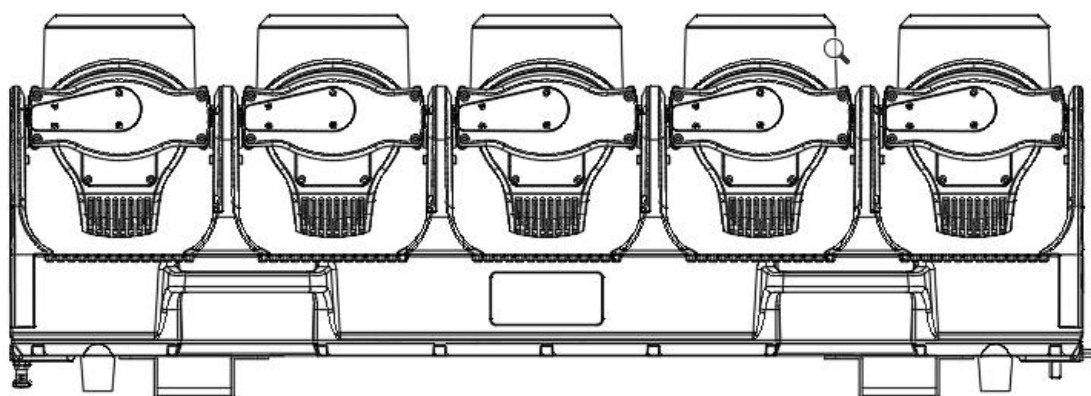




User Manual

Please read the instructions carefully before use

Contents

1. Safety Instructions	1
2. Product Introduction	3
2.1 Product Dimension	4
2.2 Photometric Diagram	4
3. Lighting installation	5
4. Control Panel	7
5. Control By Universal DMX Controller	9
5.1 DMX512 Connection	9
5.2 Address Setting	10
5.3 DMX Channel	11
6. Troubleshooting	33
7. Equipment cleaning	33

1. Safety Instructions

Important:

Damages caused by the disregard of this user manual are not subject to warranty. The dealer will not accept liability for any resulting defects or problems.

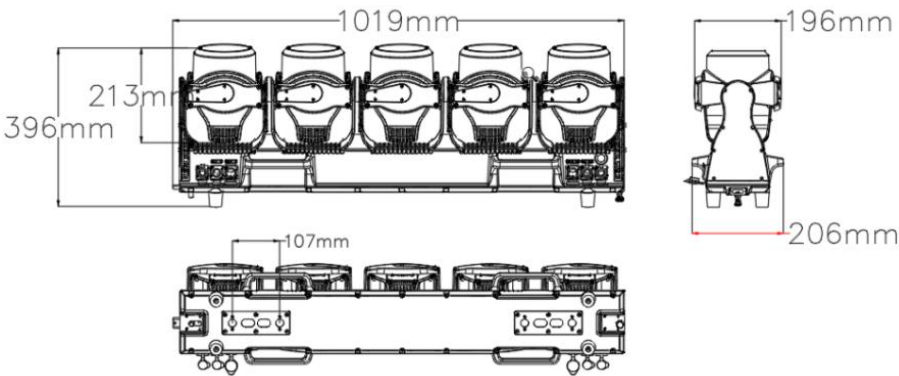
- Unpack and check carefully to ensure that there is no transportation damage before using the unit
- The equipment is suitable for dry and humid environments, with a protection grade of IP66. The lamps should be kept clean and should be cleaned and maintained regularly.
- Eligible professionals may install, operate, and maintain lighting equipment, and ensure that operations are strictly carried out in accordance with the procedures described in this manual.
- When securing equipment, use safe ropes. When moving lighting fixtures, please also support the bottom.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces.
- Make sure the power voltage before operation matches the power voltage required by the device.
- Each lighting fixture should be safely grounded and installed in accordance with relevant standards to prevent electric shock.
- Minimum ambient temperature TA: -10°C. Maximum ambient temperature TA: 40°C. Do not operate this product at a lower or higher temperature.
- During initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective, and it will decrease gradually within 15 minutes.
- Do not place flammable items next to the lighting when in operation to prevent fire hazards.
- Do not use power cables with damaged insulation, and do not place the power cable on other conductors. When the lighting is not in use or being cleaned, please unplug the power cable, do not pull or tug the power cable forcefully.
- Unit's surface temperature may reach up to 85°C. DO NOT touch the housing bare-handed during its operation.
- Avoid any flammable liquids, water or metal from entering the unit. Once it happens, cut off the mains power immediately.
- Do not touch the wires when the lighting is operating to prevent electric shock.

- The distance between the lighting and the illuminated surface should be greater than 12 meters.
- No available parts inside the lighting fixture,do not open the fixture shell arbitrarily.
- Machine failure occurred, please stop using it immediately. Non-professional technicians are not allowed to repair it themselves
- Please use the original packaging materials when transportation is required again.
- Replace the light bulb in a timely manner when it is damaged,warped due to heat, or exceeds its service life.
- Do not stare directly at the lights when they are in operation.

2. Product Introduction

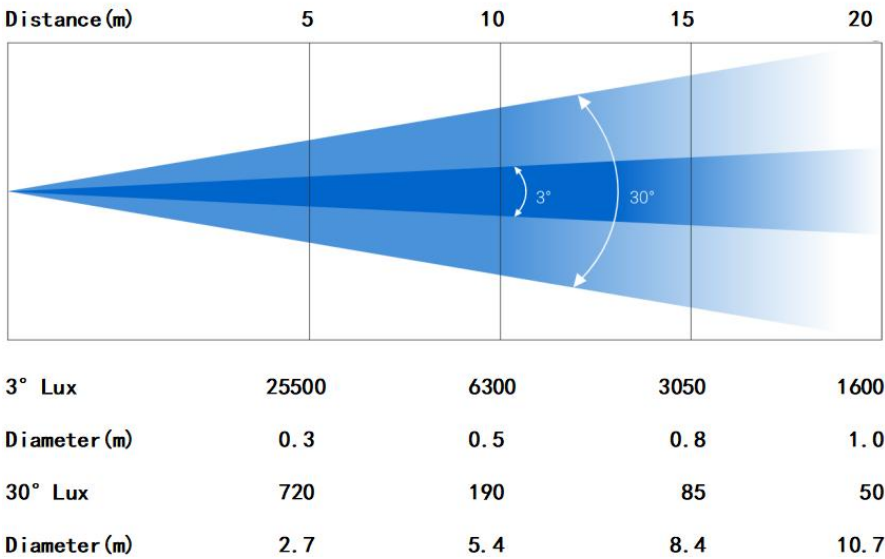
Technical specification table	
Power Voltage	AC100V-240V 50/60HZ
Power Consumption	660W
Light Source	5×120W RGBW LED
Iris	120×0.5W RGB LED
Light source lifespan	20000 hours*Data provided by the light source supplier
Beam angle	3°-30°
Field Angle	4°-35°
Luminous Flux	12000 lumens
PAN scan	59°
TILT scan	221°
CCT	Linear 2500K-8000K
Strobe	1-25Hz, various strobe effects
Dimming	0-100% smooth dimming
Cooling Fan	Mute Fan, Variable Speed
Power connection	Waterproof power connector in/out
DMX connection	3-pin/5-pin XLR socket, RJ45
Working temperature	-10℃～+40℃
Dimensions	1019*396*206mm
Weight	27.5kg
Protection Rating	IP66
Shell	All-magnesium alloy body with black baked finish
Control Mode	DMX512,RDM,Art-Net
DMX Channel	21CH/41CH/71CH/75CH/85CH/170CH
Display	LCD Display with 4 Touch Buttons

2.1 Product Dimension

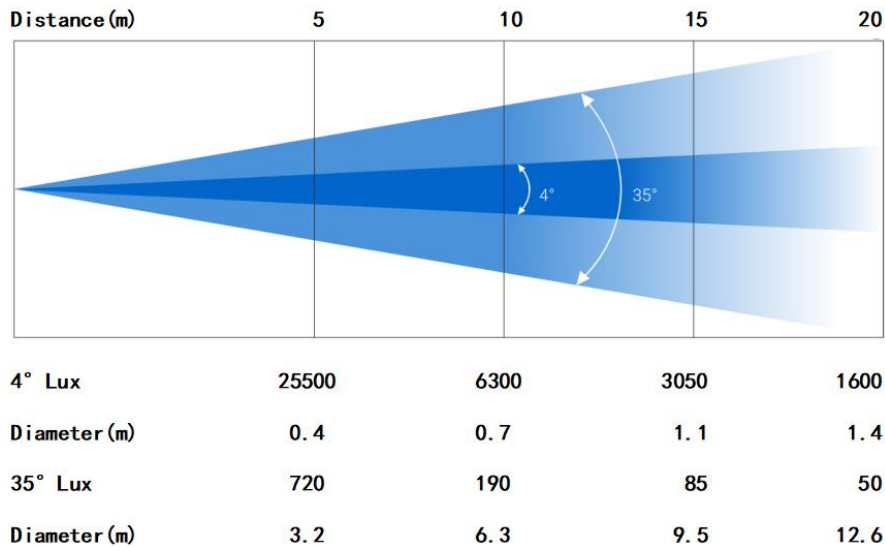


2.2 Photometric Diagram

Beam Angle:

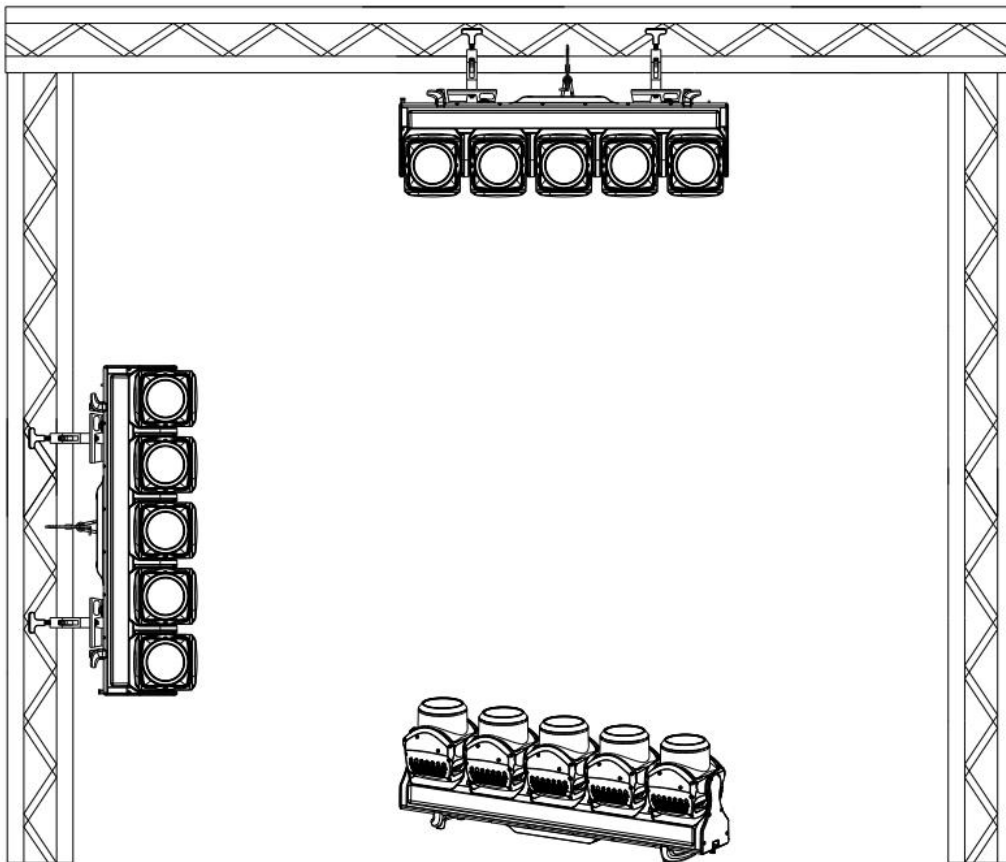


Field Angle:

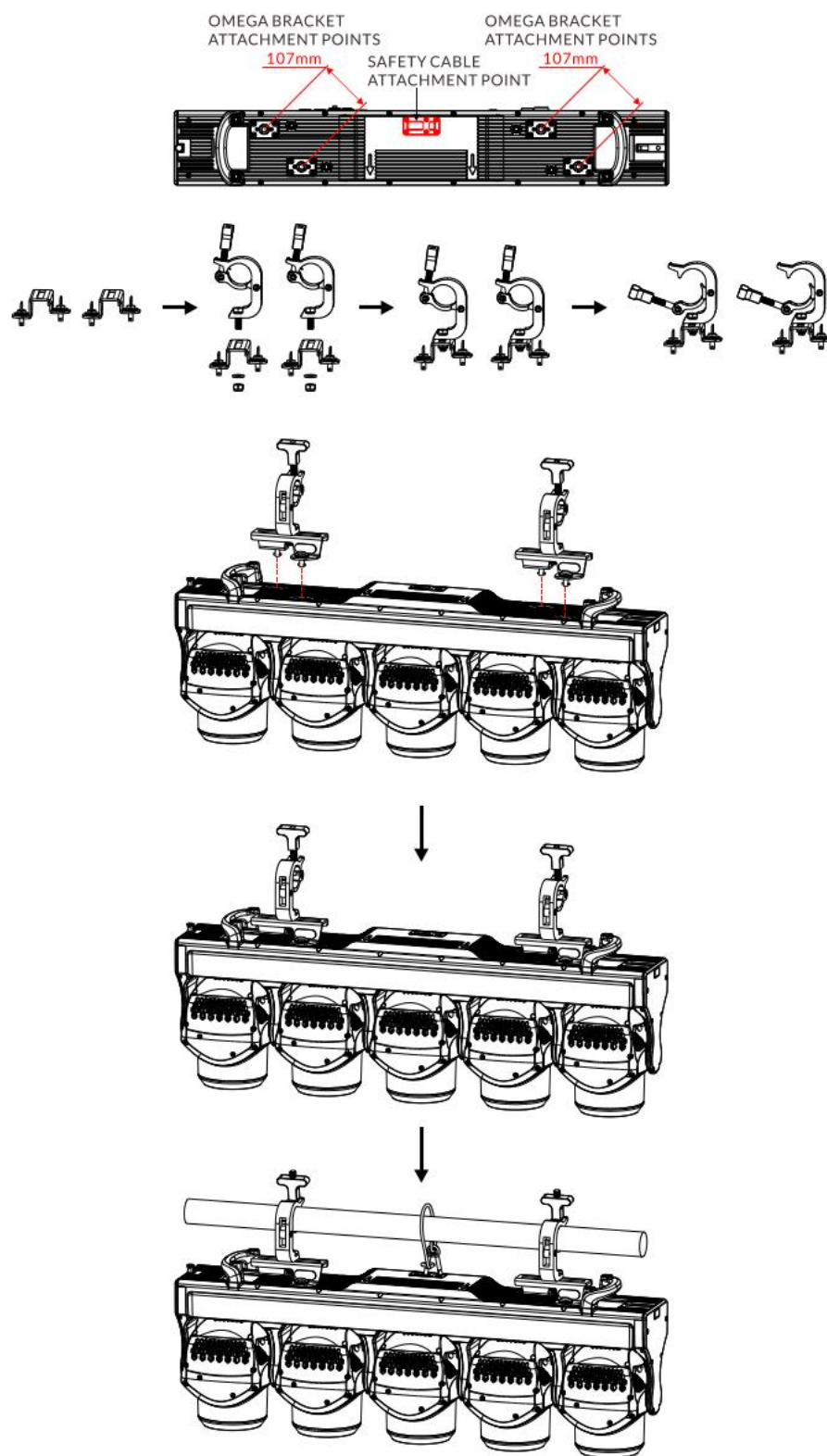


3. Lighting installation

1. The installation of the equipment should be carried out by professionals, and the area where the lighting fixtures may be accessible to unauthorized personnel should be kept away. Do not stand directly below the lighting fixtures when assembling, disassembling, or repairing them.
2. When installing lighting fixtures, make sure they are securely installed to prevent them from shaking and falling off during operation. Also, ensure that the structure used to fix the lighting fixtures can support 10 times the weight of the fixtures without deforming. At the same time as installing the lighting fixtures, use a safety rope that can support 12 times the weight of the fixtures to ensure that the fixtures will not fall off if the clamp fails.
3. This lamp is fully operable in three different installation positions: suspended, hanging, or placed on a flat horizontal surface. Always use and install the attached safety rope as a safety measure to prevent the lamp from being accidentally damaged or causing personal injury when the fixture fails.

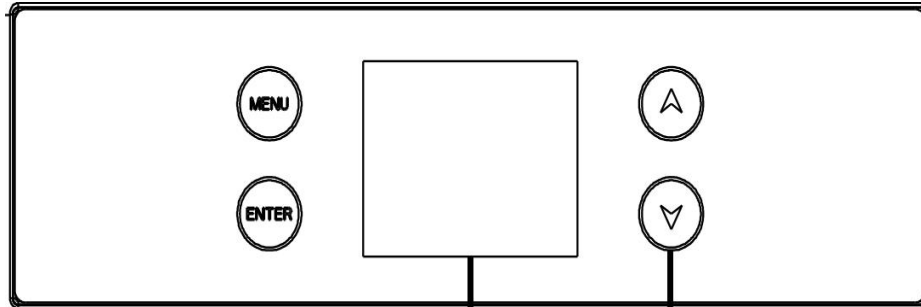


Hanging the Fixture



4. Control Panel

To unlock for the first use, press [MENU] to enter the unlock interface. Press [▲UP] and [▼DOWN] in sequence to enter the password 1234, then press [ENTER] to unlock.



MENU	Enter the menu function
▲UP	To go backward to move up in the menu
▼DOWN	To go forward to move down in the menu
ENTER	To perform the desired functions

Main Menu Functions of the Display Panel

Main Menu	Address Setting	001 - 512	
	Fixture Settings	Channel Mode	21CH/41CH/71CH/75CH/85CH/170CH
		Operating Mode	DMX / Auto Run
		Horizontal Reverse	On / Off
		Vertical Reverse	On / Off
		Fan Control	Quiet/Low Speed/Medium Speed/High Speed
		Dimming Curve	Linear/Reverse Exponential/Exponential/S-Curve
		Quick Blackout	On / Off
		No DMX Status	Clear / Hold
		LED Refresh Rate	900Hz/5000Hz/...../15KHz/20KHz/25K Hz
	Manual Control	Pan 1	000 - 255
		Pan 1 Fine	000 - 255
		Tilt 1	000 - 255
		Tilt 1 Fine	000 - 255
			
	Fixture Information	Time Information	Turn-On Time
			Total Time
			Power-On Count
		Sensor Detection	Tilt 1
			Pan 1
			Zoom 1

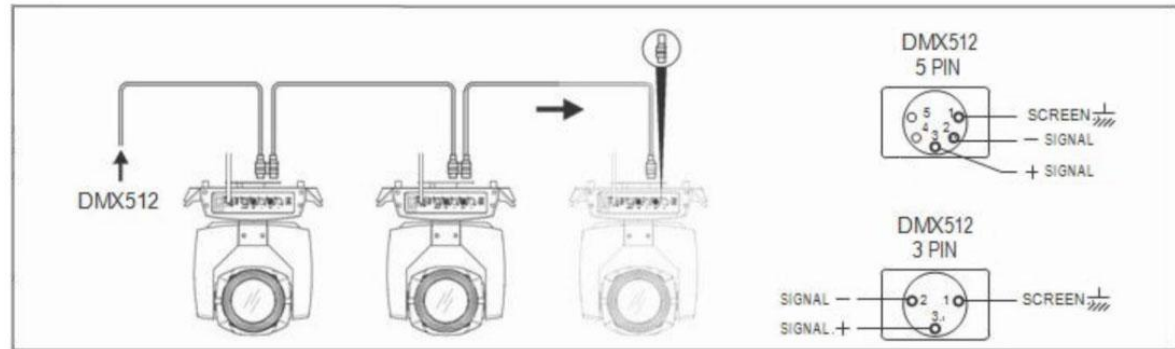
			Temperature 1
			
		Temperature Info	Head 1 Temperature
			Head 2 Temperature
			Head 3 Temperature
			Head 4 Temperature
			Head 5 Temperature
		Software Version	Display Version
			Motor Version
			Dimmer Version 1
			Dimmer Version 2
			Dimmer Version 3
			Dimmer Version 4
			Dimmer Version 5
	Factory Settings	Password Input	000 - 255
		Tilt 1 Calibration	000 - 255
		Pan 1 Calibration	000 - 255
		Zoom 1 Calibration	000 - 255
		Tilt 2 Calibration	000 - 255
		Pan 2 Calibration	000 - 255
			
			
	Fixture Reset	Reset All	Enter / Cancel
		Factory Settings	Enter / Cancel
	Display Settings	Language Settings	Chinese / English
		Display Reverse	Normal / Reverse
		Display Mode	60s / Always Lit

This product uses IP65 waterproof power cable IN/OUT

Note: Due to power reasons, a 1.5 square millimeter power cable can only power a maximum of 4 units (230V), and 120V can only power a maximum of 2 units

5. Control By Universal DMX Controller

5.1 DMX512 Connection



DMX signal line connection diagram

- At last unit, the DMX cable has to be terminated with a terminator. Solder a 120-ohm 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-output of the last unit.
- Connect the unit together in a “daisy chain” by XLR plug cable from the output of the unit to the input of the next unit. The cable can only be used in series and cannot be connected in parallel. DMX 512 is a very high-speed signal. Inadequate or damaged cables, soldered joints or corroded connectors can easily distort the signal and shut down the system.
- The DMX output and input connectors are pass-through to maintain the DMX circuit, when one of the units’ power is disconnected.
- Each lighting unit needs to have a DMX address to receive the data by the controller. The address number is between 1-512.
- Each lighting unit needs to have a DMX address to receive the data by the controller. The address number is between 1-512.
- 3 pin XLR connectors are more popular than 5 pins XLR.

3 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)

5 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+), Pin4, Pin5 not used.

5.2 Address Setting

If you use a universal DMX controller to control the units, you have to set DMX address from 1 to 512 so that the units can receive DMX signal.

Press the MENU button to enter the main menu, select DMX settings, press the ENTER button to confirm, use the UP/DOWN buttons to select the address code (1-512), and press the ENTER button to save.

Please refer to the following diagram to address your DMX512 channel for the first 4 units.=

Channel	Address	Unit 1 Address	Unit 2 Address	Unit 3 Address	Unit 4 Address
21CH	001-021	001	022	043	064
41CH	001-041	001	042	083	124
71CH	001-071	001	072	143	214
75CH	001-075	001	076	151	226
85CH	001-085	001	086	171	256
170CH	001-170	001	171	341	511

5.3 DMX Channel

21 CH (Mode 1):		
CHANNEL	VALUE	FUNCTION
1	000-255	PAN 0°→59°
2	000-255	PAN 1 FINE
3	000-255	TILT 0°→221°
4	000-255	TILT 1 FINE
5	000-255	ZOOM 1 Wide→Narrow
6	000-255	RED 0%→100%
7	000-255	GREEN 0%→100%
8	000-255	BLUE 0%→100%
9	000-255	LED LIME 0%→100%
10		LED CCT
	000	Null
	001-004	8000K
	005-009	7900K
	010-013	7800K
	014-018	7700K
	019-022	7600K
	023-027	7500K
	028-031	7400K
	032-036	7300K
	037-040	7200K
	041-045	7100K
	046-049	7000K
	050-054	6900K
	055-058	6800K
	059-063	6700K
	064-067	6600K
	068-072	6500K
	073-076	6400K
	077-081	6300K
	082-085	6200K
	086-090	6100K
	091-094	6000K
	095-099	5900K
	100-103	5800K
	104-108	5700K
	109-112	5600K
	113-117	5500K
	118-121	5400K
	122-126	5300K

	127-130	5200K
	131-135	5100K
	136-139	5000K
	140-144	4900K
	145-148	4800K
	149-153	4700K
	154-157	4600K
	158-162	4500K
	163-166	4400K
	167-171	4300K
	172-175	4200K
	176-180	4100K
	181-184	4000K
	185-189	3900K
	190-193	3800K
	194-198	3700K
	199-202	3600K
	203-207	3500K
	208-211	3400K
	212-216	3300K
	217-220	3200K
	221-225	3100K
	226-229	3000K
	230-234	2900K
	235-238	2800K
	239-243	2700K
	244-247	2600K
	248-255	2500K
11		LED COLOR
	000-009	Null
	010-016	LEE 790 – Moroccan Pink
	017-023	LEE 157 – Pink
	024-030	LEE 332 – Special Rose Pink
	031-037	LEE 328 – Follies Pink
	038-044	LEE 345 – Fuchsia Pink
	045-051	LEE 194 – Surprise Pink
	052-058	LEE 181 – Congo Blue
	059-065	LEE 071 – Tokyo Blue
	066-072	LEE 120 – Deep Blue
	073-079	LEE 079 – Just Blue
	080-086	LEE 132 – Medium Blue
	087-093	LEE 200 – Double CT Blue
	094-100	LEE 161 – State Blue

	101-107	LEE 201 – Full CT Blue
	108-114	LEE 202 – Half CT Blue
	115-121	LEE 117 – Steel Blue
	122-128	LEE 353 – Lighter Blue
	129-135	LEE 118 – Light Blue
	136-142	LEE 116 – Medium Blue Green
	143-149	LEE 124 – Dark Green
	150-156	LEE 139 – Primary Green
	157-163	LEE 089 – Moss Green
	164-170	LEE 122 – Fern Green
	171-177	LEE 738 – JAS Green
	178-184	LEE 088 – Lime Green
	185-191	LEE 100 – Spring Yellow
	192-198	LEE 104 – Deep Amber
	199-205	LEE 179 – Chrome Orange
	206-212	LEE 105 – Orange
	213-219	LEE 021 – Gold Amber
	220-226	LEE 778 – Millennium Gold
	227-233	LEE 135 – Deep Gold Amber
	234-255	LEE 164 – Flame Red
12	000-255	RING RED 0%→100%
13	000-255	RING GREEN 0%→100%
14	000-255	RING BLUE 0%→100%
15		RING MACRO EFFECT & SPEED
	000-015	Null
	016-031	Macro Effect 1, Fast to Slow
	032-047	Macro Effect 2, Fast to Slow
	048-063	Macro Effect 3, Fast to Slow
	064-079	Macro Effect 4, Fast to Slow
	080-095	Macro Effect 5, Fast to Slow
	096-111	Macro Effect 6, Fast to Slow
	112-127	Macro Effect 7, Fast to Slow
	128-143	Macro Effect 8, Fast to Slow
	144-159	Macro Effect 9, Fast to Slow
	160-175	Macro Effect 10, Fast to Slow
	176-191	Macro Effect 11, Fast to Slow
	192-207	Macro Effect 12, Fast to Slow
	208-223	Macro Effect 13, Fast to Slow
	224-239	Macro Effect 14, Fast to Slow
	240-255	Macro Effect 15, Fast to Slow
16	000-255	DIMMER 0%→100%
17	000-255	DIMMER FINE
18		LED STROBE

	000-007	Close
	008-015	Open
	016-131	Strobe from Slow to Fast
	132-139	Open
	140-181	Fast Open Slow Close from Slow to Fast
	182-189	Open
	190-231	Slow Open Fast Close from Slow to Fast
	232-239	Open
	240-247	Random Strobe from Slow to Fast
	248-255	Open
19		RING STROBE
	000-007	Close
	008-015	Open
	016-131	Strobe from Slow to Fast
	132-139	Open
	140-181	Fast Open Slow Close from Slow to Fast
	182-189	Open
	190-231	Slow Open Fast Close from Slow to Fast
	232-239	Open
	240-247	Random Strobe from Slow to Fast
	248-255	Open
20	000-255	PAN/TILT SPEED Fast to Slow
21		FUNCTION
		(To activate following functions, stop in
		DMX value for at least 3 seconds.)
	000-029	Null
	030-039	Dimmer Curve: Linear
	040-049	Dimmer Curve: Square Law
	050-059	Dimmer Curve: Inv SQ Law
	060-069	Dimmer Curve: S Curve
	070-079	Fan Mode: Standard
	080-089	Fan Mode: Quiet
	090-099	Null
	100-109	Led Frequency Setting Enable
	110-119	Led Frequency Setting Disable
	120-122	Null
	123	900Hz
	124	1000Hz
	125	1100Hz
	126	1200Hz
	127	1300Hz
	128	1400Hz

	129	1500Hz
	130	2500Hz
	131	4000Hz
	132	5000Hz
	133	6000Hz
	134	10KHz
	135	15KHz
	136	20KHz
	137	25KHz
	138-139	Null
	140-149	Pan/Tilt Reset
	150-159	Effect Reset
	160-169	Head Invert: Yes
	170-179	Head Invert: No
	180-189	CCT Calibration: On
	190-199	CCT Calibration: Off
	200-209	All Reset
	210-219	Dimmer Speed: Fast
	220-229	Dimmer Speed: Smooth
	230	Dimming Start Mode: High
	231	DimmingStart Mode: Low
	232-233	InvertPixel Order: Yes
	234-235	Invert Pixel Order: No
	236-237	Pan Invert: Yes
	238-239	Pan Invert: No
	240-241	Tilt Invert: Yes
	242-243	Tilt Invert: No
	244-255	Nul

41 CH (Mode 2):

CHANNEL	VALUE	FUNCTION
1	000-255	PAN 1 0°→59°
2	000-255	PAN 1 FINE
3	000-255	TILT 1 0°→221°
4	000-255	TILT 1 FINE
5	000-255	ZOOM 1 Wide→Narrow
6	000-255	PAN 2 0°→59°
7	000-255	PAN 2 FINE
8	000-255	TILT 2 0°→221°
9	000-255	TILT 2 FINE
10	000-255	ZOOM 2 Wide→Narrow
11	000-255	PAN 3 0°→59°
12	000-255	PAN 3 FINE
13	000-255	TILT 3 0°→221°

14	000-255	TILT 3 FINE
15	000-255	ZOOM 3 Wide→Narrow
16	000-255	PAN 4 0°→59°
17	000-255	PAN 4 FINE
18	000-255	TILT 4 0°→221°
19	000-255	TILT 4 FINE
20	000-255	ZOOM 4 Wide→Narrow
21	000-255	PAN 5 0°→59°
22	000-255	PAN 5 FINE
23	000-255	TILT 5 0°→221°
24	000-255	TILT 5 FINE
25	000-255	ZOOM 5 Wide→Narrow
26	000-255	LED RED 0%→100%
27	000-255	LED GREEN 0%→100%
28	000-255	LED BLUE 0%→100%
29	000-255	LED LIME 0%→100%
30		LED CCT
	000	Null
	001-004	8000K
	005-009	7900K
	010-013	7800K
	014-018	7700K
	019-022	7600K
	023-027	7500K
	028-031	7400K
	032-036	7300K
	037-040	7200K
	041-045	7100K
	046-049	7000K
	050-054	6900K
	055-058	6800K
	059-063	6700K
	064-067	6600K
	068-072	6500K
	073-076	6400K
	077-081	6300K
	082-085	6200K
	086-090	6100K
	091-094	6000K
	095-099	5900K
	100-103	5800K
	104-108	5700K
	109-112	5600K

	113-117	5500K
	118-121	5400K
	122-126	5300K
	127-130	5200K
	131-135	5100K
	136-139	5000K
	140-144	4900K
	145-148	4800K
	149-153	4700K
	154-157	4600K
	158-162	4500K
	163-166	4400K
	167-171	4300K
	172-175	4200K
	176-180	4100K
	181-184	4000K
	185-189	3900K
	190-193	3800K
	194-198	3700K
	199-202	3600K
	203-207	3500K
	208-211	3400K
	212-216	3300K
	217-220	3200K
	221-225	3100K
	226-229	3000K
	230-234	2900K
	235-238	2800K
	239-243	2700K
	244-247	2600K
	248-255	2500K
31		LED COLOR
	000-009	Null
	010-016	LEE 790 – Moroccan Pink
	017-023	LEE 157 – Pink
	024-030	LEE 332 – Special Rose Pink
	031-037	LEE 328 – Follies Pink
	038-044	LEE 345 – Fuchsia Pink
	045-051	LEE 194 – Surprise Pink
	052-058	LEE 181 – Congo Blue
	059-065	LEE 071 – Tokyo Blue
	066-072	LEE 120 – Deep Blue
	073-079	LEE 079 – Just Blue

	080-086	LEE 132 – Medium Blue
	087-093	LEE 200 – Double CT Blue
	094-100	LEE 161 – State Blue
	101-107	LEE 201 – Full CT Blue
	108-114	LEE 202 – Half CT Blue
	115-121	LEE 117 – Steel Blue
	122-128	LEE 353 – Lighter Blue
	129-135	LEE 118 – Light Blue
	136-142	LEE 116 – Medium Blue Green
	143-149	LEE 124 – Dark Green
	150-156	LEE 139 – Primary Green
	157-163	LEE 089 – Moss Green
	164-170	LEE 122 – Fern Green
	171-177	LEE 738 – JAS Green
	178-184	LEE 088 – Lime Green
	185-191	LEE 100 – Spring Yellow
	192-198	LEE 104 – Deep Amber
	199-205	LEE 179 – Chrome Orange
	206-212	LEE 105 – Orange
	213-219	LEE 021 – Gold Amber
	220-226	LEE 778 – Millennium Gold
	227-233	LEE 135 – Deep Gold Amber
	234-255	LEE 164 – Flame Red
32	000-255	RING RED 0%→100%
33	000-255	RING GREEN 0%→100%
34	000-255	RING BLUE 0%→100%
35		RING MACRO EFFECT & SPEED
	000-015	Null
	016-031	Macro Effect 1, Fast to Slow
	032-047	Macro Effect 2, Fast to Slow
	048-063	Macro Effect 3, Fast to Slow
	064-079	Macro Effect 4, Fast to Slow
	080-095	Macro Effect 5, Fast to Slow
	096-111	Macro Effect 6, Fast to Slow
	112-127	Macro Effect 7, Fast to Slow
	128-143	Macro Effect 8, Fast to Slow
	144-159	Macro Effect 9, Fast to Slow
	160-175	Macro Effect 10, Fast to Slow
	176-191	Macro Effect 11, Fast to Slow
	192-207	Macro Effect 12, Fast to Slow
	208-223	Macro Effect 13, Fast to Slow
	224-239	Macro Effect 14, Fast to Slow
	240-255	Macro Effect 15, Fast to Slow

36	000-255	DIMMER 0%→100%
37	000-255	DIMMER FINE
38		LED STROBE
	000-007	Close
	008-015	Open
	016-131	Strobe from Slow to Fast
	132-139	Open
	140-181	Fast Open Slow Close from Slow to Fast
	182-189	Open
	190-231	Slow Open Fast Close from Slow to Fast
	232-239	Open
	240-247	Random Strobe from Slow to Fast
	248-255	Open
39		RING STROBE
	000-007	Close
	008-015	Open
	016-131	Strobe from Slow to Fast
	132-139	Open
	140-181	Fast Open Slow Close from Slow to Fast
	182-189	Open
	190-231	Slow Open Fast Close from Slow to Fast
	232-239	Open
	240-247	Random Strobe from Slow to Fast
	248-255	Open
40	000-255	PAN/TILT SPEED Fast to Slow
41		FUNCTION
		(To activate following functions, stop in
		DMX value for at least 3 seconds.)
	000-029	Null
	030-039	Dimmer Curve: Linear
	040-049	Dimmer Curve: Square Law
	050-059	Dimmer Curve: Inv SQ Law
	060-069	Dimmer Curve: S Curve
	070-079	Fan Mode: Standard
	080-089	Fan Mode: Quiet
	090-099	Null
	100-109	Led Frequency Setting Enable
	110-119	Led Frequency Setting Disable
	120-122	Null
	123	900Hz
	124	1000Hz
	125	1100Hz
	126	1200Hz

	127	1300Hz
	128	1400Hz
	129	1500Hz
	130	2500Hz
	131	4000Hz
	132	5000Hz
	133	6000Hz
	134	10KHz
	135	15KHz
	136	20KHz
	137	25KHz
	138-139	Null
	140-149	Pan/Tilt Reset
	150-159	Effect Reset
	160-169	Head Invert: Yes
	170-179	Head Invert: No
	180-189	CCT Calibration: On
	190-199	CCT Calibration: Off
	200-209	All Reset
	210-219	Dimmer Speed: Fast
	220-229	Dimmer Speed: Smooth
	230	Dimming Start Mode: High
	231	DimmingStart Mode: Low
	232-233	InvertPixel Order: Yes
	234-235	Invert Pixel Order: No
	236-237	Pan Invert: Yes
	238-239	Pan Invert: No
	240-241	Tilt Invert: Yes
	242-243	Tilt Invert: No
	244-255	Nul

71 CH (Mode 3) / 75 CH (Mode 4) / 85 CH (Mode 5):

CHANNEL			VALUE	FUNCTION
71CH	75CH	85CH		
1	1	1	000-255	PAN 1 0°→59°
2	2	2	000-255	PAN 1 FINE
3	3	3	000-255	TILT 1 0°→221°
4	4	4	000-255	TILT 1 FINE
5	5	5	000-255	LED 1 RED 0%→100%
6	6	6	000-255	LED 1 GREEN 0%→100%
7	7	7	000-255	LED 1 BLUE 0%→100%
8	8	8	000-255	LED 1 LIME 0%→100%
		9	000-255	LED 1 DIMMER 0%→100%
		10	000-255	LED 1 DIMMER FINE

	9	11		LED 1 STROBE
			000-007	Close
			008-015	Open
			016-131	Strobe from Slow to Fast
			132-139	Open
			140-181	Fast Open Slow Close from Slow to Fast
			182-189	Open
			190-231	Slow Open Fast Close from Slow to Fast
			232-239	Open
			240-247	Random Strobe from Slow to Fast
			248-255	Open
9	10	12	000-255	ZOOM 1 Wide→Narrow
10	11	13	000-255	RING 1 RED 0%→100%
11	12	14	000-255	RING 1 GREEN 0%→100%
12	13	15	000-255	RING 1 BLUE 0%→100%
13	14	16		RING 1 MACRO EFFECT & SPEED
			000-015	Null
			016-031	Macro Effect 1, Fast to Slow
			032-047	Macro Effect 2, Fast to Slow
			048-063	Macro Effect 3, Fast to Slow
			064-079	Macro Effect 4, Fast to Slow
			080-095	Macro Effect 5, Fast to Slow
			096-111	Macro Effect 6, Fast to Slow
			112-127	Macro Effect 7, Fast to Slow
			128-143	Macro Effect 8, Fast to Slow
			144-159	Macro Effect 9, Fast to Slow
			160-175	Macro Effect 10, Fast to Slow
			176-191	Macro Effect 11, Fast to Slow
			192-207	Macro Effect 12, Fast to Slow
			208-223	Macro Effect 13, Fast to Slow
			224-239	Macro Effect 14, Fast to Slow
			240-255	Macro Effect 15, Fast to Slow
14	15	17	000-255	PAN 2 0°→59°
15	16	18	000-255	PAN 2 FINE
16	17	19	000-255	TILT 2 0°→221°
17	18	20	000-255	TILT 2 FINE
18	19	21	000-255	LED 2 RED 0%→100%
19	20	22	000-255	LED 2 GREEN 0%→100%
20	21	23	000-255	LED 2 BLUE 0%→100%

21	22	24	000-255	LED 2 LIME 0%→100%
		25	000-255	LED 2 DIMMER 0%→100%
		26	000-255	LED 2 DIMMER FINE
	23	27		LED 2 STROBE
			000-007	Close
			008-015	Open
			016-131	Strobe from Slow to Fast
			132-139	Open
			140-181	Fast Open Slow Close from Slow to Fast
			182-189	Open
			190-231	Slow Open Fast Close from Slow to Fast
			232-239	Open
			240-247	Random Strobe from Slow to Fast
			248-255	Open
22	24	28	000-255	ZOOM 2 Wide→Narrow
23	25	29	000-255	RING 2 RED 0%→100%
24	26	30	000-255	RING 2 GREEN 0%→100%
25	27	31	000-255	RING 2 BLUE 0%→100%
26	28	32		RING 2 MACRO EFFECT & SPEED
			000-015	Null
			016-031	Macro Effect 1, Fast to Slow
			032-047	Macro Effect 2, Fast to Slow
			048-063	Macro Effect 3, Fast to Slow
			064-079	Macro Effect 4, Fast to Slow
			080-095	Macro Effect 5, Fast to Slow
			096-111	Macro Effect 6, Fast to Slow
			112-127	Macro Effect 7, Fast to Slow
			128-143	Macro Effect 8, Fast to Slow
			144-159	Macro Effect 9, Fast to Slow
			160-175	Macro Effect 10, Fast to Slow
			176-191	Macro Effect 11, Fast to Slow
			192-207	Macro Effect 12, Fast to Slow
			208-223	Macro Effect 13, Fast to Slow
			224-239	Macro Effect 14, Fast to Slow
			240-255	Macro Effect 15, Fast to Slow
27	29	33	000-255	PAN 3 0°→59°
28	30	34	000-255	PAN 3 FINE
29	31	35	000-255	TILT 3 0°→221°
30	32	36	000-255	TILT 3 FINE
31	33	37	000-255	LED 3 RED 0%→100%
32	34	38	000-255	LED 3 GREEN 0%→100%
33	35	39	000-255	LED 3 BLUE 0%→100%
34	36	40	000-255	LED 3 LIME 0%→100%

		41	000-255	LED 3 DIMMER 0%→100%
		42	000-255	LED 3 DIMMER FINE
		43		LED 3 STROBE
			000-007	Close
			008-015	Open
			016-131	Strobe from Slow to Fast
			132-139	Open
			140-181	Fast Open Slow Close from Slow to Fast
			182-189	Open
			190-231	Slow Open Fast Close from Slow to Fast
			232-239	Open
			240-247	Random Strobe from Slow to Fast
			248-255	Open
35	38	44	000-255	ZOOM 3 Wide→Narrow
36	39	45	000-255	RING 3 RED 0%→100%
37	40	46	000-255	RING 3 GREEN 0%→100%
38	41	47	000-255	RING 3 BLUE 0%→100%
		48		RING 3 MACRO EFFECT & SPEED
			000-015	Null
			016-031	Macro Effect 1, Fast to Slow
			032-047	Macro Effect 2, Fast to Slow
			048-063	Macro Effect 3, Fast to Slow
			064-079	Macro Effect 4, Fast to Slow
			080-095	Macro Effect 5, Fast to Slow
			096-111	Macro Effect 6, Fast to Slow
			112-127	Macro Effect 7, Fast to Slow
			128-143	Macro Effect 8, Fast to Slow
			144-159	Macro Effect 9, Fast to Slow
			160-175	Macro Effect 10, Fast to Slow
			176-191	Macro Effect 11, Fast to Slow
			192-207	Macro Effect 12, Fast to Slow
			208-223	Macro Effect 13, Fast to Slow
			224-239	Macro Effect 14, Fast to Slow
			240-255	Macro Effect 15, Fast to Slow
40	43	49	000-255	PAN 4 0°→59°
41	44	50	000-255	PAN 4 FINE
42	45	51	000-255	TILT 4 0°→221°
43	46	52	000-255	TILT 4 FINE
44	47	53	000-255	LED 4 RED 0%→100%
45	48	54	000-255	LED 4 GREEN 0%→100%
46	49	55	000-255	LED 4 BLUE 0%→100%
47	50	56	000-255	LED 4 LIME 0%→100%
		57	000-255	LED 4 DIMMER 0%→100%

		58	000-255	LED 4 DIMMER FINE
				LED 4 STROBE
			000-007	Close
			008-015	Open
			016-131	Strobe from Slow to Fast
			132-139	Open
			140-181	Fast Open Slow Close from Slow to Fast
			182-189	Open
			190-231	Slow Open Fast Close from Slow to Fast
			232-239	Open
			240-247	Random Strobe from Slow to Fast
			248-255	Open
48	52	60	000-255	ZOOM 4 Wide→Narrow
49	53	61	000-255	RING 4 RED 0%→100%
50	54	62	000-255	RING 4 GREEN 0%→100%
51	55	63	000-255	RING 4 BLUE 0%→100%
				RING 4 MACRO EFFECT & SPEED
			000-015	Null
			016-031	Macro Effect 1, Fast to Slow
			032-047	Macro Effect 2, Fast to Slow
			048-063	Macro Effect 3, Fast to Slow
			064-079	Macro Effect 4, Fast to Slow
			080-095	Macro Effect 5, Fast to Slow
			096-111	Macro Effect 6, Fast to Slow
			112-127	Macro Effect 7, Fast to Slow
			128-143	Macro Effect 8, Fast to Slow
			144-159	Macro Effect 9, Fast to Slow
			160-175	Macro Effect 10, Fast to Slow
			176-191	Macro Effect 11, Fast to Slow
			192-207	Macro Effect 12, Fast to Slow
			208-223	Macro Effect 13, Fast to Slow
			224-239	Macro Effect 14, Fast to Slow
			240-255	Macro Effect 15, Fast to Slow
53	57	65	000-255	PAN 5 0°→59°
54	58	66	000-255	PAN 5 FINE
55	59	67	000-255	TILT 5 0°→221°
56	60	68	000-255	TILT 5 FINE
57	61	69	000-255	LED 5 RED 0%→100%
58	62	70	000-255	LED 5 GREEN 0%→100%
59	63	71	000-255	LED 5 BLUE 0%→100%
60	64	72	000-255	LED 5 LIME 0%→100%
		73	000-255	LED 5 DIMMER 0%→100%
		74	000-255	LED 5 DIMMER FINE

	65	75		LED 5 STROBE
			000-007	Close
			008-015	Open
			016-131	Strobe from Slow to Fast
			132-139	Open
			140-181	Fast Open Slow Close from Slow to Fast
			182-189	Open
			190-231	Slow Open Fast Close from Slow to Fast
			232-239	Open
			240-247	Random Strobe from Slow to Fast
			248-255	Open
61	66	76	000-255	ZOOM 5 Wide→Narrow
62	67	77	000-255	RING 5 RED 0%→100%
63	68	78	000-255	RING 5 GREEN 0%→100%
64	69	79	000-255	RING 5 BLUE 0%→100%
65	70	80		RING 5 MACRO EFFECT & SPEED
			000-015	Null
			016-031	Macro Effect 1, Fast to Slow
			032-047	Macro Effect 2, Fast to Slow
			048-063	Macro Effect 3, Fast to Slow
			064-079	Macro Effect 4, Fast to Slow
			080-095	Macro Effect 5, Fast to Slow
			096-111	Macro Effect 6, Fast to Slow
			112-127	Macro Effect 7, Fast to Slow
			128-143	Macro Effect 8, Fast to Slow
			144-159	Macro Effect 9, Fast to Slow
			160-175	Macro Effect 10, Fast to Slow
			176-191	Macro Effect 11, Fast to Slow
			192-207	Macro Effect 12, Fast to Slow
			208-223	Macro Effect 13, Fast to Slow
			224-239	Macro Effect 14, Fast to Slow
			240-255	Macro Effect 15, Fast to Slow
66	71	81	000-255	DIMMER 0%→100%
67	72	82	000-255	DIMMER FINE
68				LED STROBE
			000-007	Close
			008-015	Open
			016-131	Strobe from Slow to Fast
			132-139	Open
			140-181	Fast Open Slow Close from Slow to Fast
			182-189	Open
			190-231	Slow Open Fast Close from Slow to Fast
			232-239	Open

69	73	83	240-247	Random Strobe from Slow to Fast
			248-255	Open
				LED STROBE
			000-007	Close
			008-015	Open
			016-131	Strobe from Slow to Fast
			132-139	Open
			140-181	Fast Open Slow Close from Slow to Fast
			182-189	Open
			190-231	Slow Open Fast Close from Slow to Fast
			232-239	Open
			240-247	Random Strobe from Slow to Fast
70	74	84	248-255	Open
			000-255	PAN/TILT SPEED Fast to Slow
71	75	85		FUNCTION
				(To activate following functions, stop in
				DMX value for at least 3 seconds.)
			000-029	Null
			030-039	Dimmer Curve: Linear
			040-049	Dimmer Curve: Square Law
			050-059	Dimmer Curve: Inv SQ Law
			060-069	Dimmer Curve: S Curve
			070-079	Fan Mode: Standard
			080-089	Fan Mode: Quiet
			090-099	Null
			100-109	Led Frequency Setting Enable
			110-119	Led Frequency Setting Disable
			120-122	Null
			123	900Hz
			124	1000Hz
			125	1100Hz
			126	1200Hz
			127	1300Hz
			128	1400Hz
			129	1500Hz
			130	2500Hz
			131	4000Hz
			132	5000Hz
			133	6000Hz
			134	10KHz
			135	15KHz
			136	20KHz
			137	25KHz

			138-139	Null
			140-149	Pan/Tilt Reset
			150-159	Effect Reset
			160-169	Head Invert: Yes
			170-179	Head Invert: No
			180-189	CCT Calibration: On
			190-199	CCT Calibration: Off
			200-209	All Reset
			210-219	Dimmer Speed: Fast
			220-229	Dimmer Speed: Smooth
			230	Dimming Start Mode: High
			231	DimmingStart Mode: Low
			232-233	InvertPixel Order: Yes
			234-235	Invert Pixel Order: No
			236-237	Pan Invert: Yes
			238-239	Pan Invert: No
			240-241	Tilt Invert: Yes
			242-243	Tilt Invert: No
			244-255	Nul

170 CH (Mode 6):

CHANNEL	VALUE	FUNCTION
1	000-255	PAN 1 0°→59°
2	000-255	PAN 1 FINE
3	000-255	TILT 1 0°→221°
4	000-255	TILT 1 FINE
5	000-255	LED 1 RED 0%→100%
6	000-255	LED 1 GREEN 0%→100%
7	000-255	LED 1 BLUE 0%→100%
8	000-255	LED 1 LIME 0%→100%
9	000-255	ZOOM 1 Wide→Narrow
10	000-255	RING 1 BLOCK 1 RED 0%→100%
11	000-255	RING 1 BLOCK 1 GREEN 0%→100%
12	000-255	RING 1 BLOCK 1 BLUE 0%→100%
13	000-255	RING 1 BLOCK 2 RED 0%→100%
14	000-255	RING 1 BLOCK 2 GREEN 0%→100%
15	000-255	RING 1 BLOCK 2 BLUE 0%→100%
16	000-255	RING 1 BLOCK 3 RED 0%→100%
17	000-255	RING 1 BLOCK 3 GREEN 0%→100%
18	000-255	RING 1 BLOCK 3 BLUE 0%→100%
19	000-255	RING 1 BLOCK 4 RED 0%→100%
20	000-255	RING 1 BLOCK 4 GREEN 0%→100%
21	000-255	RING 1 BLOCK 4 BLUE 0%→100%
22	000-255	RING 1 BLOCK 5 RED 0%→100%

23	000-255	RING 1 BLOCK 5 GREEN	0%→100%
24	000-255	RING 1 BLOCK 5 BLUE	0%→100%
25	000-255	RING 1 BLOCK 6 RED	0%→100%
26	000-255	RING 1 BLOCK 6 GREEN	0%→100%
27	000-255	RING 1 BLOCK 6 BLUE	0%→100%
28	000-255	RING 1 BLOCK 7 RED	0%→100%
29	000-255	RING 1 BLOCK 7 GREEN	0%→100%
30	000-255	RING 1 BLOCK 7 BLUE	0%→100%
31	000-255	RING 1 BLOCK 8 RED	0%→100%
32	000-255	RING 1 BLOCK 8 GREEN	0%→100%
33	000-255	RING 1 BLOCK 8 BLUE	0%→100%
34	000-255	PAN 2	0°→59°
35	000-255	PAN 2 FINE	
36	000-255	TILT 2	0°→221°
37	000-255	TILT 2 FINE	
38	000-255	LED 2 RED	0%→100%
39	000-255	LED 2 GREEN	0%→100%
40	000-255	LED 2 BLUE	0%→100%
41	000-255	LED 2 LIME	0%→100%
42	000-255	ZOOM 2	Wide→Narrow
43	000-255	RING 2 BLOCK 1 RED	0%→100%
44	000-255	RING 2 BLOCK 1 GREEN	0%→100%
45	000-255	RING 2 BLOCK 1 BLUE	0%→100%
46	000-255	RING 2 BLOCK 2 RED	0%→100%
47	000-255	RING 2 BLOCK 2 GREEN	0%→100%
48	000-255	RING 2 BLOCK 2 BLUE	0%→100%
49	000-255	RING 2 BLOCK 3 RED	0%→100%
50	000-255	RING 2 BLOCK 3 GREEN	0%→100%
51	000-255	RING 2 BLOCK 3 BLUE	0%→100%
52	000-255	RING 2 BLOCK 4 RED	0%→100%
53	000-255	RING 2 BLOCK 4 GREEN	0%→100%
54	000-255	RING 2 BLOCK 4 BLUE	0%→100%
55	000-255	RING 2 BLOCK 5 RED	0%→100%
56	000-255	RING 2 BLOCK 5 GREEN	0%→100%
57	000-255	RING 2 BLOCK 5 BLUE	0%→100%
58	000-255	RING 2 BLOCK 6 RED	0%→100%
59	000-255	RING 2 BLOCK 6 GREEN	0%→100%
60	000-255	RING 2 BLOCK 6 BLUE	0%→100%
61	000-255	RING 2 BLOCK 7 RED	0%→100%
62	000-255	RING 2 BLOCK 7 GREEN	0%→100%
63	000-255	RING 2 BLOCK 7 BLUE	0%→100%
64	000-255	RING 2 BLOCK 8 RED	0%→100%
65	000-255	RING 2 BLOCK 8 GREEN	0%→100%

66	000-255	RING 2 BLOCK 8 BLUE 0%→100%
67	000-255	PAN 3 0°→59°
68	000-255	PAN 3 FINE
69	000-255	TILT 3 0°→221°
70	000-255	TILT 3 FINE
71	000-255	LED 3 RED 0%→100%
72	000-255	LED 3 GREEN 0%→100%
73	000-255	LED 3 BLUE 0%→100%
74	000-255	LED 3 LIME 0%→100%
75	000-255	ZOOM 3 Wide→Narrow
76	000-255	RING 3 BLOCK 1 RED 0%→100%
77	000-255	RING 3 BLOCK 1 GREEN 0%→100%
78	000-255	RING 3 BLOCK 1 BLUE 0%→100%
79	000-255	RING 3 BLOCK 2 RED 0%→100%
80	000-255	RING 3 BLOCK 2 GREEN 0%→100%
81	000-255	RING 3 BLOCK 2 BLUE 0%→100%
82	000-255	RING 3 BLOCK 3 RED 0%→100%
83	000-255	RING 3 BLOCK 3 GREEN 0%→100%
84	000-255	RING 3 BLOCK 3 BLUE 0%→100%
85	000-255	RING 3 BLOCK 4 RED 0%→100%
86	000-255	RING 3 BLOCK 4 GREEN 0%→100%
87	000-255	RING 3 BLOCK 4 BLUE 0%→100%
88	000-255	RING 3 BLOCK 5 RED 0%→100%
89	000-255	RING 3 BLOCK 5 GREEN 0%→100%
90	000-255	RING 3 BLOCK 5 BLUE 0%→100%
91	000-255	RING 3 BLOCK 6 RED 0%→100%
92	000-255	RING 3 BLOCK 6 GREEN 0%→100%
93	000-255	RING 3 BLOCK 6 BLUE 0%→100%
94	000-255	RING 3 BLOCK 7 RED 0%→100%
95	000-255	RING 3 BLOCK 7 GREEN 0%→100%
96	000-255	RING 3 BLOCK 7 BLUE 0%→100%
97	000-255	RING 3 BLOCK 8 RED 0%→100%
98	000-255	RING 3 BLOCK 8 GREEN 0%→100%
99	000-255	RING 3 BLOCK 8 BLUE 0%→100%
100	000-255	PAN 4 0°→59°
101	000-255	PAN 4 FINE
102	000-255	TILT 4 0°→221°
103	000-255	TILT 4 FINE
104	000-255	LED 4 RED 0%→100%
105	000-255	LED 4 GREEN 0%→100%
106	000-255	LED 4 BLUE 0%→100%
107	000-255	LED 4 LIME 0%→100%
108	000-255	ZOOM 4 Wide→Narrow

109	000-255	RING 4 BLOCK 1 RED	0%→100%
110	000-255	RING 4 BLOCK 1 GREEN	0%→100%
111	000-255	RING 4 BLOCK 1 BLUE	0%→100%
112	000-255	RING 4 BLOCK 2 RED	0%→100%
113	000-255	RING 4 BLOCK 2 GREEN	0%→100%
114	000-255	RING 4 BLOCK 2 BLUE	0%→100%
115	000-255	RING 4 BLOCK 3 RED	0%→100%
116	000-255	RING 4 BLOCK 3 GREEN	0%→100%
117	000-255	RING 4 BLOCK 3 BLUE	0%→100%
118	000-255	RING 4 BLOCK 4 RED	0%→100%
119	000-255	RING 4 BLOCK 4 GREEN	0%→100%
120	000-255	RING 4 BLOCK 4 BLUE	0%→100%
121	000-255	RING 4 BLOCK 5 RED	0%→100%
122	000-255	RING 4 BLOCK 5 GREEN	0%→100%
123	000-255	RING 4 BLOCK 5 BLUE	0%→100%
124	000-255	RING 4 BLOCK 6 RED	0%→100%
125	000-255	RING 4 BLOCK 6 GREEN	0%→100%
126	000-255	RING 4 BLOCK 6 BLUE	0%→100%
127	000-255	RING 4 BLOCK 7 RED	0%→100%
128	000-255	RING 4 BLOCK 7 GREEN	0%→100%
129	000-255	RING 4 BLOCK 7 BLUE	0%→100%
130	000-255	RING 4 BLOCK 8 RED	0%→100%
131	000-255	RING 4 BLOCK 8 GREEN	0%→100%
132	000-255	RING 4 BLOCK 8 BLUE	0%→100%
133	000-255	PAN 5	0°→59°
134	000-255	PAN 5 FINE	
135	000-255	TILT 5	0°→221°
136	000-255	TILT 5 FINE	
137	000-255	LED 5 RED	0%→100%
138	000-255	LED 5 GREEN	0%→100%
139	000-255	LED 5 BLUE	0%→100%
140	000-255	LED 5 LIME	0%→100%
141	000-255	ZOOM 5	Wide→Narrow
142	000-255	RING 5 BLOCK 1 RED	0%→100%
143	000-255	RING 5 BLOCK 1 GREEN	0%→100%
144	000-255	RING 5 BLOCK 1 BLUE	0%→100%
145	000-255	RING 5 BLOCK 2 RED	0%→100%
146	000-255	RING 5 BLOCK 2 GREEN	0%→100%
147	000-255	RING 5 BLOCK 2 BLUE	0%→100%
148	000-255	RING 5 BLOCK 3 RED	0%→100%
149	000-255	RING 5 BLOCK 3 GREEN	0%→100%
150	000-255	RING 5 BLOCK 3 BLUE	0%→100%
151	000-255	RING 5 BLOCK 4 RED	0%→100%

152	000-255	RING 5 BLOCK 4 GREEN	0%→100%
153	000-255	RING 5 BLOCK 4 BLUE	0%→100%
154	000-255	RING 5 BLOCK 5 RED	0%→100%
155	000-255	RING 5 BLOCK 5 GREEN	0%→100%
156	000-255	RING 5 BLOCK 5 BLUE	0%→100%
157	000-255	RING 5 BLOCK 6 RED	0%→100%
158	000-255	RING 5 BLOCK 6 GREEN	0%→100%
159	000-255	RING 5 BLOCK 6 BLUE	0%→100%
160	000-255	RING 5 BLOCK 7 RED	0%→100%
161	000-255	RING 5 BLOCK 7 GREEN	0%→100%
162	000-255	RING 5 BLOCK 7 BLUE	0%→100%
163	000-255	RING 5 BLOCK 8 RED	0%→100%
164	000-255	RING 5 BLOCK 8 GREEN	0%→100%
165	000-255	RING 5 BLOCK 8 BLUE	0%→100%
166	000-255	LED DIMMER	0%→100%
167		LED STROBE	
	000-007	Close	
	008-015	Open	
	016-131	Strobe from Slow to Fast	
	132-139	Open	
	140-181	Fast Open Slow Close from Slow to Fast	
	182-189	Open	
	190-231	Slow Open Fast Close from Slow to Fast	
	232-239	Open	
	240-247	Random Strobe from Slow to Fast	
	248-255	Open	
168	000-255	RING DIMMER	0%→100%
169		RING STROBE	
	000-007	Close	
	008-015	Open	
	016-131	Strobe from Slow to Fast	
	132-139	Open	
	140-181	Fast Open Slow Close from Slow to Fast	
	182-189	Open	
	190-231	Slow Open Fast Close from Slow to Fast	
	232-239	Open	
	240-247	Random Strobe from Slow to Fast	
	248-255	Open	
170		FUNCTION	
		(To activate following functions, stop in	
		DMX value for at least 3 seconds.)	
	000-029	Null	
	030-039	Dimmer Curve: Linear	

	040-049	Dimmer Curve: Square Law
	050-059	Dimmer Curve: Inv SQ Law
	060-069	Dimmer Curve: S Curve
	070-079	Fan Mode: Standard
	080-089	Fan Mode: Quiet
	090-099	Null
	100-109	Led Frequency Setting Enable
	110-119	Led Frequency Setting Disable
	120-122	Null
	123	900Hz
	124	1000Hz
	125	1100Hz
	126	1200Hz
	127	1300Hz
	128	1400Hz
	129	1500Hz
	130	2500Hz
	131	4000Hz
	132	5000Hz
	133	6000Hz
	134	10KHz
	135	15KHz
	136	20KHz
	137	25KHz
	138-139	Null
	140-149	Pan/Tilt Reset
	150-159	Effect Reset
	160-169	Head Invert: Yes
	170-179	Head Invert: No
	180-189	CCT Calibration: On
	190-199	CCT Calibration: Off
	200-209	All Reset
	210-219	Dimmer Speed: Fast
	220-229	Dimmer Speed: Smooth
	230	Dimming Start Mode: High
	231	DimmingStart Mode: Low
	232-233	InvertPixel Order: Yes
	234-235	Invert Pixel Order: No
	236-237	Pan Invert: Yes
	238-239	Pan Invert: No
	240-241	Tilt Invert: Yes
	242-243	Tilt Invert: No
	244-255	Nul

6. Troubleshooting

Following are a few common problems that may occur during operation. Here are some suggestions for troubleshooting:

- A. The unit does not work, no light and the fan does not work.
- ◆ Check the connected power and main fuse.
 - ◆ Measure the voltage.
 - ◆ Check the power indicator to see whether it can be lit up or not.
- B. Not responding to the DMX controller.
- ◆ Check whether the DMX connectors and the DMX cables are connected correctly.
 - ◆ Check whether the DMX address is correctly set.
 - ◆ If the intermittent DMX signal problem occurs, check whether the XLR socket and the signal cable are well connected.
 - ◆ Try it with another DMX controller.
 - ◆ Check whether the DMX cables run near or alongside to the high-voltage cables, which may damage or interfere with the signal circuit.
 - ◆

7. Equipment cleaning

It is absolutely essential that the fixture is kept clean to ensure the maximum light-output and allow the fixture to function reliably throughout its life. The fixture must be cleaned regularly to avoid dust, dirt and smoke-fluid residues building up on or within the fixture. The cleaning frequency depends on the application environment. Clean the fixture immediately if the dust enters it to avoid damage to the optical lens due to excessive dust.

- ◆ A soft lint-free cloth moistened with any good glass cleaning fluid is recommended, under no circumstances should solvents be used.
- ◆ Always dry the parts carefully.
- ◆ Clean the external optical lens at least every 20 days