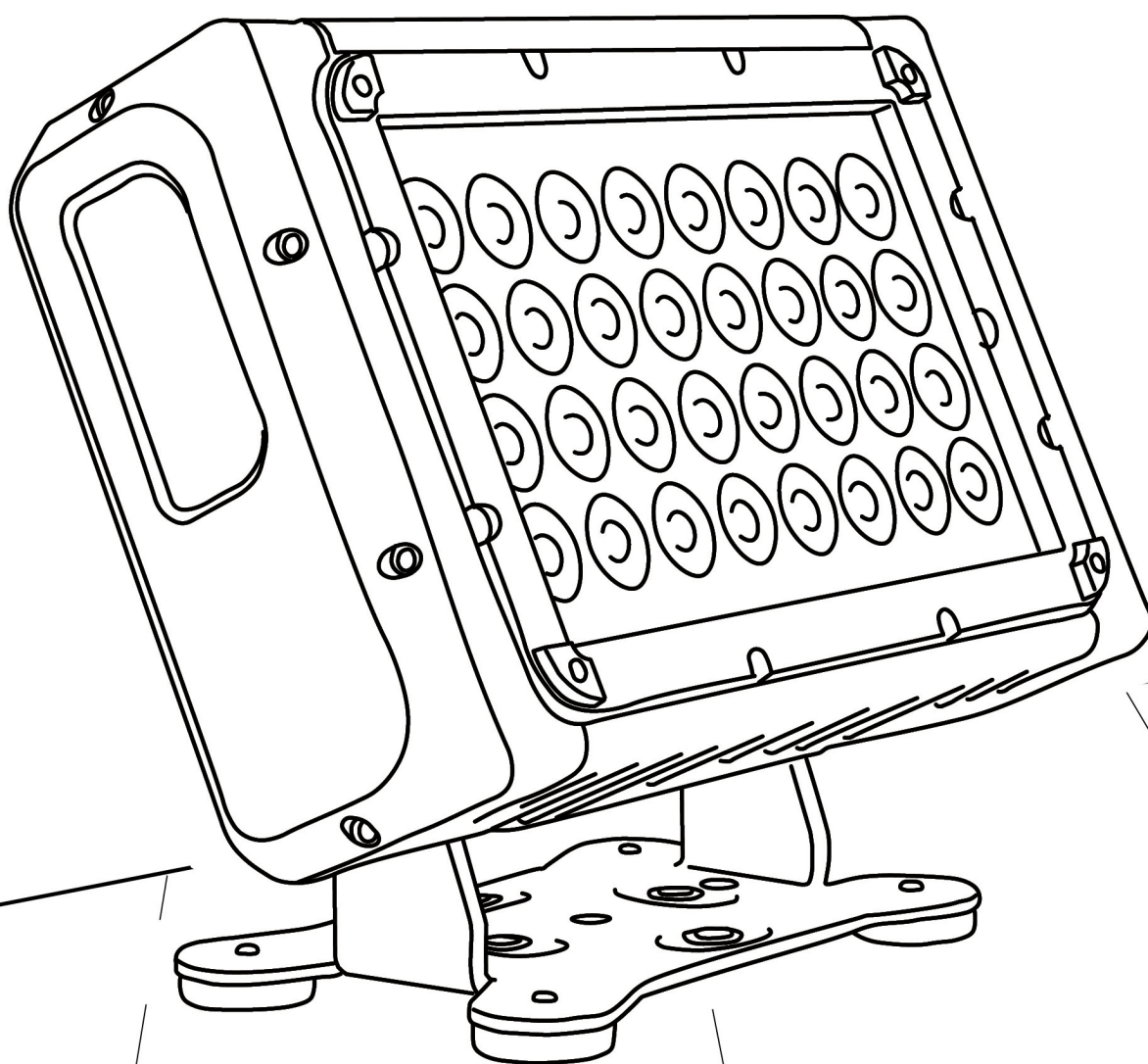


X BRICK

RDM-DMX MANUAL



Release	1.04		For more information 
Language	EN		



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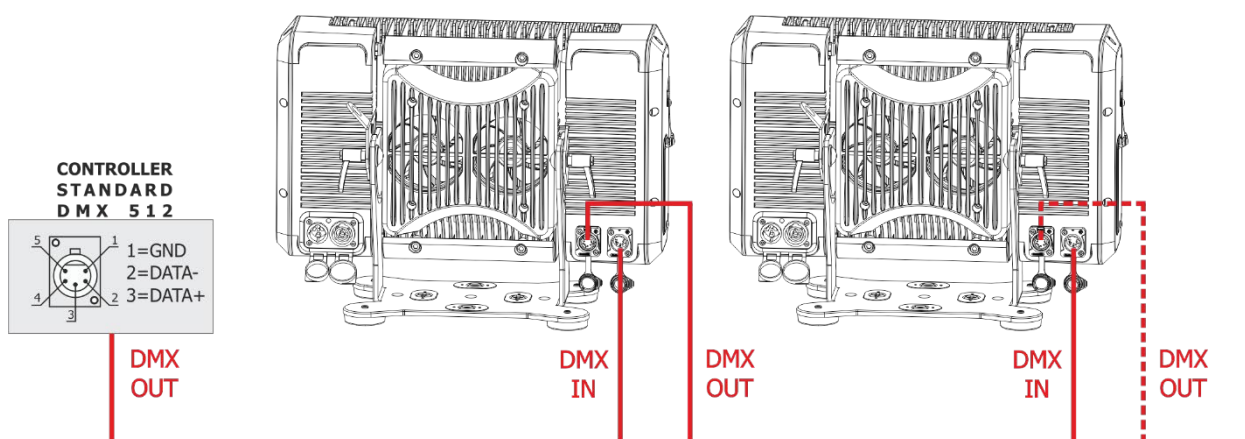
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1 DMX Signal Connection

- The unit operates using the digital USITT DMX512 signal.
 - Connection between the light controller and the projector, or between projectors, must be carried out using a two-pair screened $\varnothing$ 0.5 mm cable.
 - Ensure that the conductors do not touch each other. Do not connect the ground cable to the XLR chassis.
- The housing of the plug must be isolated.
- Connect the light controller to the DMX IN panel connector of the projector; to create a link to the next projector, simply connect the DMX OUT plug of the former to the DMX IN plug of the new fixture in line.
- Following this procedure, all the projectors will be cascade connected.

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

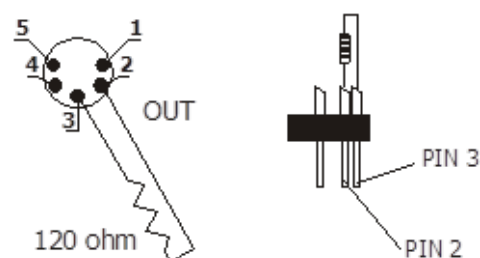
- DMX signal not present
- DMX reception problem



The use of a DMX terminator is recommended.

The DMX terminator is a male XLR 3- or 5-pins connector with a 120 Ω resistor between pin 2 and pin 3.

The DMX terminator must be plugged in into the last unit's DMX OUT panel connector of the DMX line.



Place a 120 Ω resistor between pin 2 and 3 of a male XLR connector;

Plug the resistor into the DMX OUT panel connector of the last unit connected to the DMX line.

1.1 DMX Modes

X-BRICK can be used in nine different DMX modes:

1. Full operation modes

- "Chase" (23 channels) (Default)
- "Extended" (29 channels)
- "Sectors RGBW x4" (16 channels)

- “Sectors RGBW fine x4” (32 channels)
- “Sectors RGBW+Shut+Dim x4” (24 channels)

2. DMX single layer modes (compatible with all BRICK and MINI BRICK DMX modes)

- “Standard” (10 channels)
- “Global RGBW” (4 channels)
- “Global RGBW+Shut+Dim” (6 channels)

e.g., when using the unit in “Chase” (23 DMX channels) (Default) mode, set the following addresses on the light desk:

Projector 1	A001	
Projector 2	A024	<i>If you want to select the next projector, just add “23” to the former DMX address</i>
Projector 3	A047	
.....	A....	
Projector 6	A116	

1.2 Setting Up the DMX Address

- 1 Press the UP and DOWN key until you reach the desired DMX address. The numbers on the display will start flashing (new DMX address hasn't yet been set).
- 2 Press ENTER to confirm your selection. The numbers on the display will stop flashing; the projector is now set to the new DMX address.

TIP: if you keep pressed down the UP or DOWN keys, address scrolling will be quicker allowing thus for a faster selection.

2 RDM Functions

By using a RDM controller, it is possible to read/set DMX addresses, DMX modes and other parameters.

X-BRICK accepts the following RDM commands:

RDM Device Model ID: 0x0D65

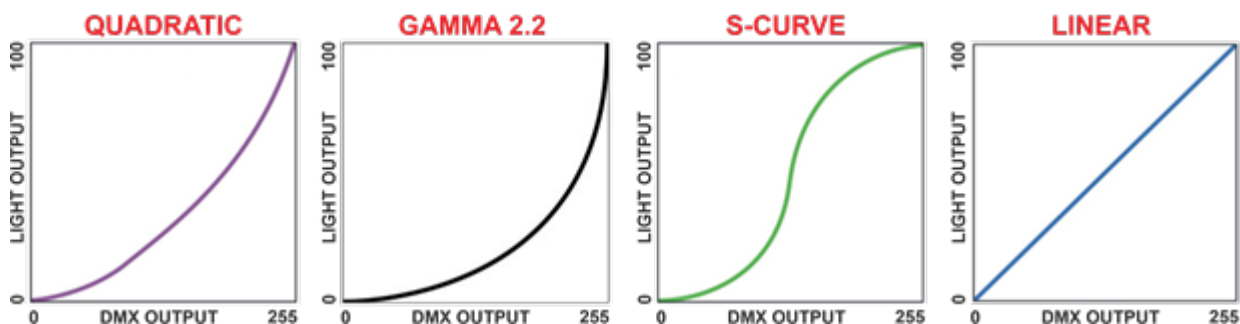
RDM PID DESCRIPTION	RDM PID VALUE	GET	SET
Category - Network Management			
DISC_UNIQUE_BRANCH	0x0001		
DISC_MUTE	0x0002		
DISC_UN_MUTE	0x0003		
Category - Status Collection			
STATUS_MESSAGES	0x0030	X	
STATUS_ID_DESCRIPTION	0x0031	X	
Category - RDM Information			
SUPPORTED_PARAMETERS	0x0050	X	
PARAMETERS_DESCRIPTION	0x0051	X	
Category - Product Information			
DEVICE_INFO	0x0060	X	

RDM PID DESCRIPTION	RDM PID VALUE	GET	SET
DEVICE_MODEL_DESCRIPTION	0x0080	X	
MANUFACTURER_LABEL	0x0081	X	
DEVICE_LABEL	0x0082	X	X
SOFTWARE_VERSION_LABEL	0x00C0	X	
Category - DMX512 Setup			
DMX_PERSONALITY	0x00E0	X	X
DMX_PERSONALITY_DESCRIPTION	0x00E1	X	
DMX_START_ADDRESS	0x00F0	X	X
Category - Sensors			
SENSOR_DEFINITION	0x0200	X	
SENSOR_VALUE	0x0201	X	X
Category - Power/Lamp Settings			
DEVICE_HOURS	0x0400	X	
LAMP_HOURS	0x0401	X	
Category - Display Settings			
DISPLAY_INVERT	0x0500	X	X
Category - Control			
IDENTIFY_DEVICE	0x1000	X	
Category – Dimmer Settings (Additional Messages)			
CURVE	0x0343	X	X
CURVE_DESCRIPTION	0x0344	X	
OUTPUT_RESPONSE_TIME	0x0345	X	X
OUTPUT_RESPONSE_TIME_DESCRIPTION	0x0346	X	
MODULATION_FREQUENCY	0x0347	X	X
MODULATION_FREQUENCY_DESCRIPTION	0x0348	X	
Category – Manufacturer-Specific PIDs			
LED_PIXEL_INVERT	0x9039	X	X
FANS_SETTING	0x903A	X	X
DISPLAY_STANDBY	0x903C	X	X
BKGND-CHS_CROSSFADE	0x903D	X	X
NO_DMX_ACTION	0x9002	X	X
RED_NO_DMX	0x9003	X	X
GREEN_NO_DMX	0x9004	X	X
BLUE_NO_DMX	0x9005	X	X
WHITE_NO_DMX	0x9006	X	X
INT_NO_DMX	0x900A	X	X
RED_FINE_NO_DMX	0x9014	X	X
GREEN_FINE_NO_DMX	0x9015	X	X
BLUE_FINE_NO_DMX	0x9016	X	X
WHITE_FINE_NO_DMX	0x9017	X	X
INT_FINE_NO_DMX	0x9018	X	X
RED2_NO_DMX	0x9019	X	X
GREEN2_NO_DMX	0x901A	X	X

RDM PID DESCRIPTION	RDM PID VALUE	GET	SET
BLUE2_NO_DMX	0x901B	X	X
WHITE2_NO_DMX	0x901C	X	X
INT2_NO_DMX	0x901D	X	X
RED2_FINE_NO_DMX	0x901E	X	X
GREEN2_FINE_NO_DMX	0x901F	X	X
BLUE2_FINE_NO_DMX	0x9020	X	X
WHITE2_FINE_NO_DMX	0x9021	X	X
INT2_FINE_NO_DMX	0x9022	X	X
RED3_NO_DMX	0x9023	X	X
GREEN3_NO_DMX	0x9024	X	X
BLUE3_NO_DMX	0x9025	X	X
WHITE3_NO_DMX	0x9026	X	X
INT3_NO_DMX	0x9027	X	X
RED3_FINE_NO_DMX	0x9028	X	X
GREEN3_FINE_NO_DMX	0x9029	X	X
BLUE3_FINE_NO_DMX	0x902A	X	X
WHITE3_FINE_NO_DMX	0x902B	X	X
INT3_FINE_NO_DMX	0x902C	X	X
RED4_NO_DMX	0x902D	X	X
GREEN4_NO_DMX	0x902E	X	X
BLUE4_NO_DMX	0x902F	X	X
WHITE4_NO_DMX	0x9030	X	X
INT4_NO_DMX	0x9031	X	X
RED4_FINE_NO_DMX	0x9032	X	X
GREEN4_FINE_NO_DMX	0x9033	X	X
BLUE4_FINE_NO_DMX	0x9034	X	X
WHITE4_FINE_NO_DMX	0x9035	X	X
INT4_FINE_NO_DMX	0x9036	X	X

FURTHER RDM MESSAGES:

CURVE	CURVE DESCRIPTION
1	LINEAR
2	QUADRATIC (default)
3	S-CURVE
4	GAMMA 2.2



OUTPUT RESPONSE TIME	OUTPUT_RESPONSE_TIME_DESCRIPTION
0	SMOOTH OFF
1	SMOOTH 1 (25 ms)
2	SMOOTH 2 (50 ms)
3	SMOOTH 3 (75 ms)
4	SMOOTH 4 (100 ms) (default)
5	SMOOTH 5 (125 ms)
6	SMOOTH 6 (150 ms)
7	SMOOTH 7 (175 ms)
8	SMOOTH 8 (200 ms)
9	SMOOTH 9 (225 ms)
10	SMOOTH 10 (250 ms)
11	SMOOTH 11 (275 ms)
12	SMOOTH 12 (300 ms)
13	SMOOTH 13 (325 ms)
14	SMOOTH 14 (350 ms)
15	SMOOTH 15 (375 ms)
16	SMOOTH 16 (400 ms)
17	SMOOTH 17 (425 ms)
18	SMOOTH 18 (450 ms)
19	SMOOTH 19 (475 ms)
20	SMOOTH 20 (500 ms)

FURTHER RDM MESSAGES:

MODULATION FREQUENCY	MODULATION FREQUENCY DESCRIPTION
1	610 Hz
2	800 Hz
3	1.000 Hz (default)
4	1.500 Hz
5	2.000 Hz
6	2.500 Hz
7	3.000 Hz
8	3.500 Hz
9	4.000 Hz
10	4.500 Hz
11	5.000 Hz

RDM MANUFACTURER'S SPECIFIC PIDs:

RDM CUSTOM PID	DESCRIPTION
LED_PIXEL_INVERT	0 = DISABLED (default) 1 = ENABLED
FANS_SETTING	0 = FAN MODE STANDARD(default) 1 = FAN MODE SILENT 2 = FAN MODE ULTRA-SILENT 3 = FAN MODE AUTO
DISPLAY_STANDBY	0 = DISABLED (default) 1 = ENABLED 2 = FORCED ENABLED

RDM CUSTOM PID	DESCRIPTION
NO_DMX_ACTION	1 = BLACKOUT 2 = PROGRAM 1-16 3 = RGB 100% 4 = RGB 60% 5 = CUSTOM 6 = CUSTOM2 7 = CUSTOM3 8 = CUSTOM4 9 = KEEP LAST (default)

MANUFACTURER-SPECIFIC PID	DESCRIPTION
RED_NO_DMX	Range 0-255 (Default = 128)
GREEN_NO_DMX	Range 0-255 (Default = 128)
BLUE_NO_DMX	Range 0-255 (Default = 128)
WHITE_NO_DMX	Range 0-255 (Default = 128)
INT_NO_DMX	Range 0-255 (Default = 128)
RED_FINE_NO_DMX	Range 0-255 (Default = 128)
GREEN_FINE_NO_DMX	Range 0-255 (Default = 128)
BLUE_FINE_NO_DMX	Range 0-255 (Default = 128)
WHITE_FINE_NO_DMX	Range 0-255 (Default = 128)
INT_FINE_NO_DMX	Range 0-255 (Default = 128)
RED2_NO_DMX	Range 0-255 (Default = 128)
GREEN2_NO_DMX	Range 0-255 (Default = 128)
BLUE2_NO_DMX	Range 0-255 (Default = 128)
WHITE2_NO_DMX	Range 0-255 (Default = 128)
INT2_NO_DMX	Range 0-255 (Default = 128)
RED2_FINE_NO_DMX	Range 0-255 (Default = 128)
GREEN2_FINE_NO_DMX	Range 0-255 (Default = 128)
BLUE2_FINE_NO_DMX	Range 0-255 (Default = 128)
WHITE2_FINE_NO_DMX	Range 0-255 (Default = 128)
INT2_FINE_NO_DMX	Range 0-255 (Default = 128)
RED3_NO_DMX	Range 0-255 (Default = 128)
GREEN3_NO_DMX	Range 0-255 (Default = 128)
BLUE3_NO_DMX	Range 0-255 (Default = 128)
WHITE3_NO_DMX	Range 0-255 (Default = 128)
INT3_NO_DMX	Range 0-255 (Default = 128)
RED3_FINE_NO_DMX	Range 0-255 (Default = 128)
GREEN3_FINE_NO_DMX	Range 0-255 (Default = 128)
BLUE3_FINE_NO_DMX	Range 0-255 (Default = 128)
WHITE3_FINE_NO_DMX	Range 0-255 (Default = 128)
INT3_FINE_NO_DMX	Range 0-255 (Default = 128)
RED4_NO_DMX	Range 0-255 (Default = 128)
GREEN4_NO_DMX	Range 0-255 (Default = 128)
BLUE4_NO_DMX	Range 0-255 (Default = 128)
WHITE4_NO_DMX	Range 0-255 (Default = 128)
INT4_NO_DMX	Range 0-255 (Default = 128)
RED4_FINE_NO_DMX	Range 0-255 (Default = 128)
GREEN4_FINE_NO_DMX	Range 0-255 (Default = 128)

MANUFACTURER-SPECIFIC PID	DESCRIPTION
BLUE4_FINE_NO_DMX	Range 0-255 (Default = 128)
WHITE4_FINE_NO_DMX	Range 0-255 (Default = 128)
INT4_FINE_NO_DMX	Range 0-255 (Default = 128)

RDM STATUS MESSAGE IDs:

Status Message ID	Data Value 1	Data Value 2	Status ID Description
0x8008			ERROR SUPPLY VOLTS TOO LOW
0x8009			ERROR SUPPLY VOLTS TOO HIGH
0x800B			ERROR BUS LED DRIVER CARD
0x801F			ERROR TEMPERATURE LED MODULE
0x8020	1: DRV1 2: DRV2 12: DRV1&DRV2		ERROR TEMPERATURE LED DRIVER %d
0x8021			ERROR TEMPERATURE MICRO
0x9000	1: RED 2: GREEN 3: BLUE 4: WHITE	1: SECTOR 1 2: SECTOR 2 3: SECTOR 3 4: SECTOR 4	ERROR LED %%d SECT %%d OPEN
0x9001	1: RED 2: GREEN 3: BLUE 4: WHITE	1: SECTOR 1 2: SECTOR 2 3: SECTOR 3 4: SECTOR 4	ERROR LED %%d SECT %%d SHORT
0x9010			ERROR TEMPERATURE PSU

3 Updating the Firmware

In order to update to the latest firmware release of the X-BRICK, you will need:

- DTS Firmware Uploader Dongle (code 03.LA.206).
- “DTS Firmware Upgrade Utility v.2.02” program installed on PC.
- Latest firmware release available for the X-BRICK unit.

Updating to the latest firmware release

To perform the update, please follow the procedure as described below:

- 1 Connect the DTS Firmware Uploader Dongle to a spare USB port on the PC.
- 2 Connect the unit’s DMX IN to the DTS Firmware Uploader Dongle’s DMX OUT with a standard DMX cable and turn on the fixture.
- 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 commence a reset.

For more information, please refer to an authorized DTS service center.

4 Display Functions



The X-BRICK display panel shows all the available control menus.

By selecting the available functions on these menus, you will be able to change the fixture's settings and behavior.

Beware that changing these settings may vary the operating functions of the unit so that it may not respond correctly to the signal given to it. Carefully read the instructions and tables 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.

Master Firmware Release	1.04
Slave Firmware Release	1.01
RDM Device Model ID	0x0D65
DMX Personality IDs	0x01 "STANDARD (10 ch)" 0x02 "CHASE (23 ch)" 0x03 "EXTENDED (29 ch)" 0x04 "GLOBAL RGBW (4 ch)" 0x05 "GLOBAL RGBW+SHUT+DIM (6 ch)" 0x06 "GLOBAL RGBW+DIM FINE (10 ch)" 0x07 "SECTORS RGBW X4 (16 ch)" 0x08 "SECTORS RGBW FINE X4 (32 ch)" 0x09 "SECTORS RGBW+SHUT+DIM X4 (24 ch)"

“Display Key-Lock” Function

This function can be enabled/disabled by contemporary pressing ENTER + DOWN keys for 3 seconds.

MAIN MENU	LEVEL 1	LEVEL 2	LEVEL 3	FUNCTION
DISPLAY	FLIP	SUSPENDED		Reverses display's reading depending on the mounting position.
		ON THE GROUND		On the ground or suspended. Suspended (Default).
	STANDBY	DISABLED		Display stand-by disabled (Default).
		ENABLED		Display goes OFF after 10 seconds.
		FORCED EN.		Display forced OFF even if control signal is missing or error messages are shown.
DMX MODE	1 – 10 CH STANDARD			Allows to select STANDARD mode (10 DMX channels). Single layer operation for compatibility with all BRICK models.
	2 – 23 CH CHASE			Allows to select CHASE mode (23 DMX channels). Default
	3 – 29 CH EXTENDED			Allows to select EXTENDED mode (29 DMX channels).
	4 – 4 CH GLOBAL RGBW			Allows to select GLOBAL RGBW mode (4 DMX channels). Single layer operation for compatibility with all BRICK models.
	5 – 6 CH GLOBAL RGBW+SHUT+DIM			Allows to select GLOBAL RGBW+SHUT+DIM mode (6 DMX channels). Single layer operation for compatibility with all BRICK models.
	6 – 10 CH GLOBAL RGBW+DIM FINE			Allows to select GLOBAL RGBW+DIM FINE mode (10 DMX channels). Single layer operation for compatibility with all BRICK models.
	7 – 16 CH SECTORS RGBW X4			Allows to select SECTORS RGBW mode (16 DMX channels).
	8 – 32 CH SECTORS RGBW FINE X4			Allows to select SECTORS RGBW FINE X4 mode (32 DMX channels).
	9 – 24 CH SECTORS RGBW+SHUT+DIM X4			Allows to select SECTORS RGBW+SHUT+DIM X4 mode (24 DMX channels).
NO DMX ACTION	KEEP LAST DMX			Allows to set the desired unit's behavior in case DMX signal is missing or not available. Keep last valid DMX signal (Default).
	BLACKOUT			Black-out
	PROGRAM 1 - 16	1 - 16		Chase with 16 steps previously created in REC mode. Speed time and wait time values (in seconds) selectable by user. Default = 10.
		SPEED	1 - 3600	
		WAIT	1 - 3600	
	RGB 100			RGB channels @ 100%.
	RGB 60			RGB channels @ 60%.

MAIN MENU	LEVEL 1	LEVEL 2	LEVEL 3	FUNCTION
	CUSTOM	RED	0 - 255	Custom. RGBW, RGBW Fine and Dimmer values selectable by user. Default = 128.
		RED FINE	0 - 255	Default = 128.
		GREEN	0 - 255	Default = 128.
		GREEN FINE	0 - 255	Default = 128.
		BLUE	0 - 255	Default = 128.
		BLUE FINE	0 - 255	Default = 128.
		WHITE	0 - 255	Default = 128.
		WHITE FINE	0 - 255	Default = 128.
		DIMMER	0 - 255	Default = 128.
		DIMMER FINE	0 - 255	Default = 128.
	CUSTOM2			Custom2. RGBW, RGBW Fine and Dimmer values selectable by user only via RDM.
	CUSTOM3			Custom3. RGBW, RGBW Fine and Dimmer values selectable by user only via RDM.
	CUSTOM4			Custom4. RGBW, RGBW Fine and Dimmer values selectable by user only via RDM.
MODE AUTO	PROGRAM 1 - 16	1 - 16		Automatic mode without DMX controller. Chase with 16 steps previously created in REC mode. Speed time and wait time values (in seconds) selectable by user (Default = 10). In Auto mode the unit do generate DMX for slave units.
		SPEED	1 - 3600	
		WAIT	1 - 3600	
	PERS. COLOUR	1 - 16		16 customizable Colour Macros. RGBW values selectable by user (Default = 255).
	RAINBOW	SPEED		Rainbow colours effect. Speed time value (in seconds) selectable by user (Default = 10).
	FIXED COLOUR	1 - 28		28 Colour Macros as on DMX channel "MACRO COLOR". Default = 1.
	CCT	2700 - 8000		12 White color temperature from 2700K to 8000K as on DMX channel "CCT". Default = 2700K.
	DIMMER	0 - 255		Dimmer level selectable by user as on DMX channel "DIMMER". Default = 255.
	SHUTTER	0 - 255		Shutter level selectable by user as on DMX channel "SHUTTER". Default = 15.
	ESC			Esc from automatic mode.
REC	10 CH	R001		In DMX Recorder mode it is possible to create and store the scenes of the PROGRAM 1-16 menu by using an external DMX controller. The unit must be set to 10 DMX channels mode. Refer to "REC MODE" for details.
		M001 - M016		

MAIN MENU	LEVEL 1	LEVEL 2	LEVEL 3	FUNCTION
SLAVE	SURE	SLAVE		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
WIRELESS Only for X BRICK Wireless and X BRICK PI Wireless	STATUS	DISABLED		Allows to control the unit via Wireless DMX. Default = Disabled.
		ENABLED		
	DIRECTION	RECEIVER		The unit receives signal via Wireless DMX and transmit the signal to the DMX Output connector (Default).
		TRANSMITTER		The unit works as Wireless DMX Transmitter. The unit receives signal from DMX Input connector and transmit the signal via Wireless.
	UNLINK			<u>Operation as Receiver:</u> To log off the unit from paired wireless transmitter device. <u>Operation as Transmitter:</u> To log off all the paired wireless receiver devices.
	LINK (ONLY FOR TRANSMITTER)			To log on all the free wireless receiver devices.

WIRELESS

X-BRICK features a built-in Lumen Radio Wireless DMX transmitter/receiver.

Operation as Receiver (default)

Enable Wireless DMX control under WIRELESS -> STATUS menu.

On the main display will appear "WIRELESS RX" (Default) above the DMX address.



To log on the unit to Lumen Radio or Wireless Solution compatible transmitter devices, press the connect button on the wireless transmitter device. To optimize the wireless communication, maintain TX to RX line of sight. The maximum distance should not exceed 100 meters.

Select UNLINK menu to log off the unit from paired wireless TX device.

Operation as Transmitter

Enable Wireless DMX control under WIRELESS -> STATUS menu.

Set the unit as Transmitter under DIRECTION -> TRANSMITTER menu.



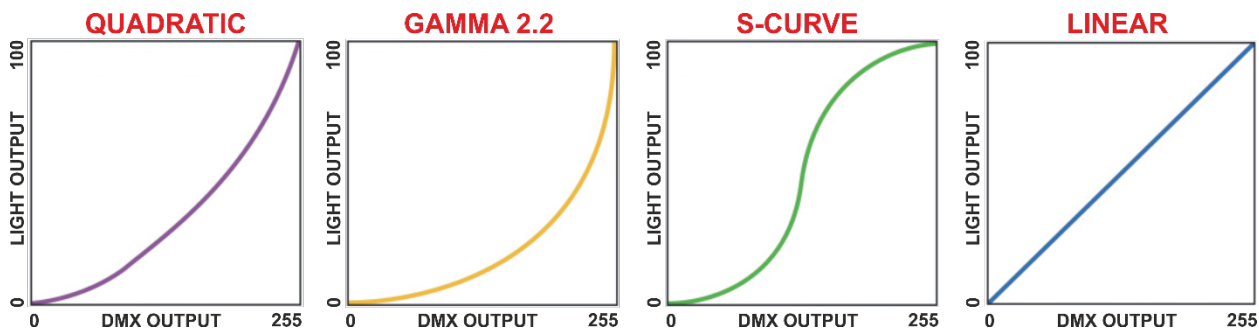
On the main display will appear "WIRELESS TX" above the DMX address. Connect the unit via DMX Input connector and pair the free wireless receiver devices by selecting LINK menu.

To optimize the wireless communication, maintain TX to RX line of sight. The maximum distance should not exceed 100 meters.

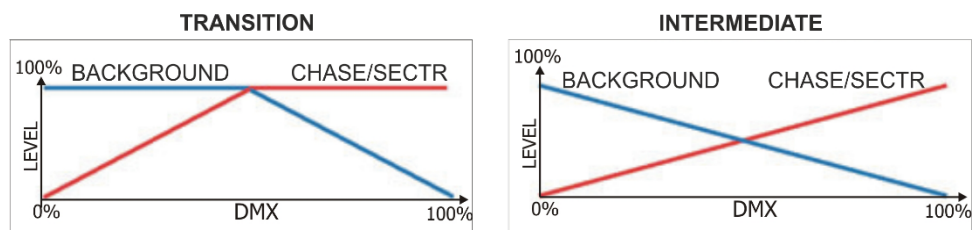
Select UNLINK menu to log off all the paired wireless receiver devices.

MAIN MENU	LEVEL 1	LEVEL 2	LEVEL 3	FUNCTION
LED	SMOOTH	OFF - 20		Allows to select the value of delay (in ms) for DIMMER channel reaction to DMX dimming command. OFF = Instant response. 4 = 100 ms smooth response (Default). 20 = 500 ms smooth response.
	GAMMA CORR.	QUADRATIC		Allows to set quadratic current output for LED (Default).
		GAMMA 2.2		Allows to set gamma curve 2.2
		S-CURVE		Allows to set S-curve to emulates light intensity characteristics of the tungsten halogen lamps.
		LINEAR		Allows to set linear light output.
	SYNC	610 - 5000 Hz		Allows to adjust the PWM frequency value (Hz) in order to reduce flickering in the process of your camera recordings. Range = 610 Hz – 5000 Hz Default = 1000 Hz
	BKG-CHS CROSSFADE	TRANSITION		Allows to set Crossfade Transition from background to chase/sector of DMX modes 2 and 3. (Default).
		INTERMEDIATE		Allows to set Crossfade Intermediate from background to chase/sector of DMX modes 2 and 3.
	LED PIXEL INVERT	NORMAL		Standard pixel/sectors sequence. Normal = Default.
		REVERSE		To invert pixel/sectors sequence.

“GAMMA CORR.” graphics:



“CROSSFADE” graphics:



MAIN MENU	LEVEL 1	LEVEL 2	LEVEL 3	FUNCTION
FAN	STANDARD			Fans standard speed (Default). If temperature <15°C: fans OFF. If temperature >15°C: fans speed is increased within the factory values range.
	SILENT			Reduced fans speed for a low noise operation. If temperature <15°C: fans OFF. If temperature >15°C: fans speed is increased within the factory values range.
	ULTRA SILENT			Low fans speed for a very low noise operation. If temperature <15°C: fans OFF. If temperature >15°C: fans speed is increased within the factory values range.
	AUTO			Automatic fans speed. If temperature <40°C: fans OFF. If temperature >40°C: fans speed is increased related to system working conditions.
DEFAULT SET	SURE			To restore factory settings.
SYSTEM INFO	TEMPERATURE	DRV1 41.4 40.8 DRV2 40.5 41.0 LED 48.2 PSU 43.4 MICRO 1 46.6 MICRO 2 45.5		DRV-1: LED Driver Master board temperature monitoring. DRV-2: LED Driver Slave board temperature monitoring. LED: LED temperature monitoring. PSU: Power supply temperature monitoring. MICRO 1: Micro controller of LED Driver Master board temperature monitoring. MICRO 2: Micro controller of LED Driver Slave board temperature monitoring.
	SOFTWARE	MASTER DRV1 V.1.00 SLAVE DRV2 V.1.00		LED Driver Master and Slave board firmware release.*
	TIME COUNTERS	S1 (R G B W) S2 (R G B W) S3 (R G B W) S4 (R G B W) UNIT LIFE		RGBW LEDs life time for each sector and unit life time.
	LEDS STATUS	S1 (R G B W) S2 (R G B W) S3 (R G B W) S4 (R G B W)		RGBW LEDs status monitoring for each sector: NA = Not available. OK = LEDs properly working. SH = LEDs in short circuit. OP = LEDs in open circuit.

5 REC Mode

For the programming of “ChPr” through a DMX controller, you will need three DMX channels available in addition to those already occupied by the selected DMX personality

e.g., if using “Standard (10 ch)” mode, a total of thirteen DMX channels will be needed for programming.

CH	NAME	DMX LEVELS	
1 - 10			See DMX personality “10 channels” for further information.
11	SCENES	0-10	No Function (r001)
		11-255	Display of pre-programmed scenes (max. 16 scenes from M001 to M016)
12	EDIT	0-19	No Function
		20-234	The unit runs the configuration given by the received input DMX values. With the channel SCENES it is possible to scroll through scenes, while with RECORDING it is possible to store the selected scene.
		235-255	The unit runs the configuration given by the received input DMX values closing the sequence as last scene. With the channel RECORDING it is possible to record the selected scene as last scene
13	RECORDING		Stores the set scene with a variation between 0 and 255 (the display flashes indicating that the scene has been recorded). It is advised that you keep the RECORDING channel set to 0 and to run through 255 only once you have decided to store the scene. If ChPr is not closed, by indicating the last scene (“EDIT” channel, DMX 235 to 255) in playback mode, all 16 scenes will be played through even if not programmed.

6 Error Messages

ERROR SHOWN ON DISPLAY	APPEARS WHEN
LED SENSOR ERROR	LED thermal sensor damaged (open or in short circuit). Unit immediately goes in black-out.
LED OVERTEMP	LED temperature detected over 100°C. Unit immediately goes in black-out.
DRV1 MICRO SENSOR ERROR	Micro controller thermal sensor on LED Driver Master board damaged (open or in short circuit). Unit immediately goes in black-out.
DRV1 MICRO OVERTEMP	Temperature of Micro controller on LED Driver Master board detected over 100°C. Unit immediately goes in black-out.
DRV2 MICRO SENSOR ERROR	Micro controller thermal sensor on LED Driver Slave board damaged (open or in short circuit). Unit immediately goes in black-out.
DRV2 MICRO OVERTEMP	Temperature of Micro controller on LED Driver Slave board detected over 100°C. Unit immediately goes in black-out.
DRV1 NTC1 SENSOR ERROR	Thermal sensor on outputs 6 and 7 of LED Driver Master board damaged (open or in short circuit). Unit immediately goes in black-out.
DRV1 NTC1 OVERTEMP	Temperature detected over 100°C on outputs 6 and 7 of LED Driver Master board. Unit immediately goes in black-out.
DRV1 NTC3 SENSOR ERROR	Thermal sensor on outputs 2 and 3 of LED Driver Master board damaged (open or in short circuit). Unit immediately goes in black-out.
DRV1 NTC3 OVERTEMP	Temperature detected over 100°C on outputs 2 and 3 of LED Driver Master board. Unit immediately goes in black-out.
DRV2 NTC1 SENSOR ERROR	Thermal sensor on outputs 6 and 7 of LED Driver Slave board damaged (open or in short circuit). Unit immediately goes in black-out.
DRV2 NTC1 OVERTEMP	Temperature detected over 100°C on outputs 6 and 7 of LED Driver Slave board. Unit immediately goes in black-out.

ERROR SHOWN ON DISPLAY	APPEARS WHEN
DRV2 NTC3 SENSOR ERROR	Thermal sensor on outputs 2 and 3 of LED Driver Slave board damaged (open or in short circuit). Unit immediately goes in black-out.
DRV2 NTC3 OVERTEMP	Temperature detected over 100°C on outputs 2 and 3 of LED Driver Slave board. Unit immediately goes in black-out.
PSU SENSOR ERROR	PSU thermal sensor damaged (open or in short circuit). Unit immediately goes in black-out.
PSU OVERTEMP	PSU temperature detected over 100°C. Unit immediately goes in black-out.
DRV2 COMMUNICATION ERROR	Communication problem between LED Driver Master board and LED Driver Slave board.*
DRV1 LOW SUPPLY VOLTAGE	LED Driver Master board input voltage <36Vdc.
DRV1 HIGH SUPPLY VOLTAGE	LED Driver Master board input voltage >50Vdc.
DRV2 LOW SUPPLY VOLTAGE	LED Driver Slave board input voltage <36Vdc.
DRV2 HIGH SUPPLY VOLTAGE	LED Driver Slave board input voltage >50Vdc.

7 DMX Protocol

7.1 DMX Personality 1

DMX Personality 1: “STANDARD” mode (10 DMX channels)

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

1	RED
DMX value	Function
000-255	Proportional color from min to max

2	GREEN
DMX value	Function
000-255	Proportional color from min to max

3	BLUE
DMX value	Function
000-255	Proportional color from min to max

4	WHITE
DMX value	Function
000-255	Proportional color from min to max

5	SHUTTER
DMX value	Function
000-009	Black Out
010-019	Open
020-029	Black Out
030-119	Strobe (from 3,27s to 30ms)
120-149	Pulse up (from 42,6s to 120ms)
150-179	Pulse down (from 42,6s to 120ms)
180-204	Random strobe
205-229	Full independent random strobe
230-255	Open

6	DIMMER
DMX value	Function
000-255	Proportional master dimmer From Off (lev. 0) to Full On (lev. 255)

7	DIMMER FINE
DMX value	Function
000-255	Proportional master dimmer fine From Off (lev. 0) to Full On (lev. 255)

8	CCT
DMX value	Function
000-010	No Function
011-255	Correlated colour temperature from 2700K to 8000K. Relevant CCT values:

8	CCT
DMX value	Function
	11: 2700K 33: 3000K 55: 3200K 77: 3500K 99: 4000K 121: 4500K 143: 5000K 165: 5600K 187: 6000K 209: 6500K 232: 7000K 255: 8000K

9	MACRO COLOR
DMX value	Function
000-014	No Function
015-024	COL 1: LEE FILTER NO. 19 "FIRE" (R255 G64 B0 W0)
025-034	COL 2: LEE FILTER NO. 20 "MEDIUM AMBER" (R255 G146 B0 W0)
035-044	COL 3: LEE FILTER NO. 25 "SUNSET RED" (R255 G111 B23 W0)
045-054	COL 4: LEE FILTER NO. 101 "YELLOW" (R255 G186 B0 W0)
055-064	COL 5: LEE FILTER NO. 104 "DEEP AMBER" (R255 G182 B0 W0)
065-074	COL 6: LEE FILTER NO. 106 "PRIMARY RED" (R255 G0 B0 W0)
075-084	COL 7: LEE FILTER NO. 111 "DARK PINK" (R255 G0 B0 W157)
085-094	COL 8: LEE FILTER NO. 113 "MAGENTA" (R255 G28 B28 W45)
095-104	COL 9: LEE FILTER NO. 118 "LIGHT BLUE" (R0 G252 B115 W101)
105-114	COL 10: LEE FILTER NO. 122 "FERN GREEN" (R171 G255 B0 W70)
115-124	COL 11: LEE FILTER NO. 126 "MAUVE" (R255 G0 B118 W0)
125-134	COL 12: LEE FILTER NO. 137 "LAVANDER" (R243 G224 B112 W97)
135-144	COL 13: LEE FILTER NO. 139 "PRIMARY GREEN" (R87 G255 B0 W0)
145-154	COL 14: LEE FILTER NO. 147 "APRICOT" (R204 G127 B23 W42)
155-164	COL 15: LEE FILTER NO. 154 "PALE ROSE" (R255 G167 B0 W139)
165-174	COL 16: LEE FILTER NO. 181 "CONGO BLUE" (R94 G107 B255 W0)
175-184	RGB RAINBOW COLOR MIXING: SPEED 1 (6 SEC.)
185-194	RGB RAINBOW COLOR MIXING: SPEED 2 (15 SEC.)
195-204	RGB RAINBOW COLOR MIXING: SPEED 3 (30 SEC.)
205-214	RGB RAINBOW COLOR MIXING: SPEED 4 (45 SEC.)
215-224	RGB RAINBOW COLOR MIXING: SPEED 5 (60 SEC.)
225-234	RGB RAINBOW COLOR MIXING: SPEED 6 (120 SEC.)
235-244	RGB RAINBOW COLOR MIXING: SPEED 7 (150 SEC.)
245-255	RGB RAINBOW COLOR MIXING: SPEED 8 (180 SEC.)

10	FUNCTIONS (Activated by staying on desired option for 5 seconds)
DMX value	Function
000-014	No Function
015-024	1 - SMOOTH OFF
025-026	2 - SMOOTH 1
027-028	3 - SMOOTH 2
029-030	4 - SMOOTH 3
031-032	5 - SMOOTH 4 (DEFAULT)
033-034	6 - SMOOTH 5
035-036	7 - SMOOTH 6
037-038	8 - SMOOTH 7
039-040	9 - SMOOTH 8
041-042	10 - SMOOTH 9
043-044	11 - SMOOTH 10
045-046	12 - SMOOTH 11
047-048	13 - SMOOTH 12
049-050	14 - SMOOTH 13
051-052	15 - SMOOTH 14
053-054	16 - SMOOTH 15
055-056	17 - SMOOTH 16
057-058	18 - SMOOTH 17
059-060	19 - SMOOTH 18
061-062	20 - SMOOTH 19
063-064	21 - SMOOTH 20
065-066	22 - GAMMA CORRECTION QUADRATIC (DEFAULT)
067-068	23 - GAMMA CORRECTION LINEAR
069-070	24 - GAMMA CORRECTION S-CURVE
071-072	25 - GAMMA CORRECTION 2.2
073-074	26 - RESERVED
075-076	27 - RESERVED
077-078	28 - RESERVED
079-080	29 - CROSSFADE CURVE INTERMEDIATE
081-082	30 - CROSSFADE CURVE TRANSITION (DEFAULT)
083-084	31 - RESERVED
085-104	32 - OUTPUT FREQUENCY 610 Hz
105	33 - OUTPUT FREQUENCY 800 Hz
106	34 - OUTPUT FREQUENCY 1000 Hz (DEFAULT)
107	35 - OUTPUT FREQUENCY 1500 Hz
108	36 - OUTPUT FREQUENCY 2000 Hz
109	37 - OUTPUT FREQUENCY 2500 Hz
110	38 - OUTPUT FREQUENCY 3000 Hz
111	39 - OUTPUT FREQUENCY 3500 Hz
112	40 - OUTPUT FREQUENCY 4000 Hz
113	41 - OUTPUT FREQUENCY 4500 Hz
114	42 - OUTPUT FREQUENCY 5000 Hz
115-134	43 - RESERVED
135-144	44 - RESERVED
145-154	45 - RESERVED
155-164	46 - DISPLAY STAND BY DISABLED (DEFAULT)
165-172	47 - DISPLAY STAND BY ENABLED
173-174	48 - DISPLAY STAND BY FORCED ENABLED
175-176	49 - NO DMX ACTION – KEEP LAST DMX (DEFAULT)
177-178	50 - NO DMX ACTION – BLACK OUT
179-180	51 - NO DMX ACTION – RGB@100% (WHITE CHANNEL OFF)
181-182	52 - NO DMX ACTION – CHPR (PROGRAM STEPS 01-16) WAIT and SPEED time selectable via “NDMX>PROGRAM 1-16” menu

10	FUNCTIONS (Activated by staying on desired option for 5 seconds)
DMX value	Function
183-184	53 - NO DMX ACTION – CUSTOM (RGBW values selectable via “NDMX>CUSTOM” menu or via RDM Custom PID)
185-194	54 - RESERVED
195-204	55 - RESERVED
205-214	56 - RESERVED
215-224	57 - RESERVED
225-228	58 - RESERVED
229-230	59 - RESERVED
231-232	60 - RESERVED
233-234	61 - RESERVED
235-242	62 - FAN STANDARD MODE (DEFAULT)
243-244	63 - FAN AUTO MODE
245-250	64 - FAN SILENT MODE
251-252	65 - FAN ULTRA SILENT MODE
253-255	66 - SET DEFAULTS FOR ALL FUNCTION CHANNEL PARAMETERS

7.2 DMX Personality 2

DMX Personality 2: “CHASE” mode (23 DMX channels) (Default)

1. RED BACKGROUND
2. GREEN BACKGROUND
3. BLUE BACKGROUND
4. WHITE BACKGROUND
5. SHUTTER
6. DIMMER
7. DIMMER FINE
8. CCT BACKGROUND
9. MACRO COLOR BACKGROUND
10. FUNCTIONS
11. BACKGROUND SELECTION
12. COLOR MERGING MODE
13. CROSSFADE BACKGROUND/CHASE
14. CHASE SELECTION
15. CHASE RED
16. CHASE GREEN
17. CHASE BLUE
18. CHASE WHITE
19. CHASE STROBE (Priority on SHUTTER channel)
20. CHASE SIZE/SPEED
21. CHASE X-FADE
22. CHASE OFFSET
23. CHASE FADE TIME

1	RED BACKGROUND
DMX value	Function
000-255	Proportional color from min to max

2	GREEN BACKGROUND
DMX value	Function
000-255	Proportional color from min to max

3	BLUE BACKGROUND
DMX value	Function
000-255	Proportional color from min to max

4	WHITE BACKGROUND
DMX value	Function
000-255	Proportional color from min to max

5	SHUTTER
DMX value	Function
000-009	Black Out
010-019	Open
020-029	Black Out
030-119	Strobe (from 3,27s to 30ms)
120-149	Pulse up (from 42,6s to 120ms)
150-179	Pulse down (from 42,6s to 120ms)
180-204	Random strobe
205-229	Full independent random strobe
230-255	Open

6	DIMMER
DMX value	Function
000-255	Proportional master dimmer From Off (lev. 0) to Full On (lev. 255)

7	DIMMER FINE
DMX value	Function
000-255	Proportional master dimmer fine From Off (lev. 0) to Full On (lev. 255)

8	CCT BACKGROUND
DMX value	Function
000-010	No Function
011-255	Correlated colour temperature from 2700K to 8000K. Relevant CCT values: 11: 2700K 33: 3000K 55: 3200K 77: 3500K 99: 4000K 121: 4500K 143: 5000K 165: 5600K 187: 6000K 209: 6500K 232: 7000K 255: 8000K

9	MACRO COLOR BACKGROUND
DMX value	Function
000-014	No Function
015-024	COL 1: LEE FILTER NO. 19 "FIRE" (R255 G64 B0 W0)
025-034	COL 2: LEE FILTER NO. 20 "MEDIUM AMBER" (R255 G146 B0 W0)
035-044	COL 3: LEE FILTER NO. 25 "SUNSET RED" (R255 G111 B23 W0)
045-054	COL 4: LEE FILTER NO. 101 "YELLOW" (R255 G186 B0 W0)
055-064	COL 5: LEE FILTER NO. 104 "DEEP AMBER" (R255 G182 B0 W0)
065-074	COL 6: LEE FILTER NO. 106 "PRIMARY RED" (R255 G0 B0 W0)
075-084	COL 7: LEE FILTER NO. 111 "DARK PINK" (R255 G0 B0 W157)
085-094	COL 8: LEE FILTER NO. 113 "MAGENTA" (R255 G28 B28 W45)
095-104	COL 9: LEE FILTER NO. 118 "LIGHT BLUE" (R0 G252 B115 W101)
105-114	COL 10: LEE FILTER NO. 122 "FERN GREEN" (R171 G255 B0 W70)
115-124	COL 11: LEE FILTER NO. 126 "MAUVE" (R255 G0 B118 W0)
125-134	COL 12: LEE FILTER NO. 137 "LAVANDER" (R243 G224 B112 W97)
135-144	COL 13: LEE FILTER NO. 139 "PRIMARY GREEN" (R87 G255 B0 W0)
145-154	COL 14: LEE FILTER NO. 147 "APRICOT" (R204 G127 B23 W42)
155-164	COL 15: LEE FILTER NO. 154 "PALE ROSE" (R255 G167 B0 W139)
165-174	COL 16: LEE FILTER NO. 181 "CONGO BLUE" (R94 G107 B255 W0)
175-184	RGB RAINBOW COLOR MIXING: SPEED 1 (6 SEC.)

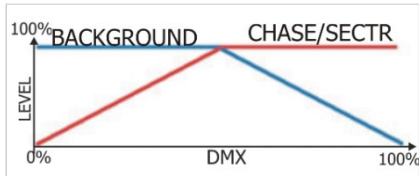
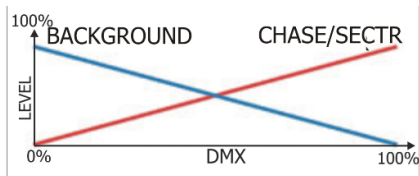
9	MACRO COLOR BACKGROUND
DMX value	Function
185-194	RGB RAINBOW COLOR MIXING: SPEED 2 (15 SEC.)
195-204	RGB RAINBOW COLOR MIXING: SPEED 3 (30 SEC.)
205-214	RGB RAINBOW COLOR MIXING: SPEED 4 (45 SEC.)
215-224	RGB RAINBOW COLOR MIXING: SPEED 5 (60 SEC.)
225-234	RGB RAINBOW COLOR MIXING: SPEED 6 (120 SEC.)
235-244	RGB RAINBOW COLOR MIXING: SPEED 7 (150 SEC.)
245-255	RGB RAINBOW COLOR MIXING: SPEED 8 (180 SEC.)

10	FUNCTIONS (Activated by staying on desired option for 5 seconds)
DMX value	Function
000-014	No Function
015-024	1 - SMOOTH OFF
025-026	2 - SMOOTH 1
027-028	3 - SMOOTH 2
029-030	4 - SMOOTH 3
031-032	5 - SMOOTH 4 (DEFAULT)
033-034	6 - SMOOTH 5
035-036	7 - SMOOTH 6
037-038	8 - SMOOTH 7
039-040	9 - SMOOTH 8
041-042	10 - SMOOTH 9
043-044	11 - SMOOTH 10
045-046	12 - SMOOTH 11
047-048	13 - SMOOTH 12
049-050	14 - SMOOTH 13
051-052	15 - SMOOTH 14
053-054	16 - SMOOTH 15
055-056	17 - SMOOTH 16
057-058	18 - SMOOTH 17
059-060	19 - SMOOTH 18
061-062	20 - SMOOTH 19
063-064	21 - SMOOTH 20
065-066	22 - GAMMA CORRECTION QUADRATIC (DEFAULT)
067-068	23 - GAMMA CORRECTION LINEAR
069-070	24 - GAMMA CORRECTION S-CURVE
071-072	25 - GAMMA CORRECTION 2.2
073-074	26 - RESERVED
075-076	27 - RESERVED
077-078	28 - RESERVED
079-080	29 - CROSSFADE CURVE INTERMEDIATE
081-082	30 - CROSSFADE CURVE TRANSITION (DEFAULT)
083-084	31 - RESERVED
085-104	32 - OUTPUT FREQUENCY 610 Hz
105	33 - OUTPUT FREQUENCY 800 Hz
106	34 - OUTPUT FREQUENCY 1000 Hz (DEFAULT)
107	35 - OUTPUT FREQUENCY 1500 Hz
108	36 - OUTPUT FREQUENCY 2000 Hz
109	37 - OUTPUT FREQUENCY 2500 Hz
110	38 - OUTPUT FREQUENCY 3000 Hz
111	39 - OUTPUT FREQUENCY 3500 Hz
112	40 - OUTPUT FREQUENCY 4000 Hz
113	41 - OUTPUT FREQUENCY 4500 Hz
114	42 - OUTPUT FREQUENCY 5000 Hz
115-134	43 - RESERVED
135-144	44 - RESERVED
145-154	45 - RESERVED

10	FUNCTIONS (Activated by staying on desired option for 5 seconds)
DMX value	Function
155-164	46 - DISPLAY STAND BY DISABLED (DEFAULT)
165-172	47 - DISPLAY STAND BY ENABLED
173-174	48 - DISPLAY STAND BY FORCED ENABLED
175-176	49 - NO DMX ACTION – KEEP LAST DMX (DEFAULT)
177-178	50 - NO DMX ACTION – BLACK OUT
179-180	51 - NO DMX ACTION – RGB@100% (WHITE CHANNEL OFF)
181-182	52 - NO DMX ACTION – CHPR (PROGRAM STEPS 01-16) WAIT and SPEED time selectable via “NDMX>PROGRAM 1-16” menu
183-184	53 - NO DMX ACTION – CUSTOM (RGBW values selectable via “NDMX>CUSTOM” menu or via RDM Custom PID)
185-194	54 - RESERVED
195-204	55 - RESERVED
205-214	56 - RESERVED
215-224	57 - RESERVED
225-228	58 - RESERVED
229-230	59 - RESERVED
231-232	60 - RESERVED
233-234	61 - RESERVED
235-242	62 - FAN STANDARD MODE (DEFAULT)
243-244	63 - FAN AUTO MODE
245-250	64 - FAN SILENT MODE
251-252	65 - FAN ULTRA SILENT MODE
253-255	66 - SET DEFAULTS FOR ALL FUNCTION CHANNEL PARAMETERS

11	BACKGROUND SELECTION
DMX value	Function
000-009	All Sectors Active
010-011	Sector 1
012-013	Sector 2
014-015	Sector 3
016-017	Sector 4
018-019	Sector 1+2
020-021	Sector 2+4
022-023	Sector 3+4
024-025	Sector 1+3
026-027	Sector 1+4
028-029	Sector 2+3
030-031	Sector 1+2+4
032-033	Sector 2+3+4
034-035	Sector 1+3+4
036-037	Sector 1+2+4
038-039	All Sectors Inactive
040-255	Reserved – no Function – (same as All Sectors Active)

12	COLOR MERGING MODE
DMX value	Function
000-009	TRANSPARENT MODE (foreground has priority, black opacity 0%)
010-019	STANDARD MODE (foreground has priority, black opacity 100%)
020-029	MAXIMUM MODE
030-039	MULTIPLY MODE
040-049	ADDITION MODE
050-059	SUBTRACTION MODE
060-069	INVERT SUBTRACTION MODE
070-162	FOREGROUND ONLY
163-255	BACKGROUND ONLY

13	CROSSFADE BACKGROUND/CHASE
DMX value	Function
000-255	CROSSFADE BETWEEN BACKGROUND AND CHASE TRANSITION (Default): 0= BACKGROUND @100% and Chase@0% 128= BACKGROUND @100% and Chase@100% 255= Chase@100% and BACKGROUND @0%  INTERMEDIATE: 0= BACKGROUND @100% and Chase@0% 128= BACKGROUND @50% and Chase@50% 255= Chase@100% and BACKGROUND @0% 

14	CHASE SELECTION
DMX value	Function
000-009	No Function – All Sectors Inactive
010-011	Sector 1
012-013	Sector 2
014-015	Sector 3
016-017	Sector 4
018-019	Sector 1+2
020-021	Sector 2+4
022-023	Sector 3+4
024-025	Sector 1+3
026-027	Sector 1+4
028.-029	Sector 2+3
030-031	Sector 1+2+4
032-033	Sector 2+3+4
034-035	Sector 1+3+4
036-037	Sector 1+2+3
038-039	All Sectors Active
040-171	Dynamic Macro Dimmers 1-66 – 2 steps for each Macro
172-233	Dynamic Macro Colors 1-31 – 2 steps for each Macro
234-240	RESERVED
241	Hystogram Left Z Speed is Number of LEDs “ON” from left up side First N LEDs on the left are on, depending on SPEED channel – Z shape
242	Hystogram Right Z Speed is Number of LEDs on from Right down side First N LEDs on the Right are on, depending on SPEED channel – Z shape
243	Hystogram Left C Speed is Number of LEDs “ON” from left up side First N LEDs on the left are on, depending on SPEED channel – C shape

14	CHASE SELECTION
DMX value	Function
244	Histogram Right C Speed is Number of LEDs on from Right down side First N LEDs on the Right are on, depending on SPEED channel – C shape
245	Histogram Multicolour Left Z Speed is Number of LEDs “ON” from left up side First N LEDs on the left are on with rainbow colours, depending on SIZE/SPD channel – Z shape
246	Histogram Multicolour Right Z Speed is Number of LEDs on from Right down side First N LEDs on the Right are on with rainbow colours, depending on SIZE/SPD channel – Z shape
247	Histogram Multicolour Left C Speed is Number of LEDs “ON” from left up side First N LEDs on the left are on with rainbow colours, depending on SIZE/SPD channel – C shape
248	Histogram Multicolour Right C Speed is Number of LEDs on from Right down side First N LEDs on the Right are on with rainbow colours, depending on SIZE/SPD channel – C shape
249	Wave Right Z A rainbow with size depending on COLOR channel scrolls to the right with speed dependent on SPEED channel – Z shape
250	Wave Left Z A rainbow with size depending on COLOR channel scrolls to the left with speed dependent on SPEED channel – Z shape
251	Wave Right C A rainbow with size depending on COLOR channel scrolls to the right with speed dependent on SPEED channel – C shape
252	Wave Left C A rainbow with size depending on COLOR channel scrolls to the left with speed dependent on SPEED channel – C shape
253	Pulse SPEED is Effect Speed. A strip of multicolour pixels grows and shrinks
254-255	Random Pick Every 15 s a new random effect is chosen from the above spacial effects (240-253) effects or Dynamic Macro Colors (272-233)

15	CHASE RED
DMX value	Function
000-255	Chase colour – RED component

16	CHASE GREEN
DMX value	Function
000-255	Chase colour – GREEN component

17	CHASE BLUE
DMX value	Function
000-255	Chase colour – BLUE component

18	CHASE WHITE
DMX value	Function
000-255	Chase colour – WHITE component

19	CHASE STROBE (priority on SHUTTER channel)
DMX value	Function
000-009	No Function : SUBJECT TO CHANNEL 5 SHUTTER (DEFAULT)
010-019	Open

19	CHASE STROBE (priority on SHUTTER channel)
DMX value	Function
020-029	Blackout
030-119	Strobe (from 3,27 s to 30 ms)
120-149	Pulse up (from 42,6 s to 120 ms)
150-179	Pulse down (from 42,6 s to 120 ms)
180-204	Random strobe
205-229	Reserved – No Function SUBJECT TO CHANNEL 5 SHUTTER
230-255	Open

20	CHASE SIZE/SPEED
DMX value	Function
000-127	Indexed 0°-360°
128-179	Left rotation fast to slow
180-202	Stop
203-255	Right rotation slow to fast

21	CHASE X-FADE
DMX value	Function
000-255	Transition between Steps of the same Chase from Snap/instant to Smooth. 0 = 0% Transition (Snap/instant Transition) 255 = 100% Transition (Smooth Transition)

22	CHASE OFFSET
DMX value	Function
000-255	Chase offset (0° to 360°) - phase shift or shape modifier

23	CHASE FADE TIME
DMX value	Function
000-255	Fade Time transition between two different Chases 0= no Fade – 1-255 Fade Time from Min (0s) to Max (4s)

7.3 DMX Personality 3

DMX Personality 3: “EXTENDED” mode (29 DMX channels)

1. RED BACKGROUND
2. GREEN BACKGROUND
3. BLUE BACKGROUND
4. WHITE BACKGROUND
5. SHUTTER
6. DIMMER
7. DIMMER FINE
8. CCT BACKGROUND
9. MACRO COLOR BACKGROUND
10. FUNCTIONS
11. BACKGROUND SELECTION
12. COLOR MERGING MODE
13. CROSSFADE BACKGROUND/CHASE
14. SECTOR 1 RED
15. SECTOR 1 GREEN
16. SECTOR 1 BLUE
17. SECTOR 1 WHITE
18. SECTOR 2 RED
19. SECTOR 2 GREEN
20. SECTOR 2 BLUE
21. SECTOR 2 WHITE
22. SECTOR 3 RED
23. SECTOR 3 GREEN
24. SECTOR 3 BLUE
25. SECTOR 3 WHITE
26. SECTOR 4 RED
27. SECTOR 4 GREEN
28. SECTOR 4 BLUE
29. SECTOR 4 WHITE

1	RED BACKGROUND
DMX value	Function
000-255	Proportional color from min to max

2	GREEN BACKGROUND
DMX value	Function
000-255	Proportional color from min to max

3	BLUE BACKGROUND
DMX value	Function
000-255	Proportional color from min to max

4	WHITE BACKGROUND
DMX value	Function
000-255	Proportional color from min to max

5	SHUTTER
DMX value	Function
000-009	Black Out
010-019	Open
020-029	Black Out
030-119	Strobe (from 3,27s to 30ms)
120-149	Pulse up (from 42,6s to 120ms)
150-179	Pulse down (from 42,6s to 120ms)
180-204	Random strobe
205-229	Full independent random strobe
230-255	Open

6	DIMMER
DMX value	Function
000-255	Proportional master dimmer From Off (lev. 0) to Full On (lev. 255)

7	DIMMER FINE
DMX value	Function
000-255	Proportional master dimmer fine From Off (lev. 0) to Full On (lev. 255)

8	CCT BACKGROUND
DMX value	Function
000-010	No Function
011-255	Correlated colour temperature from 2700K to 8000K. Relevant CCT values: • 11: 2700K • 33: 3000K • 55: 3200K • 77: 3500K • 99: 4000K • 121: 4500K • 143: 5000K • 165: 5600K • 187: 6000K • 209: 6500K • 232: 7000K • 255: 8000K

9	MACRO COLOR BACKGROUND
DMX value	Function
000-014	No Function
015-024	COL 1: LEE FILTER NO. 19 "FIRE" (R255 G64 B0 W0)
025-034	COL 2: LEE FILTER NO. 20 "MEDIUM AMBER" (R255 G146 B0 W0)
035-044	COL 3: LEE FILTER NO. 25 "SUNSET RED" (R255 G111 B23 W0)
045-054	COL 4: LEE FILTER NO. 101 "YELLOW" (R255 G186 B0 W0)
055-064	COL 5: LEE FILTER NO. 104 "DEEP AMBER" (R255 G182 B0 W0)
065-074	COL 6: LEE FILTER NO. 106 "PRIMARY RED" (R255 G0 B0 W0)
075-084	COL 7: LEE FILTER NO. 111 "DARK PINK" (R255 G0 B0 W157)
085-094	COL 8: LEE FILTER NO. 113 "MAGENTA" (R255 G28 B28 W45)
095-104	COL 9: LEE FILTER NO. 118 "LIGHT BLUE" (R0 G252 B115 W101)
105-114	COL 10: LEE FILTER NO. 122 "FERN GREEN" (R171 G255 B0 W70)
115-124	COL 11: LEE FILTER NO. 126 "MAUVE" (R255 G0 B118 W0)
125-134	COL 12: LEE FILTER NO. 137 "LAVANDER" (R243 G224 B112 W97)
135-144	COL 13: LEE FILTER NO. 139 "PRIMARY GREEN" (R87 G255 B0 W0)

9	MACRO COLOR BACKGROUND
DMX value	Function
145-154	COL 14: LEE FILTER NO. 147 "APRICOT" (R204 G127 B23 W42)
155-164	COL 15: LEE FILTER NO. 154 "PALE ROSE" (R255 G167 B0 W139)
165-174	COL 16: LEE FILTER NO. 181 "CONGO BLUE" (R94 G107 B255 W0)
175-184	RGB RAINBOW COLOR MIXING: SPEED 1 (6 SEC.)
185-194	RGB RAINBOW COLOR MIXING: SPEED 2 (15 SEC.)
195-204	RGB RAINBOW COLOR MIXING: SPEED 3 (30 SEC.)
205-214	RGB RAINBOW COLOR MIXING: SPEED 4 (45 SEC.)
215-224	RGB RAINBOW COLOR MIXING: SPEED 5 (60 SEC.)
225-234	RGB RAINBOW COLOR MIXING: SPEED 6 (120 SEC.)
235-244	RGB RAINBOW COLOR MIXING: SPEED 7 (150 SEC.)
245-255	RGB RAINBOW COLOR MIXING: SPEED 8 (180 SEC.)

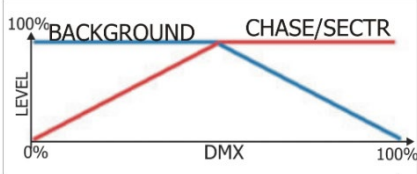
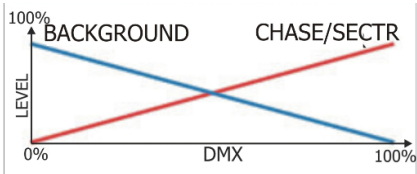
10	FUNCTIONS (Activated by staying on desired option for 5 seconds)
DMX value	Function
000-014	No Function
015-024	1 - SMOOTH OFF
025-026	2 - SMOOTH 1
027-028	3 - SMOOTH 2
029-030	4 - SMOOTH 3
031-032	5 - SMOOTH 4 (DEFAULT)
033-034	6 - SMOOTH 5
035-036	7 - SMOOTH 6
037-038	8 - SMOOTH 7
039-040	9 - SMOOTH 8
041-042	10 - SMOOTH 9
043-044	11 - SMOOTH 10
045-046	12 - SMOOTH 11
047-048	13 - SMOOTH 12
049-050	14 - SMOOTH 13
051-052	15 - SMOOTH 14
053-054	16 - SMOOTH 15
055-056	17 - SMOOTH 16
057-058	18 - SMOOTH 17
059-060	19 - SMOOTH 18
061-062	20 - SMOOTH 19
063-064	21 - SMOOTH 20
065-066	22 - GAMMA CORRECTION QUADRATIC (DEFAULT)
067-068	23 - GAMMA CORRECTION LINEAR
069-070	24 - GAMMA CORRECTION S-CURVE
071-072	25 - GAMMA CORRECTION 2.2
073-074	26 - RESERVED
075-076	27 - RESERVED
077-078	28 - RESERVED
079-080	29 - CROSSFADE CURVE INTERMEDIATE
081-082	30 - CROSSFADE CURVE TRANSITION (DEFAULT)
083-084	31 - RESERVED
085-104	32 - OUTPUT FREQUENCY 610 Hz
105	33 - OUTPUT FREQUENCY 800 Hz
106	34 - OUTPUT FREQUENCY 1000 Hz (DEFAULT)
107	35 - OUTPUT FREQUENCY 1500 Hz
108	36 - OUTPUT FREQUENCY 2000 Hz
109	37 - OUTPUT FREQUENCY 2500 Hz
110	38 - OUTPUT FREQUENCY 3000 Hz

10	FUNCTIONS (Activated by staying on desired option for 5 seconds)
DMX value	Function
111	39 - OUTPUT FREQUENCY 3500 Hz
112	40 - OUTPUT FREQUENCY 4000 Hz
113	41 - OUTPUT FREQUENCY 4500 Hz
114	42 - OUTPUT FREQUENCY 5000 Hz
115-134	43 - RESERVED
135-144	44 - RESERVED
145-154	45 - RESERVED
155-164	46 - DISPLAY STAND BY DISABLED (DEFAULT)
165-172	47 - DISPLAY STAND BY ENABLED
173-174	48 - DISPLAY STAND BY FORCED ENABLED
175-176	49 - NO DMX ACTION – KEEP LAST DMX (DEFAULT)
177-178	50 - NO DMX ACTION – BLACK OUT
179-180	51 - NO DMX ACTION – RGB@100% (WHITE CHANNEL OFF)
181-182	52 - NO DMX ACTION – CHPR (PROGRAM STEPS 01-16) WAIT and SPEED time selectable via “NDMX>PROGRAM 1-16” menu
183-184	53 - NO DMX ACTION – CUSTOM (RGBW values selectable via “NDMX>CUSTOM” menu or via RDM Custom PID)
185-194	54 - RESERVED
195-204	55 - RESERVED
205-214	56 - RESERVED
215-224	57 - RESERVED
225-228	58 - RESERVED
229-230	59 - RESERVED
231-232	60 - RESERVED
233-234	61 - RESERVED
235-242	62 - FAN STANDARD MODE (DEFAULT)
243-244	63 - FAN AUTO MODE
245-250	64 - FAN SILENT MODE
251-252	65 - FAN ULTRA SILENT MODE
253-255	66 - SET DEFAULTS FOR ALL FUNCTION CHANNEL PARAMETERS

11	BACKGROUND SELECTION
DMX value	Function
000-009	All Sectors Active
010-011	Sector 1
012-013	Sector 2
014-015	Sector 3
016-017	Sector 4
018-019	Sector 1+2
020-021	Sector 2+4
022-023	Sector 3+4
024-025	Sector 1+3
026-027	Sector 1+4
028-029	Sector 2+3
030-031	Sector 1+2+4
032-033	Sector 2+3+4
034-035	Sector 1+3+4
036-037	Sector 1+2+4
038-039	All Sectors Inactive
040-255	Reserved – no Function – (same as All Sectors Active)

12	COLOR MERGING MODE
DMX value	Function
000-009	TRANSPARENT MODE (foreground has priority, black opacity 0%)
010-019	STANDARD MODE (foreground has priority, black opacity 100%)

12	COLOR MERGING MODE
DMX value	Function
020-029	MAXIMUM MODE
030-039	MULTIPLY MODE
040-049	ADDITION MODE
050-059	SUBTRACTION MODE
060-069	INVERT SUBTRACTION MODE
070-162	FOREGROUND ONLY
163-255	BACKGROUND ONLY

13	CROSSFADE BACKGROUND/CHASE
DMX value	Function
000-255	CROSSFADE BETWEEN BACKGROUND AND CHASE TRANSITION (Default): 0= BACKGROUND @100% and Chase@0% 128= BACKGROUND @100% and Chase@100% 255= Chase@100% and BACKGROUND @0%  INTERMEDIATE: 0= BACKGROUND @100% and Chase@0% 128= BACKGROUND @50% and Chase@50% 255= Chase@100% and BACKGROUND @0% 

14	SECTOR 1 RED
DMX value	Function
000-255	Proportional RED From Off (lev. 0) to Full On (lev.255)

15	SECTOR 1 GREEN
DMX value	Function
000-255	Proportional GREEN From Off (lev. 0) to Full On (lev.255)

16	SECTOR 1 BLUE
DMX value	Function
000-255	Proportional BLUE From Off (lev. 0) to Full On (lev.255)

17	SECTOR 1 WHITE
DMX value	Function
000-255	Proportional WHITE From Off (lev. 0) to Full On (lev.255)

18	SECTOR 2 RED
DMX value	Function
000-255	Proportional RED From Off (lev. 0) to Full On (lev.255)
19	SECTOR 2 GREEN
DMX value	Function
000-255	Proportional GREEN From Off (lev. 0) to Full On (lev.255)
20	SECTOR 2 BLUE
DMX value	Function
000-255	Proportional BLUE From Off (lev. 0) to Full On (lev.255)
21	SECTOR 2 WHITE
DMX value	Function
000-255	Proportional WHITE From Off (lev. 0) to Full On (lev.255)
22	SECTOR 3 RED
DMX value	Function
000-255	Proportional RED From Off (lev. 0) to Full On (lev.255)
23	SECTOR 3 GREEN
DMX value	Function
000-255	Proportional GREEN From Off (lev. 0) to Full On (lev.255)
24	SECTOR 3 BLUE
DMX value	Function
000-255	Proportional BLUE From Off (lev. 0) to Full On (lev.255)
25	SECTOR 3 WHITE
DMX value	Function
000-255	Proportional WHITE From Off (lev. 0) to Full On (lev.255)
26	SECTOR 4 RED
DMX value	Function
000-255	Proportional RED From Off (lev. 0) to Full On (lev.255)
27	SECTOR 4 GREEN
DMX value	Function
000-255	Proportional GREEN From Off (lev. 0) to Full On (lev.255)
28	SECTOR 4 BLUE
DMX value	Function
000-255	Proportional BLUE From Off (lev. 0) to Full On (lev.255)
29	SECTOR 4 WHITE
DMX value	Function
000-255	Proportional WHITE From Off (lev. 0) to Full On (lev.255)

7.4 DMX Personality 4

DMX Personality 4: “GLOBAL RGBW” mode (4 DMX channels)

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

1	RED
DMX value	Function
000-255	Proportional color from min to max

2	GREEN
DMX value	Function
000-255	Proportional color from min to max

3	BLUE
DMX value	Function
000-255	Proportional color from min to max

4	WHITE
DMX value	Function
000-255	Proportional color from min to max

7.5 DMX Personality 5

DMX Personality 5: “GLOBAL RGBW+SHUT+DIM” mode (6 DMX channels)

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

1	RED
DMX value	Function
000-255	Proportional color from min to max

2	GREEN
DMX value	Function
000-255	Proportional color from min to max

3	BLUE
DMX value	Function
000-255	Proportional color from min to max

4	WHITE
DMX value	Function
000-255	Proportional color from min to max

5	SHUTTER
DMX value	Function
000-009	Black Out
010-019	Open
020-029	Black Out
030-119	Strobe (from 3,27s to 30ms)
120-149	Pulse up (from 42,6s to 120ms)
150-179	Pulse down (from 42,6s to 120ms)
180-204	Random strobe

5	SHUTTER
DMX value	Function
205-229	Full independent random strobe
230-255	Open

6	DIMMER
DMX value	Function
000-255	Proportional master dimmer From Off (lev. 0) to Full On (lev. 255)

7.6 DMX Personality 6

DMX Personality 6: “GLOBAL RGBW FINE+DIM FINE” mode (10 DMX 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

1	RED
DMX value	Function
000-255	Proportional RED From Off (lev. 0) to Full On (lev.255)

2	RED FINE
DMX value	Function
000-255	Proportional RED fine From Off (lev. 0) to Full On (lev.255)

3	GREEN
DMX value	Function
000-255	Proportional GREEN From Off (lev. 0) to Full On (lev.255)

4	GREEN FINE
DMX value	Function
000-255	Proportional GREEN fine From Off (lev. 0) to Full On (lev.255)

5	BLUE
DMX value	Function
000-255	Proportional BLUE From Off (lev. 0) to Full On (lev.255)

6	BLUE FINE
DMX value	Function
000-255	Proportional BLUE fine From Off (lev. 0) to Full On (lev.255)

7	WHITE
DMX value	Function
000-255	Proportional WHITE From Off (lev. 0) to Full On (lev.255)

8	WHITE FINE
DMX value	Function
000-255	Proportional WHITE fine From Off (lev. 0) to Full On (lev.255)

6	DIMMER
DMX value	Function
000-255	Proportional master dimmer From Off (lev. 0) to Full On (lev. 255)

7	DIMMER FINE
DMX value	Function
000-255	Proportional master dimmer fine From Off (lev. 0) to Full On (lev. 255)

7.7 DMX Personality 7

DMX Personality 7: “SECTOR RGBW” mode (16 DMX channels)

1. SECTOR 1 RED
2. SECTOR 1 GREEN
3. SECTOR 1 BLUE
4. SECTOR 1 WHITE
5. SECTOR 2 RED
6. SECTOR 2 GREEN
7. SECTOR 2 BLUE
8. SECTOR 2 WHITE
9. SECTOR 3 RED
10. SECTOR 3 GREEN
11. SECTOR 3 BLUE
12. SECTOR 3 WHITE
13. SECTOR 4 RED
14. SECTOR 4 GREEN
15. SECTOR 4 BLUE
16. SECTOR 4 WHITE

1	SECTOR 1 RED
DMX value	Function
000-255	Proportional RED From Off (lev. 0) to Full On (lev.255)

2	SECTOR 1 GREEN
DMX value	Function
000-255	Proportional GREEN From Off (lev. 0) to Full On (lev.255)

3	SECTOR 1 BLUE
DMX value	Function
000-255	Proportional BLUE From Off (lev. 0) to Full On (lev.255)

4	SECTOR 1 WHITE
DMX value	Function
000-255	Proportional WHITE From Off (lev. 0) to Full On (lev.255)

5	SECTOR 2 RED
DMX value	Function
000-255	Proportional RED From Off (lev. 0) to Full On (lev.255)

6	SECTOR 2 GREEN
DMX value	Function
000-255	Proportional GREEN From Off (lev. 0) to Full On (lev.255)
7	SECTOR 2 BLUE
DMX value	Function
000-255	Proportional BLUE From Off (lev. 0) to Full On (lev.255)
8	SECTOR 2 WHITE
DMX value	Function
000-255	Proportional WHITE From Off (lev. 0) to Full On (lev.255)
9	SECTOR 3 RED
DMX value	Function
000-255	Proportional RED From Off (lev. 0) to Full On (lev.255)
10	SECTOR 3 GREEN
DMX value	Function
000-255	Proportional GREEN From Off (lev. 0) to Full On (lev.255)
11	SECTOR 3 BLUE
DMX value	Function
000-255	Proportional BLUE From Off (lev. 0) to Full On (lev.255)
12	SECTOR 3 WHITE
DMX value	Function
000-255	Proportional WHITE From Off (lev. 0) to Full On (lev.255)
13	SECTOR 4 RED
DMX value	Function
000-255	Proportional RED From Off (lev. 0) to Full On (lev.255)
14	SECTOR 4 GREEN
DMX value	Function
000-255	Proportional GREEN From Off (lev. 0) to Full On (lev.255)
15	SECTOR 4 BLUE
DMX value	Function
000-255	Proportional BLUE From Off (lev. 0) to Full On (lev.255)
16	SECTOR 4 WHITE
DMX value	Function
000-255	Proportional WHITE From Off (lev. 0) to Full On (lev.255)

7.8 DMX Personality 8

DMX Personality 8: “SECTOR RGBW FINE” mode (32 DMX channels)

1. SECTOR 1 RED
2. SECTOR 1 RED FINE
3. SECTOR 1 GREEN
4. SECTOR 1 GREEN FINE
5. SECTOR 1 BLUE
6. SECTOR 1 BLUE FINE
7. SECTOR 1 WHITE
8. SECTOR 1 WHITE FINE
9. SECTOR 2 RED
10. SECTOR 2 RED FINE
11. SECTOR 2 GREEN
12. SECTOR 2 GREEN FINE
13. SECTOR 2 BLUE
14. SECTOR 2 BLUE FINE
15. SECTOR 2 WHITE
16. SECTOR 2 WHITE FINE
17. SECTOR 3 RED
18. SECTOR 3 RED FINE
19. SECTOR 3 GREEN
20. SECTOR 3 GREEN FINE
21. SECTOR 3 BLUE
22. SECTOR 3 BLUE FINE
23. SECTOR 3 WHITE
24. SECTOR 3 WHITE FINE
25. SECTOR 4 RED
26. SECTOR 4 RED FINE
27. SECTOR 4 GREEN
28. SECTOR 4 GREEN FINE
29. SECTOR 4 BLUE
30. SECTOR 4 BLUE FINE
31. SECTOR 4 WHITE
32. SECTOR 4 WHITE FINE

1	SECTOR 1 RED
DMX value	Function
000-255	Proportional RED From Off (lev. 0) to Full On (lev.255)

2	SECTOR 1 RED FINE
DMX value	Function
000-255	Proportional RED fine From Off (lev. 0) to Full On (lev.255)

3	SECTOR 1 GREEN
DMX value	Function
000-255	Proportional GREEN From Off (lev. 0) to Full On (lev.255)

4	SECTOR 1 GREEN FINE
DMX value	Function
000-255	Proportional GREEN fine From Off (lev. 0) to Full On (lev.255)

5	SECTOR 1 BLUE
DMX value	Function
000-255	Proportional BLUE From Off (lev. 0) to Full On (lev.255)

6	SECTOR 1 BLUE FINE
DMX value	Function
000-255	Proportional BLUE fine From Off (lev. 0) to Full On (lev.255)
7	SECTOR 1 WHITE
DMX value	Function
000-255	Proportional WHITE From Off (lev. 0) to Full On (lev.255)
8	SECTOR 1 WHITE FINE
DMX value	Function
000-255	Proportional WHITE fine From Off (lev. 0) to Full On (lev.255)
9	SECTOR 2 RED
DMX value	Function
000-255	Proportional RED From Off (lev. 0) to Full On (lev.255)
10	SECTOR 2 RED FINE
DMX value	Function
000-255	Proportional RED fine From Off (lev. 0) to Full On (lev.255)
11	SECTOR 2 GREEN
DMX value	Function
000-255	Proportional GREEN From Off (lev. 0) to Full On (lev.255)
12	SECTOR 2 GREEN FINE
DMX value	Function
000-255	Proportional GREEN fine From Off (lev. 0) to Full On (lev.255)
13	SECTOR 2 BLUE
DMX value	Function
000-255	Proportional BLUE From Off (lev. 0) to Full On (lev.255)
14	SECTOR 2 BLUE FINE
DMX value	Function
000-255	Proportional BLUE fine From Off (lev. 0) to Full On (lev.255)
15	SECTOR 2 WHITE
DMX value	Function
000-255	Proportional WHITE From Off (lev. 0) to Full On (lev.255)
16	SECTOR 2 WHITE FINE
DMX value	Function
000-255	Proportional WHITE fine From Off (lev. 0) to Full On (lev.255)
17	SECTOR 3 RED
DMX value	Function
000-255	Proportional RED From Off (lev. 0) to Full On (lev.255)

18	SECTOR 3 RED FINE
DMX value	Function
000-255	Proportional RED fine From Off (lev. 0) to Full On (lev.255)
19	SECTOR 3 GREEN
DMX value	Function
000-255	Proportional GREEN From Off (lev. 0) to Full On (lev.255)
20	SECTOR 3 GREEN FINE
DMX value	Function
000-255	Proportional GREEN fine From Off (lev. 0) to Full On (lev.255)
21	SECTOR 3 BLUE
DMX value	Function
000-255	Proportional BLUE From Off (lev. 0) to Full On (lev.255)
22	SECTOR 3 BLUE FINE
DMX value	Function
000-255	Proportional BLUE fine From Off (lev. 0) to Full On (lev.255)
23	SECTOR 3 WHITE
DMX value	Function
000-255	Proportional WHITE From Off (lev. 0) to Full On (lev.255)
24	SECTOR 3 WHITE FINE
DMX value	Function
000-255	Proportional WHITE fine From Off (lev. 0) to Full On (lev.255)
25	SECTOR 4 RED
DMX value	Function
000-255	Proportional RED From Off (lev. 0) to Full On (lev.255)
26	SECTOR 4 RED FINE
DMX value	Function
000-255	Proportional RED fine From Off (lev. 0) to Full On (lev.255)
27	SECTOR 4 GREEN
DMX value	Function
000-255	Proportional GREEN From Off (lev. 0) to Full On (lev.255)
28	SECTOR 4 GREEN FINE
DMX value	Function
000-255	Proportional GREEN fine From Off (lev. 0) to Full On (lev.255)
29	SECTOR 4 BLUE
DMX value	Function
000-255	Proportional BLUE From Off (lev. 0) to Full On (lev.255)

30	SECTOR 4 BLUE FINE
DMX value	Function
000-255	Proportional BLUE fine From Off (lev. 0) to Full On (lev.255)

31	SECTOR 4 WHITE
DMX value	Function
000-255	Proportional WHITE From Off (lev. 0) to Full On (lev.255)

32	SECTOR 4 WHITE FINE
DMX value	Function
000-255	Proportional WHITE fine From Off (lev. 0) to Full On (lev.255)

7.9 DMX Personality 9

DMX Personality 9: “SECTOR RGBW+SHUT+DIM X4” mode (24 DMX channels)

1. SECTOR 1 RED
2. SECTOR 1 GREEN
3. SECTOR 1 BLUE
4. SECTOR 1 WHITE
5. SECTOR 1 SHUTTER
6. SECTOR 1 DIMMER
7. SECTOR 2 RED
8. SECTOR 2 GREEN
9. SECTOR 2 BLUE
10. SECTOR 2 WHITE
11. SECTOR 2 SHUTTER
12. SECTOR 2 DIMMER
13. SECTOR 3 RED
14. SECTOR 3 GREEN
15. SECTOR 3 BLUE
16. SECTOR 3 WHITE
17. SECTOR 3 SHUTTER
18. SECTOR 3 DIMMER
19. SECTOR 4 RED
20. SECTOR 4 GREEN
21. SECTOR 4 BLUE
22. SECTOR 4 WHITE
23. SECTOR 4 SHUTTER
24. SECTOR 4 DIMMER

1	SECTOR 1 RED
DMX value	Function
000-255	Proportional RED From Off (lev. 0) to Full On (lev.255)

2	SECTOR 1 GREEN
DMX value	Function
000-255	Proportional GREEN From Off (lev. 0) to Full On (lev.255)

3	SECTOR 1 BLUE
DMX value	Function
000-255	Proportional BLUE From Off (lev. 0) to Full On (lev.255)

4	SECTOR 1 WHITE
DMX value	Function
000-255	Proportional WHITE From Off (lev. 0) to Full On (lev.255)

5	SECTOR 1 SHUTTER
DMX value	Function
000-009	Black Out
010-019	Open
020-029	Black Out
030-119	Strobe (from 3,27s to 30ms)
120-149	Pulse up (from 42,6s to 120ms)
150-179	Pulse down (from 42,6s to 120ms)
180-204	Random strobe
205-229	Full independent random strobe
230-255	Open

6	SECTOR 1 DIMMER
DMX value	Function
000-255	Proportional master dimmer From Off (lev. 0) to Full On (lev. 255)

7	SECTOR 2 RED
DMX value	Function
000-255	Proportional RED From Off (lev. 0) to Full On (lev.255)

8	SECTOR 2 GREEN
DMX value	Function
000-255	Proportional GREEN From Off (lev. 0) to Full On (lev.255)

9	SECTOR 2 BLUE
DMX value	Function
000-255	Proportional BLUE From Off (lev. 0) to Full On (lev.255)

10	SECTOR 2 WHITE
DMX value	Function
000-255	Proportional WHITE From Off (lev. 0) to Full On (lev.255)

11	SECTOR 2 SHUTTER
DMX value	Function
000-009	Black Out
010-019	Open
020-029	Black Out
030-119	Strobe (from 3,27s to 30ms)
120-149	Pulse up (from 42,6s to 120ms)
150-179	Pulse down (from 42,6s to 120ms)
180-204	Random strobe
205-229	Full independent random strobe
230-255	Open

12	SECTOR 2 DIMMER
DMX value	Function
000-255	Proportional master dimmer From Off (lev. 0) to Full On (lev. 255)

13	SECTOR 3 RED
DMX value	Function
000-255	Proportional RED From Off (lev. 0) to Full On (lev.255)
14	SECTOR 3 GREEN
DMX value	Function
000-255	Proportional GREEN From Off (lev. 0) to Full On (lev.255)
15	SECTOR 3 BLUE
DMX value	Function
000-255	Proportional BLUE From Off (lev. 0) to Full On (lev.255)
16	SECTOR 3 WHITE
DMX value	Function
000-255	Proportional WHITE From Off (lev. 0) to Full On (lev.255)
17	SECTOR 3 SHUTTER
DMX value	Function
000-009	Black Out
010-019	Open
020-029	Black Out
030-119	Strobe (from 3,27s to 30ms)
120-149	Pulse up (from 42,6s to 120ms)
150-179	Pulse down (from 42,6s to 120ms)
180-204	Random strobe
205-229	Full independent random strobe
230-255	Open
18	SECTOR 3 DIMMER
DMX value	Function
000-255	Proportional master dimmer From Off (lev. 0) to Full On (lev. 255)
19	SECTOR 4 RED
DMX value	Function
000-255	Proportional RED From Off (lev. 0) to Full On (lev.255)
20	SECTOR 4 GREEN
DMX value	Function
000-255	Proportional GREEN From Off (lev. 0) to Full On (lev.255)
21	SECTOR 4 BLUE
DMX value	Function
000-255	Proportional BLUE From Off (lev. 0) to Full On (lev.255)
22	SECTOR 4 WHITE
DMX value	Function
000-255	Proportional WHITE From Off (lev. 0) to Full On (lev.255)
23	SECTOR 4 SHUTTER
DMX value	Function
000-009	Black Out
010-019	Open

23	SECTOR 4 SHUTTER
DMX value	Function
020-029	Black Out
030-119	Strobe (from 3,27s to 30ms)
120-149	Pulse up (from 42,6s to 120ms)
150-179	Pulse down (from 42,6s to 120ms)
180-204	Random strobe
205-229	Full independent random strobe
230-255	Open

24	SECTOR 4 DIMMER
DMX value	Function
000-255	Proportional master dimmer From Off (lev. 0) to Full On (lev. 255)

NOTES

ISO 9001:2015

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



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