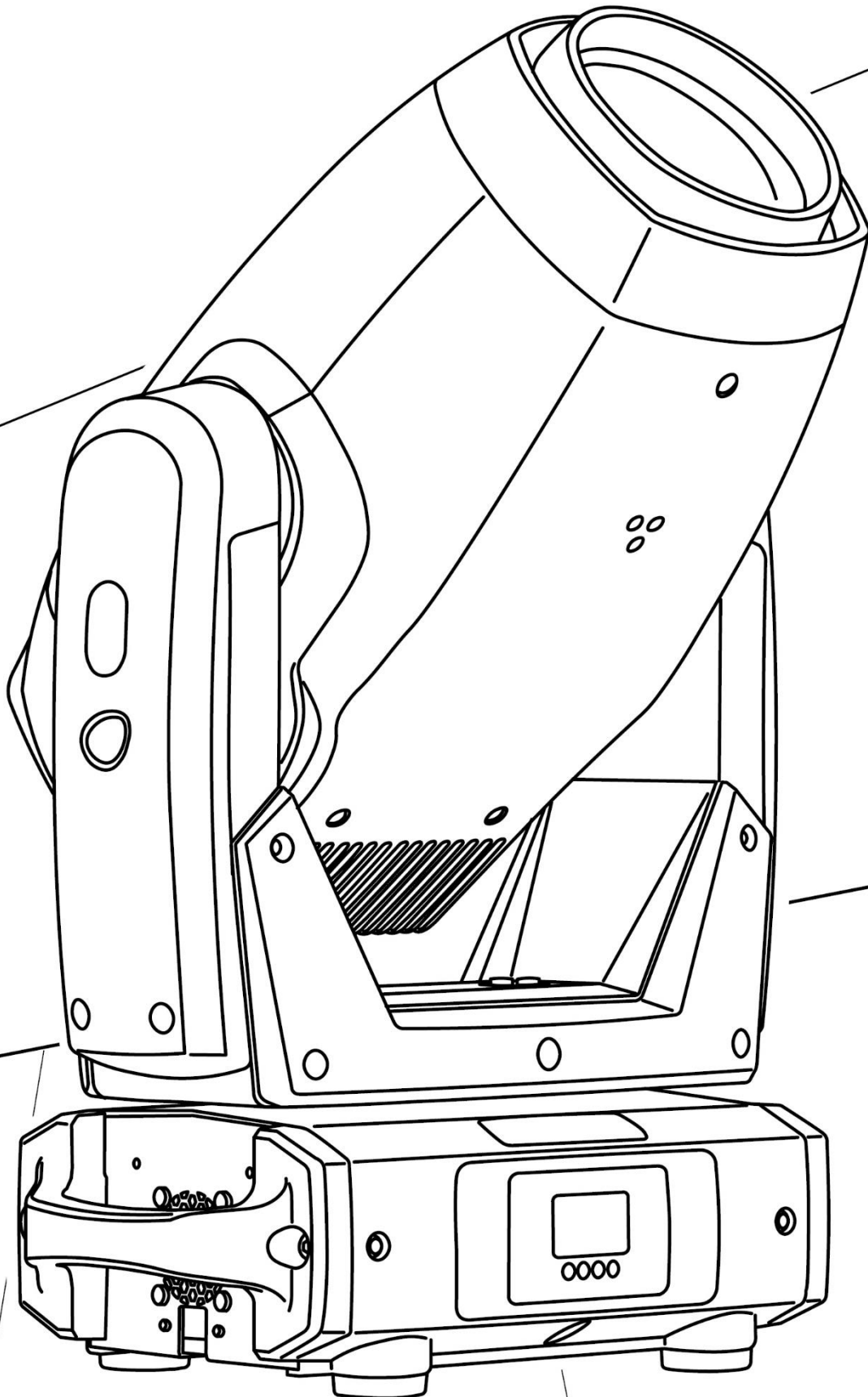


SYNERGY 6 PROFILE

RDM-DMX MANUAL





Release	1.00		For more information 
Language	EN		



Art-Net™ Designed by and Copyright Artistic Licence Holdings Ltd

All other trademarks, both marked and not marked, are the property of their respective owners.

ITA

Le informazioni contenute in questo documento sono state attentamente redatte e controllate. Tuttavia non è assunta alcuna responsabilità per eventuali inesattezze. Tutti i diritti sono riservati e questo documento non può essere copiato, fotocopiato, riprodotto per intero o in parte senza previo consenso scritto della D.T.S. Illuminazione.

D.T.S. Illuminazione si riserva il diritto di apportare senza preavviso cambiamenti e modifiche estetiche funzionali o di design a ciascun proprio prodotto. D.T.S. Illuminazione non assume alcuna responsabilità sull'uso o sull'applicazione dei prodotti o dei circuiti descritti.

ENG

The information contained in this publication has been carefully prepared and checked. However, no responsibility will be taken for any errors. All rights are reserved and this document cannot be copied, photocopied or reproduced, in part or completely, without prior written consent from D.T.S. Illuminazione

D.T.S. Illuminazione reserves the right to make any aesthetic, functional or design modifications to any of its products without prior notice. D.T.S. Illuminazione takes no responsibility for the use or application of the products or circuits described herein.

FRA

Les informations contenues dans le présent manuel ont été rédigées et contrôlées avec le plus grand soin. Nous déclinons toutefois toute responsabilité en cas d'éventuelles inexactitudes. Tous droits réservés. Ce document ne peut être copié, photocopié ou reproduit, dans sa totalité ou partiellement, sans le consentement préalable de D.T.S. Illuminazione.

D.T.S. Illuminazione se réserve le droit d'apporter toutes modifications et améliorations esthétiques, fonctionnelles ou de design, sans préavis, à chacun de ses produits. D.T.S. Illuminazione décline toute responsabilité sur l'utilisation ou sur l'application des produits ou des circuits décrits.

ESP

Las informaciones contenidas en este documento han sido cuidadosamente redactadas y controladas. Con todo, no se asume ninguna responsabilidad por eventuales inexactitudes. Todos los derechos han sido reservados y este documento no puede ser copiado, fotocopiado o reproducido, total o parcialmente, sin previa autorización escrita de D.T.S. Illuminazione.

D.T.S. Illuminazione se reserva el derecho a aportar sin previo aviso cambios y modificaciones de carácter estético, funcional o de diseño a cada producto suyo. D.T.S. Illuminazione no se asume responsabilidad de ningún tipo sobre la utilización o sobre la aplicación de los productos o de los circuitos descritos.

Table of Contents

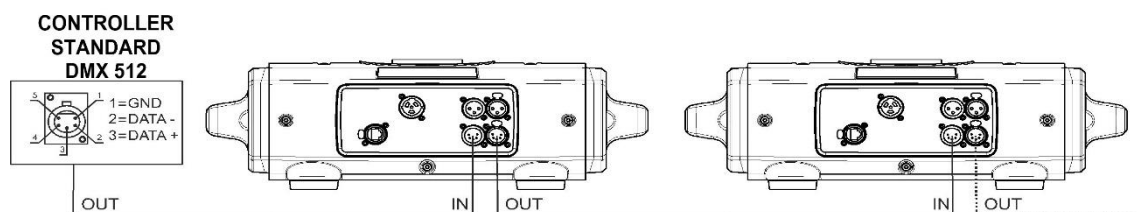
1	DMX Signal Connection	4
1.1	DMX Modes	5
1.2	Setting Up the DMX Address	5
2	Art-Net / sACN Signal Connection	5
2.1	Direct Ethernet Operation	5
2.2	Ethernet to RDM/DMX Operation	6
3	RDM Functions.....	7
4	Rotating Framing System.....	10
5	Display Functions	11
6	Error Messages	17
7	DMX Protocol	19
7.1	DMX Personality 1 - 44 CHANNELS MODE (DEFAULT)	19
7.2	DMX Personality 2 - 53 CHANNELS MODE.....	31
	NOTES	44

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, and a XLR 5 or 3 pins connector.
 - 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.

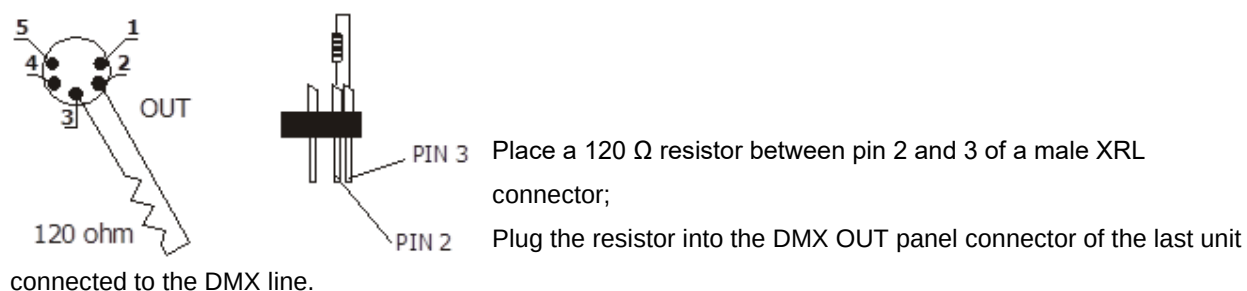
PS. If the display showing the DMX address flashes, then one of the following errors has occurred:

- DMX signal not present
- DMX reception problem



For installations where long-distance DMX cable connections are needed, 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.



1.1 DMX Modes

SYNERGY 6 PROFILE can be controlled with 44 DMX channels (Default) or 53 DMX channels.

e.g., when using the unit in 44 DMX channels mode (Default), set the following addresses on the light desk:

Projector 1	A001	
Projector 2	A045	<i>If you want to select the next projector, just add "44" to the former DMX address</i>
Projector 3	A089	
.....	A....	
projector 6	A221	

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 Art-Net / sACN Signal Connection

SYNERGY 6 PROFILE can be controlled through Art-Net / sACN signals.

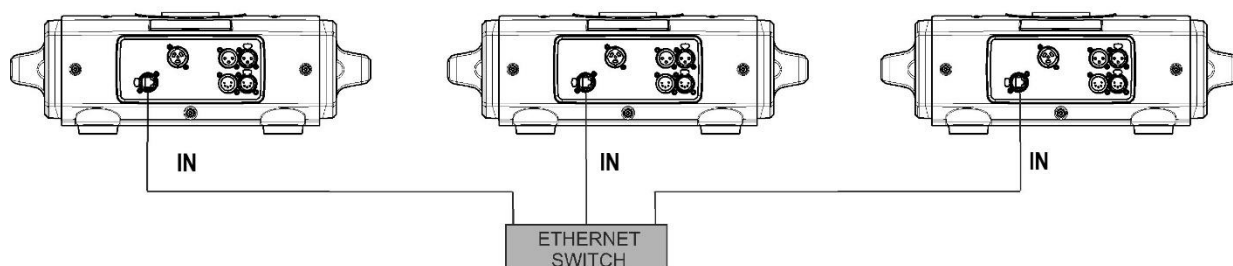
Connection between the light controller and the projector must be carried out using a category 5 network cable and a standard RJ45 connector.

2.1 Direct Ethernet Operation

For direct Ethernet operation, connect the light controller's Art-Net / s-ACN output signal via Ethernet switch to each unit's etherCON RJ45 IN connector.

For each unit, scroll to "NETWORK" menu (refer to the paragraph "Display Function" for further details):

- Inside the "INPUT" menu, select "Art-Net" or "sACN" as input control signal.
- Inside the "IP ADDRESS MODE" menu, select "Default" or "Static" mode.
- Inside the "ETH TO DMX" menu, select OFF.
- Set the IP address and Net Mask. IP address must be different for each unit on a network.
- Set the Art-Net or sACN Universe.

DMX address: 1
IP address: 002.214.192.007
Universe: 1
DMX address: 45
IP address: 002.214.192.008
Universe: 1
DMX address: 89
IP address: 002.214.192.009
Universe: 1


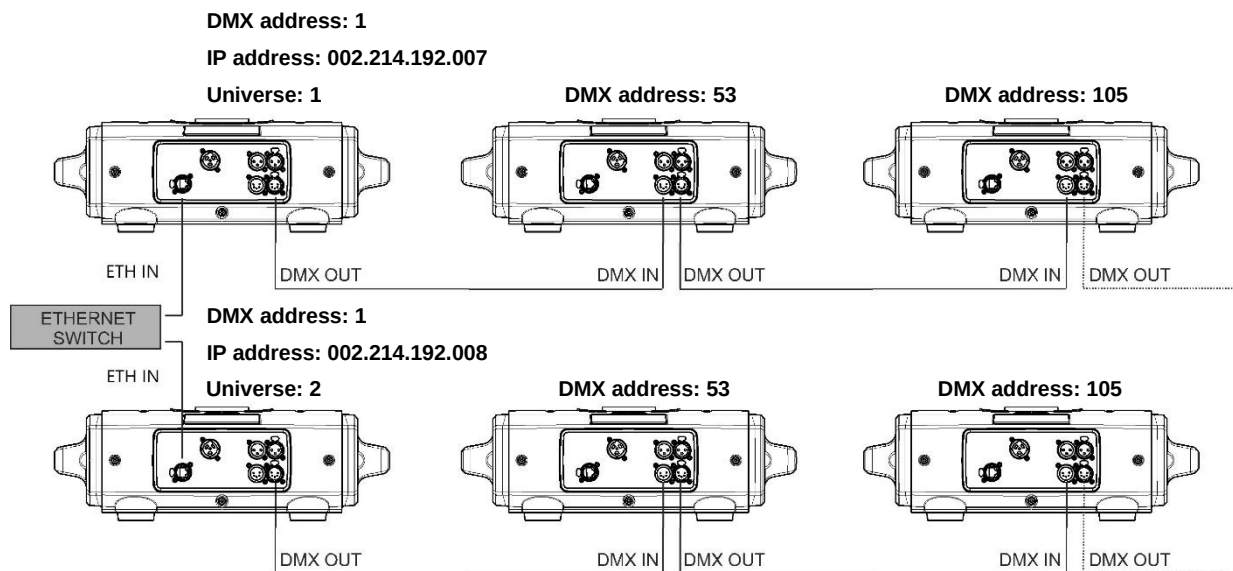
2.2 Ethernet to RDM/DMX Operation

For Ethernet to RDM/DMX operation, connect the light controller's Art-Net / s-ACN output signal via Ethernet switch to the etherCON RJ45 input connector of the first unit only.

In this configuration, the first unit works as an Ethernet-to-DMX converter and sends RDM/DMX signal to its DMX output connector. All the other units must be connected as a DMX chain with standard DMX settings.

Only for the first unit, scroll until reaching "NETWORK" menu (refer to DISPLAY FUNCTIONS for details):

- Inside the "INPUT" menu, select "Art-Net" or "sACN" as input control signal.
- Inside the "IP ADDRESS MODE" menu, select "Default" or "Static" mode.
- Inside the "ETH TO DMX" menu, select ON.
- Set the IP address and Net Mask. IP address must be different for each unit on a network.
- Set the Art-Net or sACN Universe.



For installations where long-distance DMX cable connections are needed, the use of a DMX terminator is recommended.

Please refer to page 16 for further information DMX terminators.

3 RDM Functions

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

SYNERGY 6 PROFILE accepts the following RDM commands:

RDM Device Model ID: 0x001D

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	
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 – Configuration			
PAN_INVERT	0x0600	X	X
TILT_INVERT	0x0601	X	X
Category – Control			
IDENTIFY_DEVICE	0x1000	X	X
Category – Dimmer Settings			
CURVE	0x0343	X	X
CURVE_DESCRIPTION	0x0344	X	
OUTPUT_RESPONSE_TIME	0x0345	X	X

RDM PID DESCRIPTION	RDM PID VALUE	GET	SET
OUTPUT_RESPONSE_TIME_DESCRIPTION	0x0346	X	
MODULATION_FREQUENCY	0x0347	X	X
MODULATION_FREQUENCY_DESCRIPTION	0x0348	X	
Category – Custom PID			
ETHERNET_TO_DMX	0x8000	X	X
INPUT_PRIORITY	0x8001	X	X
DISPLAY_STANDBY	0x8002	X	X

FURTHER RDM MESSAGES:

CURVE	CURVE DESCRIPTION
1	LINEAR
2	QUADRATIC (default)

OUTPUT RESPONSE TIME	OUTPUT_RESPONSE_TIME_DESCRIPTION
1	SMOOTH OFF
2	SMOOTH 1 (25 ms)
3	SMOOTH 2 (50 ms)
4	SMOOTH 3 (75 ms)
5	SMOOTH 4 (100 ms) (default)
6	SMOOTH 5 (125 ms)
7	SMOOTH 6 (150 ms)
8	SMOOTH 7 (175 ms)
9	SMOOTH 8 (200 ms)
10	SMOOTH 9 (225 ms)
11	SMOOTH 10 (250 ms)
12	SMOOTH 11 (275 ms)
13	SMOOTH 12 (300 ms)
14	SMOOTH 13 (325 ms)
15	SMOOTH 14 (350 ms)
16	SMOOTH 15 (375 ms)
17	SMOOTH 16 (400 ms)
18	SMOOTH 17 (425 ms)
19	SMOOTH 18 (450 ms)
20	SMOOTH 19 (475 ms)
21	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

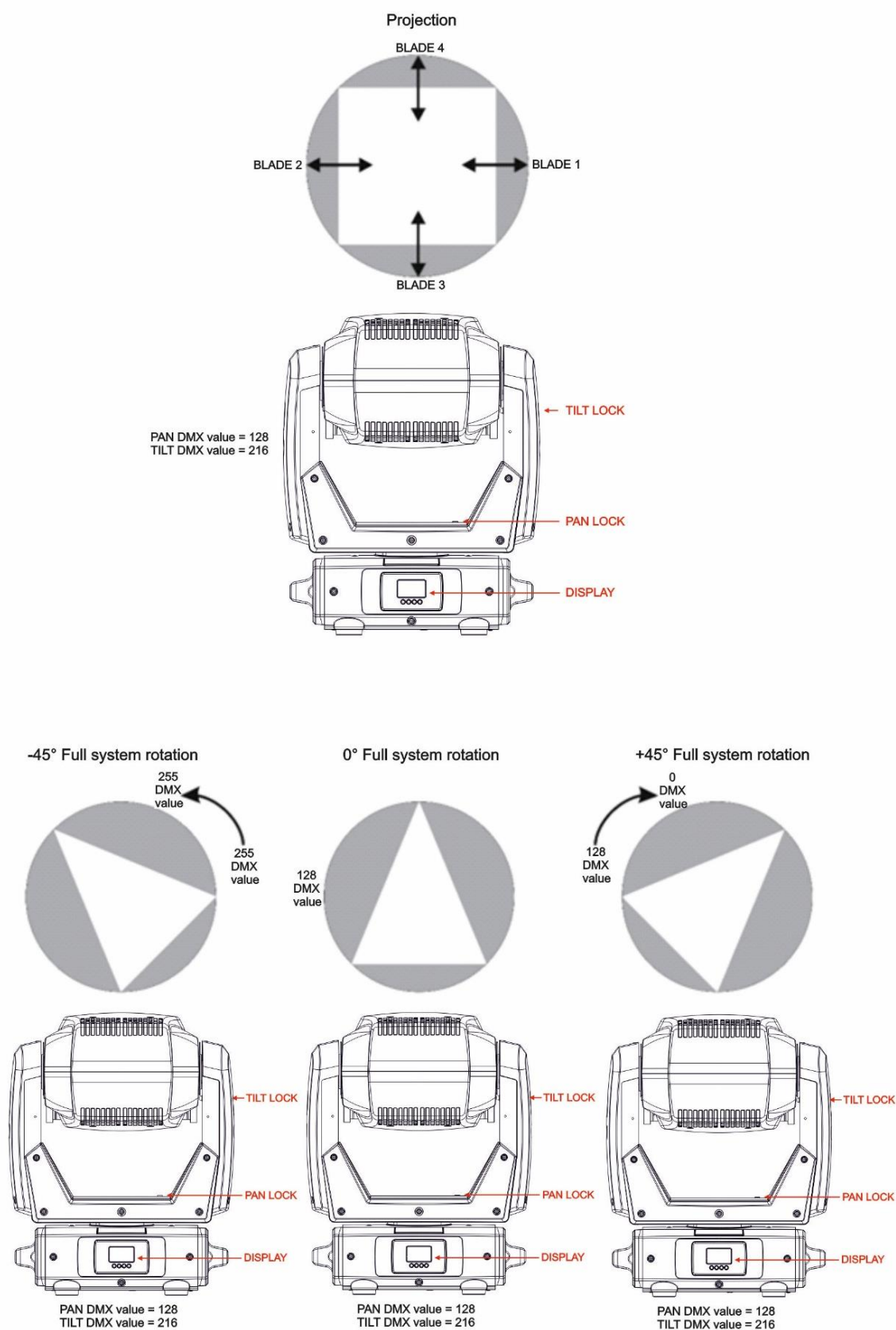
RDM MANUFACTURER'S SPECIFIC PIDs:

RDM CUSTOM PID	DESCRIPTION
0x8000_ETHERNET_TO_DMX	Set parameter NETWORK – ETH TO DMX 0 = OFF (default) 1 = ON
0x8001_INPUT_PRIORITY	Set parameter NETWORK – PRIORITY 0 = DMX PORT (default) 1 = ETHERNET PORT
0x8002_DISPLAY_STANDBY	Set parameter DISPLAY – STANDBY 0 = DISABLED 1 = ENABLED (default) 2 = FORCED ENABLED

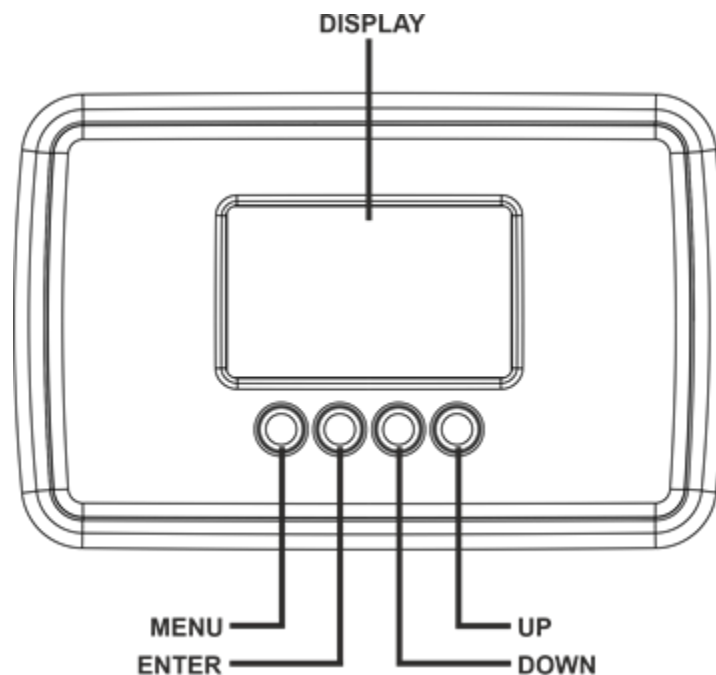
RDM STATUS MESSAGE IDs:

Status Message ID	Data Value 1	Data Value 2	Status ID Description
0x8000			ERROR PAN MOTOR/ENCODER
0x8001			ERROR PAN LOCKED
0x8002			ERROR PAN ZERO SENSOR
0x8003			ERROR TILT MOTOR/ENCODER
0x8004			ERROR TILT LOCKED
0x8005			ERROR TILT ZERO SENSOR
0x8006			ERROR DMX ADDRESS
0x8007			ERROR PARAMETERS MEMORY
0x8008			ERROR SUPPLY VOLTS TOO LOW
0x8009			ERROR SUPPLY VOLTS TOO HIGH
0x800A			ERROR BUS ARTNET CARD
0x800B			ERROR BUS LED DRIVER CARD
0x800C	card number		ERROR BUS MOTORS CARD %d
0x800E			ERROR CYAN
0x800F			ERROR MAGENTA
0x8010			ERROR YELLOW
0x8011			ERROR CTO
0x8012			ERROR FOCUS
0x8013			ERROR ZOOM
0x8014	wheel number		ERROR COLOUR WHEEL %d
0x8016			ERROR ROTATING GOBO WHEEL
0x8017			ERROR GOBO INDEX
0x801A			ERROR PROFILER INDEX
0x801C	prism number		ERROR PRISM %d
0x801D	prism number		ERROR PRISM %d INDEX
0x801E	card number	reset line number	ERROR CARD %d RESET LINE %d
0x801F			ERROR TEMPERATURE LED MODULE
0x8020	sensor number		ERROR TEMPERATURE LED DRIVER %d
0x8021			ERROR TEMPERATURE MICRO

4 Rotating Framing System



5 Display Functions



The SYNERGY 6 PROFILE 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.

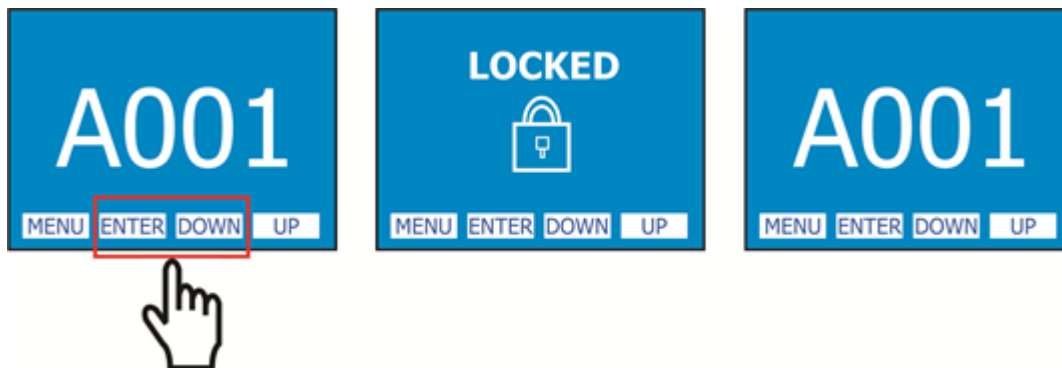
Beware that changing these settings may vary the operating functions of the unit so that it may not respond correctly to the signal given to it. Carefully read the instructions and tables below before carrying out any variations or selections.

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.

Motors Firmware Release	10
RDM Device Model ID	0x001D
DMX Personality IDs	0x01 "44 CHANNELS" 0x02 "53 CHANNELS"

“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
NETWORK	INPUT	DISABLED		Allows to disable Ethernet operation (Default).
		ARTNET		Allows to select Art-Net as input control signal protocol.
		SACN		Allows to select sACN as input control signal protocol.
	IP ADDR MODE	DEFAULT		Fixed IP address with manual setting of first byte only and fixed Net Mask (Default).
		STATIC		Static IP address and Net Mask.
	DEFAULT IP	IP 2.214.192. 7 MASK 255. 0. 0. 0		Fixed IP address and Net Mask. It is possible to set only first byte of the IP address. IP address must be different for each unit on a network.
	ARTNET UNIV.	00000 - 32767		Allows to set the Art-Net Universe (range 0÷32767).
	SACN UNIVERSE	00001 - 63999		Allows to set the sACN Universe (range 1÷63999).
	PRIORITY	DMX512		Allows to set the priority between input control signals when the unit is connected via DMX and via ETHERNET at the same time. RDM / DMX signal has the priority on the Art-Net / sACN signal (Default).
		ETHERNET		Art-Net / sACN signal has the priority on the DMX signal.
	ETH TO DMX	OFF		Allows to enable ETHERNET to RDM/DMX operation. Default = OFF.
		ON		In this configuration the first unit works as an Ethernet to DMX converter and sends RDM/DMX signal to its DMX output connector.
PAN DIRECTION	NO SIGNAL	KEEP LAST		Allows to set the desired unit's behavior in case Art-Net or sACN signal is missing or not available. Keep last valid Art-Net or sACN signal (Default).
		BLACKOUT		Black-out.
TILT DIRECTION	NORMAL			Allows to set the Pan movement. Default = Normal
	REVERSE			Allows to set the Tilt movement. Default = Normal

MAIN MENU	LEVEL 1	LEVEL 2	LEVEL 3	FUNCTION
SPEED	PAN	1 - 4		Pan Speed control. Default = 2
	TILT	1 - 4		Tilt Speed control. Default = 2
	ZOOM	1 - 4		Zoom Speed control. Default = 4
	BLADE	1 - 4		Blades Speed control. Default = 4 <i>WARNING! Speed value must not be set while blades are moving during programming.</i>
	CMY	1 - 4		CMY Speed control. Default = 4 <i>WARNING! Speed value must not be set while CMY filters are moving during programming.</i>
DISPLAY	FLIP	AUTO		Reverses display's reading depending on the mounting position. Automatic, on the ground or suspended. Default = AUTO
		ON THE GROUND		
		SUSPENDED		
	STANDBY	DISABLED		Display stand-by disabled.
		ENABLED		Display goes OFF after 5 seconds. (Default).
		FORCED ENABLED		Display forced OFF even if control signal is missing or error messages are shown.
	CONTRAST	20 - 35		Display contrast regulation (range 20 ÷ 35). Default = 25
DMX MODE	44 CHANNELS			Allows to select 44 DMX channels mode (Default).
	53 CHANNELS			Allows to select 53 DMX channels mode: -16 bit index for insertion and rotation of each blade. -16 bit index for blade system rotation.
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).
	PROGRAM 1 - 48	1 - 48 0.5x - 3x		48 pre-programmed steps. Speed time values (range 0.5x - 3x) selectable by user. Default = 1x
	SINGLE CUE	PAN MSB	0 - 255	Fixed cue with values selectable by user. Default = 128
		PAN LSB	0 - 255	Default = 000
		TILT MSB	0 - 255	Default = 128
		TILT LSB	0 - 255	Default = 000
		SPEED MOV.	0 - 255	Default = 0
		DIMMER MSB	0 - 255	Default = 255
		DIMMER LSB	0 - 255	Default = 255
		SHUTTER	0 - 255	Default = 15
		COLOUR	0 - 255	Default = 0
		COLOUR MODE	0 - 255	Default = 0
		CYAN	0 - 255	Default = 0
		MAGENTA	0 - 255	Default = 0
		YELLOW	0 - 255	Default = 0

MAIN MENU	LEVEL 1	LEVEL 2	LEVEL 3	FUNCTION
		CTO	0 - 255	Default = 0
		GEL FILTERS	0 - 255	Default = 0
		GOBO	0 - 255	Default = 0
		GOBO R-I MSB	0 - 255	Default = 0
		GOBO R-I LSB	0 - 255	Default = 0
		GOBO SHAKE	0 - 255	Default = 0
		BLADE SYS ROT	0 - 255	Default = 0
		BLADE 1 INS	0 - 255	Default = 0
		BLADE 1 ROT	0 - 255	Default = 128
		BLADE 2 INS	0 - 255	Default = 0
		BLADE 2 ROT	0 - 255	Default = 128
		BLADE 3 INS	0 - 255	Default = 0
		BLADE 3 ROT	0 - 255	Default = 128
NO DMX ACTION	SINGLE CUE	BLADE 4 INS	0 - 255	Default = 0
		BLADE 4 ROT	0 - 255	Default = 128
		BLADE EFFECTS	0 - 255	Default = 0
		DYNAMOVE M.	0 - 255	Default = 0
		MACRO SPEED	0 - 255	Default = 0
		PRISM MODE	0 - 255	Default = 0
		PRISM 1 POS	0 - 255	Default = 0
		PRISM 1 R-I	0 - 255	Default = 0
		PRISM 2 POS	0 - 255	Default = 0
		PRISM 2 R-I	0 - 255	Default = 0
		FROST	0 - 255	Default = 0
		FOCUS MSB	0 - 255	Default = 128
		FOCUS LSB	0 - 255	Default = 128
		ZOOM	0 - 255	Default = 128
		RESTORE DEFAULT		Set all Parameters to Default
	BLACKOUT			Black-out.
RESET BY DMX	ENABLED			Reset via DMX enabled (Default).
	DISABLED			Reset via DMX disabled.
	NOW			Instant unit motors reset.
FAN SETTING	STANDARD			STANDARD mode = High fans speed: The LED always works at maximum power. (Default)
	SILENT			SILENT mode = Low fans speed for a very low noise operation (85% Lumens output).
	AUTOMATIC			Automatic fans speed. If LED temperature <40°C: fans OFF. If LED temperature >40°C: fans speed is increased within the values as per FAN SETTING STANDARD.
GOBO ROTATION DURING GOBO SCROLLING	ENABLED			Allows to enable gobo rotation during gobo scrolling for rotating gobo wheel. Default = ENABLED
	DISABLED			
FOCUS	EXCURSION	STANDARD		Standard Focus range (Default).
		EXTENDED		Extended Focus range.
	AUTOFOCUS	DISABLED		Default = DISABLED.
		ENABLED		to have the best resolution it is suggested the first time you focus to set Zoom at DMX value 100 (DMX range 0-255) or 39%.

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.	QUAD 2.0		Allows to set quadratic current output for LED (Default).
		LINE		Allows to set linear light output.
	HYBRID DIMMING	DISABLED		Allows to enable Hybrid Dimming in order to totally remove flickering at any Dimmer level. Default = DISABLED
		ENABLED		
	FREQUENCY	610 - 5000 HZ		Allows to adjust the PWM frequency value (Hz) in order to reduce flickering in the process of camera recordings. Range = 610 Hz – 5 KHz Default = 1000 Hz
SYSTEM INFO	SOFTWARE	SYNERGY 6 PROFILE 24 OCT 2023 MOTOR: V.10 LED: V.1.00		Unit model, motors firmware release date, Motors and LED Driver PCBs firmware release.
	TEMPERATURES	LED:048°C DRV-1:049°C DRV-2:048°C MICRO: 043°C 10M: 042°C 5M-1: 045°C 5M-2: 045°C 5M-3: 045°C		LED: LED temperature monitoring. DRV-1: Out 1 and 2 of LED Driver PCB temperature monitoring. DRV-2: Out 4 and 5 of LED Driver PCB temperature monitoring. MICRO: Micro controller on LED Driver PCB temperature monitoring. 10M: 10 Motors PCB temperature monitoring. 5M-1: 5 Motors PCB 1 temperature monitoring. 5M-2: 5 Motors PCB 2 temperature monitoring. 5M-3: 5 Motors PCB 3 temperature monitoring.
	TIME COUNTERS	UNIT LIFE: 0516 hr LED LIFE: 0481 hr DRV LIFE: 0495 hr		Unit, LED module and LED Driver PCB life time.
	ADDRESSES	RDM:0710:000111A6 MAC:70:B3:D5:D7:C3:F6		RDM and MAC IDs.

*Refer to User Manual for Motors and LED Driver PCBs details

MAIN MENU	LEVEL 1	LEVEL 2	LEVEL 3	FUNCTION
RESERVED	ENTER CODE 0 – 255 (code 100)	PAN LOCK	NO	Lock the Pan to the desired value.
			YES	NO = Default.
		TILT LOCK	NO	Lock the Tilt to the desired value.
			YES	NO = Default.
		PAN FREE	NO	Remove power to Pan motor.
			YES	NO = Default.
		TILT FREE	NO	Remove power to Tilt motor.
			YES	NO = Default.
		LOCK DETECTOR	ON	Allows to activate the Lock detector on Pan and Tilt. If for any reason there is something blocking the movement for Pan&Tilt motors during the initial reset (example unit into the flight case and power connected), it automatically will stop to reset Pan&Tilt motors after 5 seconds from the startup and a warning message (Pan locked-Tilt locked) will appear on unit display.
			OFF	ON = Default.
DEFAULT	SURE?	REBOOT		Unit reboot without needing of turning OFF the unit.
		EXIT TO MAIN		Exit from Reserved menu.
		PRESS ENTER TO CONFIRM		To restore factory settings.
MANUAL CONTR. 44 CH DMX PERSONALITY	RESET	PRESS MENU TO CANCEL		Exit without restoring factory settings.
		HEAD MOTORS		To reset head motors only.
		PAN TILT		To reset Pan and Tilt only.
	RESTORE DEF.	ALL MOTORS		To reset all motors.
		YES/NO		To restore parameters default settings.
	PAN MSB	0 - 255		Manual mode with functions value selectable by user. Default = 128
	PAN LSB	0 - 255		Default = 0
	TILT MSB	0 - 255		Default = 128
	TILT LSB	0 - 255		Default = 0
	SPEED MOV.	0 - 255		Default = 0
	DIMMER MSB	0 - 255		Default = 255
	DIMMER LSB	0 - 255		Default = 255
	SHUTTER	0 - 255		Default = 15
	COLOUR	0 - 255		Default = 0
	COLOUR MODE	0 - 255		Default = 0
	CYAN	0 - 255		Default = 0
	MAGENTA	0 - 255		Default = 0
	YELLOW	0 - 255		Default = 0
	CTO	0 - 255		Default = 0
	GEL FILTERS	0 - 255		Default = 0
	GOBO	0 - 255		Default = 0
	GOBO R-I MSB	0 - 255		Default = 0
	GOBO R-I LSB	0 - 255		Default = 0
	GOBO SHAKE	0 - 255		Default = 0
	GOBO 2	0 - 255		Default = 0
	BLADE SYS ROT	0 - 255		Default = 0
	BLADE 1 INS	0 - 255		Default = 0
	BLADE 1 ROT	0 - 255		Default = 128
	BLADE 2 INS	0 - 255		Default = 0
	BLADE 2 ROT	0 - 255		Default = 128
	BLADE 3 INS	0 - 255		Default = 0

MAIN MENU	LEVEL 1	LEVEL 2	LEVEL 3	FUNCTION
	BLADE 3 ROT	0 - 255		Default = 128
	BLADE 4 INS	0 - 255		Default = 0
	BLADE 4 ROT	0 - 255		Default = 128
	BLADE EFFECTS	0 - 255		Default = 0
	DYNAMOVE M.	0 - 255		Default = 0
	MACRO SPEED	0 - 255		Default = 0
	PRISM MODE	0 - 255		Default = 0
	PRISM 1 POS	0 - 255		Default = 0
	PRISM 1 R-I	0 - 255		Default = 0
	PRISM 2 POS	0 - 255		Default = 0
	PRISM 2 R-I	0 - 255		Default = 0
	FROST	0 - 255		Default = 0
	FOCUS MSB	0 - 255		Default = 128
	FOCUS LSB	0 - 255		Default = 128
	ZOOM	0 - 255		Default = 128

6 Error Messages

ERROR SHOWN ON DISPLAY	APPEARS WHEN
PAN	-Pan motor fault -Pan encoder fault -Pan motor driver on Pan&Tilt PCB fault -Wiring connection between Pan encoder and Pan&Tilt PCB fault
PAN LOCKED	-Pan locked -Pan motor fault -Pan encoder fault -Pan motor driver on Pan&Tilt PCB fault -Wiring connection between Pan encoder and Pan&Tilt PCB fault
TILT	-Tilt motor fault -Tilt encoder fault -Tilt motor driver on Pan&Tilt PCB fault -Wiring connection between Tilt encoder and Pan&Tilt PCB fault
TILT LOCKED	-Tilt locked -Tilt motor fault -Tilt encoder fault -Tilt motor driver on Pan&Tilt PCB fault -Wiring connection between Tilt encoder and Pan&Tilt PCB fault
PAN ZERO SENSOR LINE	-Pan magnet missing -Pan hall sensor PCB fault -Wiring connection between Pan hall sensor PCB and Pan&Tilt PCB fault
TILT ZERO SENSOR LINE	-Tilt magnet missing -Tilt hall sensor PCB fault -Wiring connection between Tilt hall sensor PCB and Pan&Tilt PCB fault
TEMP. LED MOD.	LED module temperature detected under -20°C or over 100°C. Unit immediately goes in black-out.
TEMP. LED DRV1	LED Driver PCB temperature 1 (DRV1) detected under -20°C or over 100°C. Unit immediately goes in black-out.
TEMP. LED DRV2	LED Driver PCB temperature 2 (DRV2) detected under -20°C or over 100°C. Unit immediately goes in black-out.
TEMP. LED MICRO	Micro controller on LED Driver PCB temperature detected under -20°C or over 100°C. Unit immediately goes in black-out.
SUPPLY VOLTS TOO LOW	PCBs input voltage <46,5Vdc.
SUPPLY VOLTS TOO HIGH	PCBs input voltage >49,5Vdc.
BUS 10 MOTORS CARD 1	-Pan&Tilt PCB bus driver fault -10 Motors PCB (1)* bus driver fault -10 Motors PCB (1)* input voltage missing -Internal Bus wiring connection fault
BUS 5 MOTORS CARD 2	-Pan&Tilt PCB bus driver fault -5 Motors PCB (2)* bus driver fault -5 Motors PCB (2)* input voltage missing -Internal Bus wiring connection fault
BUS 5 MOTORS CARD 3	-Pan&Tilt PCB bus driver fault -5 Motors PCB (3)* bus driver fault -5 Motors PCB (3)* input voltage missing -Internal Bus wiring connection fault

ERROR SHOWN ON DISPLAY	APPEARS WHEN
BUS 5 MOTORS CARD 4	-Pan&Tilt PCB bus driver fault -5 Motors PCB (4)* bus driver fault -5 Motors PCB (4)* input voltage missing -Internal Bus wiring connection fault
BUS LED DRIVER	-Pan&Tilt PCB bus driver fault -LED Driver PCB bus driver fault -LED Driver PCB input voltage missing -Internal Bus wiring connection fault
BUS ARTNET	-Pan&Tilt PCB bus driver fault -Art-Net PCB bus driver fault -Art-Net PCB input voltage missing -Wiring connection between Art-Net PCB and Pan&Tilt PCB fault
CYAN OR CARD 1 - RESET LINE 1	-Cyan motor fault -Cyan motor driver on 10 Motors PCB (1)* fault -Cyan magnet missing -Cyan hall sensor PCB fault
MAGENTA OR CARD 1 - RESET LINE 1	-Magenta motor fault -Magenta motor driver on 10 Motors PCB (1)* fault -Magenta magnet missing -Magenta hall sensor PCB fault
YELLOW OR CARD 1 - RESET LINE 1	-Yellow motor fault -Yellow motor driver on 10 Motors PCB (1)* fault -Yellow magnet missing -Yellow hall sensor PCB fault
FOCUS OR CARD 1 - RESET LINE 3	-Focus motor fault -Focus motor driver on 10 Motors PCB (1)* fault -Focus magnet missing -Focus hall sensor PCB fault
ZOOM OR CARD 1 - RESET LINE 2	-Zoom motor fault -Zoom motor driver on 10 Motors PCB (1)* fault -Zoom magnet missing -Zoom hall sensor PCB fault
24F/6F PRISM OR CARD 1 - RESET LINE 5	-24 facet or 6 facet prism motor fault -24 facet or 6 facet prism motor driver on 10 Motors PCB (1)* fault -24 facet or 6 facet prism magnet missing -24 facet or 6 facet prism hall sensor PCB fault
24F/6F PRISM INDEX OR CARD 1 - RESET LINE 4	-24 facet or 6 facet prism index motor fault -24 facet or 6 facet prism index motor driver on 10 Motors PCB (1)* fault -24 facet or 6 facet prism index magnet missing -24 facet or 6 facet prism index hall sensor PCB fault
CTO OR CARD 2 - RESET LINE 1	-CTO motor fault -CTO motor driver on 5 Motors PCB (2)* fault -CTO magnet missing -CTO hall sensor PCB fault
COLOUR WHEEL OR CARD 2 - RESET LINE 4	-Colour wheel motor fault -Colour wheel motor driver on 5 Motors PCB (2)* fault -Colour wheel magnet missing -Colour wheel hall sensor PCB fault
GOBO / GOBO INDEX OR CARD 2 - RESET LINE 3	-Gobo 1 wheel/index motor fault -Gobo 1 wheel/index motor driver on 5 Motors PCB (2)* fault -Gobo 1 wheel/index magnet missing -Gobo 1 wheel/index hall sensor PCB fault
PROFILER INDEX OR CARD 3 - RESET LINE 1	-Profiler index motor fault -Profiler index motor driver on 5 Motors PCB (3)* fault -Profiler index magnet missing -Profiler index hall sensor PCB fault

* Refer to page 29 of the User's Manual for Motors and LED Driver PCBs details.

7 DMX Protocol

7.1 DMX Personality 1 - 44 CHANNELS MODE (DEFAULT)

1	PAN msb
2	PAN lsb
3	TILT msb
4	TILT lsb
5	SPEED MOVEMENT
6	<i>reserved</i>
7	DIMMER msb
8	DIMMER lsb
9	SHUTTER
10	COLOUR WHEEL
11	COLOUR MODE
12	CYAN
13	MAGENTA
14	YELLOW
15	CTO
16	GEL FILTERS EMULATION
17	GOBO
18	GOBO ROTATION/INDEX msb
19	GOBO ROTATION/INDEX lsb
20	GOBO SHAKE
21	BLADES SYSTEM ROTATION
22	BLADE 1 INSERTION
23	BLADE 1 ROTATION
24	BLADE 2 INSERTION
25	BLADE 2 ROTATION
26	BLADE 3 INSERTION
27	BLADE 3 ROTATION
28	BLADE 4 INSERTION
29	BLADE 4 ROTATION
30	BLADE EFFECTS
31	DYNAMOVES MACROS
32	BLADES EFFECTS SPEED / DYNAMOVE MACROS SPEED
33	PRISM MODE
34	PRISM 1 POSITION
35	PRISM 1 ROTATION/INDEX
36	PRISM 2 POSITION
37	PRISM 2 ROTATION/INDEX
38	<i>reserved</i>
39	FROST
40	FOCUS msb
41	FOCUS lsb
42	ZOOM
43	FIXTURE CONTROL
44	RESET

1	PAN msb
2	PAN lsb

3	TILT msb
4	TILT lsb

5	SPEED MOVEMENT
DMX value	Function
000-009	Fast movement
010-025	Standard movement
026-127	Vector mode from fast to slow
128-247	Variable time reaction to dmx signal (fast to slow)
248-255	Silent movement

6	reserved
DMX value	Function
000-255	reserved

7	DIMMER msb
8	DIMMER lsb

9	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)
180-189	Random strobe
190-199	Open
200-209	Gobo/Colour wheel in Black Out while rotating
210-219	Pan/Tilt in Black Out while moving
220-222	Blades in Black Out while inserting
223-224	Frost/Prism in Black Out while inserting
225-226	Zoom in Black Out while moving
227-229	Gobo/Colour wheel/Blades/Frost/Prism/Zoom in Black Out while moving
230-255	Open

10	COLOUR WHEEL
-----------	---------------------

FULL COLOUR (if channel 11 "COLOUR MODE" = DMX range value 0-63)

DMX value	Function
000-009	Open
010-049	Colour 1
050-089	Colour 2
090-129	Colour 3
130-169	Colour 4
170-209	Colour 5
210-255	Colour 6 (HI CRI)

HALF COLOUR (if channel 1 "COLOUR MODE" = DMX range value 64-127)

DMX value	Function
000-009	Open
010-044	Colour 0-1
045-079	Colour 1-2
080-114	Colour 2-3
115-149	Colour 3-4
150-184	Colour 4-5

185-219	Colour 5-6
220-255	Colour 6-0

PROPORTIONAL COLOUR (if channel 11 "COLOUR MODE" = DMX range value 128-191)

DMX value	Function
000-009	Open
010-255	Proportional colour
027	Colour 0-1
044	Colour 1 center
062	Colour 1-2
079	Colour 2 center
097	Colour 2-3
114	Colour 3 center
132	Colour 3-4
150	Colour 4 center
167	Colour 4-5
185	Colour 5 center
202	Colour 5-6
220	Colour 6 center
237	Colour 6-0

RAINBOW (if channel 11 "COLOUR MODE" = DMX range value 192-255)

DMX value	Function
000-009	Open
010-127	CW rotation speed from max to min
128-137	Stop
138-255	CCW rotation speed from min to max

11	COLOUR MODE
DMX value	Function
000-063	Full colour
064-127	Half colour
128-191	Proportional colour
192-255	Rainbow

12	CYAN
DMX value	Function
000-255	Proportional colour

13	MAGENTA
DMX value	Function
000-255	Proportional colour

14	YELLOW
DMX value	Function
000-255	Proportional colour

15	CTO
DMX value	Function
000-255	Proportional colour

16	GEL FILTERS EMULATION
DMX value	Function
000-009	No function
010-020	19 FIRE
021-025	20 MEDIUM AMBER
026-030	25 SUNSET RED
031-035	68 SKY BLUE
036-040	101 YELLOW
041-045	104 DEEP AMBER
046-050	105 ORANGE

16	GEL FILTERS EMULATION
051-055	106 PRIMARY RED
056-060	111 DARK PINK
061-065	113 MAGENTA
066-070	117 STEEL BLUE
071-075	118 LIGHT BLUE
076-080	122 FERN GREEN
081-085	126 MAUVE
086-090	132 MEDIUM BLUE
091-095	136 PALE LAVENDER
096-100	137 LAVENDER
101-105	138 PALE GREEN
106-110	139 PRIMARY GREEN
111-115	147 APRICOT
116-120	151 GOLD TINT
121-125	154 PALE ROSE
126-130	156 CHOCOLATE
131-135	181 CONGO BLUE
136-140	200 DOUBLE CT BLUE
141-145	201 FULL CT BLUE
146-150	204 FULL CT ORANGE
151-155	341 PLUM
156-255	reserved

17	GOBO
DMX value	Function
000-009	Open
010-042	Gobo 1
043-075	Gobo 2
076-108	Gobo 3
109-141	Gobo 4
142-174	Gobo 5
175-207	Gobo 6
208-255	wheel scrolling (min to max)

18	GOBO 1 ROTATION/INDEX msb
19	GOBO 1 ROTATION/INDEX lsb
DMX value	Function
MSB.LSB-MSB.LSB INT16-INT16	
000.000-127.255 00000-32767	Proportional index 0°-360°
128.000-180.255 32768-46335	CCW gobo rotation (max to min)
181.000-202.255 46336-51967	Stop
203.000-255.255 51968-65535	CW gobo rotation (min to max)

20	GOBO SHAKE
DMX value	Function
000-009	Stop
010-019	Gobo shake R-L speed 1
020-029	Gobo shake R-L speed 2
030-039	Gobo shake R-L speed 3
040-049	Gobo shake R-L speed 4
050-059	Gobo shake R-L speed 5
060-069	Gobo shake R-L speed 6
070-079	Gobo shake R-L speed 7
080-089	Gobo shake R-L speed 8
090-099	Gobo shake R-L speed 9
100-109	Gobo shake R-L speed 10
110-126	Gobo shake R-L speed 11
127-138	Stop
139-148	Gobo shake L-R speed 1
149-158	Gobo shake L-R speed 2
159-168	Gobo shake L-R speed 3
169-178	Gobo shake L-R speed 4
179-188	Gobo shake L-R speed 5
189-198	Gobo shake L-R speed 6
199-208	Gobo shake L-R speed 7
209-218	Gobo shake L-R speed 8
219-228	Gobo shake L-R speed 9
229-238	Gobo shake L-R speed 10
239-255	Gobo shake L-R speed 11

21	BLADES SYSTEM ROTATION
DMX value	Function
000-126	Position from -45° to 0°
127-128	0° position
129-255	Position from 0° to 45°

22	BLADE 1 INSERTION
DMX value	Function
000-255	Open to fully inserted

23	BLADE 1 ROTATION
DMX value	Function
000-127	Position from -30° to 0°
128	0° position
129-255	Position from 0° to 30°

24	BLADE 2 INSERTION
DMX value	Function
000-255	Open to fully inserted

25	BLADE 2 ROTATION
DMX value	Function
000-127	Position from -30° to 0°
128	0° position
129-255	Position from 0° to 30°

26	BLADE 3 INSERTION
DMX value	Function
000-255	Open to fully inserted

27	BLADE 3 ROTATION
DMX value	Function
000-127	Position from -30° to 0°
128	0° position
129-255	Position from 0° to 30°

28	BLADE 4 INSERTION
DMX value	Function
000-255	Open to fully inserted

29	BLADE 4 ROTATION
DMX value	Function
000-127	Position from -30° to 0°
128	0° position
129-255	Position from 0° to 30°

30	BLADES EFFECTS		
DMX value	Function	DMX value	Function
000-009	No function	110-111	Macro 51
010-011	Macro 1	112-113	Macro 52
012-013	Macro 2	114-115	Macro 53
014-015	Macro 3	116-117	Macro 54
016-017	Macro 4	118-119	Macro 55
018-019	Macro 5	120-121	Macro 56
020-021	Macro 6	122-123	Macro 57
022-023	Macro 7	124-125	Macro 58
024-025	Macro 8	126-127	Macro 59
026-027	Macro 9	128-129	Macro 60
028-029	Macro 10	130-131	Macro 61
030-031	Macro 11	132-133	Macro 62
032-033	Macro 12	134-135	Macro 63
034-035	Macro 13	136-137	Macro 64
036-037	Macro 14	138-139	Macro 65
038-039	Macro 15	140-141	Macro 66
040-041	Macro 16	142-143	Macro 67
042-043	Macro 17	144-145	Macro 68
044-045	Macro 18	146-147	Macro 69
046-047	Macro 19	148-149	Macro 70
048-049	Macro 20	150-151	Macro 71
050-051	Macro 21	152-153	Macro 72
052-053	Macro 22	154-155	Macro 73
054-055	Macro 23	156-157	Macro 74
056-057	Macro 24	158-159	Macro 75
058-059	Macro 25	160-161	Macro 76
060-061	Macro 26	162-163	Macro 77
062-063	Macro 27	164-165	Macro 78
064-065	Macro 28	166-167	Macro 79
066-067	Macro 29	168-169	Macro 80
068-069	Macro 30	170-171	Macro 81
070-071	Macro 31	172-173	Macro 82
072-073	Macro 32	174-175	Macro 83
074-075	Macro 33	176-177	Macro 84
076-077	Macro 34	178-179	Macro 85
078-079	Macro 35	180-181	Macro 86
080-081	Macro 36	182-183	Macro 87

30	BLADES EFFECTS		
DMX value	Function	DMX value	Function
082-083	Macro 37	184-185	Macro 88
084-085	Macro 38	186-187	Macro 89
086-087	Macro 39	188-255	reserved
088-089	Macro 40		
090-091	Macro 41		
092-093	Macro 42		
094-095	Macro 43		
096-097	Macro 44		
098-099	Macro 45		
100-101	Macro 46		
102-103	Macro 47		
104-105	Macro 48		
106-107	Macro 49		
108-109	Macro 50		

31	DYNAMOVE MACROS	
DMX value	Function	Automatic channels (44 DMX channels mode)
000-009	No function	
010-011	Macro 1	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
012-013	Macro 2	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
014-015	Macro 3	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
016-017	Macro 4	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
018-019	Macro 5	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
020-021	Macro 6	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
022-023	Macro 7	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
024-025	Macro 8	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
026-027	Macro 9	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
028-029	Macro 10	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
030-031	Macro 11	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
032-033	Macro 12	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
034-035	Macro 13	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
036-037	Macro 14	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
038-039	Macro 15	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
040-041	Macro 16	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
042-043	Macro 17	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42

31	DYNAMOVE MACROS	
DMX value	Function	Automatic channels (44 DMX channels mode)
044-045	Macro 18	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
046-047	Macro 19	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
048-049	Macro 20	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
050-051	Macro 21	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
052-053	Macro 22	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
054-055	Macro 23	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
056-057	Macro 24	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
058-059	Macro 25	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 21; CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
060-061	Macro 26	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 21; CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
062-063	Macro 27	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 21; CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
064-065	Macro 28	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
066-067	Macro 29	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
068-069	Macro 30	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
070-071	Macro 31	CH 10; CH 11; CH 17; CH 18; CH 33; CH 34; CH 35; CH 40; CH 41; CH 42
072-073	Macro 32	CH 10; CH 11; CH 17; CH 18; CH 33; CH 34; CH 35; CH 40; CH 41; CH 42
074-075	Macro 33	CH 10; CH 11; CH 17; CH 18; CH 33; CH 34; CH 35; CH 40; CH 41; CH 42
076-077	Macro 34	CH 10; CH 11; CH 17; CH 18; CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
078-079	Macro 35	CH 10; CH 11; CH 17; CH 18; CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
080-081	Macro 36	CH 10; CH 11; CH 17; CH 18; CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
082-083	Macro 37	CH 10; CH 11; CH 17; CH 18; CH 21; CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
084-085	Macro 38	CH 10; CH 11; CH 17; CH 18; CH 21; CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
086-087	Macro 39	CH 10; CH 11; CH 17; CH 18; CH 21; CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42

31	DYNAMOVE MACROS	
DMX value	Function	Automatic channels (44 DMX channels mode)
088-089	Macro 40	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
090-091	Macro 41	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
092-093	Macro 42	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
094-095	Macro 43	CH 10; CH 11; CH 17; CH 18; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
096-097	Macro 44	CH 10; CH 11; CH 17; CH 18; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
098-099	Macro 45	CH 10; CH 11; CH 17; CH 18; CH 33; CH 34; CH 35; CH 36; CH 37; CH 40; CH 41; CH 42
100-101	Macro 46	CH 10; CH 11; CH 17; CH 18; CH 19; CH 20; CH 33; CH 34; CH 35; CH 40; CH 41; CH 42
102-103	Macro 47	CH 10; CH 11; CH 17; CH 18; CH 19; CH 20; CH 33; CH 34; CH 35; CH 40; CH 41; CH 42
104-105	Macro 48	CH 10; CH 11; CH 17; CH 18; CH 19; CH 20; CH 33; CH 34; CH 35; CH 40; CH 41; CH 42
106-107	Macro 49	CH 10; CH 11; CH 17; CH 18; CH 19; CH 20; CH 33; CH 34; CH 35; CH 40; CH 41; CH 42
108-109	Macro 50	CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 33; CH 37
110-111	Macro 51	CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 33; CH 37
112-113	Macro 52	CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 33; CH 37
114-115	Macro 53	CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 33; CH 34; CH 35; CH 36; CH 37
116-117	Macro 54	CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 33; CH 37
118-119	Macro 55	CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 33; CH 37
120-121	Macro 56	CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 33; CH 37
122-123	Macro 57	CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 33; CH 37
124-125	Macro 58	CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 33; CH 35
126-127	Macro 59	CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 33; CH 37
128-129	Macro 60	CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 33; CH 37
130-131	Macro 61	CH 10; CH 11; CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 33; CH 34; CH 35
132-133	Macro 62	CH 10; CH 11; CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 33; CH 34; CH 35; CH 36; CH 37
134-135	Macro 63	CH 10; CH 11; CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 33; CH 34; CH 35; CH 36; CH 37
136-255	reserved	

32	BLADES EFFECTS SPEED / DYNAMOVE MACROS SPEED
DMX value	Function
000-010	1X
011-050	1.1X to 5X (step 0.1X)
051-090	4.9X to 1X (step 0.1X)
091-159	1X
160-169	0.9X
170-179	0.8X
180-189	0.7X
190-199	0.6X
200-209	0.5X
210-219	0.4X
220-229	0.3X
230-239	0.2X
240-255	0.1X

33	PRISM MODE
DMX value	Function
000-009	No function
010-049	Prism 1 inserted after zoom lens
050-089	Prism 2 inserted after zoom lens
090-129	Prism 1+2 inserted after zoom lens
130-169	Prism 1 inserted between focus and zoom lenses
170-209	Prism 2 inserted between focus and zoom lenses
210-255	Prism 1+2 inserted between focus and zoom lenses

34	PRISM 1 POSITION
DMX value	Function
000-009	Centre
010-127	Outward left to centre
128-137	Centre
138-255	Centre to outward right

35	PRISM 1 ROTATION/INDEX
DMX value	Function
000-127	Proportional index 0°-360°
128-180	CW rotation from fast to slow
181-202	Stop
203-255	CCW rotation from slow to fast

36	PRISM 2 POSITION
DMX value	Function
000-009	Centre
010-127	Outward left to centre
128-137	Centre
138-255	Centre to outward right

37	PRISM 2 ROTATION/INDEX
DMX value	Function
000-127	Proportional index 0°-360°
128-180	CW rotation from fast to slow
181-202	Stop
203-255	CCW rotation from slow to fast

38	reserved
DMX value	Function
000-255	reserved

39	FROST
DMX value	Function
000-009	No function
010-255	Frost Filter linear from min to max

40	FOCUS msb
41	FOCUS lsb
DMX value	Function
MSB.LSB-MSB.LSB INT16-INT16	
000/000-255/255 00000-65535	Linear focus

42	ZOOM
DMX value	Function
000-255	Linear zoom

43	FIXTURE CONTROL
DMX value	Function
000-009	0 - No effect
010-024	1 - SMOOTH DIMMING OFF
025-026	2 - SMOOTH DIMMING 1
027-028	3 - SMOOTH DIMMING 2
029-030	4 - SMOOTH DIMMING 3
031-032	5 - SMOOTH DIMMING 4 (DEFAULT)
033-034	6 - SMOOTH DIMMING 5
035-036	7 - SMOOTH DIMMING 6
037-038	8 - SMOOTH DIMMING 7
039-040	9 - SMOOTH DIMMING 8
041-042	10 - SMOOTH DIMMING 9
043-044	11 - SMOOTH DIMMING 10
045-046	12 - SMOOTH DIMMING 11
047-048	13 - SMOOTH DIMMING 12
049-050	14 - SMOOTH DIMMING 13
051-052	15 - SMOOTH DIMMING 14
053-054	16 - SMOOTH DIMMING 15
055-056	17 - SMOOTH DIMMING 16
057-058	18 - SMOOTH DIMMING 17
059-060	19 - SMOOTH DIMMING 18
061-062	20 - SMOOTH DIMMING 19
063-064	21 - SMOOTH DIMMING 20
065-074	22 - GAMMA CORRECTION QUADRATIC (DEFAULT)
075-084	23 - GAMMA CORRECTION LINEAR
085-104	24 - OUTPUT FREQUENCY 610 Hz
105	25 - OUTPUT FREQUENCY 800 Hz
106	26 - OUTPUT FREQUENCY 1000 Hz (DEFAULT)
107	27 - OUTPUT FREQUENCY 1500 Hz
108	28 - OUTPUT FREQUENCY 2000 Hz
109	29 - OUTPUT FREQUENCY 2500 Hz
110	30 - OUTPUT FREQUENCY 3000 Hz
111	31 - OUTPUT FREQUENCY 3500 Hz
112	32 - OUTPUT FREQUENCY 4000 Hz
113	33 - OUTPUT FREQUENCY 4500 Hz
114	34 - OUTPUT FREQUENCY 5000 Hz
115 - 134	35 – 54 RESERVED
135-136	55 - CMY / CTO SPEED 1
137-138	56 - CMY / CTO SPEED 2
139-140	57 - CMY / CTO SPEED 3
141-142	58 - CMY / CTO SPEED 4(DEFAULT)
143-144	59 - BLADES SPEED 1
145-146	60 - BLADES SPEED 2
147-148	61 - BLADES SPEED 3
149-150	62 - BLADES SPEED 4 (DEFAULT)
151-152	63 – FOCUS EXCURTION EXTENDED
153-154	64 – FOCUS EXCURTION STANDARD (DEFAULT)
155-156	65 - DISPLAY STANDBY DISABLE
157-158	66 - DISPLAY STANDBY ENABLE (DEFAULT)
159-160	67 - DISPLAY STANDBY FORCED ENABLED
161-174	68 – RESERVED
175-176	69 - NO DMX ACTION – KEEP LAST DMX (DEFAULT)
177-178	70 - NO DMX ACTION – BLACK OUT
179-180	71 - RESERVED
181-182	72 - NO DMX ACTION – DEMO PROGRAM (STEPS 01..48)
183-184	73 - NO DMX ACTION – SINGLE CUE
185-194	74 - PAN NORMAL

43	FIXTURE CONTROL
DMX value	Function
195-204	75 - PAN REVERSE
205-214	76 - TILT NORMAL
215-224	77 - TILT REVERSE
225-227	78 - AUTOFOCUS ON
228-230	79 - RESERVED
231-234	80 - AUTOFOCUS OFF (DEFAULT)
235-237	81 - FAN MODE STANDARD (DEFAULT)
238-240	82 - FAN MODE AUTO
241-244	83 - FAN MODE SILENT
245-246	84 – ZOOM SPEED 1
247-248	85 – ZOOM SPEED 2
249-250	86 – ZOOM SPEED 3
251-252	87 – ZOOM SPEED 4 (DEFAULT)
253-255	88 - SET FUNCTION TO DEFAULT: -SMOOTH DIMMING = 4 -GAMMA = QUADRATIC -FREQUENCY = 1000 Hz -CMY/CTO SPEED = 4 -BLADES SPEED = 4 -FOCUS EXCURTION STANDARD -DISPLAY STANDBY = ENABLED -NO DMX ACTION = KEEP LAST DMX -FANS SETTING = STANDARD -ZOOM SPEED = 4 -AUTOFOCUS = DISABLED -FOCUS EXCURSION = STANDARD

44	RESET
DMX value	Function
000-009	No effect
010-075	PAN TILT reset
076-095	HEAD MOTORS reset
096-115	Gobo wheel reset
116-135	Colour wheel reset
136-155	CMY/CTO reset
156-175	Blades reset
176-195	Prism reset
196-215	Frost - Smooth reset
216-239	Focus/Zoom reset
240-255	Total unit reset (PAN TILT + HEAD MOTORS)

7.2 **DMX Personality 2 - 53 CHANNELS MODE**

1	PAN msb
2	PAN lsb
3	TILT msb
4	TILT lsb
5	SPEED MOVEMENT
6	<i>reserved</i>
7	DIMMER msb
8	DIMMER lsb
9	SHUTTER
10	COLOUR WHEEL
11	COLOUR MODE
12	CYAN
13	MAGENTA
14	YELLOW
15	CTO
16	GEL FILTERS EMULATION
17	GOBO
18	GOBO ROTATION/INDEX msb
19	GOBO ROTATION/INDEX lsb
20	GOBO SHAKE
21	BLADES SYSTEM ROTATION msb
22	BLADES SYSTEM ROTATION lsb
23	BLADE 1 INSERTION msb
24	BLADE 1 INSERTION lsb
25	BLADE 1 ROTATION msb
26	BLADE 1 ROTATION lsb
27	BLADE 2 INSERTION msb
28	BLADE 2 INSERTION lsb
29	BLADE 2 ROTATION msb
30	BLADE 2 ROTATION lsb
31	BLADE 3 INSERTION msb
32	BLADE 3 INSERTION lsb
33	BLADE 3 ROTATION msb
34	BLADE 3 ROTATION lsb
35	BLADE 4 INSERTION msb
36	BLADE 4 INSERTION lsb
37	BLADE 4 ROTATION msb
38	BLADE 4 ROTATION lsb
39	BLADE EFFECTS
40	DYNAMOVES MACROS
41	BLADES EFFECTS SPEED / DYNAMOVE MACROS SPEED
42	PRISM MODE
43	PRISM 1 POSITION
44	PRISM 1 ROTATION/INDEX
45	PRISM 2 POSITION
46	PRISM 2 ROTATION/INDEX
47	<i>reserved</i>

48	FROST
49	FOCUS msb
50	FOCUS lsb
51	ZOOM
52	FIXTURE CONTROL
53	RESET

1	PAN msb
2	PAN lsb

3	TILT msb
4	TILT lsb

5	SPEED MOVEMENT
DMX value	Function
000-009	Fast movement
010-025	Standard movement
026-127	Vector mode from fast to slow
128-247	Variable time reaction to dmx signal (fast to slow)
248-255	Silent movement

6	reserved
DMX value	Function
000-255	reserved

7	DIMMER msb
8	DIMMER lsb

9	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)
180-189	Random strobe
190-199	Open
200-209	Gobo/Colour wheel in Black Out while rotating
210-219	Pan/Tilt in Black Out while moving
220-222	Blades in Black Out while inserting
223-224	Frost/Prism in Black Out while inserting
225-226	Zoom in Black Out while moving
227-229	Gobo/Colour wheel/Blades/Frost/Prism/Zoom in Black Out while moving
230-255	Open

10	COLOUR WHEEL
-----------	---------------------

FULL COLOUR (if channel 11 "COLOUR MODE" = DMX range value 0-63)

DMX value	Function
000-009	Open
010-049	Colour 1
050-089	Colour 2
090-129	Colour 3
130-169	Colour 4
170-209	Colour 5
210-255	Colour 6 (HI CRI)

HALF COLOUR (if channel 1 "COLOUR MODE" = DMX range value 64-127)

DMX value	Function
000-009	Open
010-044	Colour 0-1
045-079	Colour 1-2
080-114	Colour 2-3
115-149	Colour 3-4
150-184	Colour 4-5
185-219	Colour 5-6
220-255	Colour 6-0

PROPORTIONAL COLOUR (if channel 11 "COLOUR MODE" = DMX range value 128-191)

DMX value	Function
000-009	Open
010-255	Proportional colour
027	Colour 0-1
044	Colour 1 center
062	Colour 1-2
079	Colour 2 center
097	Colour 2-3
114	Colour 3 center
132	Colour 3-4
150	Colour 4 center
167	Colour 4-5
185	Colour 5 center
202	Colour 5-6
220	Colour 6 center
237	Colour 6-0

RAINBOW (if channel 11 "COLOUR MODE" = DMX range value 192-255)

DMX value	Function
000-009	Open
010-127	CW rotation speed from max to min
128-137	Stop
138-255	CCW rotation speed from min to max

11	COLOUR MODE
DMX value	Function
000-063	Full colour
064-127	Half colour
128-191	Proportional colour
192-255	Rainbow

12	CYAN
DMX value	Function
000-255	Proportional colour

13	MAGENTA
DMX value	Function
000-255	Proportional colour

14	YELLOW
DMX value	Function
000-255	Proportional colour

15	CTO
DMX value	Function
000-255	Proportional colour

16	GEL FILTERS EMULATION
DMX value	Function

16	GEL FILTERS EMULATION
000-009	No function
010-020	19 FIRE
021-025	20 MEDIUM AMBER
026-030	25 SUNSET RED
031-035	68 SKY BLUE
036-040	101 YELLOW
041-045	104 DEEP AMBER
046-050	105 ORANGE
051-055	106 PRIMARY RED
056-060	111 DARK PINK
061-065	113 MAGENTA
066-070	117 STEEL BLUE
071-075	118 LIGHT BLUE
076-080	122 FERN GREEN
081-085	126 MAUVE
086-090	132 MEDIUM BLUE
091-095	136 PALE LAVENDER
096-100	137 LAVENDER
101-105	138 PALE GREEN
106-110	139 PRIMARY GREEN
111-115	147 APRICOT
116-120	151 GOLD TINT
121-125	154 PALE ROSE
126-130	156 CHOCOLATE
131-135	181 CONGO BLUE
136-140	200 DOUBLE CT BLUE
141-145	201 FULL CT BLUE
146-150	204 FULL CT ORANGE
151-155	341 PLUM
156-255	reserved

17	GOBO
DMX value	Function
000-009	Open
010-042	Gobo 1
043-075	Gobo 2
076-108	Gobo 3
109-141	Gobo 4
142-174	Gobo 5
175-207	Gobo 6
208-255	wheel scrolling (min to max)

18	GOBO 1 ROTATION/INDEX msb
19	GOBO 1 ROTATION/INDEX lsb
DMX value	Function
MSB.LSB-MSB.LSB INT16-INT16	
000.000-127.255 00000-32767	Proportional index 0°-360°
128.000-180.255 32768-46335	CCW gobo rotation (max to min)
181.000-202.255 46336-51967	Stop
203.000-255.255 51968-65535	CW gobo rotation (min to max)

20	GOBO SHAKE
DMX value	Function
000-009	Stop
010-019	Gobo shake R-L speed 1
020-029	Gobo shake R-L speed 2
030-039	Gobo shake R-L speed 3
040-049	Gobo shake R-L speed 4
050-059	Gobo shake R-L speed 5
060-069	Gobo shake R-L speed 6
070-079	Gobo shake R-L speed 7
080-089	Gobo shake R-L speed 8
090-099	Gobo shake R-L speed 9
100-109	Gobo shake R-L speed 10
110-126	Gobo shake R-L speed 11
127-138	Stop
139-148	Gobo shake L-R speed 1
149-158	Gobo shake L-R speed 2
159-168	Gobo shake L-R speed 3
169-178	Gobo shake L-R speed 4
179-188	Gobo shake L-R speed 5
189-198	Gobo shake L-R speed 6
199-208	Gobo shake L-R speed 7
209-218	Gobo shake L-R speed 8
219-228	Gobo shake L-R speed 9
229-238	Gobo shake L-R speed 10
239-255	Gobo shake L-R speed 11

21	BLADES SYSTEM ROTATION msb
22	BLADES SYSTEM ROTATION lsb
DMX value	Function
MSB.LSB-MSB.LSB INT16-INT16	
000/000-126/255 00000-32511	Position from -45° to 0°
127/000-128/255 32512-33023	0° position
129/000-255/255 33024-65535	Position from 0° to 45°

23	BLADE 1 INSERTION msb
24	BLADE 1 INSERTION lsb
DMX value	Function
MSB.LSB-MSB.LSB INT16-INT16	
000/000-255/255 00000-65535	Open to fully inserted

25	BLADE 1 ROTATION msb
26	BLADE 1 ROTATION lsb
DMX value	Function
MSB.LSB-MSB.LSB INT16-INT16	
000/000-127/255 00000-32767	Position from -30° to 0°
128/000 32768	0° position
128/001-255/255 32769-65535	Position from 0° to 30°

27	BLADE 2 INSERTION msb
28	BLADE 2 INSERTION lsb
DMX value	Function
MSB.LSB-MSB.LSB INT16-INT16	
000/000-255/255 00000-65535	Open to fully inserted

29	BLADE 2 ROTATION msb
30	BLADE 2 ROTATION lsb
DMX value	Function
MSB.LSB-MSB.LSB INT16-INT16	
000/000-127/255 00000-32767	Position from -30° to 0°
128/000 32768	0° position
128/001-255/255 32769-65535	Position from 0° to 30°

31	BLADE 3 INSERTION msb
32	BLADE 3 INSERTION lsb
DMX value	Function
MSB.LSB-MSB.LSB INT16-INT16	
000/000-255/255 00000-65535	Open to fully inserted

33	BLADE 3 ROTATION msb
34	BLADE 3 ROTATION lsb
DMX value	Function
MSB.LSB-MSB.LSB INT16-INT16	
000/000-127/255 00000-32767	Position from -30° to 0°
128/000 32768	0° position
128/001-255/255 32769-65535	Position from 0° to 30°

35	BLADE 4 INSERTION msb
36	BLADE 4 INSERTION lsb
DMX value	Function
MSB.LSB-MSB.LSB INT16-INT16	
000/000-255/255 00000-65535	Open to fully inserted

37	BLADE 1 ROTATION msb
38	BLADE 1 ROTATION lsb
DMX value	Function
MSB.LSB-MSB.LSB INT16-INT16	
000/000-127/255 00000-32767	Position from -30° to 0°
128/000 32768	0° position
128/001-255/255 32769-65535	Position from 0° to 30°

39		BLADES EFFECTS	
DMX value	Function	DMX value	Function
000-009	No function	110-111	Macro 51
010-011	Macro 1	112-113	Macro 52
012-013	Macro 2	114-115	Macro 53
014-015	Macro 3	116-117	Macro 54
016-017	Macro 4	118-119	Macro 55
018-019	Macro 5	120-121	Macro 56
020-021	Macro 6	122-123	Macro 57
022-023	Macro 7	124-125	Macro 58
024-025	Macro 8	126-127	Macro 59
026-027	Macro 9	128-129	Macro 60
028-029	Macro 10	130-131	Macro 61
030-031	Macro 11	132-133	Macro 62
032-033	Macro 12	134-135	Macro 63
034-035	Macro 13	136-137	Macro 64
036-037	Macro 14	138-139	Macro 65
038-039	Macro 15	140-141	Macro 66
040-041	Macro 16	142-143	Macro 67
042-043	Macro 17	144-145	Macro 68
044-045	Macro 18	146-147	Macro 69
046-047	Macro 19	148-149	Macro 70
048-049	Macro 20	150-151	Macro 71
050-051	Macro 21	152-153	Macro 72
052-053	Macro 22	154-155	Macro 73
054-055	Macro 23	156-157	Macro 74
056-057	Macro 24	158-159	Macro 75
058-059	Macro 25	160-161	Macro 76
060-061	Macro 26	162-163	Macro 77
062-063	Macro 27	164-165	Macro 78
064-065	Macro 28	166-167	Macro 79
066-067	Macro 29	168-169	Macro 80
068-069	Macro 30	170-171	Macro 81
070-071	Macro 31	172-173	Macro 82
072-073	Macro 32	174-175	Macro 83
074-075	Macro 33	176-177	Macro 84
076-077	Macro 34	178-179	Macro 85
078-079	Macro 35	180-181	Macro 86
080-081	Macro 36	182-183	Macro 87
082-083	Macro 37	184-185	Macro 88
084-085	Macro 38	186-187	Macro 89
086-087	Macro 39	188-255	reserved
088-089	Macro 40		
090-091	Macro 41		
092-093	Macro 42		
094-095	Macro 43		
096-097	Macro 44		
098-099	Macro 45		
100-101	Macro 46		
102-103	Macro 47		
104-105	Macro 48		
106-107	Macro 49		
108-109	Macro 50		

40		DYNAMOVE MACROS	
DMX value	Function	Automatic channels (53 DMX channels mode)	
000-009	No function		

40	DYNAMOVE MACROS	
DMX value	Function	Automatic channels (53 DMX channels mode)
010-011	Macro 1	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
012-013	Macro 2	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
014-015	Macro 3	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
016-017	Macro 4	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
018-019	Macro 5	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
020-021	Macro 6	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
022-023	Macro 7	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
024-025	Macro 8	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
026-027	Macro 9	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
028-029	Macro 10	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
030-031	Macro 11	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
032-033	Macro 12	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
034-035	Macro 13	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
036-037	Macro 14	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
038-039	Macro 15	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
040-041	Macro 16	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 30; CH 31; CH 32; CH 33; CH 34; CH 35; CH 36; CH 37; CH 38; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
042-043	Macro 17	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 30; CH 31; CH 32; CH 33; CH 34; CH 35; CH 36; CH 37; CH 38; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
044-045	Macro 18	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 30; CH 31; CH 32; CH 33; CH 34; CH 35; CH 36; CH 37; CH 38; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
046-047	Macro 19	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 30; CH 31; CH 32; CH 33; CH 34; CH 35; CH 36; CH 37; CH 38; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
048-049	Macro 20	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 30; CH 31; CH 32; CH 33; CH 34; CH 35; CH 36; CH 37; CH 38; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
050-051	Macro 21	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 30; CH 31; CH 32; CH 33; CH 34; CH 35; CH 36; CH 37; CH 38; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
052-053	Macro 22	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 30; CH 31; CH 32; CH 33; CH 34; CH 35; CH 36; CH 37; CH 38; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
054-055	Macro 23	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 30; CH 31; CH 32; CH 33; CH 34; CH 35; CH 36; CH 37; CH 38; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
056-057	Macro 24	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 30; CH 31; CH 32; CH 33; CH 34; CH 35; CH 36; CH 37; CH 38; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51

40	DYNAMOVE MACROS	
DMX value	Function	Automatic channels (53 DMX channels mode)
058-059	Macro 25	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 21; CH 22; CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 30; CH 31; CH 32; CH 33; CH 34; CH 35; CH 36; CH 37; CH 38; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
060-061	Macro 26	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 21; CH 22; CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 30; CH 31; CH 32; CH 33; CH 34; CH 35; CH 36; CH 37; CH 38; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
062-063	Macro 27	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 21; CH 22; CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 30; CH 31; CH 32; CH 33; CH 34; CH 35; CH 36; CH 37; CH 38; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
064-065	Macro 28	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 30; CH 31; CH 32; CH 33; CH 34; CH 35; CH 36; CH 37; CH 38; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
066-067	Macro 29	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 30; CH 31; CH 32; CH 33; CH 34; CH 35; CH 36; CH 37; CH 38; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
068-069	Macro 30	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 30; CH 31; CH 32; CH 33; CH 34; CH 35; CH 36; CH 37; CH 38; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
070-071	Macro 31	CH 10; CH 11; CH 17; CH 18; CH 42; CH 43; CH 44; CH 49; CH 50; CH 51
072-073	Macro 32	CH 10; CH 11; CH 17; CH 18; CH 42; CH 43; CH 44; CH 49; CH 50; CH 51
074-075	Macro 33	CH 10; CH 11; CH 17; CH 18; CH 42; CH 43; CH 44; CH 49; CH 50; CH 51
076-077	Macro 34	CH 10; CH 11; CH 17; CH 18; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 30; CH 31; CH 32; CH 33; CH 34; CH 35; CH 36; CH 37; CH 38; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
078-079	Macro 35	CH 10; CH 11; CH 17; CH 18; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 30; CH 31; CH 32; CH 33; CH 34; CH 35; CH 36; CH 37; CH 38; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
080-081	Macro 36	CH 10; CH 11; CH 17; CH 18; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 30; CH 31; CH 32; CH 33; CH 34; CH 35; CH 36; CH 37; CH 38; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
082-083	Macro 37	CH 10; CH 11; CH 17; CH 18; CH 21; CH 22; CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 30; CH 31; CH 32; CH 33; CH 34; CH 35; CH 36; CH 37; CH 38; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
084-085	Macro 38	CH 10; CH 11; CH 17; CH 18; CH 21; CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 30; CH 31; CH 32; CH 33; CH 34; CH 35; CH 36; CH 37; CH 38; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
086-087	Macro 39	CH 10; CH 11; CH 17; CH 18; CH 21; CH 22; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 30; CH 31; CH 32; CH 33; CH 34; CH 35; CH 36; CH 37; CH 38; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
088-089	Macro 40	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
090-091	Macro 41	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
092-093	Macro 42	CH 12; CH 13; CH 14; CH 15; CH 17; CH 18; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
094-095	Macro 43	CH 10; CH 11; CH 17; CH 18; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
096-097	Macro 44	CH 10; CH 11; CH 17; CH 18; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
098-099	Macro 45	CH 10; CH 11; CH 17; CH 18; CH 42; CH 43; CH 44; CH 45; CH 46; CH 49; CH 50; CH 51
100-101	Macro 46	CH 10; CH 11; CH 17; CH 18; CH 19; CH 20; CH 42; CH 43; CH 44; CH 49; CH 50; CH 51

40	DYNAMOVE MACROS	
DMX value	Function	Automatic channels (53 DMX channels mode)
102-103	Macro 47	CH 10; CH 11; CH 17; CH 18; CH 19; CH 20; CH 42; CH 43; CH 44; CH 49; CH 50; CH 51
104-105	Macro 48	CH 10; CH 11; CH 17; CH 18; CH 19; CH 20; CH 42; CH 43; CH 44; CH 49; CH 50; CH 51
106-107	Macro 49	CH 10; CH 11; CH 17; CH 18; CH 19; CH 20; CH 42; CH 43; CH 44; CH 49; CH 50; CH 51
108-109	Macro 50	CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 30; CH 31; CH 32; CH 33; CH 34; CH 35; CH 36; CH 37; CH 38; CH 42; CH 46
110-111	Macro 51	CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 30; CH 31; CH 32; CH 33; CH 34; CH 35; CH 36; CH 37; CH 38; CH 42; CH 46
112-113	Macro 52	CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 30; CH 31; CH 32; CH 33; CH 34; CH 35; CH 36; CH 37; CH 38; CH 42; CH 46
114-115	Macro 53	CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 30; CH 31; CH 32; CH 33; CH 34; CH 35; CH 36; CH 37; CH 38; CH 42; CH 43; CH 44; CH 45; CH 46
116-117	Macro 54	CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 30; CH 31; CH 32; CH 33; CH 34; CH 35; CH 36; CH 37; CH 38; CH 42; CH 46
118-119	Macro 55	CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 30; CH 31; CH 32; CH 33; CH 34; CH 35; CH 36; CH 37; CH 38; CH 42; CH 46
120-121	Macro 56	CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 30; CH 31; CH 32; CH 33; CH 34; CH 35; CH 36; CH 37; CH 38; CH 42; CH 46
122-123	Macro 57	CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 30; CH 31; CH 32; CH 33; CH 34; CH 35; CH 36; CH 37; CH 38; CH 42; CH 46
124-125	Macro 58	CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 30; CH 31; CH 32; CH 33; CH 34; CH 35; CH 36; CH 37; CH 38; CH 42; CH 44
126-127	Macro 59	CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 30; CH 31; CH 32; CH 33; CH 34; CH 35; CH 36; CH 37; CH 38; CH 42; CH 46
128-129	Macro 60	CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 30; CH 31; CH 32; CH 33; CH 34; CH 35; CH 36; CH 37; CH 38; CH 42; CH 46
130-131	Macro 61	CH 10; CH 11; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 30; CH 31; CH 32; CH 33; CH 34; CH 35; CH 36; CH 37; CH 38; CH 42; CH 43; CH 44
132-133	Macro 62	CH 10; CH 11; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 30; CH 31; CH 32; CH 33; CH 34; CH 35; CH 36; CH 37; CH 38; CH 42; CH 43; CH 44; CH 45; CH 46
134-135	Macro 63	CH 10; CH 11; CH 23; CH 24; CH 25; CH 26; CH 27; CH 28; CH 29; CH 30; CH 31; CH 32; CH 33; CH 34; CH 35; CH 36; CH 37; CH 38; CH 42; CH 43; CH 44; CH 45; CH 46
136-255	reserved	

41	BLADES EFFECTS SPEED / DYNAMOVE MACROS SPEED
DMX value	Function
000-010	1X
011-050	1.1X to 5X (step 0.1X)
051-090	4.9X to 1X (step 0.1X)
091-159	1X
160-169	0.9X
170-179	0.8X
180-189	0.7X
190-199	0.6X
200-209	0.5X
210-219	0.4X
220-229	0.3X
230-239	0.2X
240-255	0.1X

42	PRISM MODE
DMX value	Function
000-009	No function
010-049	Prism 1 inserted after zoom lens
050-089	Prism 2 inserted after zoom lens
090-129	Prism 1+2 inserted after zoom lens
130-169	Prism 1 inserted between focus and zoom lenses
170-209	Prism 2 inserted between focus and zoom lenses
210-255	Prism 1+2 inserted between focus and zoom lenses

43	PRISM 1 POSITION
DMX value	Function
000-009	Centre
010-127	Outward left to centre
128-137	Centre
138-255	Centre to outward right

44	PRISM 1 ROTATION/INDEX
DMX value	Function
000-127	Proportional index 0°-360°
128-180	CW rotation from fast to slow
181-202	Stop
203-255	CCW rotation from slow to fast

45	PRISM 2 POSITION
DMX value	Function
000-009	Centre
010-127	Outward left to centre
128-137	Centre
138-255	Centre to outward right

46	PRISM 2 ROTATION/INDEX
DMX value	Function
000-127	Proportional index 0°-360°
128-180	CW rotation from fast to slow
181-202	Stop
203-255	CCW rotation from slow to fast

47	reserved
DMX value	Function
000-255	reserved

48	FROST
DMX value	Function
000-009	No function
010-255	Frost Filter linear from min to max

49	FOCUS msb
50	FOCUS lsb
DMX value	Function
MSB.LSB-MSB.LSB INT16-INT16	
000/000-255/255 00000-65535	Linear focus

51	ZOOM
DMX value	Function
000-255	Linear zoom

52	FIXTURE CONTROL
DMX value	Function
000-009	0 - No effect
010-024	1 - SMOOTH DIMMING OFF
025-026	2 - SMOOTH DIMMING 1
027-028	3 - SMOOTH DIMMING 2
029-030	4 - SMOOTH DIMMING 3
031-032	5 - SMOOTH DIMMING 4 (DEFAULT)
033-034	6 - SMOOTH DIMMING 5
035-036	7 - SMOOTH DIMMING 6
037-038	8 - SMOOTH DIMMING 7
039-040	9 - SMOOTH DIMMING 8
041-042	10 - SMOOTH DIMMING 9
043-044	11 - SMOOTH DIMMING 10
045-046	12 - SMOOTH DIMMING 11
047-048	13 - SMOOTH DIMMING 12
049-050	14 - SMOOTH DIMMING 13
051-052	15 - SMOOTH DIMMING 14
053-054	16 - SMOOTH DIMMING 15
055-056	17 - SMOOTH DIMMING 16
057-058	18 - SMOOTH DIMMING 17
059-060	19 - SMOOTH DIMMING 18
061-062	20 - SMOOTH DIMMING 19
063-064	21 - SMOOTH DIMMING 20
065-074	22 - GAMMA CORRECTION QUADRATIC (DEFAULT)
075-084	23 - GAMMA CORRECTION LINEAR
085-104	24 - OUTPUT FREQUENCY 610 Hz
105	25 - OUTPUT FREQUENCY 800 Hz
106	26 - OUTPUT FREQUENCY 1000 Hz (DEFAULT)
107	27 - OUTPUT FREQUENCY 1500 Hz
108	28 - OUTPUT FREQUENCY 2000 Hz
109	29 - OUTPUT FREQUENCY 2500 Hz
110	30 - OUTPUT FREQUENCY 3000 Hz
111	31 - OUTPUT FREQUENCY 3500 Hz
112	32 - OUTPUT FREQUENCY 4000 Hz
113	33 - OUTPUT FREQUENCY 4500 Hz
114	34 - OUTPUT FREQUENCY 5000 Hz
115 - 134	35 - 54 RESERVED
135-136	55 - CMY / CTO SPEED 1
137-138	56 - CMY / CTO SPEED 2
139-140	57 - CMY / CTO SPEED 3
141-142	58 - CMY / CTO SPEED 4(DEFAULT)
143-144	59 - BLADES SPEED 1
145-146	60 - BLADES SPEED 2
147-148	61 - BLADES SPEED 3
149-150	62 - BLADES SPEED 4 (DEFAULT)
151-152	63 - FOCUS EXCURTION EXTENDED
153-154	64 - FOCUS EXCURTION STANDARD (DEFAULT)
155-156	65 - DISPLAY STANDBY DISABLE
157-158	66 - DISPLAY STANDBY ENABLE (DEFAULT)
159-160	67 - DISPLAY STANDBY FORCED ENABLED
161-174	68 - RESERVED
175-176	69 - NO DMX ACTION - KEEP LAST DMX (DEFAULT)
177-178	70 - NO DMX ACTION - BLACK OUT
179-180	71 - RESERVED
181-182	72 - NO DMX ACTION - DEMO PROGRAM (STEPS 01..48)
183-184	73 - NO DMX ACTION - SINGLE CUE
185-194	74 - PAN NORMAL

52	FIXTURE CONTROL
DMX value	Function
195-204	75 - PAN REVERSE
205-214	76 - TILT NORMAL
215-224	77 - TILT REVERSE
225-227	78 - AUTOFOCUS ON
228-230	79 - RESERVED
231-234	80 - AUTOFOCUS OFF (DEFAULT)
235-237	81 - FAN MODE STANDARD (DEFAULT)
238-240	82 - FAN MODE AUTO
241-244	83 - FAN MODE SILENT
245-246	84 – ZOOM SPEED 1
247-248	85 – ZOOM SPEED 2
249-250	86 – ZOOM SPEED 3
251-252	87 – ZOOM SPEED 4 (DEFAULT)
253-255	88 - SET FUNCTION TO DEFAULT: -SMOOTH DIMMING = 4 -GAMMA = QUADRATIC -FREQUENCY = 1000 Hz -CMY/CTO SPEED = 4 -BLADES SPEED = 4 -FOCUS EXCURTION STANDARD -DISPLAY STANDBY = ENABLED -NO DMX ACTION = KEEP LAST DMX -FANS SETTING = STANDARD -ZOOM SPEED = 4 -AUTOFOCUS = DISABLED -FOCUS EXCURSION = STANDARD

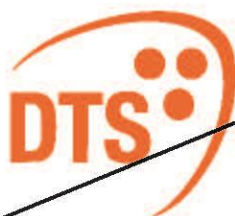
53	RESET
DMX value	Function
000-009	No effect
010-075	PAN TILT reset
076-095	HEAD MOTORS reset
096-115	Gobo wheel reset
116-135	Colour wheel reset
136-155	CMY/CTO reset
156-175	Blades reset
176-195	Prism reset
196-215	Frost - Smooth reset
216-239	Focus/Zoom reset
240-255	Total unit reset (PAN TILT + HEAD MOTORS)



NOTES

ISO 9001:2015

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



**ITALIAN
PROFESSIONAL
LIGHTING**

D.T.S. Illuminazione S.r.l.
via Fagnano Selve, 12/14
47843 Misano adriatico (RN) Italy
+39 0541 611131
www.dts.lighting - info@dts-lighting.it