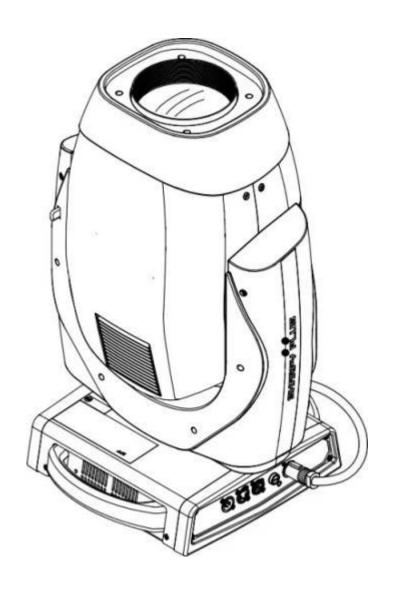


SHARPY PLUS

INSTRUCTION MANUAL

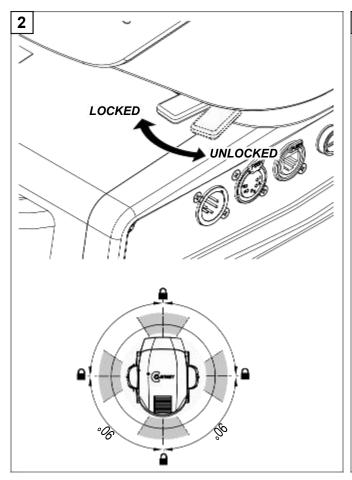


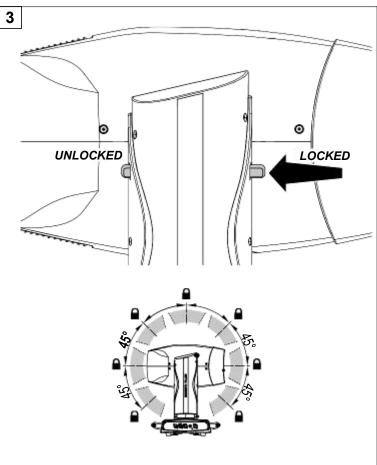


1. UNPACKING AND PREPARATION

1

Packing contents - Fig. 1





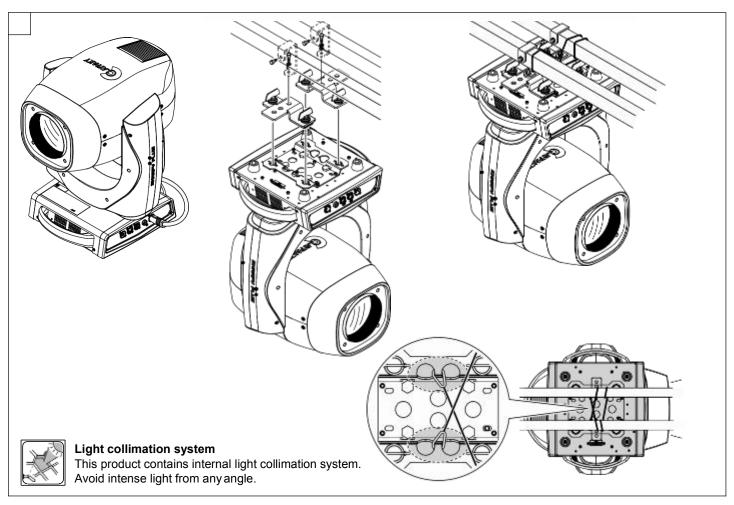
PAN Mechanism Lock and Release (every 90°) - Fig. 2

TILT Mechanism Lock and Release (every 45°) - Fig. 3



2. INSTALLATION AND START-UP

2.1 Installing the fixture

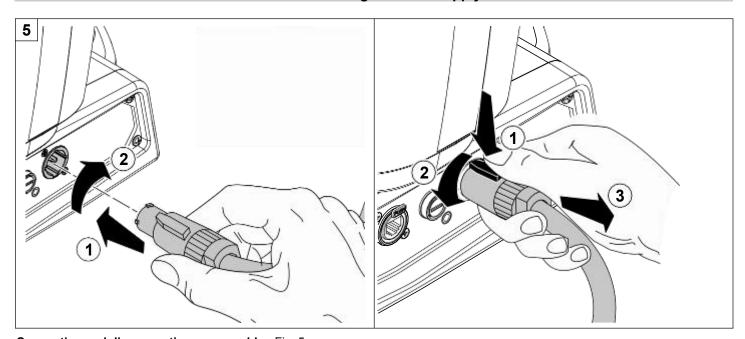


Installing the projector - Fig. 4

The projector can be installed on the floor resting on special rubber feet, on a truss or on the ceiling or wall.

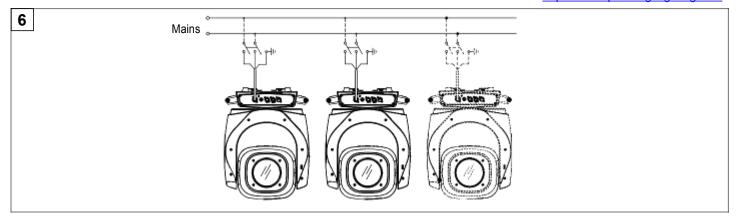
WARNING: with the exception of when the projector is positioned on the floor, the safety cable must be fitted. (Cod. 105041/003 available on request). This must be securely fixed to the support structure of the projector and then connected to the fixing point at the centre of the base.

2.2 Connecting to manis supply



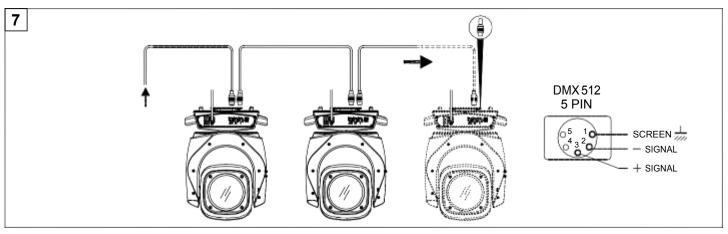
Connecting and disconnecting power cable - Fig. 5





Connecting to the mains supply - Fig. 6

2.3 Connecting the control signal line: DMX/Art-Net



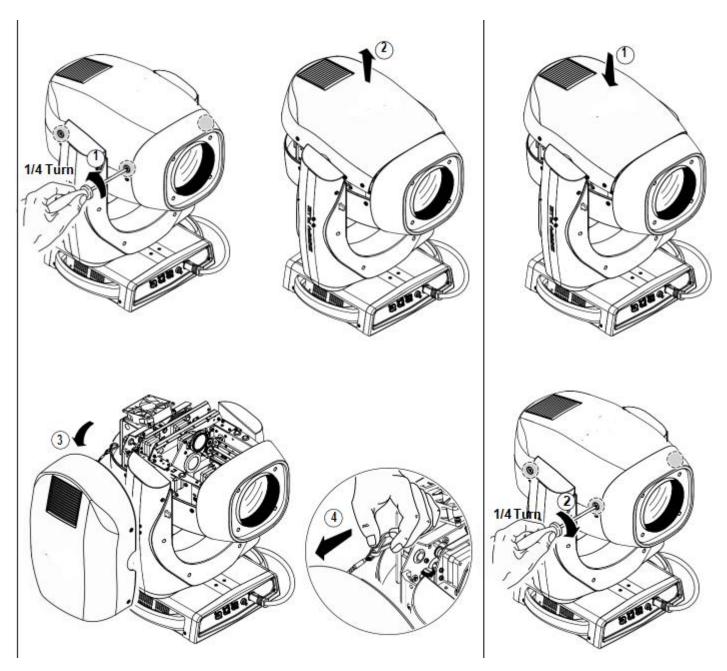
Connecting to the control signal line (DMX) - Fig. 7

Use a cable conforming to specifications EIA RS-485: 2-pole twisted, shielded, 1200hm characteristic impedance, 22-24 AWG, low capacity. Do not use microphone cable or other cable with characteristics differing from those specified. The end connections must be made using XLR type 5-pin male/female connectors. A terminating plug must be inserted into the last projector with a resistance of 1200hm (minimum 1/4 W) between terminals 2 and 3. IMPORTANT: The wires must not make contact with each other or with the metal casing of the connectors. The casing itself must be connected to the shield braid and to pin 1 of the connectors.



3. MAINTENANCE

3.1 Opening the covers



Locking and releasing Pan and Tilt movements - Refer to the instructions in the UNPACKING AND PREPARATION section. **Opening the head covers** - Fig. 10.

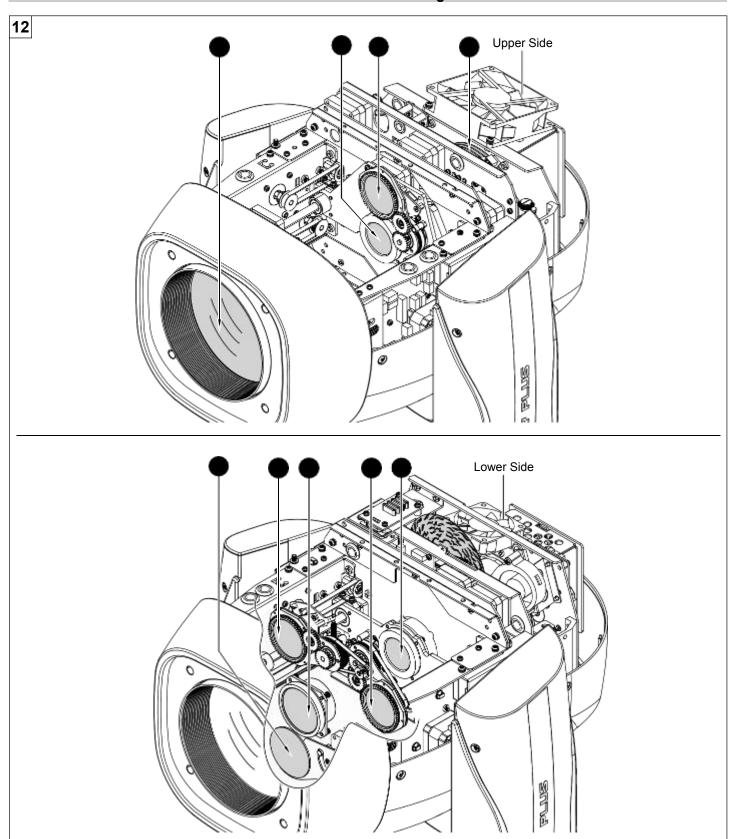
Closing the head covers - Fig. 11.

e-

5



3.2 Periodical cleaning



Periodical cleaning - Fig. 12

To ensure optimal operation and performance for a long time it is essential to periodically clean the parts subject to dust and grease deposits. The frequency with which the following operations are to be carried out depends on various factors, such as the amount of the effects and the quality of the working environment (air humidity, presence of dust, salinity, etc.).

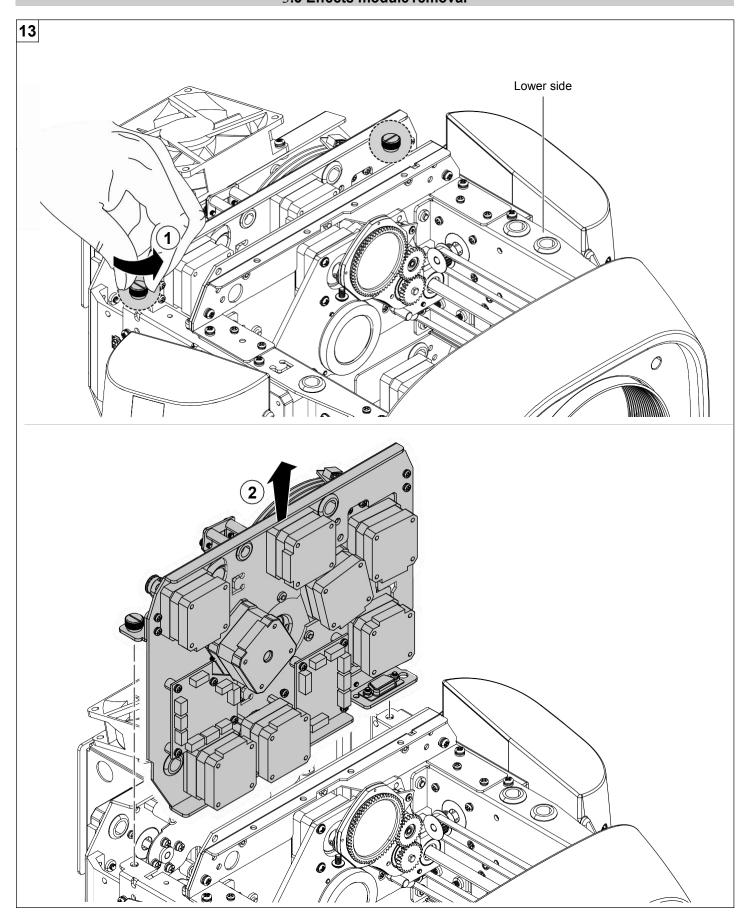
Use a soft cloth dampened with any detergent liquid for cleaning glass to remove the dirt from the reflectors, from the lenses and filters. It is recommended that the projector undergoes an annual service by a qualified technician for special maintenance involving at least the following operations:

- · General cleaning of internal parts.
- · Restoring lubrication of all parts subject to friction, using lubricants specifically supplied by Claypaky.
- General visual check of the internal components, cabling, mechanical parts, etc.
- Electrical, photometric and functional checks; eventual repairs.

NOTE: keep a careful cleaning of the "CMY/colour filters assembly" to prevent rapid deterioration.



3.3 Effects module removal



Extraction of the effect modules - Fig. 13.

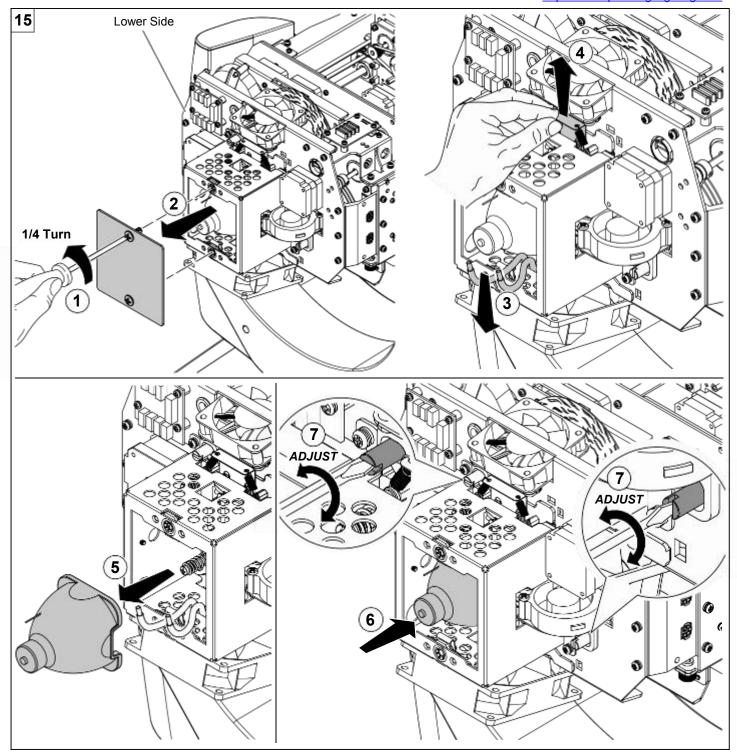
 $IMPORTANT: Grasp the modules using the support structure and not the details which could get damaged. \\Insertion of the effect modules: Repeat the operations indicated in Fig. 13, 14 and 15 in reverse order.$

NOTE:

- Do not disconnect wiring harnesses when the fixtures is switched-on, to avoid to damage electronic boards.
- Do not switch-on the fixtures with wiring harness disconnected.

Continue ->





Lamp change - Fig 15.

Take the new lamp out of its package and insert in the fitting.

WARNING: do not touch the lamp's envelope with bare hands. Should this happen, clean the bulb with a cloth soaked in alcohol and dry it with a clean, dry cloth.

Lamp regulation

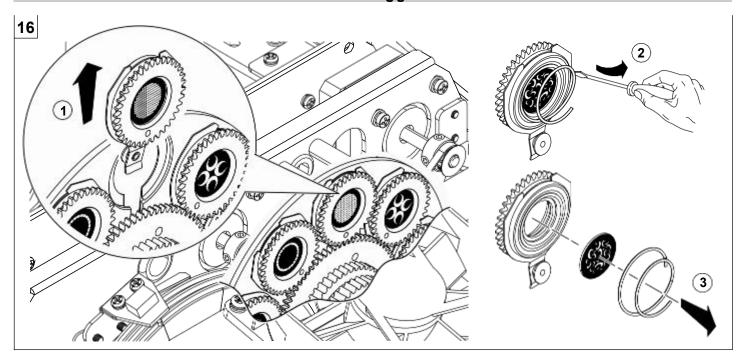
To centre the lamp, turn the adjusting screw as shown in the figure.

WARNING: The lamp must be adjusted with the projector switched off. After adjusting, close the effects covers, switch on the projector and check that the adjustment has been correctly made. If necessary, switch off the projector, remove the effects covers and repeat lamp adjustment. REMARK:

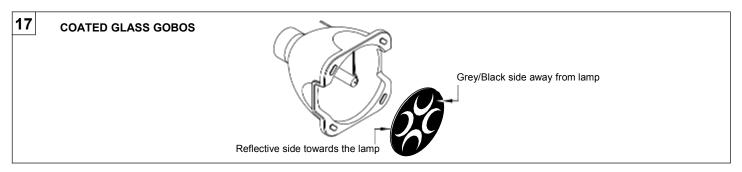
- Lifetime of the lamp will be influenced by the switching cycle.
- After a successful starting, attempt to keep the lamp burning for at least 15 minutes in order to complete the chemical cycle of the lamp to secure the lifetime.
- After switching-off the lamp wait at least 2 minutes before switching-on it again.



4.5-Rotating gobos

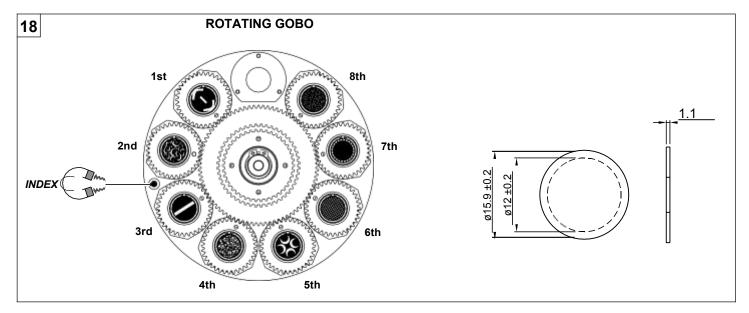


Bearing group replacement - Fig. 16



Gobo orientation - Fig. 17

The pictures shown the correct gobos orientation.



Replacing rotating gobos - Fig. 18

- Before use custom gobos contact US;
- The original gobos have a special coating designed specifically to resist to the high temperatures;
- The rotating gobo wheel only use dichroic glass gobos (it is not possible to use metal gobos);
- For more information contact US



5. SPECIFICATIONS

POWER SUPPLIES

AC powerinput 100-240V, 50/60 Hz

INPUT POWER

470 VA @230Vac - 50Hz

LIGHT SOURCE

Source: 371W HRI Sirius Osram arc lamp(optional USHIO 390W lamp

MOTORS

Stepper motors, operating with micro-steps, totally microprocessor controlled

CHANNELS

31 control channels

INPUTS

DMX 512 - Art-Net

IP RATING

IP 20 - Protected against the entry of solid bodies larger than 12mm (0.47"); No protection against the entry of liquids.

SAFETY SPECIFICATIONS

Minimum distance of illuminated objects 8 meters Minimum distance from flammable materials 0.2 meters

Max ambient temperature 40°C (104°F) Max temperature of the external surface 90°C (194°F)

Automatic break in power supply in case of overheating Forced ventilation with axial fans

ELECTRONICS

Long life self-charging buffer battery Function reset from the lighting desk "AUTOTEST" function from menu Electronic monitoring with status error Cooling system monitoring DMX level monitoring on all channels Internal data transmission diagnostics Firmware Upgrade via Web Server Firmware upload from another fixture Protocols/Functions: RDM, Web Server

OPTICS

Zoom 3°- 36°, Linear and motorized

EFFECTS SECTION

Six beam reducers (down to 0.5°) CMY color mixing 15 colors on 3 wheels 2 CTO filters

Rotating Gobo Wheel: 8 interchangeable glass gobos

Static Gobo Wheel: 18 fixed gobos
Rotating 4-facet prism on dedicated channel
Rotating 8-facet prism on dedicated channel
Dynamic Animation disc
Linear soft edge frost filter
Dimmer and stop/strobe
Dense, Sharp, Parallel Light Beams
Extremely quick movements
Excellent visual effect projections
Wide and sharp aerial effects

CONTROL AND PROGRAMMING

DMX 512 control channels Control signal USITT DMX 512 Protocols RDM, WebServer and Art-Net Display Graphic LCD backlit b/w Display Display battery Long life self-charging buffer battery

Pan/Tilt Resolution 16 bit Focus Resolution 16 bit Gobo Resolution 16 bit Dimmer Resolution 16 bit

DMX signal connection 5 pole XLR input and output Ethernet Input

Firmware update Software upload through Ethernet input

BOD

Aluminum and steel structure with plastic covers Two side handles for transportation Device locking PAN and TILT mechanisms for transportation and maintenance

MOVING BODY

PAN range 540° TILT range 270°

WORKING POSITION

Working in any position Hanging system: with fast-lockomegaclamps(1/4 turn) on the base

CE MARKING

In conformity with the European Directives:

- 2014/35/EU Safety of electrical equipment supplied at low voltage (LVD)
- 2014/30/EU Electromagnetic Compatibility (EMC)
- 2011/65/EU Restriction of the use of certain hazardous substances (RoHS)
- 2009/125/EC EcoDesign requirements for Energy-related Products (ErP)

WEIGHT & DIMENSIONS

23.0 Kg

Number	Function
1	CYAN
2	MAGENTA
3	YELLOW
4	COLOUR WHEEL 1
5	COLOUR WHEEL 2
6	COLOUR WHEEL 3
7	STOPPER / STROBE
8	DIMMER
9	DIMMER FINE
10	STATIC GOBO CHANGE
11	ANIMATION DISK INSERTION
12	ANIMATION DISK ROTATION
13	ROTATING GOBO SELECT
14	GOBO ROTATION
15	GOBO ROTATION FINE
16	4 FACET PRISMS INSERTION
17	PRISMS ROTATION
18	8 FACET PRISMS INSERTION
19	PRISMS ROTATION
20	FROST
21	ZOOM
22	FOCUS
23	FOCUS FINE
24	BEAM MODE
25	PAN
26	PAN FINE
27	TILT
28	TILT FINE
29	FUNCTION
30	RESET
31	LAMP CONTROL

Number	DMX Value	Function parameter
1		CYAN
	000 - 255	Linear Cyan movement
2		MAGENTA
<u></u>	000 - 255	Linear Magenta movement
3		YELLOW
2	000 - 255	Linear Yellow movement
		COLOUR WHEEL 1
	000 - 023	Empty position
	024 - 046	Empty + UV filter
	047 - 069	UV filter
	070 - 092	UV filter + Lavender
	093 - 115	Lavender
4	116 - 139	Lavender + CT0 3200K
	140 - 162	CT0 3200K
	163 - 185	CT0 3200K + CT0 2500K
	186 - 208	CT0 2500K
	209 - 231	CT0 2500K + Blue Wood
	232 - 255	Blue Wood
		COLOUR WHEEL 2
	000 - 023	Empty position
	024 - 046	Empty + Dark Green
	047 - 069	Dark Green
	070 - 092	Dark Green + CTB
5	093 - 115	CTB
	116 - 139	CTB + Dark Blue
	140 - 162	Dark Blue
	163 - 185	Dark Blue + H.M. Green
	186 - 208	H.M. Green
	209 - 231	H.M. Green + Dark Red
	232 - 255	Dark Red

Number	DMX Value	Function parameter
		COLOUR WHEEL 3
	000 - 023	Empty position
	024 - 046	Empty + Light Green
	047 - 069	Light Green
	070 - 092	Light Green + Pink
e	093 - 115	Pink
6	116 - 139	Pink + Aquamarine
	140 - 162	Aquamarine
	163 - 185	Aquamarine + Dark Orange
	186 - 208	Dark Orange
	209 - 231	Dark Orange + Light Orange
	232 - 255	Light Orange
		STOP / STROBE
	000 - 003	Light OFF
	004 - 103	Strobe at linearly variable frequency from low (1 flash/sec) to high (12 flashes/sec)
	104 - 107	Light ON
7	108 - 207	Pulsation at linearly variable speed from slow (0.5 flash/sec) to fast (12 flashes/sec)
	208 - 212	Light ON
	213 - 225	Random Strobe at low frequency
	226 - 238	Random Strobe at medium frequency
	239 - 251	Random Strobe at high frequency
	252 - 255	Light ON
8		DIMMER
	000 - 255	Light output linearly increase from no-light to maximum brightness
9		DIMMER FINE
	000 - 255	Fine Dimmer positioning

Number	DMX Value	Function parameter
		STATIC GOBO CHANGE
	000 - 003	Empty position
	004 - 007	Gobo 1 18 1
	008 - 011	Gobo 2
	012 - 014	Gobo 3 17 2
	015 - 018	Gobo 4
	019 - 022	Gobo 5 16 3
	023 - 026	Gobo 6
	027 - 029	Gobo 7 15
	030 - 033	Gobo 8
	034 - 037	Gobo 9
	038 - 041	Gobo 10 14 5
	042 - 044	Gobo 11
	045 - 048	Gobo 12
	049 - 052	Gobo 13 13 6
	053 - 056	Gobo 14
	057 - 059	Gobo 15 Gobo 16 12
	060 - 063	GODO 16
	064 - 067	Gobo 17 11 8
4.0	068 - 071	Gobo 18 10 9
10	072 - 113	Continuous CCW rotation at linearly variable speed from fast to slow
	114 - 117	Stop rotation
	118 - 159	Continuous CW rotation at linearly variable speed from slow to fast
	160 - 165	Gobo 1 shakes at variable speed from slow to fast
	166 - 170	Gobo 2 shakes at variable speed from slow to fast
	171 - 175	Gobo 3 shakes at variable speed from slow to fast
	176 - 181	Gobo 4 shakes
	182 - 186	Gobo 5 shakes
	187 - 191 192 - 196	Gobo 6 shakes Gobo 7 shakes
	197 - 202	Gobo 8 shakes
	203 - 207	Gobo 9 shakes
	208 - 212	Gobo 10 shakes
	213 - 218	Gobo 11 shakes
	219 - 223	Gobo 12 shakes
	224 - 228	Gobo 13 shakes
	229 - 233	Gobo 14 shakes
	234 - 239	Gobo 15 shakes
	240 - 244	Gobo 16 shakes
	245 - 249	Gobo 17 shakes
	250 - 255	Gobo 18 shakes
สส		ANIMATION DISK INSERTION
11	000 - 255	Linear Animation Disk Insertion
		ANIMATION DISK ROTATION
	000 - 004	Stop rotation
12	005 - 127	Continuous CCW rotation at linearly variable speed from slow to fast
	128 - 132	Stop rotation
	133 - 255	Continuous CW rotation at linearly variable speed from slow to fast

Number	DMX Value	Function parameter
		ROTATING GOBO SELECT
	000 - 007	Empty position
	008 - 015	Gobo 1
	016 - 023	Gobo 2
	024 - 031	Gobo 3
	032 - 039	Gobo 4
13	040 - 047	Gobo 5
	048 - 055	Gobo 6
	056 - 063	Gobo 7
	064 - 071	Gobo 8
	072 - 113	Continuous CCW rotation at linearly variable speed from fast to slow
	114 - 117	Stop rotation
	118 - 159	Continuous CW rotation at linearly variable speed from slow to fast
	160 - 171	Gobo 1 shakes at variable speed from slow to fast
	172 - 183	Gobo 2 shakes at variable speed from slow to fast
	184 - 195	Gobo 3 shakes at variable speed from slow to fast
	196 - 207	Gobo 4 shakes at variable speed from slow to fast
	208 - 219	Gobo 5 shakes at variable speed from slow to fast
	220 - 231	Gobo 6 shakes at variable speed from slow to fast
	232 - 243	Gobo 7 shakes at variable speed from slow to fast
	244 - 255	Gobo 8 shakes at variable speed from slow to fast

Number	DMX Value	Function parameter
14		GOBO ROTATION
	000 - 021	Gobo indexing CW: 0° to 90° range
	021 - 042	Gobo indexing CW: 90° to 180° range
	042 - 063	Gobo indexing CW: 180° to 270° range
	063 - 084	Gobo indexing CW: 270° to 360° range
043	084 - 105	Gobo indexing CW: 360° to 450° range
	105 - 127	Gobo indexing CW: 450° to 540° range
	128 - 190	Continuous gobo rotation CW at linearly variable speed from fast to slow
	191 - 192	Stop rotation
	193 - 255	Continuous gobo rotation CCW at linearly variable speed from slow to fast
15	200 055	GOBO ROTATION FINE
	000 - 255	Fine Gobo Indexing CW
40		4 FACET PRISM INSERTION
16	000 - 127	Prism out
	128 - 255	4-facet Prism into the light beam
	000 004	4 FACET PRISM ROTATION
	000 - 021	Prism indexing CW: 0° to 90° range
	021 - 042	Prism indexing CW: 90° to 180° range
	042 - 063	Prism indexing CW: 180° to 270° range
17	063 - 084	Prism indexing CW: 270° to 360° range
	084 - 105	Prism indexing CW: 360° to 450° range
	105 - 127	Prism indexing CW: 450° to 540° range
	128 - 190 191 - 192	Continuous CW rotation at linearly variable speed from fast to slow Stop rotation
	191 - 192	·
	193 - 255	Continuous CCW rotation at linearly variable speed from slow to fast 8 FACET PRISM INSERTION
40	000 407	
18	000 - 127 128 - 255	Prism out
	120 - 200	8-facet Prism into the light beam 8 FACET PRISM ROTATION
	000 - 021	Prism indexing CW: 0° to 90° range
	021 - 042	Prism indexing CW: 0 to 90 range
	042 - 063	Prism indexing CW: 90 to 180 range Prism indexing CW: 180° to 270° range
	063 - 084	Prism indexing CW: 180° to 270° range
19	084 - 105	Prism indexing CW: 270 to 360 Tange Prism indexing CW: 360° to 450° range
	105 - 127	Prism indexing CW: 350° to 450° range
	128 - 190	Continuous prism rotation CW at linearly variable speed from fast to slow
	191 - 192	Stop rotation
	193 - 255	Continuous prism rotation CCW at linearly variable speed from slow to fast
20	100 200	FROST
	000 - 255	Frost blades moves linearly from no-diffusion to maximum diffusion
21	300 200	ZOOM
	000 - 255	Zoom linearly moves from narrow to wide beam
22 23		FOCUS
	000 - 255	Focus moves linearly from far to near position
		FOCUS FINE
	000 - 255	Fine Focus positioning

Number	DMX Value	Function parameter
24		BEAM MODE
	000 - 127	Spot mode
	128 - 255	Beam mode
25		PAN
40	000 - 255	Pan movement/positioning CCW
26		PAN FINE
20	000 - 255	Fine Pan positioning CCW
27		TILT
25 ()	000 - 255	Tilt movement/positioning CW
28		TILT FINE
250	000 - 255	Fine Tilt positioning
	000 440	FUNCTION
	000 - 110	Free
	111 - 120 121 - 130	Standard CMY speed
	131 - 130	Fast CMY speed Free
200	161 - 170	Display OFF
29	171 - 180	Display ON
	181 - 190	Dimmer Curve 1
	191 - 200	Dimmer Curve 2
	201 - 255	Free
		re activated/selected staying in the necessary range for 3 seconds
		RESET
	000 - 025	Free
88	026 - 076	Effects Reset The sequence is activated staying in this range for 5 seconds
30	077 - 127	Pan / Tilt Reset The sequence staying in this range for 5 seconds
	128 - 255	Complete Reset The sequence staying in this range for 5 seconds
31		LAMP CONTROL
	000 - 025	Free
	026 - 100	Lamp OFF staying in this range for 3 seconds
	101 - 255	Lamp ON staying in this range for 3 seconds IMPORTANT: SHARPY PLUS is not provided with hot re-strike igniter After switching-off the lamp wait at least 2 minutes before switching-
		on it again

IMPORTANT NOTES

After switching-off the lamp wait at least 2 minutes before switching-on it again

To prevent accidental breakage of the effects, which could collide with each others during transport, before switching the projector OFF, check that all the fixture Channels have been excluded (DMX level = 0 bit.).

Switch-Off' the lamp few minutes before to turn off the fixture.