

# User's Manual rel 1.4 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 INDICATES THE MAXIMUM OPERATING AMBIENT TEMPERATURE

THIS SYMBOL INDICATES THE MINIMUM DISTANCE FROM THE ILLUMINATED OBJECTS

(]0,5 m

t<sub>a</sub> 45°C



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)



**Risk Group 2** 

#### 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 household 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**

The new BRICK is a high power, very compact, self-contained, IP65 LED Wash light. BRICK is suitable for various purposes, offering a range of projection angles quickly interchangeable (no tools required).

BRICK comes with an IP65 power cable plus 2 DMX cables with M / F XLR connectors (all IP65), that make it perfect for temporary lighting applications, but also for safe long-lasting installations.

Built with top quality components, BRICK gives you the best value for money by efficient design and full production automation.

#### DTS product codes:

03.LDB100S11FC08 BRICK FC ULTRA-NARROW lenses Black finishing

Available on demand:

03.LDB100S11FC10	BRICK FC NARROW lenses Black finishing
03.LDB100S11FC25	BRICK FC MEDIUM Flood lenses Black finishing
03.LDB100S11FC40	BRICK FC WIDE Flood lenses Black finishing

#### LED Technology

24 x OSTAR STAGE "N" FULL RGBW LEDs LED lifespan: 50.000 hours (70% lumen output)

#### **Optical group**

8° projection angle Range of quick-mounting holographic filters included: 20° / 40° / 60°x10° (no mounting tools required) Uniform projection on surfaces

#### **Color generation**

16 million colors Wide palette of pure uniform Whites with variable linear color temperature (2700K – 8000K)

## **4- TECHNICAL FEATURES**

#### Control

DMX 512 / RDM 10 DMX channels (Default) 4-digit 7-segment LED display + 4 soft keys

#### **Power supply**

Built-in full-range PSU

100-240Vac 50-60 Hz	c Dus
180-240Vac 50-60 Hz	CE

Consumption: 400W

#### Connections

Power supply: 3 x 1 sq mm cable (1,5 m length) DMX In/Out: 0,7 m cable with XLR 5 pins IP65 connector

# IP protection degree IP65

IK protection degree

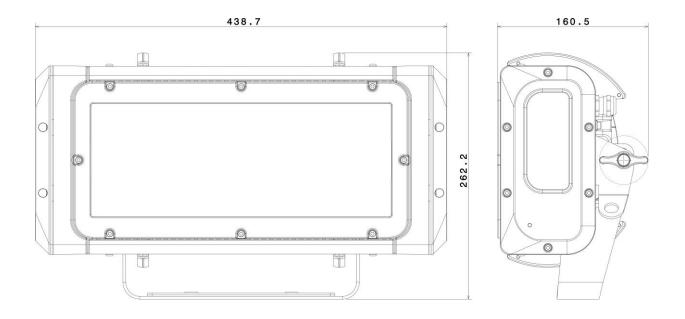
**Operating ambient temperature** -20° / 45°

Weight 10 Kg

### Certifications



#### **DIMENSIONS**



## 5- ACCESSORIES

#### As standard

- 1 x Holographic filter 20° (code 0506A043.D11)
- 1 x Holographic filter 40° (code 0506A045.D11)
- 1 x Holographic filter 60°x10° (code 0506A092.D11)
- 1 x PowerCON TRUE1 female cable connector (code 0520P066)
- 1 x PowerCON TRUE1 male cable connector (code 0520P067)
- 1 x Display UV protection (code 03.LA.218)
- 1 x Omega bracket with "Fast Lock" already mounted on the unit (code 02K00467)
- 1 x User's Manual

#### **Optional (on request)**

- Barndoor black finishing (code 03.LA.210)
- Permanent installation kit IP68: Power IN IP68 cable connector + 2 x DMX IN/OUT IP68 cable connectors (code 03.LA.214)
- Bracket for ground installation (code 03.LA.213)
- Kit 4 rubber feet for ground installation (02SK0370)
- Aliscaf clamp for tube diameter 50 mm (Max load 200 Kg) (code 0521A033) (indicated for any kind of loads vertical / horizontal)

- Professional Quick trigger clamp (Max load 100 Kg) (code 0521A037) (not indicated for horizontal load)

- "C" Clamp G60 (Max load 50 Kg) (code 0521A004) (not indicated for horizontal load)
- Safety cable 5 x 600 mm (Max load 60 Kg) (code 0521A038)
- DTS Dongle firmware uploader (code 03.LA.206)

## 6- IMPORTANT SAFETY INFORMATION

### 6.1 Fire prevention:

-Minimum distance from the closest illuminable surface: 0,5 m. 0,5 m

- Replace any blown or damaged fuses only with those of identical value.

Attention: the fuse replacement must be made by DTS personnel or experienced person.

-Connect the unit to mains power via a thermal magnetic circuit breaker.

# 6.2 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 projector.

-The level of technology inherent in the BRICK 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 unit.

-Never connect the unit without proper earth connection.

-The fixture should be located in places with a good air ventilation.





-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 luminaire should be positioned so that prolonged staring into the luminaire at a distance of 24,69 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 unit is not for household use and must be installed by a qualified electrician or experienced person.

-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 60°C. Never handle the unit until at least 5 minutes have elapsed since the projector was turned off. -Never install the fixture in an enclosed area lacking sufficient air flow.



The ambient temperature should not exceed 45°C.  $t_a 45^{\circ}C$ 

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



-The projector is classified as an outdoor appliance and its protection level against the penetration of solid and liquid objects is IP65. Suitable for wet locations.

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## 6.5 Waste Electrical and Electronic equipment (WEEE) directive:

-The machine, 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.

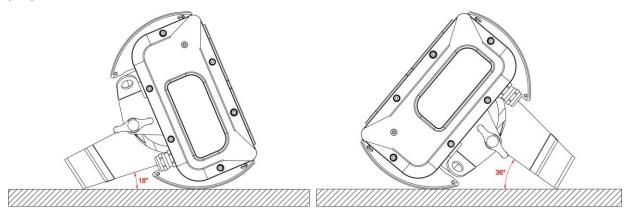
#### 7- INSTALLATION

The unit is suitable for wet locations.

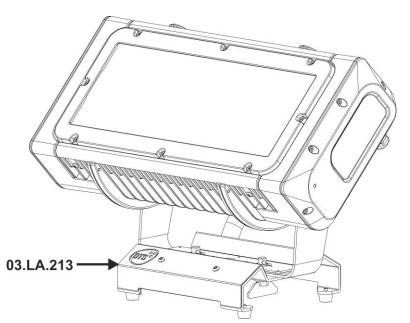
#### 7.1 Floor mounting installation

BRICK may be either floor or ceiling mounted.

For floor mounting installation, as standard, BRICK can be used as a self standing projector.



Moreover, as additional accessory, a bracket with 4 rubber mounting feet (code 03.LA.213) is available on demand.



## 7.2 Ceiling mounting installation

For ceiling mounting installation, it is recommended the use of appropriate clamps to fix the unit to the mounting surface.

An Omega bracket with Fast Lock connections already mounted on the unit allow to hang the BRICK by using fixing clamps for truss.

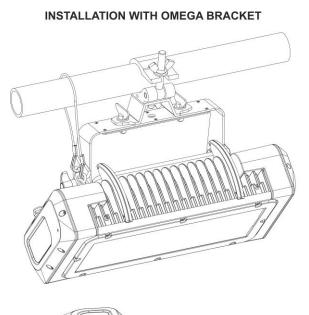
The supporting structure from which the unit is hung should be capable of bearing the weight of the unit, as should any clamps used to hung it.

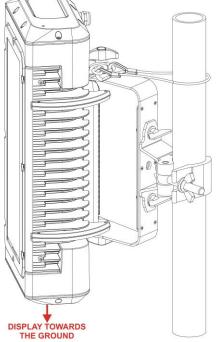
For outdoor application where BRICK needs to be installed vertically keep the unit display towards the floor.

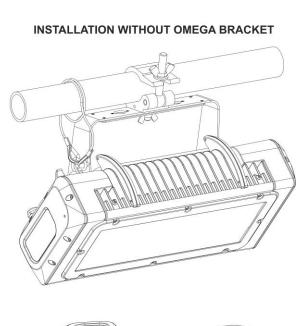
#### ATTENTION:

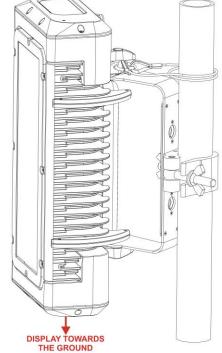
A safety cable must be securely fixed to the unit's mounting bracket and to the support structure of the projector as shown in the picture.

A suitable safety cable (code 0521A038) is available on demand.









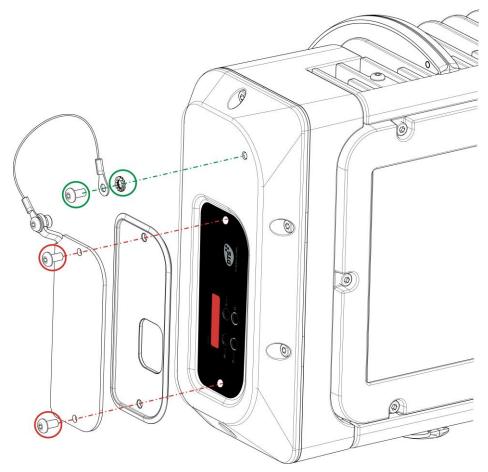
### 7.3 Display UV Protection

For outdoor installation, BRICK is provided with a Display UV protection (code 03.LA.218).

To install the Display UV protection:

Put in place the UV protection plate and the gasket on the display panel and fix both with the 2 marked screws provided in the kit.

Fix the safety cable on the side cap with the marked screw and the washer provided in the kit as shown in the picture.



#### 7.4 Permanent installation kit

A permanent installation kit for IP68 cable connections (code 03.LA.214) is available on demand.

Included in the kit:

1 x Power IN IP68 cable connector (code 0520P080)

2 x DMX IN IP68 cable connector (code 0520P082)

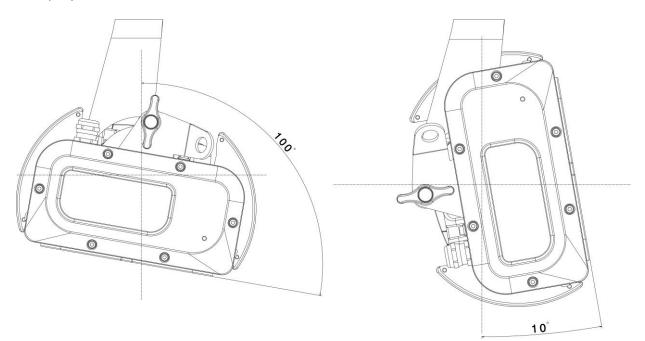
2 x DMX OUT IP68 cable connector (code 0520P081)

#### 7.5 Protection against liquids

If IP65 protection is impaired for any reason, do not expose this product to external atmospheric agents, because it could be damaged.

## 7.6 Movement

The projector has a maximum movement of 110° for Tilt.



#### 7.7- Risk of fire

Each fixture produces heat and must be installed in a well-ventilated place.

Minimum distance from the object being illuminated is 0,5 m. (0,5 m)

#### 7.8- Forced ventilation

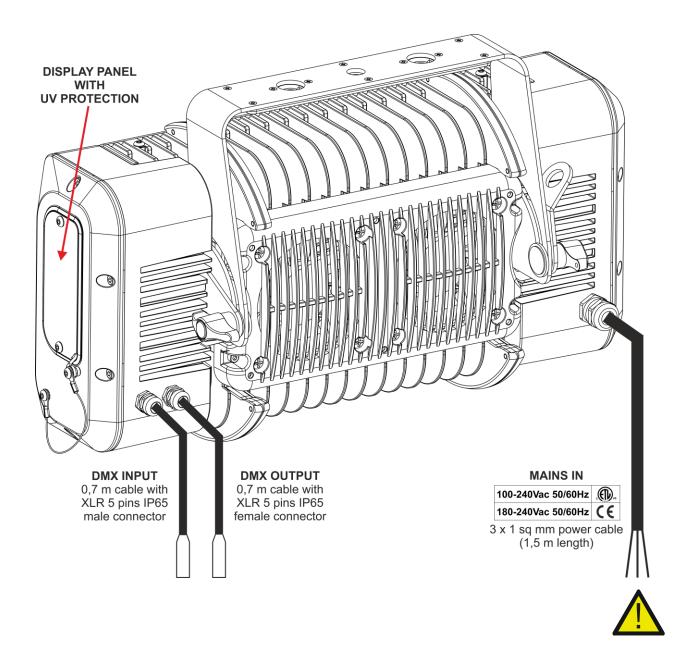
You will note, on inspection, that the unit features various air inlets and cooling fans. These should, under no circumstances, be blocked or obstructed whilst the projector is in operation. Doing so could cause the fixture to seriously overheat thereby compromising its proper operation.

#### 7.9- Ambient temperature

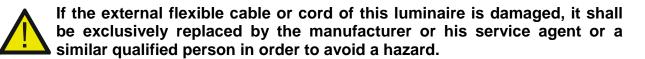
The projector should never be installed in places that lack a constant air flow.

The ambient temperature should not exceed 45°C.  $t_a 45^{\circ}C$ 

#### 8- INPUT / OUTPUT CONNECTIONS



Terminal block or plug not included. Installation may require advice from a qualified person.



### 9- DMX SIGNAL CONNECTION:

The unit operates using a digital DMX 512 signal.

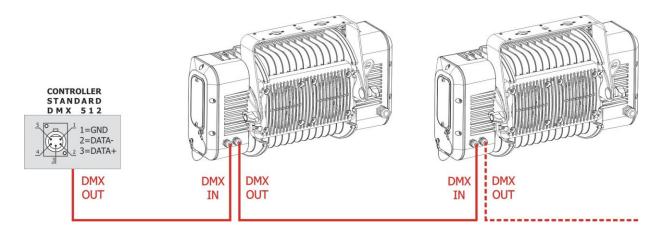
Connection between the controller and the unit or between units must be carried out using a two pair screened ø 0.5 mm.

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.



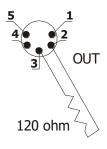
If the display showing the DMX address flashes, then one of the following errors has occurred:

- DMX signal not present
- DMX reception problem

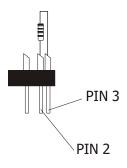
For Installations where long distance DMX cable connections are needed, we suggest to use a DMX terminator.

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

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

Projector 1A001Projector 2A011If you want to select the next projector, just add "10"Projector 3A021....A....projector 6A051

## 9.2 Selecting the DMX address

 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).
 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.

BRICK 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	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	Description / values of sensors

## **10- RDM FUNCTIONS**

RDM MANUFACTURER-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 = CHPR (demo program steps 0116 same as menu "NDMX > CHPR") 3 = All channels @ 100% 4 = CUSTOM (RGBW values set into the menus "RED NO DMX" (Default = 255) "GREEN NO DMX" (Default = 255) "BLUE NO DMX" (Default = 255) "WHITE NO DMX" (Default = 255) 5 = Keep last valid DMX signal (Default)	

#### **11- FIRMWARE UPDATING**

To update the firmware release of the BRICK 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 BRICK 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 BRICK 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	<ul> <li>To access the control menus in the display panel.</li> </ul>
	<ul> <li>To return to the previous level in the menu structure without making a change.</li> </ul>
	<ul> <li>To exit the menus.</li> </ul>
ENTER	To select any required menu.
	<ul> <li>To confirm any changes.</li> </ul>
<b>UP / DOWN</b>	<ul> <li>To navigate the menus structure.</li> </ul>
	To change any value.

FIRMWARE RELEASE	1.07
RDM Device Model ID	0x0D40
DMX Personality IDs	0x01 "RGBW 10 chans"
	0x02 "RGBW 4 chans"
	0x03 "RGBW 6 chans"
	0x04 "RGBW FINE 10 chans"

MAIN MENU	LEVEL 1	LEVEL 2	LEVEL 3	FUNCTION
dISP	Po5 /	88		Display normal orientation for floor mounting position (Default)
		88		Display inverted orientation for
	5263	oFF		suspended mounting position Display always ON (Default)
		 		Display goes OFF after 10 seconds
NodE	10 cH			Allows to select 10 DMX channels mode (Default)
	6 cH			Allows to select 6 DMX channels mode
	гбьИ			Allows to select RGBW mode (4 DMX channels)
	FInE			Allows to select FINE mode (10 DMX channels)
LEd	5 <i>11</i> E H	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. <b>4 = 100 ms Smooth response to</b> <b>DMX variation (Default)</b> 20 = 500 ms Smooth response to DMX variation.
	coNP	۹۵85		Allows to select Quadratic current for linear light output (Default)
		LInE		Allows to select Linear current output
	59nc	6 10-5000		Allows to adjust the PWM frequency value (Hz) in order to reduce flickering in the process of your camera recordings. Default = 610 Hz
	655	on oFF		Allows to increase the LED's current from 70% to 100% per channel Default = ON
Ruto	сНРг	SPEE	<u>1-3600</u>	Automatic mode without DMX
	 5::EP 0: I - 1:6	URĪĒ	1-3600	<ul> <li>controller.</li> <li>Chase with 16 steps previously created in REC mode.</li> <li>Speed time and wait time values (in seconds) selectable by user</li> <li>(Default = 10).</li> <li>In Auto mode the unit do generate DMX for slave units.</li> </ul>
	cPO I	rEd	0-255	16 customizable Colour Macros. RGBW values selectable by user
	<u> </u>	<u>Gr88</u>	0-255	(Default = 255).
	с Р <sup>ії</sup> 16	666	0-255	
		UHIE	<u> </u>	
	rßln	SPEE	1-3600	Rainbow colours effect. Speed time value (in seconds) selectable by user <b>(Default = 10)</b> .
	cU0			16 Colour Macros as on DMX channel 9 (MACRO COLOR).
	<i>د 1</i> 11			Default = 01
	2700 eñioe			12 White color temperature from 2700K to 8000K as on DMX channel 8 (CCT). Default = 2700K
	8000			
	9100			Dimmer level selectable by user as on DMX channel 6 (DIMMER) Default = 255
	SKuŁ			Shutter level selectable by user as on DMX channel 5 (SHUTTER) Default = 15
	ESc			Esc from automatic mode.

MAIN MENU	LEVEL 1	LEVEL 2	LEVEL 3	FUNCTION
rEc	10cH			In DMX Recorder mode it is
, , , ,	10211	-00   NO0		<ul> <li>possible to create and store the scenes of the CHPR menu by</li> </ul>
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		using an external DMX controller.
		ពិយី ទេ		The unit must be set to 10 DMX channels mode.
				Refer to "REC MODE" at page 20.
SLAU	SurE	SLU		Slave mode. The unit is forced to DMX address
				1 and 10 DMX channels mode
				receiving signal from the unit set in Auto mode.
		ESc		Esc from slave mode
FRn	SEd			Allows to select the internal fans
	<u> </u>			<ul> <li>speed.</li> <li>Standard mode: High fans speed.</li> </ul>
	AUE			Silent mode: Low fans speed for a
				very low noise operation. Automatic mode: Automatic fans
				speed related to LED working
				conditions. Default = STD
ndNH	L9UX			No DMX action.
_				Keep last valid DMX signal (Default)
	<u>688</u>			Black-out
	<u>oFF</u> cHPr	5 <i>225</i>	<u> 1-3600</u> 1-3600	Chase with 16 steps previously
		SPEE URIE	1-7600	<ul> <li>created in REC mode as per AUTO &gt; CHPR menu.</li> </ul>
		0		Speed time and wait time values
				(in seconds) selectable by user (Default = 10).
				In Auto mode the unit do generate
	חחו			DMX for slave units. All channels @ 100%
	100 cuSt	- E d	0-255	Custom.
			0-255	<ul> <li>RGBW values selectable by user</li> <li>(Default = 255).</li> </ul>
			0-255	(Delauli = 255).
			<u> </u>	_
		UHIE		To restore default settings
- <u>6656</u> - 2802	<u> </u>	пгсп		LED temperature monitoring
	<u> </u>	025.0		Micro controller temperature
				monitoring Outputs 1 and 2 of LED Driver
	drl	025.0		board temperature monitoring
	d-U2	025.0		Output 3 and 4 of LED Driver board temperature monitoring
ЕПЕ	rEd			Shows the total unit life time and
	<u>Gr</u> EE		1	<ul> <li>the RGBW LEDs life time</li> </ul>
	<u>bluë</u>			1
	 			1
	 			-
	<u> </u>			Firmware release
Soft	<u> </u>			

#### 13- REC MODE

#### DMX Recorder mode

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

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

The three new DMX channels are:

DMX channel 11 = SCENES channel From 0-10 = no function (r001) From 11-255 are displayed the programmable scenes (max 16 scenes from M001 to M0016)

DMX channel 12 = EDIT channel:

-From 0-19 = no function

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

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

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

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

DMX channel 13 = RECORDING channel

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

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 ouErtENPErAture	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.
drü i SEnSor Error	Thermal sensor on outputs 1 and 2 of LED
	Driver board damaged (open or in short
	circuit).
	Unit immediately goes in black-out.
dru I overtenperature	Temperature detected over 100°C on
	outputs 1 and 2 of LED Driver board. Unit
	immediately goes in black-out.
druz SEnSor Error	Thermal sensor on outputs 3 and 4 of LED
	Driver board damaged (open or in short
	circuit).
	Unit immediately goes in black-out.
druz ouErtenperature	Temperature detected over 100°C on
	outputs 3 and 4 of LED Driver board. Unit
	immediately goes in black-out.

#### **14- ERROR MESSAGES**

#### **15- PERIODIC CLEANING**

#### Lenses Front Glass:

The dust can reduce the luminous output substantially. Reqularly clean the lenses front glass using a soft cotton cloth, dampened with a specialist glasses cleaning solution.

#### **16- PERIODIC CONTROLS**

#### Mechanical parts:

Periodically check all mechanical parts and the gaskets. Please refer to an authorised DTS service centre for any operation involving of the unit if needed.

#### **Electrical components:**

Check for unit proper earthing. Please refer to an authorised DTS service centre for any operation involving of the unit if needed.

#### Fuse replacement:

Using a multimeter, test the condition of the fuse, replacing it with one of equivalent type. Disconnect mains prior to remove the fuse to be tested.

# Attention: the fuse replacement must be made by DTS personnel or experienced person.

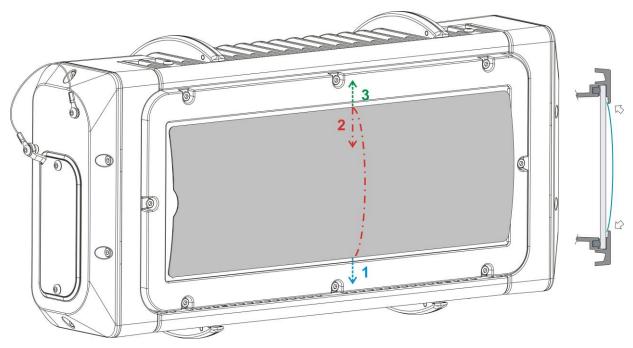
# **17- HOLOGRAPHIC FILTER INSTALLATION**

BRICK offers a range of holographic filters quickly interchangeable (no tools required). To properly install the holographic filter:

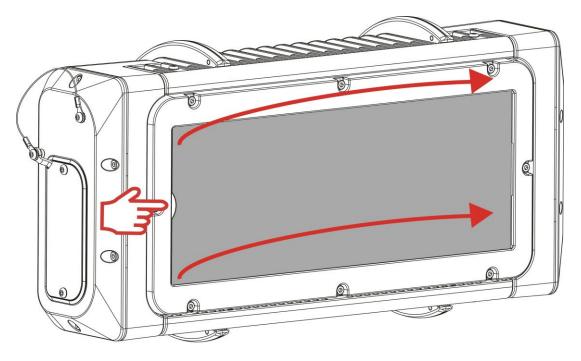
1 - Put in place the bottom edge of the filter.

- 2 Bend the filter.
- 3 Insert the top edge of the filter.

For permanent outdoor installation, the holographic filter can also be mounted internally.



To remove the filter simply lift with a finger the filter on the side with the opening as shown in the picture.

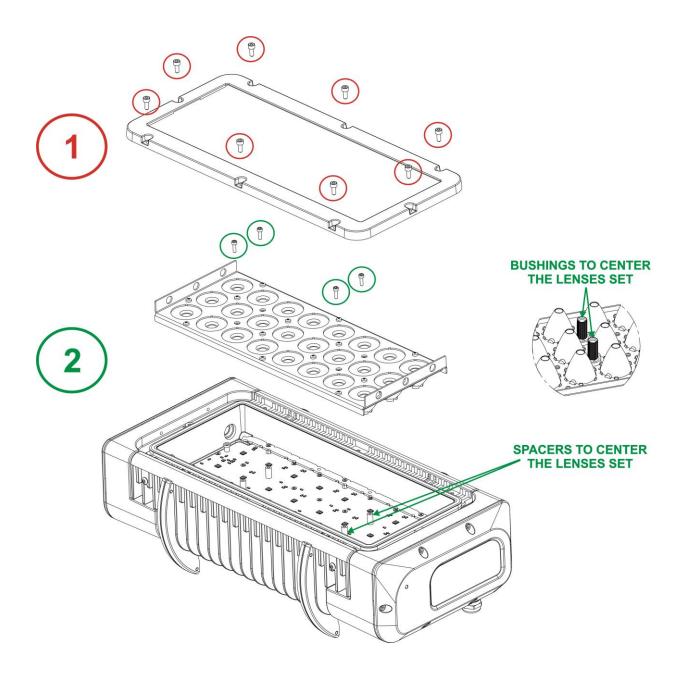


#### **18- LENSES SET REPLACEMENT**

Attention: the lenses set replacement must be made by DTS personnel or experienced person. Wrong operations can damage the IP65 protection.

1 – Remove the front screen with the protection glass by loosing the 8 marked screws.

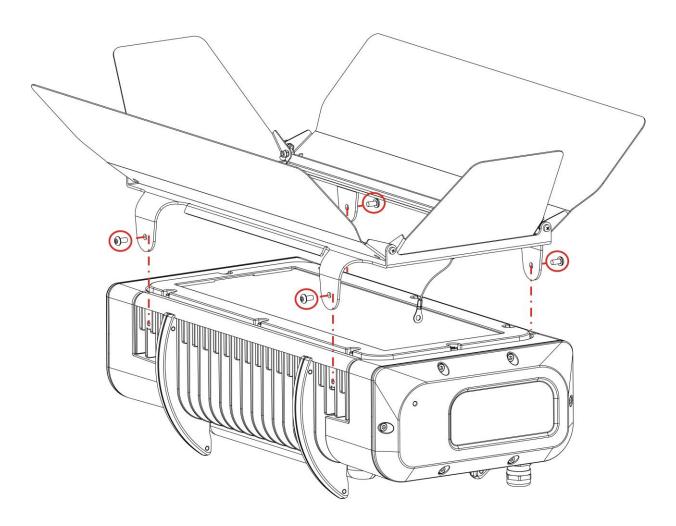
2 – Remove the original lenses set by loosing the 4 marked screws.



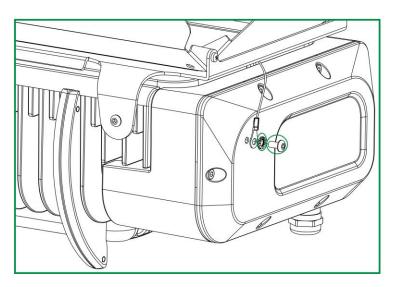
#### **19- BARNDOOR INSTALLATION**

The Barndoor for BRICK (code 03.LA.210) is available on demand.

Fix the barndoor on the BRICK by using the 4 marked screws previously removed from the unit body.



Once installed, fix the safety cable on the side cap by using the marked screw and the washer provided in the box as shown in the picture.



### 20- DMX PROTOCOL

# 10 CHANNELS MODE (Default)

- 1 RED
- 2 GREEN
- 3 BLUE
- 4 WHITE
- 5 SHUTTER
- 6 DIMMER
- 7 DIMMER FINE
- 8 CCT
- 9 MACRO COLOR
- 10 FUNCTIONS

Ch	Name		DMX levels
1	RED	0255	Proportional color from min to max
2	GREEN	0255	Proportional color from min to max
3	BLUE	0255	Proportional color from min to max
4	WHITE	0255	Proportional color from min to max
5	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
6	DIMMER	0255	Proportional dimmer from min to max
7	DIMMER FINE	0255	Proportional dimmer from min to max
8	CCT	0010 - No func. 011 - 2700K 033 - 3000K 055 - 3200K 077 - 3500K 099 - 4000K 121 - 4500K 143 - 5000K 165 - 5600K 187 - 6000K 209 - 6500K 232 - 7000K 255 - 8000K	Linear color temperature correction from 2700K to 8000K. Relevant CCT (Correlated Color Temperature) values: 11 = 2700K 33 = 3000K 55 = 3200K 77 = 3500K 99 = 4000K 121 = 4500K 133 = 5000K 187 = 6000K 209 = 6500K 223 = 7000K 255 = 8000K

Ch	Name		DMX levels
9	MACRO COLOR	014	No function
		1524	1: LEE FILTER NO. 19 "FIRE" (R255 G16 B0 W0 coハP=LinE) (R255 G64 B0 W0 coハP=9uAd)
		2534	2: LEE FILTER NO. 20 "MEDIUM AMBER" (R255 G84 B0 W0 $co\Pi P=LInE$ ) (R255 G146 B0 W0 $co\Pi P=q_{u}Rd$ )
		3544	3: LEE FILTER NO. 25 "SUNSET RED" (R255 G48 B2 W0 coハP=L/nE) (R255 G111 B23 W0 coハP=9uAd)
		4554	4: LEE FILTER NO. 101 "YELLOW" (R255 G135 B0 W0 coパP=LinE) (R255 G186 B0 W0 coパP=9 JAd)
		5564	5: LEE FILTER NO. 104 "DEEP AMBER" (R255 G130 B0 W0 $ca\Pi P=LInE$ ) (R255 G182 B0 W0 $ca\Pi P=q_{u}Rd$ )
		6574	6: LEE FILTER NO. 106 "PRIMARY RED" (R255 G0 B0 W0 $co\Pi P=LInE$ ) (R255 G0 B0 W0 $co\Pi P=q_{u}Rd$ )
		7584	7: LEE FILTER NO. 111 "DARK PINK" (R255 G0 B0 W97 $co\Pi P = L!nE$ ) (R255 G0 B0 W157 $co\Pi P = 9 uRd$ )
		8594	8: LEE FILTER NO. 113 "MAGENTA" (R255 G3 B3 W8 $ca\Pi P=LinE$ ) (R255 G28 B28 W45 $ca\Pi P=9 uRd$ )
		95104	9: LEE FILTER NO. 118 "LIGHT BLUE" (R0 G250 B52 W40 coハP=LInE) (R0 G252 B115 W101 coハP=9い月d)
		105114	10: LEE FILTER NO. 122 "FERN GREEN" (R115 G255 B0 W19 coパP=L/nE) (R171 G255 B0 W70 coパP=9し月d)
		115124	11: LEE FILTER NO. 126 "MAUVE" (R255 G0 B55 W0 coのP=LinE) (R255 G0 B118 W0 coのP=9uRd
		125134	12: LEE FILTER NO. 137 "LAVENDER" (R232 G197 B49 W37 coパP=LinE) (R243 G224 B112 W97 coパP=9uRd)
		135144	13: LEE FILTER NO. 139 "PRIMARY GREEN" (R30 G255 B0 W0 このハア=LInE) (R87 G255 B0 W0 このハア= 9 いみd)
		145154	14: LEE FILTER NO. 147 "APRICOT" (R163 G63 B2 W7 coパP=LInE) (R204 G127 B23 W42 coパP=9ぃRd)
		155164	15: LEE FILTER NO. 154 "PALE ROSE" (R255 G110 B0 W76 このパP=LInE) (R255 G167 B0 W139 このパP=9い吊d)
		165174	16: LEE FILTER NO. 181 "CONGO BLUE" (R35 G45 B255 W0 coパP=LinE) (R94 G107 B255 W0 coパP=9いRd)
		175184	RGB RAINBOW COLOR MIXING: SPEED 1 (6 SEC.)
		185194	RGB RAINBOW COLOR MIXING: SPEED 2 (15 SEC.)
		195204	RGB RAINBOW COLOR MIXING: SPEED 3 (30 SEC.)
		205214	RGB RAINBOW COLOR MIXING: SPEED 4 (45 SEC.)
		215224	RGB RAINBOW COLOR MIXING: SPEED 5 (60 SEC.)
		225234	RGB RAINBOW COLOR MIXING: SPEED 6 (120 SEC.)
		235244	RGB RAINBOW COLOR MIXING: SPEED 7 (150 SEC.)
		245255	RGB RAINBOW COLOR MIXING: SPEED 8 (180 SEC.)

Ch	Name		DMX levels
10	FUNCTIONS (staying	014	No function
	on desired option for 5 seconds)	1524	SMOOTH OFF
	FUNCTIONS (staying	2526	SMOOTH 1 (25 ms)
	on desired option for 5 seconds)	2728	SMOOTH 2 (50 ms)
		2930	SMOOTH 3 (75 ms)
		3132	SMOOTH 4 (100 ms) (DEFAULT)
	-	3334	SMOOTH 5 (125 ms)
		3534	
			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 ( $co\Omega P$ ) QUADRATIC (DEFAULT)
		7584	GAMMA CORRECTION (כסחף) 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
		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 – RGB @ 100% (WHITE channel OFF)
		181182	NO DMX ACTION - CHPR STEPS 01.16
		400 404	WAIT and SPEED time selectable via "NDMX>CHPR" menu
		183184	NO DMX ACTION – CUSTOM RGBW values selectable via "NDMX>CUSTOM" menu or via RDM Custom PID
		185234	RESERVED
		235242	FAN STANDARD MODE (DEFAULT)
		243244	FAN AUTO MODE
		245252	FAN SILENT MODE
		253255	SET FUNCTIONS TO DEFAULT:
			SMOOTH = 4; GAMMA CORRECTION = QUADRATIC; OUTPUT FREQUENCY = 610 Hz; BOOST = ON; DISPLAY STAND BY = DISABLE;
			NO DMX ACTION = KEEP LAST DMX; FAN = STANDARD MODE

# "RGBW" MODE (4 CHANNELS)

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

Ch	Name	DMX levels		
1	RED	0255	Proportional color from min to max	
2	GREEN	0255	Proportional color from min to max	
3	BLUE	0255	Proportional color from min to max	
4	WHITE	0255	Proportional color from min to max	

## **6 CHANNELS MODE**

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

Ch	Name	DMX levels		
1	RED	0255	Proportional color from min to max	
2	GREEN	0255	Proportional color from min to max	
3	BLUE	0255	Proportional color from min to max	
4	WHITE	0255	Proportional color from min to max	
5	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	
6	DIMMER	0255	Proportional dimmer from min to max	

# "FINE" MODE (10 CHANNELS)

- 1 RED
- 2 RED FINE
- 3 GREEN
- 4 GREEN FINE
- 5 BLUE
- 6 BLUE FINE
- 7 WHITE
- 8 WHITE FINE
- 9 DIMMER
- 10 DIMMER FINE

Ch	Name	DMX levels		
1	RED	0255	Proportional color from min to max	
2	RED FINE	0255	Proportional color from min to max	
3	GREEN	0255	Proportional color from min to max	
4	GREEN FINE	0255	Proportional color from min to max	
5	BLUE	0255	Proportional color from min to max	
6	BLUE FINE	0255	Proportional color from min to max	
7	WHITE	0255	Proportional color from min to max	
8	WHITE FINE	0255	Proportional color from min to max	
9	DIMMER	0255	Proportional dimmer from min to max	
10	DIMMER FINE	0255	Proportional dimmer from min to max	

NOTES

NOTES



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



