = 100 ms Smooth response to DMX variation (Default) 20 = 500 ms Smooth response to DMX variation.
Sunc		coNP	9 n A d		current for linear light output
Sumble S					Allows to select Linear current output
Current from 1470mA to 2100mA per channel Default = ON			6 10-20.0H		frequency value (Hz) in order to reduce flickering in the process of your camera recordings. Default = 610 Hz
Automatic mode without DMX controller. 9 White color temperature selection from 2700K (Default) to 6000K as on DMX channel 6 (CCT). In Auto mode the unit do generate DMX for slave units. Dimmer level selectable by user as on DMX channel 4 (DIMMER) Default = 255 SHULE		65E			current from 1470mA to 2100mA per channel
Controller. 9 White color temperature selection from 2700K (Default) to 6000K as on DMX channel 6 (CCT). In Auto mode the unit do generate DMX for slave units. 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			oFF		
Signature Sign	Ruto	SurE	2700		controller.
Dimmer level selectable by user as on DMX channel 4 (DIMMER) Default = 255 Shutter level selectable by user as on DMX channel 3 (SHUTTER) Default = 0 Esc from automatic mode menu Slave mode. The unit is forced to DMX address and 7 DMX channels mode receiving signal from the unit set in Auto mode. Esc from slave mode No DMX action. Keep last valid DMX signal All channels @ 60% All channels @ 100% UHILL CCL JIMI GUITT JIMI JIMI			6000		from 2700K (Default) to 6000K as on DMX channel 6 (CCT). In Auto mode the unit do generate
Solution			9100	0-255	Dimmer level selectable by user as on DMX channel 4 (DIMMER)
Slave mode. The unit is forced to DMX address and 7 DMX channels mode receiving signal from the unit set in Auto mode. ESC Slave mode. The unit is forced to DMX address and 7 DMX channels mode receiving signal from the unit set in Auto mode. Esc from slave mode No DMX action. Keep last valid DMX signal All channels @ 60% All channels @ 100% UHILE CCL 2700 9 White color temperature selection from 2700K (Default) to 6000K as on DMX channel 6 (CCT) 6000 Dimmer level selectable for White Default = 255			SHuE	0-255	Default = 0
and 7 DMX channels mode receiving signal from the unit set in Auto mode. Esc from slave mode No DMX action. Keep last valid DMX signal All channels @ 60% All channels @ 100% UHILE CCL 2700 9 White color temperature selection from 2700K (Default) to 6000K as on DMX channel 6 (CCT) Dimmer level selectable for White Default = 255			<u> </u>		
No DMX action. Keep last valid DMX signal All channels @ 60% All channels @ 100% UHIL CCL 2700 9 White color temperature selection from 2700K (Default) to 6000K as on DMX channel 6 (CCT) Dimmer level selectable for White Default = 255	5LAU	bur€	5LU		The unit is forced to DMX address 1 and 7 DMX channels mode receiving signal from the unit set in
Keep last valid DMX signal All channels @ 60% All channels @ 100% IIIII CCL JIIII Skeep last valid DMX signal All channels @ 100% 9 White color temperature selection from 2700K (Default) to 6000K as on DMX channel 6 (CCT) Dimmer level selectable for White Default = 255			E5c		
All channels @ 60% All channels @ 100% All channels @ 100% 9 White color temperature selection from 2700K (Default) to 6000K as on DMX channel 6 (CCT) 5000 Dimmer level selectable for White Default = 255	ndNX				Keep last valid DMX signal
9 White color temperature selection from 2700K (Default) to 6000K as on DMX channel 6 (CCT) 5 0 0 0 DMX channel 6 (CCT) Dimmer level selectable for White Default = 255					All channels @ 60%
on DMX channel 6 (CCT) Dimmer level selectable for White Default = 255				3366	
Dimmer level selectable for White Default = 255		UHIE	cct		from 2700K (Default) to 6000K as
			4100		
		oFF			

MAIN MENU	LEVEL 1	LEVEL 2	LEVEL 3	FUNCTION
dF5E	55-6			To restore default settings
FEUD	LEd	025.0		LED temperature monitoring
	drU	025.0		LED Driver board temperature monitoring
FIUE	UA-N			Shows the total unit life time and the Warm White / Cold White LEDs
	coLd			life time
	unit			
Soft	u. I.00			Software version

13- ERROR MESSAGES

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

14- 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	0255	Proportional color from min to max		
2	COLD WHITE 6000K	0255	Proportional color from min to max		
3	SHUTTER	09	Black-out		
		1019	Open		
		2029	Black-out		
		30119	Strobe (da 3,27 s a 30 ms)		
		120149	Pulse up (da 42,6 s a 120 ms)		
		150179	Pulse down (da 42,6 s a 120 ms)		
		180204	Random strobe (Warm White, Cold White, Dimmer, Dimmer Fine active)		
		205229	Independent random strobe (Dimmer, Dimmer Fine active)		
		230255	Open		
4	DIMMER	0255	Proportional dimmer from min to max		
5	DIMMER FINE	0255	Proportional dimmer from min to max		
6	сст	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		

Ch	Name		DMX levels
7	FUNCTIONS (staying	014	No function
	on desired option for 5 seconds)	1524	SMOOTH OFF
	o seconds)	2526	SMOOTH 1 (25 ms)
		2728	SMOOTH 2 (50 ms)
		2930	SMOOTH 3 (75 ms)
		3132	SMOOTH 4 (100 ms) (DEFAULT)
		3334	SMOOTH 5 (125 ms)
		3536	SMOOTH 6 (150 ms)
		3738	SMOOTH 7 (175 ms)
		3940	SMOOTH 8 (200 ms)
		4142	SMOOTH 9 (225 ms)
		4344	SMOOTH 10 (250 ms)
		4546	SMOOTH 11 (275 ms)
		4748	SMOOTH 12 (300 ms)
		4950	SMOOTH 13 (325 ms)
		5152	SMOOTH 14 (350 ms)
		5354	SMOOTH 15 (375 ms)
		5556	SMOOTH 16 (400 ms)
		5758	SMOOTH 17 (425 ms)
		5960	SMOOTH 18 (450 ms)
		6162	SMOOTH 19 (475 ms)
		6364	SMOOTH 20 (500 ms)
		6574	GAMMA CORRECTION (CONP) QUADRATIC (DEFAULT)
		7584	GAMMA CORRECTION (COTP) LINEAR
		85104	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
		135144	BOOST ON (DEFAULT)
		145154	BOOST OFF
		155164	DISPLAY STAND-BY OFF (DEFAULT)
		165174	DISPLAY STAND-BY ON

Ch	Name	DMX levels	
		175176	NO DMX ACTION - KEEP LAST DMX (DEFAULT)
		177178	NO DMX ACTION - Black-out
		179180	NO DMX ACTION – All channels @ 100%
		181182	NO DMX ACTION – All channels @ 60%
		183184	NO DMX ACTION – 2700K6000K (active CCT as per display menu > NDMX > WHIT or via RDM Custom PIDs (Default = 2700K)
		185194	RESERVED
		195204	RESERVED
		205214	RESERVED
		215224	RESERVED
		225234	RESERVED
		235244	RESERVED
		245255	RESERVED

2 CHANNELS MODE

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

Ch	Name	DMX levels	
1	WARM WHITE 2700K	0255 Proportional color from min to max	
2	COLD WHITE 6000K	0255 Proportional color from min to max	

NOTES

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MADE IN ITALY





DESIGNED TO SHINE

ISO 9001:2008

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



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



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