SCENA LED 200











USER'S MANUAL rel. 1.3 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

t_a 40°C

THIS SYMBOL INDICATES THE MAXIMUM OPERATING AMBIENT TEMPERATURE



THIS SYMBOL MEANS "DO NOT STARE AT THE OPERATING LIGHT SOURCE"



THIS SYMBOL INDICATES PHOTOBIOLOGICAL SAFETY



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

SCENA LED 200 FR

DTS Product codes:

03.TS046.46.F SCENA LED 200 FR 3200K *5 pins XLR connectors *Black finishing SCENA LED 200 FR 3200K *3 pins XLR connectors *Black finishing SCENA LED 200 FR 4000K *5 pins XLR connectors *Black finishing SCENA LED 200 FR 4000K *3 pins XLR connectors *Black finishing SCENA LED 200 FR 5600K *5 pins XLR connectors *Black finishing SCENA LED 200 FR 5600K *5 pins XLR connectors *Black finishing SCENA LED 200 FR 5600K *3 pins XLR connectors *Black finishing SCENA LED 200 FR 5600K *3 pins XLR connectors *Black finishing SCENA LED 200 FR 5600K *5 pins XLR connectors *Black finishing SCENA LED 200 FR

Output

Single high-power White 3200K LED CRI>95

Also available with 4000K and 5600K LED

LED lifespan: 50.000 hours (70% lumen output)

Optical group

Ø 150 mm Fresnel lens 6,5° - 70° linear zoom

Control

DMX 512 / RDM or Manual Control 4 DMX channels (Default), 1 DMX channel or "FINE" Mode 4-digit 7-segment LED display + 4 soft keys Internal operating system updatable via DTS Dongle Firmware Uploader

Power supply

Full-range 100-240Vac 50-60 Hz Power consumption: 200W Max

Power Factor: PF>0.94

Connections

Power supply: PowerCON TRUE1 In&Out panel connectors

DMX: XLR 5 pins or 3 pins In&Out panel connectors

Internal safety devices

Overvoltage and overtemperature circuits protection

Operating temperature

-10° / 40°C

Weight

8,5 Kg

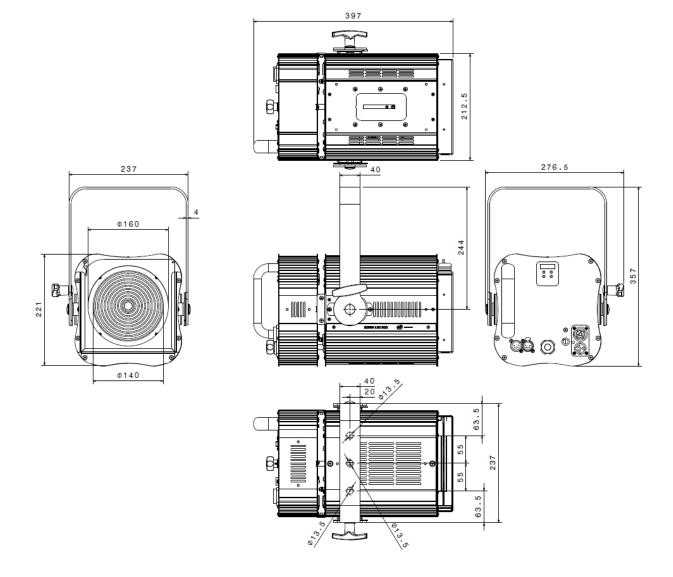
Certifications





DIMENSIONS

SCENA LED 200 FR



4- TECHNICAL FEATURES

SCENA LED 200 PC

DTS Product codes:

03.TS046.46.A SCENA LED 200 PC 3200K *5 pins XLR connectors *Black finishing SCENA LED 200 PC 3200K *3 pins XLR connectors *Black finishing SCENA LED 200 PC 4000K *5 pins XLR connectors *Black finishing SCENA LED 200 PC 4000K *3 pins XLR connectors *Black finishing SCENA LED 200 PC 5600K *5 pins XLR connectors *Black finishing SCENA LED 200 PC 5600K *3 pins XLR connectors *Black finishing SCENA LED 200 PC 5600K *3 pins XLR connectors *Black finishing SCENA LED 200 PC 5600K *3 pins XLR connectors *Black finishing SCENA LED 200 PC 5600K *5 pins XLR connectors *Black finishing SCENA LED 200 PC

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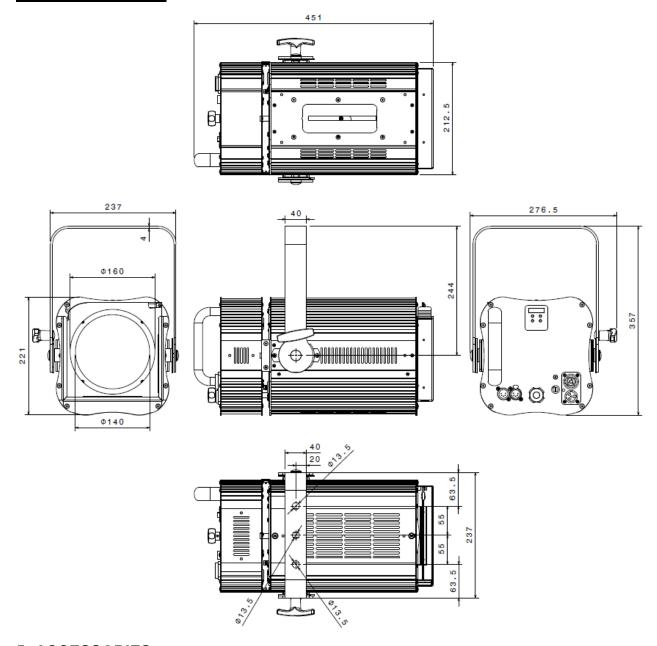
Certifications





DIMENSIONS

SCENA LED 200 PC



5- ACCESSORIES

As standard

- 1 x PowerCON TRUE1 female cable connector (code 0520P066)
- 1 x XLR 5 pins female cable connector (code 0508B147)
- 1 x XLR 5 pins male cable connector (code 0508B148)
- 1 x Filterframe black finishing already installed on the projector (code 02M093278.46)
- 1 x User's Manual

Optional (on request)

- Barndoor black finishing (code 03.TBD02)
- "C" Clamp G60 (Max. Load 50 Kg) (code 0521A004)
- Safety cable 3 mm x 60 cm, max capacity load 60 Kg (code 0521A010)
- DTS Dongle Firmware Uploader (code 03.LA.206)

6- IMPORTANT SAFETY INFORMATION

6.1 Fire prevention:

Replace any blown or damaged fuses only with those of identical value: T 3.15A 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 200 unit. Use only AC supplies 100-240V 50-60 Hz.

SCENA LED 200 should never be located in position exposed to rain or in areas of extreme humidity.

A good air ventilation is essential for proper equipment work.

6.3 Safety:



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

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

Do not stare at the operating light source.

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

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

The external surface of the unit may exeed 60°C; never handle the unit until at least 5 minutes have elapsed since the unit was turned off.

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

The ambient temperature should not exeed 40°C. ta 40°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

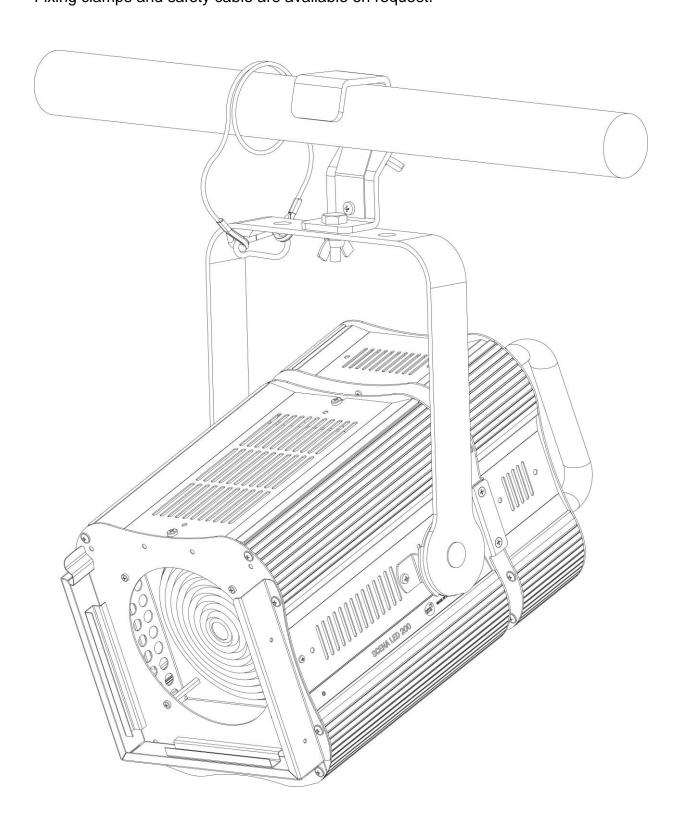
The unit is suitable for dry locations only.

SCENA LED 200 can be installed on a truss or on the ceiling.

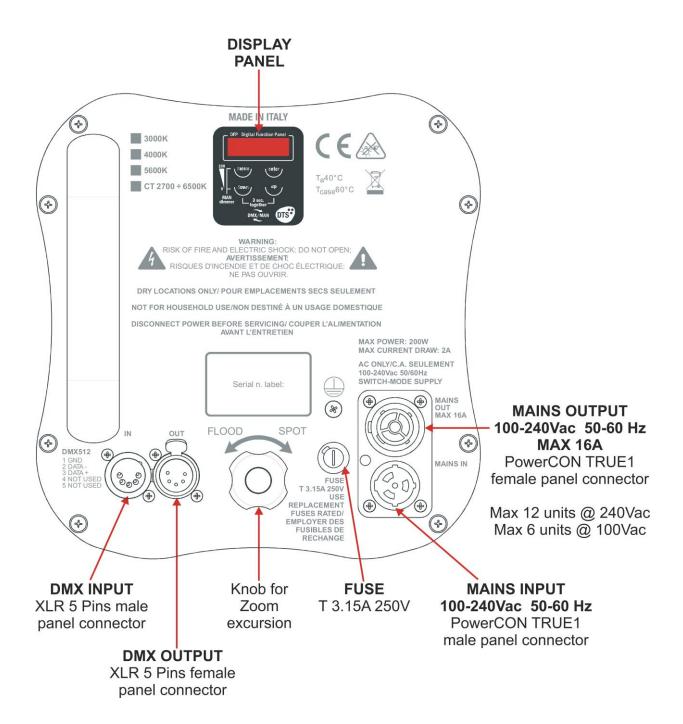
It is recommend the use of appropriate clamps to fix the unit to the mounting surface.

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 shown 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.

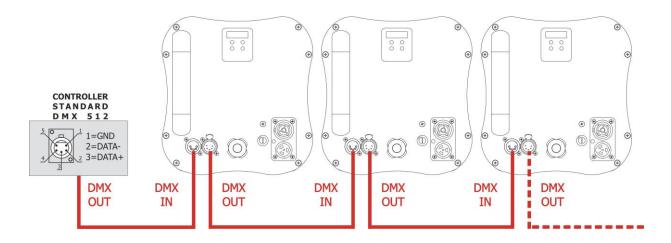
Connection between the controller and the unit or between units must be carried out using a two pair screened Ø 0.5 mm.

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.



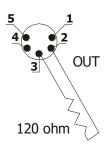
If the display showing the DMX address flashes, then one of the following errors has occurred:

- DMX signal not present
- DMX reception problem

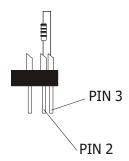
For Installations where long distance DMX cable connections are needed, we suggest to use a DMX terminator.

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 200 can be controlled with 4 DMX channels (Default), 1 DMX channel or in "FINE" mode (2 DMX channels).

In order to use the unit in 4 DMX channels mode (Default), set the following addresses on the mixer:

Projector 1 A001
Projector 2 A005
Projector 3 A009
..... A....
projector 6 A021

If you want to select the next projector, just add "4"

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.

10- RDM FUNCTIONS

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

SCENA LED 200 accepts the following RDM commands:

DEVICE_INFO	To read the following parameters:
	RDM protocol version
	Fixture model ID
	Fixture type
	Software version ID
	DMX channels
	DMX mode
	DMX address
	Total sub-fixtures
	Total sensors
IDENTIFY_DEVICE	LED ON at max power to identify the fixture
DMX_START_ADDRESS	To read / set the DMX address
SOFTWARE_VERSION_LABEL	Software version ID
SUPPORTED_PARAMETERS	List of all supported parameters
PARAMETER_DESCRIPTION	Description / details of Manufacturer Specific
	parameter as "NO DMX ACTION"
DMX_PERSONALITY	To set the DMX mode
DMX_PERSONALITY_DESCRIPTION	Description / details of the DMX mode
DEVICE_MODEL_DESCRIPTION	Description / details of the Fixture model
MANUFACTURER_LABEL	Producer ID
SENSOR_DEFINITION, SENSOR VALUE	Description / values of sensors
	NSORS
1: Led Temperature	LED temperature
2: Micro Temperature	Micro controller temperature
3: Driver 1 Temperature	Output 1 of LED Driver board temperature
4: Driver 2 Temperature	Output 4 of LED Driver board temperature
RDM MANUFACT	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 = LED ON @ 60%
	3 = LED ON @ 100%
	4 = CUSTOM (Dimmer level selectable)
	NO DMX LEVEL
	0 ÷ 255 (Default = 0)
	5 = Keep last valid DMX signal (Default)

11- FIRMWARE UPDATING

To update the firmware release of the SCENA LED 200 you need:

- DTS Dongle Firmware Uploader (code 03.LA.206).
- "DTS Firmware Upgrade Utility v.2.02" program installed on PC.
- Latest firmware release available for SCENA LED 200 unit.

Updating the firmware release.

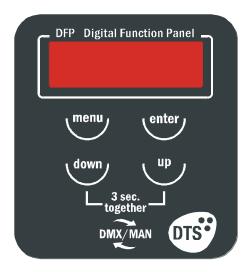
Please follow the procedure below to perform the update:

- 1. Connect the DTS Dongle Firmware Uploader to a spare USB port on the PC.
- 2. Connect the unit DMX input to the DTS Dongle Firmware Uploader DMX output with a standard DMX cable and turn ON the unit.
- 3. Send the new firmware release into the unit by using "DTS Firmware Upgrade Utility v.2.02" program. At the end of the procedure, the unit will reset.

For more information please refer to an authorised DTS service centre.

12- DISPLAY FUNCTIONS

The SCENA LED 200 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.
	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.

FIRMWARE RELEASE	1.03
RDM Device Model ID	0x0D42
DMX Personality IDs	0x01 "7 CHANNELS"
-	0x02 "2 CHANNELS"
	0x03 "FINE"

MAIN MENU	LEVEL 1	LEVEL 2	LEVEL 3	FUNCTION
d15P	Po5 !	R.R.		Display normal orientation for floor mounting position (Default)
		88		Display inverted orientation for
	<u> </u>			suspended mounting position Display always ON (Default)
	5665	of F		Display goes OFF after 10 seconds
0 15	11 11	00		Allows to select 4 DMX channels
NodE	<u> </u>			mode (Default)
	l ∟H			Allows to select 1 DMX channel mode
	FInE			Allows to select FINE mode (2 DMX channels)
LEd	SNEH	oFF-20		Allows to select the value of the delay (in milliseconds) for Dimmer channel reaction to DMX or Program variation. Off = Instant response to DMX variation. 4 = 100 ms Smooth response to DMX variation (Default) 20 = 500 ms Smooth response to DMX variation.
	coNP	9088		Allows to select Quadratic current for linear light output (Default)
		LInE	_	Allows to select Linear current output
	5 <i>Y</i> nc	6 IO-5000		Allows to adjust the PWM frequency value (Hz) in order to reduce flickering in the process of your camera recordings. Default = 610 Hz
	65E	on		Allows to increase the LED's current from 1470mA to 2100mA
		oFF		Default = ON
Ruto	SurE	orr		Automatic mode without DMX controller. In Auto mode the unit do generate
		9100	0-255	DMX for slave units. Dimmer level selectable by user as on DMX channel 2 (DIMMER) Default = 255
		SHuE	0-255	Shutter level selectable by user as on DMX channel 1 (SHUTTER) Default = 0
		E5c		Esc from automatic mode menu
SLAU	SurE	5LU		Slave mode. The unit is forced to DMX address 1 and 7 DMX channels mode receiving signal from the unit set in Auto mode.
		E5c		Esc from slave mode
FAn	<u>5Ed</u> 5IL			Allows to select the internal fans speed. Standard mode: High fans speed. Silent mode: Low fans speed for a very low noise operation. Default = SIL
ndNH	raux			No DMX action. Keep last valid DMX signal (Default)
	<u> </u>			LED ON @ 60%
	Ĭ <u>Ũ</u>			LED ON @ 100%
	cu5t	0-255		Dimmer level selectable for White Default = 255

MAIN MENU	LEVEL 1	LEVEL 2	LEVEL 3	FUNCTION
dF5E	ה הר			To restore default settings
LENP	7	0.25.0		LED temperature monitoring
		025.0		Micro controller temperature monitoring
	d-U	025.0		Output 1 of LED Driver board temperature monitoring
	drU2	025.0		Output 4 of LED Driver board temperature monitoring
FIUE	LEd			Shows the total unit life time and LED life time
Soft	u. 1.00			Software version

13- MANUAL MODE

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

In Manual mode it is possible to select the DIMMER level (range 0-255) as on DMX channel 2 and SHUTTER level (range 0-255) as on DMX channel 1.

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

In Manual mode the DMX signal is ignored.

14- ERROR MESSAGES

EDDOD GUGWED ON DIODI AV	
ERROR SHOWED ON DISPLAY	APPEARS WHEN
LEd SEnSor Error	LED thermal sensor damaged (open or in
	short circuit).
	Unit immediately goes in black-out.
LEd ouErtENPErRturE	LED temperature detected over 100°C.
	Unit immediately goes in black-out.
Nicro SEnSor Error	Micro controller thermal sensor damaged
	(open or in short circuit).
	Unit immediately goes in black-out.
Nicro ouErtENPErAturE	Micro controller temperature detected over
	100°C.
	Unit immediately goes in black-out.
dru i SenSor Error	Thermal sensor on output 1 of LED Driver
	board damaged (open or in short circuit).
	Unit immediately goes in black-out.
drUIouErtENPErAturE	Temperature detected over 100°C on
	output 1 of LED Driver board.
	Unit immediately goes in black-out.
drU2 5En5or Error	Thermal sensor on output 4 of LED Driver
	board damaged (open or in short circuit).
	Unit immediately goes in black-out.
drU2 ouErtENPErRturE	Temperature detected over 100°C on
	output 4 of LED Driver board.
	Unit immediately goes in black-out.

15- DMX PROTOCOL

4 CHANNELS MODE (Default)

- 1 SHUTTER
- 2 DIMMER
- 3 DIMMER FINE
- 4 FUNCTIONS

Ch	Name	DMX levels	
1	SHUTTER 09		Black-out
		1019	Open
		2029	Black-out
		30119	Strobe (from 3,27 s to 30 ms)
		120149	Pulse up (from 42,6 s to 120 ms)
		150179	Pulse down (from 42,6 s to 120 ms)
		180229	Random strobe
		230235	Single flash 30 ms
		236255	Open
2	DIMMER	0255	Proportional dimmer from min to max
3	DIMMER FINE	0255	Proportional dimmer from min to max
4	FUNCTIONS	014	No function
	(staying on desired option for 5 seconds)	1524	SMOOTH OFF
		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 (CB !! QUADRATIC (DEFAULT)
		7584	GAMMA CORRECTION (COTP) LINEAR

Ch	Name	DMX levels		
4	FUNCTIONS	85104	OUTPUT FREQUENCY 610 Hz (DEFAULT)	
	(staying on desired option for 5 seconds)	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	
		115134	RESERVED	
		135144	BOOST ON (DEFAULT)	
		145154	BOOST OFF	
		155164	DISPLAY STAND-BY OFF (DEFAULT)	
		165174	DISPLAY STAND-BY ON	
		175176	NO DMX ACTION – KEEP LAST DMX (DEFAULT)	
		177178	NO DMX ACTION – Black-out	
		179180	NO DMX ACTION – LED ON @ 100%	
		181182	NO DMX ACTION – LED ON @ 60%	
		183184	NO DMX ACTION – CUSTOM	
		185194	RESERVED	
		195204	RESERVED	
		205214	RESERVED	
		215224	RESERVED	
		225234	RESERVED	
		235244	FAN STANDARD MODE	
		245255	FAN SILENT MODE (DEFAULT)	

1 CHANNEL MODE

1 DIMMER

Ch	Name	DMX levels		
1	DIMMER	0255	Proportional dimmer from min to max	

"FINE" MODE (2 CHANNELS)

1 DIMMER

2 DIMMER FINE

Ch	Name	DMX levels		
1	DIMMER	0255	Proportional dimmer from min to max	
2	DIMMER FINE	0255	Proportional dimmer from min to max	

ISO 9001:2015

DTS quality system is certified to the ISO 9001:2015 standard





MADE IN ITALY

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