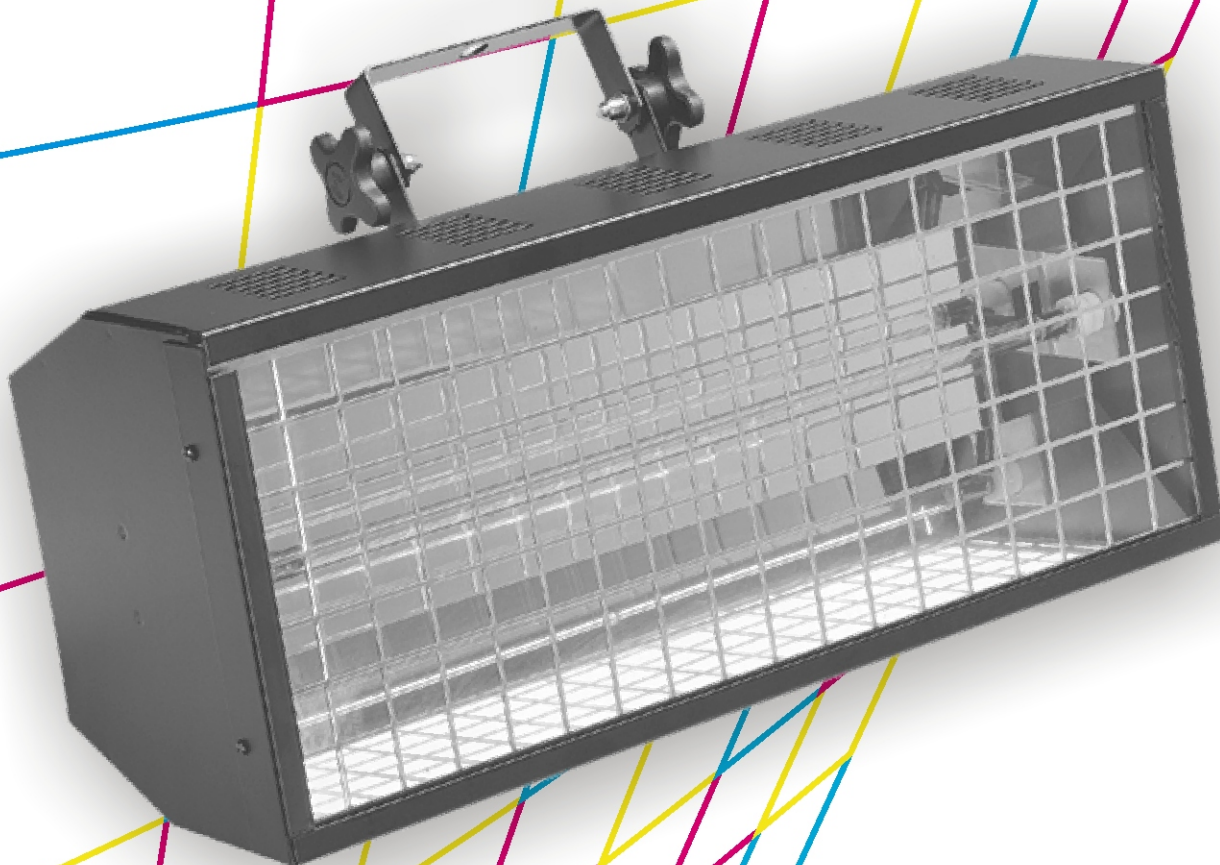


DMX STROBE 1500



User's Manual Rel 1.1 **GB**

D.T.S. Illuminazione srl - ITALY
<http://www.dts-lighting.it>



The Lighting Company

Made in Italy

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1- TECHNICAL FEATURES

The DMX STROBE 1500 is fitted with a xenon XOP 15 linear lamp
(XOP 15 lampholder base)

The unit incorporates:

USITT Standard DMX 512 input

2 or 4 DMX channels

4 -eight digit- LED display with 4 buttons

2 XLR connectors (In and Out) with 3 and 5 pins selectable by user

Power supply:

230 V (50/60 Hz)

Power consumption: 1500 W.

Operating ambient temperature 0° / 40°

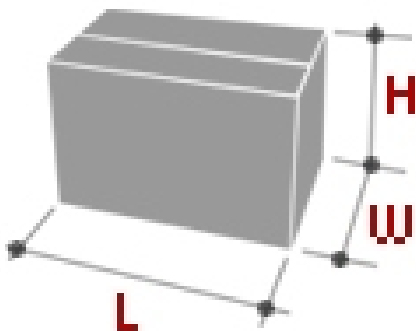
Weight

4 Kg

Packing Dimensions (HxWxL)

260 x 230 x 470 mm

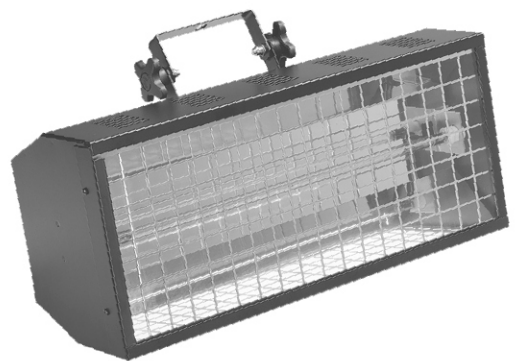
Weight 5 Kg



Dimensions (HxWxL)

Projector (180x180x410)

Weight 4 Kg



2- IMPORTANT SAFETY INFORMATION

2.1 Fire prevention:

- Never locate the fixture on any flammable surface.
- Minimum distance from flammable materials: 1 MT.
- Minimum distance from the closest illuminable surface: 2 MT.
- Replace any blown or damaged fuses only with fuses of identical value. Refer to the wiring diagram if there is any doubt.
- Connect the unit to mains power via a thermal magnetic circuit breaker.

2.2 Prevention of electric shock:

- High voltage is present inside the unit. Unplug the unit prior to performing any function which involves touching the inside of the moving head, including lamp replacement.
- The level of technology present in the DMX STROBE requires the assistance of specialised personnel for all servicing. Please refer to an authorised DTS service centre.
- A good earth connection is essential for proper functioning of the projector.
- Never connect the unit without proper earth connection.
- The fixture should be located in places with a good air ventilation.

2.3 Protection against ultraviolet radiation:

- Never turn on the lamp if front glass, or metal cover is damaged. Their respective shielding functions will only operate efficiently if they are in perfect working order.
- Never look directly the lamp when it is on.

2.4 Safety:

- The projector should always be installed with bolts, clamps and other tools that are capable of supporting the weight of the unit.
- Always use a second safety cable to sustain the weight of the unit in case of the failure of the main fixing point.
- The external surface of the unit, at various points, may exceed 70°C. Never handle the unit until at least 10 minutes have elapsed since the lamp was turned off.
- Always replace the lamp if any physical damage is evident.
- Never install the fixture in an enclosed area lacking sufficient air flow. The ambient temperature should not exceed 40°C.
- A hot lamp may explode, so always wait for at least 10 minutes prior to attempting to replace the lamp.
- Always wear suitable hand protection when handling the lamp.

2.5 Level of protection against the penetration of solid and liquid matter:

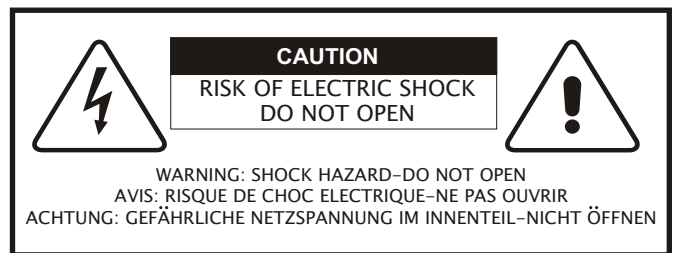
- The projector is classified as an ordinary appliance and its protection level against the penetration of solid and liquid matter is IP 20.

ATTENTION:

- 1) OPERATE THIS UNITS ONLY WITH PROPER AC VOLTAGE
- 2) READ INSTRUCTION MANUAL CAREFULLY BEFORE OPERATION
- 3) TO AVOID THE RISK OF ELECTRIC SHOCK AND FIRE, DO NOT EXPOSE THIS UNIT TO MOISTURE OR HIGH HUMIDITY
- 4) NO USER SERVICEABLE PARTS INSIDE

SERVICE PERSONNEL:

- 1) SEE SERVICE MANUAL BEFORE OPENING
- 2) DISCONNECT PLUG BEFORE OPENING
- 3) ALL PARTS MUST BE REPLACED BY ORIGINAL SPARE PARTS



3- VOLTAGE AND FREQUENCY

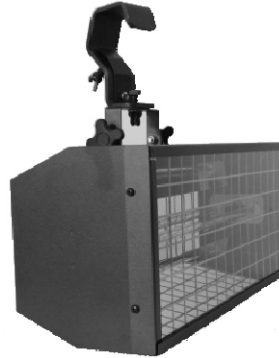
The DMX STROBE operate at 230 VOLT 50 or 60 Hz.

4- INSTALLATION

DMX STROBE should be ceiling mounted.

For ceiling mounted installations, we recommend the use of appropriate clamps to fix the unit to the mounting surface.

The supporting structure from which the unit is hung should be capable of bearing the weight of the unit, as should any clamps used to hang it.



4.1- Safety cable

We recommend the use of a safety cable or chain connected to the DMX STROBE and to the suspension truss in order to avoid the fixture accidentally falling should the main fixing point fail. Make sure that the iron cable or chain can bear the weight of the entire unit.



4.2- Protection against liquids

The projector contains electric and electronic components which should under no circumstances come into contact with oil, water or any other liquid. The proper unit functioning would be compromised should this occur.

4.3- Risk of fire

Each fixture produces heat and must be installed in a well-ventilated place. The minimum recommended distance from flammable material is 1 MT.

Minimum distance from the object being illuminated is 2 MT.

4.4- Forced ventilation

You will note, on inspection, that the unit features various air inlets and cooling fan. These should, under no circumstances, be blocked or obstructed whilst the projector is in operation.

Doing so could cause the fixture to seriously overheat thereby compromising its proper operation.

4.5- Ambient temperature

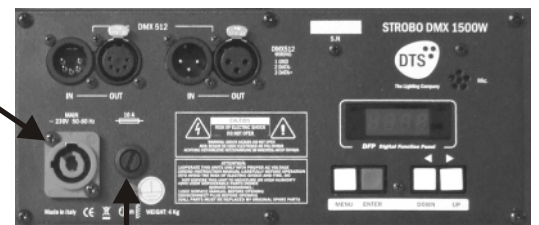
The projector should never be installed in places that lack a constant air flow. The ambient temperature should NOT exceed 40°C.

5- MAINS CONNECTION

DMX STROBE operate at 230 VOLT 50-60 Hz.

Prior to connecting the unit to your mains supply, ensure that the model in your possession correctly matches the mains supply available. For connection purposes, ensure that your plug is capable of supporting 16 amps at 230V, Strict adherence to regulatory norms is strongly recommended.

230 Volt 50/60 Hz



FUSE 16 A

5.1- Protection

The use of a thermal magnetic circuit breaker is recommended for each DMX STROBE. A good earth connection is essential for the correct operation of the projector.

6- DMX SIGNAL CONNECTION

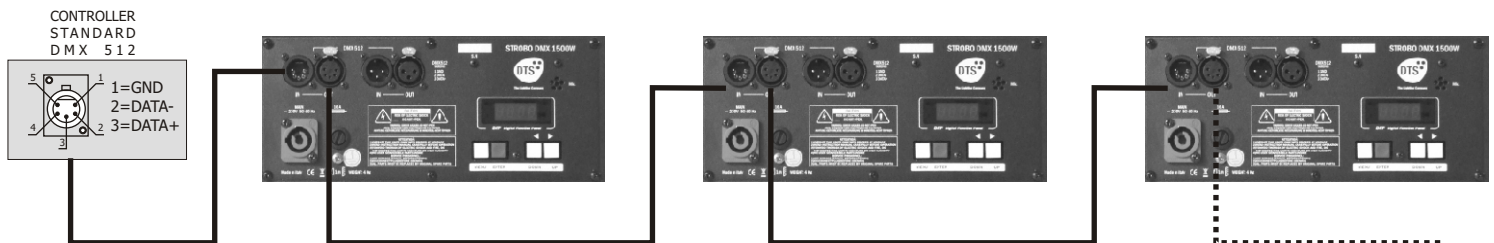
The unit operates using the digital DMX 512 (1990) signal. Connection between the mixer and the unit or between units must be carried out using a two pair screened \varnothing 0.5 mm cable and a CANNON XLR 5 or 3 pins connector. Ensure that the conductors do not touch each other. Do not connect the cable ground to the XLR chassy

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 projector to the DMX IN plug of the second one.

In this way, all the projectors are cascade connected.

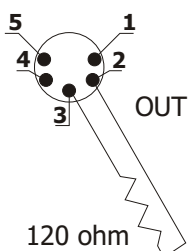
NB. If the display showing the DMX address flashes, then one of the following errors has occurred:

- DMX signal not present
 - DMX address not valid
 - DMX reception problem

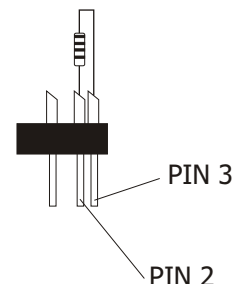


For Installations where long distance DMX cable connections are needed, we suggest to use a Dmx terminator.

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



6.1-DMX Addresses

Dmx STROBE 1500 can be used in two different modes: 2 or 4 DMX (default) channels.

If you want to use the DMX STROBE in 2 channels mode, select the 2 CH mode from the MODE menu and set the following addresses on the mixer:

Projector 1	A001	
Projector 2	A003	If you want to select the next projector, just add "2"
Projector 3	A005	
.....	A....	
projector 6	A011	

If you want to use the DMX STROBE in 4 channels mode, select the 4 CH mode from the MODE menu and set the following addresses:

Projector 1	A001	
Projector 2	A005	If you want to select the next projector, just add "4"
Projector 3	A009	
.....	A....	
Projector 6	A021	

6.2-Selecting the DMX address

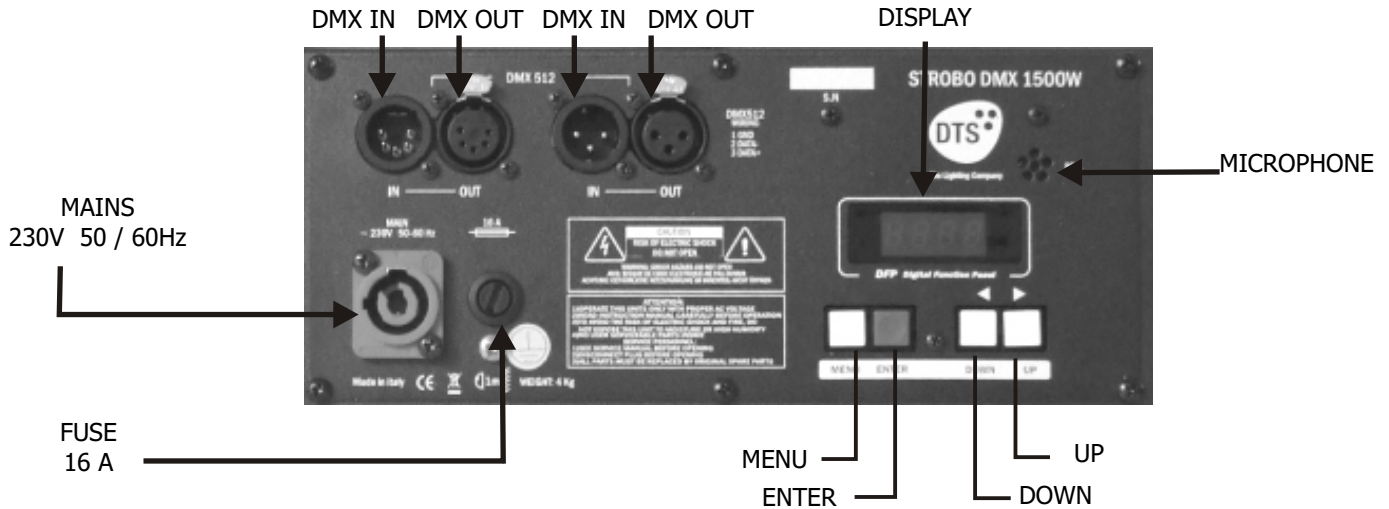
1) Press the UP-DOWN key until you reach the required DMX channel. The numbers on the display will start to flash (but the new DMX address hasn't yet been set).

2) Press ENTER to confirm your selection. The numbers on the display will stop flashing and the projector is now setted to the new DMX address.

TRICKS:

if you keep pushed the UP or DOWN keys, the channels are calculated more quickly and you get a faster selection.

7- DISPLAY FUNCTIONS






















DISPLAY FUNCTIONS

The DMX STROBE 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 DTS 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.

MENU	Up-Down	0001	ENTER	Up-Down	DISP	ENTER	Up-Down	AA	Floor position	ENTER
REVERSE DISPLAY Reverses display's reading depending on the mounting position (On the ground or suspended).										
MENU	Up-Down	MODE	ENTER	Up-Down	2CH	2 CHANNELS		ENTER		
DMX MODE To select DMX mode : 2-4 channels										
MENU	Up-Down	TEST	ENTER	Up-Down	4CH	4 CHANNELS		ENTER		
TEST MODE Unit test.										
MENU	Up-Down	TEST	ENTER	Up-Down	TEST	Unit test with strobe at different frquencies				
TEST MODE Unit test.										
MENU	Up-Down	AUTO	ENTER	Up-Down	SURE	ENTER	Up-Down	INTE	Intensity (0-255)	ENTER
AUTOMATIC MODE Automatic game without DMX controller										
MENU	Up-Down	AUTO	ENTER	Up-Down	SURE	ENTER	Up-Down	RATE	Strobe rate (0-255)	ENTER
MENU	Up-Down	AUTO	ENTER	Up-Down	SURE	ENTER	Up-Down	MUSI	Musical strobe function	ENTER
MENU	Up-Down	AUTO	ENTER	Up-Down	SURE	ENTER	Up-Down	on		ENTER
MENU	Up-Down	AUTO	ENTER	Up-Down	SURE	ENTER	Up-Down	off		ENTER
DEFAULT To restore default setting										

7- DISPLAY FUNCTIONS

  MENU Up-Down	SOFT	 ENTER	u 1.00	Software version for main pcb			
  MENU Up-Down	LIFE	  ENTER Up-Down	LAMP	 ENTER	4	Lamp life time	
TIMER lamp life TIME (reset possible) and total UNIT LIFE TIME (reset not possible)		 Up-Down	Unit	 ENTER	8	Unit life time	
		 Up-Down	rESL	 ENTER	SURE	 ENTER	Lamp life reset
  MENU Up-Down	SEnS	  ENTER Up-Down	0	 ENTER			
SENSIBILITY Microphone Sensibility adjustment.				 ENTER	100		

8- ERROR MESSAGES

AdEr — ERROR: DMX ADDRESS

AUEr — ERROR: AUTO MODE INPUT

9- PERIODIC CLEANING

9.1- Front glass

Even a fine layer of dust can substantially reduce the luminous output . Regularly clean the front glass using a soft cotton cloth, dampened with a specialist lens cleaning solution.

9.2- Fan and air passages

The fan and air passages must be cleaned approximately every 6 weeks. This periodic cleaning will depend of course, on the conditions in which the projector is operating. Suitable instruments for performing this type of maintenance are a brush and a common vacuum cleaner or an air compressor. If necessary, clean the fans and air passages more frequently.

10- PERIODIC CONTROLS

Attention

Disconnect mains power prior to removing the projector housing.

Lamp

The lamp should be replaced if there is any visible damage or deformation due to heat. This will help to avoid the danger of the lamp exploding.

Electrical components

Check all electrical components for correct earthing and proper connection of all connectors; refasten them if necessary.

Fuse replacement

Locate the fuse, which protects the lamp and electronics, in the rear panel base of the DMX STROBE.

Using a multimeter, test the condition of the fuse, replacing it with one of equivalent type if necessary.

11- DMX PROTOCOL**2 CHANNELS MODE (DEFAULT)****1 DIMMER****2 STROBE RATE**

DMX CHANNEL	1	Parameter: DIMMER
-------------	----------	--------------------------

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional dimmer

DMX CHANNEL	2	Parameter: STROBE RATE
-------------	----------	-------------------------------

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255	Strobe at different frquencies from min to max (1 to 25 flashes/sec)				

11- DMX PROTOCOL**4 CHANNELS MODE**

- 1 DIMMER**
- 2 STROBE RATE**
- 3 STROBE DURATION**
- 4 FUNCTIONS**

DMX CHANNEL	1	Parameter: DIMMER
-------------	----------	--------------------------

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Proportional dimmer From min to max (0-100%)

DMX CHANNEL	2	Parameter: STROBE RATE
-------------	----------	-------------------------------

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-255					Strobe at different frquencies from min to max (1 to 25 flashes/sec)

DMX CHANNEL	3	Parameter: STROBE DURATION
-------------	----------	-----------------------------------

DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-7					20 ms flash duration time
8-15					40 ms flash duration time
16-23					60 ms flash duration time
24-31					80 ms flash duration time
32-39					100 ms flash duration time
40-47					120 ms flash duration time
48-55					120 ms flash duration time
56-63					140 ms flash duration time
64-71					160 ms flash duration time
72-79					180 ms flash duration time
80-87					200 ms flash duration time
88-95					220 ms flash duration time
96-103					240 ms flash duration time
104-111					260 ms flash duration time
112-119					280 ms flash duration time
120-127					300 ms flash duration time
128-135					320 ms flash duration time
136-143					340 ms flash duration time
144-151					360 ms flash duration time

DMX CHANNEL	3	Parameter: STROBE DURATION
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
152-159					380 ms flash duration time
160-167					400 ms flash duration time
168-175					420 ms flash duration time
176-183					440 ms flash duration time
184-191					460 ms flash duration time
192-199					480 ms flash duration time
200-207					500 ms flash duration time
208-215					520 ms flash duration time
216-223					540 ms flash duration time
224-231					560 ms flash duration time
232-239					580 ms flash duration time
240-247					600 ms flash duration time
248-255					620 ms flash duration time

DMX CHANNEL	4	Parameter: FUNCTIONS
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DMX range Value	Mid point DMX value	Move range (degrees)	Mode	Option	Function
0-59					No function
60-119					One Shot function (with Strobe rate passage from 0 to 255 = One Shot)
120-179					Random Strobe Rate
180-255					Musical Strobe Rate (internal microphone activated)

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