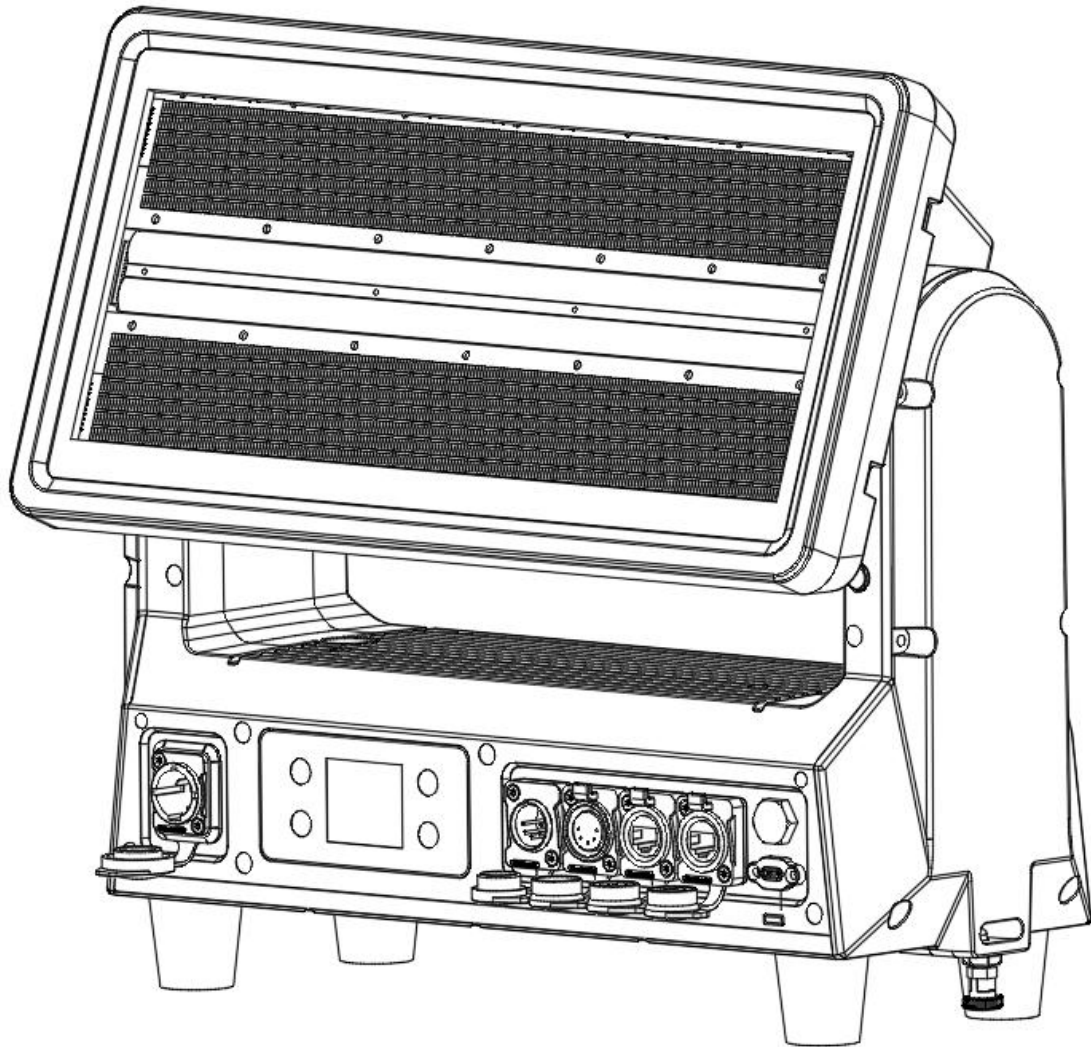




User Manual

Please read the instructions carefully before use

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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.

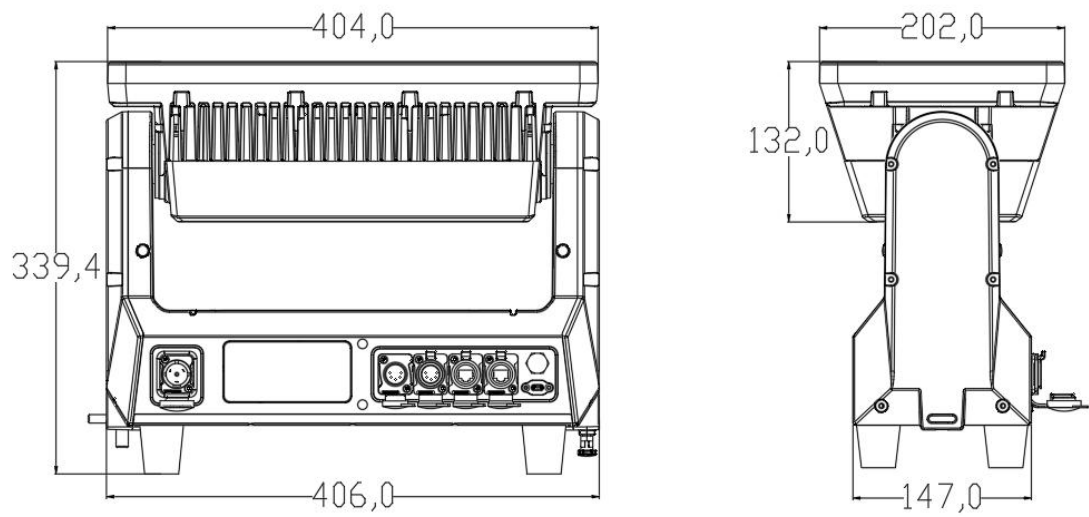
- Unpack and check carefully to ensure that there is no transportation damage before using the unit
- The equipment is suitable for dry and humid environments, with a protection grade of IP66. The lamps should be kept clean and should be cleaned and maintained regularly.
- Eligible professionals may 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 70°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.

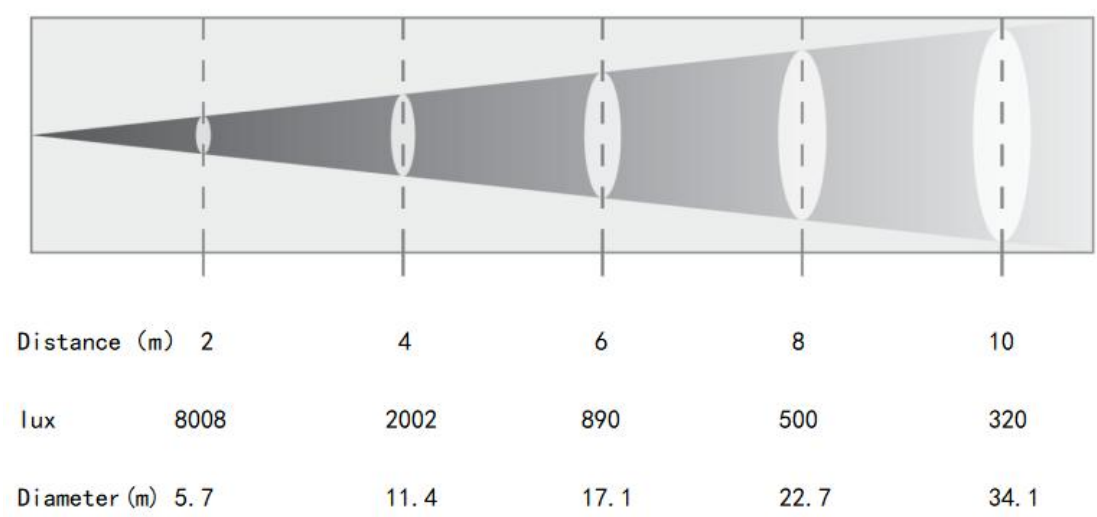
2. Product Introduction

Technical specification table	
Power Voltage	AC100V-240V 50/60Hz
Power Consumption	1400W
RGB color washing light source	784 pcs $\times$ 1.5W $\times$ 3-color 5050 LED
White light strobe light source	392 pcs $\times$ 2W Cool White LED
RGB Zones	14 independently controllable zones
White Light Zones	28 independently controllable zones
Beam Angle	Combined light $98^{\circ} \times 57^{\circ}$, strobe light $95^{\circ} \times 50^{\circ}$
Luminous Flux	Up to 71620 lumens
Color Temperature	Approx. 6000K (Daylight)
Dimming	16-bit high-precision dimming for ultra-smooth transitions
Strobe	Electronic strobe, rate 0 – 30 Hz
Other Features	Adjustable PWM frequency (up to 25kHz) for flicker-free filming
Tilt Range	180° electronic tilt
Power connection	Waterproof power input/output
DMX connection	3-pin/5-pin XLR Connector
Working temperature	$-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$
Dimension	406*339.4*202mm
Weight	11.5 kg
Protection Rating	IP65
Shell	All aluminum die-cast, black baked paint
Control Mode	DMX512、Art-Net、sACN、RDM
DMX Channel	8CH/ 11CH/ 13CH/ 14CH/ 24CH/ 30CH/ 47CH/ 74CH/ 97CH
Display	LCD Display with 4 Touch Buttons

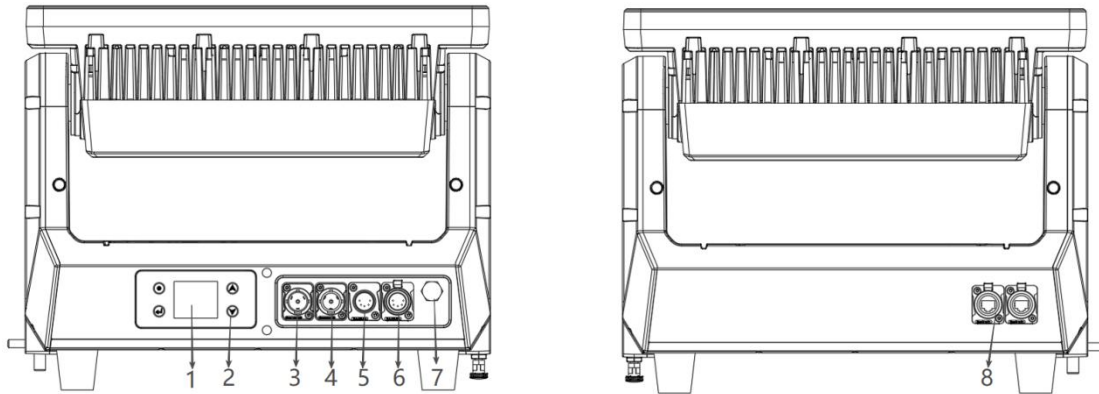
2.1 Product Dimension



2.2 Photometric Diagram



3.Control Panel



1. Display	To show the various menus and the selected function	
2.Buttons	MENU	To enter into, move backward or leave the menu
	▲ UP	To go backward or move up in the menu
	▼ DOWN	To go forward or move down in the menu
	ENTER	To perform the desired functions
3.Power In	To connect to supply power	
4.Power Out	To connect to the next fixture	
5.DMX In	For DMX512 link, use 3-pin XLR cable to link the unit and DMX controller	
6.DMX Out	For DMX512 link, use 3-pin XLR cable to link the next units	
7. RELEASE VALVE		
8. ETHERNET	For use with sACN or Art-Net controls	

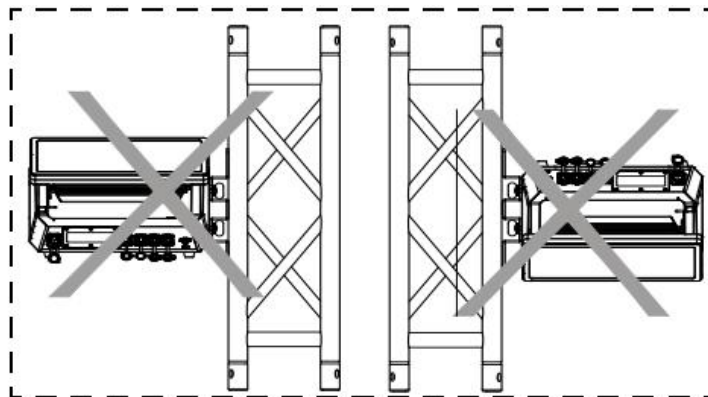
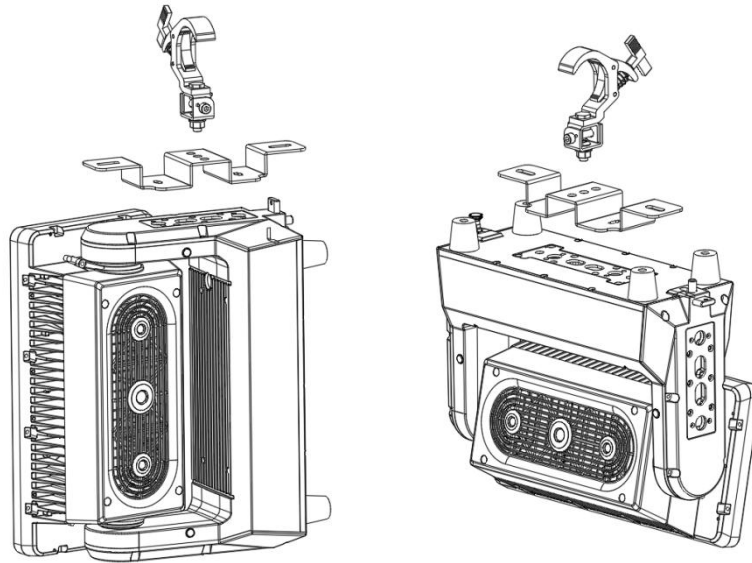
This product uses IP65 waterproof power cable IN/OUT

Hand-in-hand method to connect power lines

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.

4. 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.



5.Lighting setup

Menu function

- First use requires unlocking the menu, press the [▲UP] and [▼DOWN] buttons twice,then press the [ENTER] key to unlock.
- Use the [ENTER],[▲UP],and [▼DOWN] buttons to navigate the menu.
- Press the [ENTER] button to select menu options or confirm the selected settings.
- Return to the previous menu without making any changes. Press the [MENU] button to return and exit.
- Long-time inactivity will automatically lock the screen of the lighting equipment,which needs to be unlocked by pressing the [▲ UP] and [▼ DOWN] buttons twice in sequence and then pressing the [ENTER] key.

Menu functions as follows

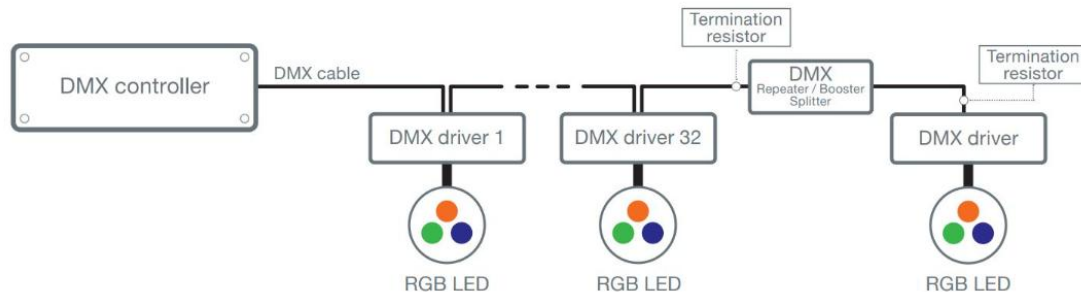
Level 1 Menu	Level 2 Menu	Level 3 Menu	Level 4 Menu	Level 5 Menu	
DMX Setup	Dmx Address	1 - 512			
	Channel Mode	08CH			
		11CH			
		13CH			
		14CH			
		24CH			
		30CH			
		47CH			
		74CH			
		97CH			
	Run Mode	DMX			
		Auto			
		Scene			
Network	Control Mode	DMX			
		ArtNet			
		sACN			
	IP Mode	Dynamic			
		Static			
	ArtNet	0 - 255			
	sACN Universe	1 - 255			
	IP Address	xxx.xxx.xxx.xxx			
Personality	Tilt Inverse	No			
		Yes			
	Tilt Feedback	Off			

	Dimmer Curve	On			
		Linear			
		Square Law			
		Inv SQ Law			
		S-Curve			
	Dimmer Frequency	4000Hz			
		8000Hz			
		12000Hz			
		20000Hz			
		24000Hz			
		32000Hz			
	Dimmer Speed	Fast			
		Slow			
	No Data Mode	Blackout			
		Hold			
	Fan Mode	Regulate			
		Theater			
		Full			
	M/S Mode	Slave			
		Master			
	Pixel Invert	Plate 1 Invert	No		
			Yes		
		Plate 2 Invert	No		
			Yes		
		Tube1 1 Invert	No		
			Yes		
	LED Array Swap	Plate Swap	No		
			Yes		
		Beam Swap	No		
			Yes		
Display	Display Rotate	Normal			
		Rotate 180°			
	Screen Switch	On			
		Off			
	Screen Lock	Off			
		On			
	Language	English			
		Chinese			
Motor Reset	All	No			
		Yes			
Manual Control	Tilt	0 - 255			
	。 。 。	0 - 255			

Scene Editing	Scene1	Scene state			
		Hold time			
		Cyan			
		° ° °			
	Scene2				
	Scene3				
DMX Live	Tilt	0 - 255			
	° ° °	0 - 255			
Service	Password	Calibration	Motor	Tilt	-128 -> 127
		Factory Default	No		
			Yes		
		Clear Power On Time	No		
			Yes		
		Clear Lamp Hours	No		
Information	Power On		Yes		
	LED Hours	xxxxxH			
	SW Version	1U: Vx.x.x			
	RDM UID	0XXXXX-			

6. Control By Universal DMX Controller

6.1 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.

6.2 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
8CH	001-008	1	9	17	25
11CH	001-011	1	12	23	34
13CH	001-013	1	14	27	40
14CH	001-014	1	15	29	43
24CH	001-024	1	25	49	73
30CH	001-030	1	31	61	91
47CH	001-047	1	48	95	142
74CH	001-074	1	75	149	223
97CH	001-097	1	98	195	292

6.3 DMX Channel

97CH			
Channel	Function	Value	Percent/Setting
1	Tilt	000-255	0-100%
2	Fine tilt	000-255	0-100%
3	Master dimmer	000-255	0-100%
4	Plate dimmer	000-255	0-100%
5	Beam dimmer	000-255	0-100%
6	Plate flash duration	000-009	Classic shutter mode: disables duration control
		010-250	Slow to fast
		251-255	100% On, no flash/strobe
7	Plate flash rate	000-009	100%
		010-250	Slow to fast
		251-255	100%
8	Beam flash duration	000-009	Classic shutter mode: disables duration control

		010-250	Slow to fast
		251-255	100% On,no flash/strobe
9	Beam flash rate	000-009	100%
		010-250	Slow to fast
		251-255	100%
10	Plate pixel 1 red	000-255	0-100%
11	Plate pixel 1 green	000-255	0-100%
12	Plate pixel 1 blue	000-255	0-100%
13	Plate pixel 2 red	000-255	0-100%
14	Plate pixel 2 green	000-255	0-100%
15	Plate pixel 2 blue	000-255	0-100%
16	Plate pixel 3 red	000-255	0-100%
17	Plate pixel 3 green	000-255	0-100%
18	Plate pixel 3 blue	000-255	0-100%
19	Plate pixel 4 red	000-255	0-100%
20	Plate pixel 4 green	000-255	0-100%
21	Plate pixel 4 blue	000-255	0-100%
22	Plate pixel 5 red	000-255	0-100%
23	Plate pixel 5 green	000-255	0-100%
24	Plate pixel 5 blue	000-255	0-100%
25	Plate pixel 6 red	000-255	0-100%
26	Plate pixel 6 green	000-255	0-100%
27	Plate pixel 6 blue	000-255	0-100%
28	Plate pixel 7 red	000-255	0-100%
29	Plate pixel 7 green	000-255	0-100%
30	Plate pixel 7 blue	000-255	0-100%
31	Plate pixel 8 red	000-255	0-100%
32	Plate pixel 8 green	000-255	0-100%
33	Plate pixel 8 blue	000-255	0-100%
34	Plate pixel 9 red	000-255	0-100%
35	Plate pixel 9 green	000-255	0-100%
36	Plate pixel 9 blue	000-255	0-100%
37	Plate pixel 10 red	000-255	0-100%
38	Plate pixel 10 green	000-255	0-100%
39	Plate pixel 10 blue	000-255	0-100%
40	Plate pixel 11 red	000-255	0-100%
41	Plate pixel 11 green	000-255	0-100%
42	Plate pixel 11 blue	000-255	0-100%
43	Plate pixel 12 red	000-255	0-100%
44	Plate pixel 12 green	000-255	0-100%
45	Plate pixel 12 blue	000-255	0-100%
46	Plate pixel 13red	000-255	0-100%
47	Plate pixel 13 green	000-255	0-100%
48	Plate pixel 13 blue	000-255	0-100%

49	Plate pixel 14 red	000-255	0-100%
50	Plate pixel 14 green	000-255	0-100%
51	Plate pixel 14 blue	000-255	0-100%
52	Beam pixel 1	000-255	0-100%
53	Beam pixel 2	000-255	0-100%
54	Beam pixel 3	000-255	0-100%
55	Beam pixel 4	000-255	0-100%
56	Beam pixel 5	000-255	0-100%
57	Beam pixel 6	000-255	0-100%
58	Beam pixel 7	000-255	0-100%
59	Beam pixel 8	000-255	0-100%
60	Beam pixel 9	000-255	0-100%
61	Beam pixel 10	000-255	0-100%
62	Beam pixel 11	000-255	0-100%
63	Beam pixel 12	000-255	0-100%
64	Beam pixel 13	000-255	0-100%
65	Beam pixel 14	000-255	0-100%
66	Beam pixel 15	000-255	0-100%
67	Beam pixel 16	000-255	0-100%
68	Beam pixel 17	000-255	0-100%
69	Beam pixel 18	000-255	0-100%
70	Beam pixel 19	000-255	0-100%
71	Beam pixel 20	000-255	0-100%
72	Beam pixel 21	000-255	0-100%
73	Beam pixel 22	000-255	0-100%
74	Beam pixel 23	000-255	0-100%
75	Beam pixel 24	000-255	0-100%
76	Beam pixel 25	000-255	0-100%
77	Beam pixel 26	000-255	0-100%
78	Beam pixel 27	000-255	0-100%
79	Beam pixel 28	000-255	0-100%
80	Beam FX	000-005	No function
		006-042	Ramp up
		043-085	Ramp down
		086-128	Ramp up-down
		129-171	Random
		172-214	Lightning
		215-255	Spikes
81	Plates foreground	000-000	No function
		001-002	White(2700K)
		003-004	White(3200K)
		005-006	White(4200K)
		007-008	White(5600K)
		009-010	White(8000K)

		011	Blue	R:0	G:0	B:255	W:0
		012-048	Green+/Blue	R:0	G:+	B:255	W:0
		049	Cyan	R:0	G:255	B:255	W:0
		050-086	Green/Blue-	R:0	G:255	B:-	W:0
		087	Green	R:0	G:255	B:0	W:0
		088-124	Red+/Green	R:+	G:255	B:0	W:0
		125	Yellow	R:255	G:255	B:0	W:0
		126-162	Red/Green-	R:255	G:-	B:0	W:0
		163	Red	R:255	G:0	B:0	W:0
		164-200	Red/Blue+	R:255	G:0	B:+	W:0
		201	Magenta	R:255	G:0	B:255	W:0
		202-238	Red-/Blue	R:-	G:0	B:255	W:0
		239	Blue	R:0	G:0	B:255	W:0
		240-247	Color index,fast to slow				
		248-255	Color snap,fast to slow				
82	Plate foreground	000-255	0-100%				
83	Plate background	000-000	No function				
		001-002	White(2700K)				
		003-004	White(3200K)				
		005-006	White(4200K)				
		007-008	White(5600K)				
		009-010	White(8000K)				
		011	Blue	R:0	G:0	B:255	W:0
		012-048	Green+/Blue	R:0	G:+	B:255	W:0
		049	Cyan	R:0	G:255	B:255	W:0
		050-086	Green/Blue-	R:0	G:255	B:-	W:0
		087	Green	R:0	G:255	B:0	W:0
		088-124	Red+/Green	R:+	G:255	B:0	W:0
		125	Yellow	R:255	G:255	B:0	W:0
		126-162	Red/Green-	R:255	G:-	B:0	W:0
		163	Red	R:255	G:0	B:0	W:0
		164-200	Red/Blue+	R:255	G:0	B:+	W:0
		201	Magenta	R:255	G:0	B:255	W:0
		202-238	Red-/Blue	R:-	G:0	B:255	W:0
		239	Blue	R:0	G:0	B:255	W:0
		240-247	Color index,fast to slow				
		248-255	Color snap,fast to slow				
84	Plate background	000-255	0-100%				
85	Plate 1(pixels 1-7)	000-002	Plate FX All select(all on) see Plate Patterns				
	FX select	003-255					
86	Plate 1(pixels 1-7) FX movement speed & direction (see Pixel Mapping)	000-005	No function				
		006-124	Left to right,fast to slow				
		125-130	No function				
		131-249	Right to left,slow to fast				

		250-255	No function
87	Plate 1(pixels 1-7)	000-002	Snap from cell to cell
	FX crossfade	003-255	Fade duration:short to long
88	Plate 2(pixels 8-14)	000-002	Plate FX All select(all on) see Plate Patterns
	FX select	003-255	
89	Plate 2(pixels 8-14) FX movement speed & direction (see Pixel Mapping)	000-005	No function
		006-124	Left to right,fast to slow
		125-130	No function
		131-249	Right to left,slow to fast
		250-255	No function
90	Plate 2(pixels 8-14)	000-002	Snap from cell to cell
	FX crossfade	003-255	Fade duration:short to long
91	Beam 1(pixels 1-14)	000-002	Beam FX All select(all on)
	FX select	003-255	see Beam Patterns
92	Beam 1(pixels 1-14) FX movement speed & direction (see Pixel Mapping)	000-005	No function
		006-124	Left to right,fast to slow
		125-130	No function
		131-249	Right to left,slow to fast
		250-255	No function
93	Beam 1(pixels 1-14)	000-002	Snap from cell to cell
	FX crossfade	003-255	Fade duration:short to long
94	Beam 2(pixels 15-28)	000-002	Beam FX All select(all on)
	FX select	003-255	see Beam Patterns
95	Beam 2(pixels 15-28)FX movement speed & direction (see Pixel Mapping)	000-005	No function
		006-124	Left to right,fast to slow
		125-130	No function
		131-249	Right to left,slow to fast
		250-255	No function
96	Beam 2(pixels 15-28)	000-002	Snap from cell to cell
	FX crossfade	003-255	Fade duration:short to long
97	Control*	000-005	No function
		006-010	Off (dimmer mode)
		011-015	Dimmer 1
		016-020	Dimmer 2
		021-025	Dimmer 3
		026-030	600 Hz
		031-035	1200 Hz
		036-040	2000 Hz
		041-045	4000 Hz
		046-050	6000 Hz
		051-055	25 KHz
		056-060	Fan mode auto
		060-065	Fan mode on
		066-070	Tilt reset

		071-075	Plate 1 invert off
		076-080	Plate 1 invert on
		081-085	Plate 2 invert off
		086-090	Plate 2 invert on
		091-095	Beam 1 invert off
		096-100	Beam 1 invert on
		101-105	Beam 2 invert off
		106-110	Beam 2 invert on
		111-115	Plate swap on
		116-120	Plate swap off
		121-125	Beam swap on
		126-130	Beam swap off
		131-255	No function
74CH			
Channe	Function	Value	Percent/Setting
1	Tilt	000-255	0-100%
2	Fine tilt	000-255	0-100%
3	Dimmer	000-255	0-100%
4	Strobe	000-009	Open
		010-079	Strobe,slow to fast
		080-149	Pulse,slow to fast
		150-219	Random Strobe,slow to fast
		220-255	Open
5	Plate pixel 1 red	000-255	0-100%
6	Plate pixel 1 green	000-255	0-100%
7	Plate pixel 1 blue	000-255	0-100%
8	Plate pixel 2 red	000-255	0-100%
9	Plate pixel 2 green	000-255	0-100%
10	Plate pixel 2 blue	000-255	0-100%
11	Plate pixel 3 red	000-255	0-100%
12	Plate pixel 3 green	000-255	0-100%
13	Plate pixel 3 blue	000-255	0-100%
14	Plate pixel 4 red	000-255	0-100%
15	Plate pixel 4 green	000-255	0-100%
16	Plate pixel 4 blue	000-255	0-100%
17	Plate pixel 5 red	000-255	0-100%
18	Plate pixel 5 green	000-255	0-100%
19	Plate pixel 5 blue	000-255	0-100%
20	Plate pixel 6 red	000-255	0-100%
21	Plate pixel 6 green	000-255	0-100%
22	Plate pixel 6 blue	000-255	0-100%
23	Plate pixel 7 red	000-255	0-100%
24	Plate pixel 7 green	000-255	0-100%
25	Plate pixel 7 blue	000-255	0-100%

26	Plate pixel 8 red	000-255	0-100%
27	Plate pixel 8 green	000-255	0-100%
28	Plate pixel 8 blue	000-255	0-100%
29	Plate pixel 9 red	000-255	0-100%
30	Plate pixel 9 green	000-255	0-100%
31	Plate pixel 9 blue	000-255	0-100%
32	Plate pixel 10 red	000-255	0-100%
33	Plate pixel 10 green	000-255	0-100%
34	Plate pixel 10 blue	000-255	0-100%
35	Plate pixel 11 red	000-255	0-100%
36	Plate pixel 11 green	000-255	0-100%
37	Plate pixel 11 blue	000-255	0-100%
38	Plate pixel 12 red	000-255	0-100%
39	Plate pixel 12 green	000-255	0-100%
40	Plate pixel 12 blue	000-255	0-100%
41	Plate pixel 13red	000-255	0-100%
42	Plate pixel 13 green	000-255	0-100%
43	Plate pixel 13 blue	000-255	0-100%
44	Plate pixel 14 red	000-255	0-100%
45	Plate pixel 14 green	000-255	0-100%
46	Plate pixel 14 blue	000-255	0-100%
47	Beam pixel 1	000-255	0-100%
48	Beam pixel 2	000-255	0-100%
49	Beam pixel 3	000-255	0-100%
50	Beam pixel 4	000-255	0-100%
51	Beam pixel 5	000-255	0-100%
52	Beam pixel 6	000-255	0-100%
53	Beam pixel 7	000-255	0-100%
54	Beam pixel 8	000-255	0-100%
55	Beam pixel 9	000-255	0-100%
56	Beam pixel 10	000-255	0-100%
57	Beam pixel 11	000-255	0-100%
58	Beam pixel 12	000-255	0-100%
59	Beam pixel 13	000-255	0-100%
60	Beam pixel 14	000-255	0-100%
61	Beam pixel 15	000-255	0-100%
62	Beam pixel 16	000-255	0-100%
63	Beam pixel 17	000-255	0-100%
64	Beam pixel 18	000-255	0-100%
65	Beam pixel 19	000-255	0-100%
66	Beam pixel 20	000-255	0-100%
67	Beam pixel 21	000-255	0-100%
68	Beam pixel 22	000-255	0-100%
69	Beam pixel 23	000-255	0-100%

70	Beam pixel 24	000-255	0-100%
71	Beam pixel 25	000-255	0-100%
72	Beam pixel 26	000-255	0-100%
73	Beam pixel 27	000-255	0-100%
74	Beam pixel 28	000-255	0-100%
47CH			
Channe	Function	Value	Percent/Setting
1	Tilt	000-255	0-100%
2	Fine tilt	000-255	0-100%
3	Master dimmer	000-255	0-100%
4	Plate dimmer	000-255	0-100%
5	Beam dimmer	000-255	0-100%
6	Plate flash duration	000-009	Classic shutter mode:disables duration control
		010-250	Slow to fast
		251-255	100% On,no flash/strobe
7	Plate flash rate	000-009	100%
		010-250	Slow to fast
		251-255	100%
8	Beam flash duration	000-009	Classic shutter mode:disables duration control
		010-250	Slow to fast
		251-255	100% On,no flash/strobe
9	Beam flash rate	000-009	100%
		010-250	Slow to fast
		251-255	100%
10	Plate Invert	000-005	Normal alignment
		006-124	Invert Plate 1 and Plate 2
		125-130	Invert Plate 1,Plate 2 normal
		131-249	Invert Plate 2,Plate 1 normal
		250-255	No function
11	Beam Invert	000-005	Normal alignment
		006-124	Invert Beam 1 and Beam 2
		125-130	Invert Beam 1,Beam 2 normal
		131-249	Invert Beam 2,Beam 1 normal
		250-255	No function
12	Plate pixel 1+8 red	0-255	0-100%
13	Plate pixel 1+8 green	0-255	0-100%
14	Plate pixel 1+8 blue	0-255	0-100%
15	Plate pixel 2+9 red	0-255	0-100%
16	Plate pixel 2+9 green	0-255	0-100%
17	Plate pixel 2+9 blue	0-255	0-100%
18	Plate pixel 3+10 red	0-255	0-100%
19	Plate pixel 3+10 green	0-255	0-100%
20	Plate pixel 3+10 blue	0-255	0-100%
21	Plate pixel 4+11 red	0-255	0-100%

22	Plate pixel 4+11 green	0-255	0-100%
23	Plate pixel 4+11 blue	0-255	0-100%
24	Plate pixel 5+12 red	0-255	0-100%
25	Plate pixel 5+12 green	0-255	0-100%
26	Plate pixel 5+12 blue	0-255	0-100%
27	Plate pixel 6+13 red	0-255	0-100%
28	Plate pixel 6+13 green	0-255	0-100%
29	Plate pixel 6+13 blue	0-255	0-100%
30	Plate pixel 7+14 red	0-255	0-100%
31	Plate pixel 7+14 green	0-255	0-100%
32	Plate pixel 7+14 blue	0-255	0-100%
33	Beam pixel 1+15	0-255	0-100%
34	Beam pixel 2+16	0-255	0-100%
35	Beam pixel 3+17	0-255	0-100%
36	Beam pixel 4+18	0-255	0-100%
37	Beam pixel 5+19	0-255	0-100%
38	Beam pixel 6+20	0-255	0-100%
39	Beam pixel 7+21	0-255	0-100%
40	Beam pixel 8+22	0-255	0-100%
41	Beam pixel 9+23	0-255	0-100%
42	Beam pixel 10+24	0-255	0-100%
43	Beam pixel 11+25	0-255	0-100%
44	Beam pixel 12+26	0-255	0-100%
45	Beam pixel 13+27	0-255	0-100%
46	Beam pixel 14+28	0-255	0-100%
47	Control*	000-005	No function
		006-010	Off (dimmer mode)
		011-015	Dimmer 1
		016-020	Dimmer 2
		021-025	Dimmer 3
		026-030	600 Hz
		031-035	1200 Hz
		036-040	2000 Hz
		041-045	4000 Hz
		046-050	6000 Hz
		051-055	25 KHz
		056-060	Fan mode auto
		060-065	Fan mode on
		066-070	Tilt reset
		071-075	Plate 1 invert off
		076-080	Plate 1 invert on
		081-085	Plate 2 invert off
		086-090	Plate 2 invert on
		091-095	Beam 1 invert off

		096-100	Beam 1 invert on
		101-105	Beam 2 invert off
		106-110	Beam 2 invert on
		111-115	Plate swap on
		116-120	Plate swap off
		121-125	Beam swap on
		126-130	Beam swap off
		131-255	No function
30CH			
Channe	Function	Value	Percent/Setting
1	Tilt	000-255	0-100%
2	Fine tilt	000-255	0-100%
3	Master dimmer	000-255	0-100%
4	Plate dimmer	000-255	0-100%
5	Beam dimmer	000-255	0-100%
6	Plate flash duration	000-009	Classic shutter mode:disables duration control
		010-250	Slow to fast
		251-255	100% On,no flash/strobe
7	Plate flash rate	000-009	100%
		010-250	Slow to fast
		251-255	100%
8	Beam flash duration	000-009	Classic shutter mode:disables duration control
		010-250	Slow to fast
		251-255	100% On,no flash/strobe
9	Beam flash rate	000-009	100%
		010-250	Slow to fast
		251-255	100%
10	Plates red	000-255	0-100%
11	Plates green	000-255	0-100%
12	Plates blue	000-255	0-100%
13	Beam FX	000-005	No function
		006-042	Ramp up
		043-085	Ramp down
		086-128	Ramp up-down
		129-171	Random
		172-214	Lightning
		215-255	Spikes
14	Plates foreground	000-000	No function
		001-002	White(2700K)
		003-004	White(3200K)
		005-006	White(4200K)
		007-008	White(5600K)
		009-010	White(8000K)
		011	Blue R:0 G:0 B:255 W:0

		012-048	Green+/Blue	R:0	G:+	B:255	W:0
		049	Cyan	R:0	G:255	B:255	W:0
		050-086	Green/Blue-	R:0	G:255	B:-	W:0
		087	Green	R:0	G:255	B:0	W:0
		088-124	Red+/Green	R:+	G:255	B:0	W:0
		125	Yellow	R:255	G:255	B:0	W:0
		126-162	Red/Green-	R:255	G:-	B:0	W:0
		163	Red	R:255	G:0	B:0	W:0
		164-200	Red/Blue+	R:255	G:0	B:+	W:0
		201	Magenta	R:255	G:0	B:255	W:0
		202-238	Red-/Blue	R:-	G:0	B:255	W:0
		239	Blue	R:0	G:0	B:255	W:0
		240-247	Color index,fast to slow				
		248-255	Color snap,fast to slow				
15	Plates foreground	000-255	0-100%				
16	Plates background	000-000	No function				
		001-002	White(2700K)				
		003-004	White(3200K)				
		005-006	White(4200K)				
		007-008	White(5600K)				
		009-010	White(8000K)				
		011	Blue	R:0	G:0	B:255	W:0
		012-048	Green+/Blue	R:0	G:+	B:255	W:0
		049	Cyan	R:0	G:255	B:255	W:0
		050-086	Green/Blue-	R:0	G:255	B:-	W:0
		087	Green	R:0	G:255	B:0	W:0
		088-124	Red+/Green	R:+	G:255	B:0	W:0
		125	Yellow	R:255	G:255	B:0	W:0
		126-162	Red/Green-	R:255	G:-	B:0	W:0
		163	Red	R:255	G:0	B:0	W:0
		164-200	Red/Blue+	R:255	G:0	B:+	W:0
		201	Magenta	R:255	G:0	B:255	W:0
		202-238	Red-/Blue	R:-	G:0	B:255	W:0
		239	Blue	R:0	G:0	B:255	W:0
		240-247	Color index,fast to slow				
		248-255	Color snap,fast to slow				
17	Plates background	000-255	0-100%				
18	Plate 1(pixels 1-7)	000-002	Plate FX All select(all on) see Plate Patterns				
	FX select	003-255					
19	Plate 1(pixels 1-7) FX movement speed & direction (see Pixel Mapping)	000-005	No function				
		006-124	Left to right,fast to slow				
		125-130	No function				
		131-249	Right to left,slow to fast				
		250-255	No function				

20	Plate 1(pixels 1-7)	000-002	Snap from cell to cell
	FX crossfade	003-255	Fade duration:short to long
21	Plate 2(pixels 8-14)	000-002	Plate FX All select(all on)
	FX select	003-255	see Plate Patterns
22	Plate 2(pixels 8-14) FX movement speed & direction (see Pixel Mapping)	000-005	No function
		006-124	Left to right,fast to slow
		125-130	No function
		131-249	Right to left,slow to fast
		250-255	No function
23	Plate 2(pixels 8-14)	000-002	Snap from cell to cell
	FX crossfade	003-255	Fade duration:short to long
24	Beam 1(pixels 1-14)	000-002	Beam FX All select(all on)
	FX select	003-255	see Beam Patterns
25	Beam 1(pixels 1-14) FX movement speed & direction (see Pixel Mapping)	000-005	No function
		006-124	Left to right,fast to slow
		125-130	No function
		131-249	Right to left,slow to fast
		250-255	No function
26	Beam 1(pixels 1-14)	000-002	Snap from cell to cell
	FX crossfade	003-255	Fade duration:short to long
27	Beam 2(pixels 15-28)	000-002	Beam FX All select(all on)
	FX select	003-255	see Beam Patterns
28	Beam 2(pixels 15-28)FX movement speed & direction (see Pixel Mapping)	000-005	No function
		006-124	Left to right,fast to slow
		125-130	No function
		131-249	Right to left,slow to fast
		250-255	No function
29	Beam 2(pixels 15-28)	000-002	Snap from cell to cell
	FX crossfade	003-255	Fade duration:short to long
30	Control*	000-005	No function
		006-010	Off (dimmer mode)
		011-015	Dimmer 1
		016-020	Dimmer 2
		021-025	Dimmer 3
		026-030	600 Hz
		031-035	1200 Hz
		036-040	2000 Hz
		041-045	4000 Hz
		046-050	6000 Hz
		051-055	25 KHz
		056-060	Fan mode auto
		060-065	Fan mode on
		066-070	Tilt reset
		071-075	Plate 1 invert off

		076-080	Plate 1 invert on
		081-085	Plate 2 invert off
		086-090	Plate 2 invert on
		091-095	Beam 1 invert off
		096-100	Beam 1 invert on
		101-105	Beam 2 invert off
		106-110	Beam 2 invert on
		111-115	Plate swap on
		116-120	Plate swap off
		121-125	Beam swap on
		126-130	Beam swap off
		131-255	No function
24CH			
Channe	Function	Value	Percent/Setting
1	Tilt	000-255	0-100%
2	Fine tilt	000-255	0-100%
3	Master dimmer	000-255	0-100%
4	Plate dimmer	000-255	0-100%
5	Beam dimmer	000-255	0-100%
6	Plate flash duration	000-009	Classic shutter mode:disables duration control
		010-250	Slow to fast
		251-255	100% On,no flash/strobe
7	Plate flash rate	000-009	100%
		010-250	Slow to fast
		251-255	100%
8	Beam flash duration	000-009	Classic shutter mode:disables duration control
		010-250	Slow to fast
		251-255	100% On,no flash/strobe
9	Beam flash rate	000-009	100%
		010-250	Slow to fast
		251-255	100%
10	Plates red	000-255	0-100%
11	Plates green	000-255	0-100%
12	Plates blue	000-255	0-100%
13	Beam FX	000-005	No function
		006-042	Ramp up
		043-085	Ramp down
		086-128	Ramp up-down
		129-171	Random
		172-214	Lightning
		215-255	Spikes
14	Plates foreground	000-000	No function
		001-002	White(2700K)
		003-004	White(3200K)

		005-006	White(4200K)			
		007-008	White(5600K)			
		009-010	White(8000K)			
		011	Blue	R:0	G:0	B:255 W:0
		012-048	Green+/Blue	R:0	G:+	B:255 W:0
		049	Cyan	R:0	G:255	B:255 W:0
		050-086	Green/Blue-	R:0	G:255	B:- W:0
		087	Green	R:0	G:255	B:0 W:0
		088-124	Red+/Green	R:+	G:255	B:0 W:0
		125	Yellow	R:255	G:255	B: W:0
		126-162	Red/Green-	R:255	G:-	B:0 W:0
		163	Red	R:255	G:0	B:0 W:0
		164-200	Red/Blue+	R:255	G:0	B:+ W:0
		201	Magenta	R:255	G:0	B:255 W:0
		202-238	Red-/Blue	R:-	G:0	B:255 W:0
		239	Blue	R:0	G:0	B:255 W:0
		240-247	Color index,fast to slow			
		248-255	Color snap,fast to slow			
15	Plates foreground	000-255	0-100%			
16	Plates background	000-000	No function			
		001-002	White(2700K)			
		003-004	White(3200K)			
		005-006	White(4200K)			
		007-008	White(5600K)			
		009-010	White(8000K)			
		011	Blue	R:0	G:0	B:255 W:0
		012-048	Green+/Blue	R:0	G:+	B:255 W:0
		049	Cyan	R:0	G:255	B:255 W:0
		050-086	Green/Blue-	R:0	G:255	B:- W:0
		087	Green	R:0	G:255	B:0 W:0
		088-124	Red+/Green	R:+	G:255	B:0 W:0
		125	Yellow	R:255	G:255	B:0 W:0
		126-162	Red/Green-	R:255	G:-	B:0 W:0
		163	Red	R:255	G:0	B:0 W:0
		164-200	Red/Blue+	R:255	G:0	B:+ W:0
		201	Magenta	R:255	G:0	B:255 W:0
		202-238	Red-/Blue	R:-	G:0	B:255 W:0
		239	Blue	R:0	G:0	B:255 W:0
		240-247	Color index,fast to slow			
		248-255	Color snap,fast to slow			
17	Plates background	000-255	0-100%			
18	Plates 1 & 2	000-002	Plate FX All select(all on) see Plate Patterns			
	FX select	003-255				
19	Plates 1 & 2	000-005	No function			

		006-124	Left to right,fast to slow
		125-130	No function
		131-249	Right to left,slow to fast
		250-255	No function
20	Plates 1 & 2	000-002	Snap from cell to cell
	FX crossfade	003-255	Fade duration:short to long
21	Beams 1 & 2	000-002	Beam FX All select(all on)
	FX select	003-255	see Beam Patterns
22	Beams 1 & 2 FX movement speed & direction (see Pixel Mapping)	000-005	No function
		006-124	Left to right,fast to slow
		125-130	No function
		131-249	Right to left,slow to fast
		250-255	No function
23	Beams 1 & 2	000-002	Snap from cell to cell
	FX crossfade	003-255	Fade duration:short to long
24	Control*	000-005	No function
		006-010	Off (dimmer mode)
		011-015	Dimmer 1
		016-020	Dimmer 2
		021-025	Dimmer 3
		026-030	600 Hz
		031-035	1200 Hz
		036-040	2000 Hz
		041-045	4000 Hz
		046-050	6000 Hz
		051-055	25 KHz
		056-060	Fan mode auto
		060-065	Fan mode on
		066-070	Tilt reset
		071-075	Plate 1 invert off
		076-080	Plate 1 invert on
		081-085	Plate 2 invert off
		086-090	Plate 2 invert on
		091-095	Beam 1 invert off
		096-100	Beam 1 invert on
		101-105	Beam 2 invert off
		106-110	Beam 2 invert on
		111-115	Plate swap on
		116-120	Plate swap off
		121-125	Beam swap on
		126-130	Beam swap off
		131-255	No function
14CH			
Channe	Function	Value	Percent/Setting

1	Tilt	000-255	0-100%
2	Fine tilt	000-255	0-100%
3	Plate dimmer	000-255	0-100%
4	FX select	000-009	No function
		010-019	Macro 1
		020-029	Macro 2
		030-039	Macro 3
		040-049	Macro 4
		050-059	Macro 5
		060-069	Macro 6
		070-079	Macro 7
		080-089	Macro 8
		090-099	Macro 9
		100-109	Macro 10
		110-119	Macro 11
		120-129	Macro 12
		130-139	Macro 13
		140-149	Macro 14
		150-159	Macro 15
		160-169	Macro 16
		170-179	Macro 17
		180-189	Macro 18
		190-199	Macro 19
		200-255	Macro 20
5	FX movement	000-255	slow to fast
6	Plate background	000-255	Same as 24CH Mode
7	Beam select	000-255	Same as 24CH Mode
8	Beam movement	000-255	Same as 24CH Mode
9	Plate Strobe	000-009	Open
		010-079	Strobe,slow to fast
		080-149	Pulse,slow to fast
		150-219	Random Strobe,slow to fast
		220-255	Open
10	Beam Strobe	000-009	Open
		010-079	Strobe,slow to fast
		080-149	Pulse,slow to fast
		150-219	Random Strobe,slow to fast
		220-255	Open
11	Red	000-255	0-100%
12	Green	000-255	0-100%
13	Blue	000-255	0-100%
14	Beam dimmer	000-255	0-100%
13CH			
Channe	Function	Value	Percent/Setting

1	Tilt	000-255	0-100%
2	Fine tilt	000-255	0-100%
3	Plate dimmer	000-255	0-100%
4	Beam dimmer	000-255	0-100%
5	Plate flash duration	000-009	Classic shutter mode:disables duration control
		010-250	Slow to fast
		251-255	100% On,no flash/strobe
6	Plate flash rate	000-009	100%
		010-250	Slow to fast
		251-255	100%
7	Beam flash duration	000-009	Classic shutter mode:disables duration control
		010-250	Slow to fast
		251-255	100% On,no flash/strobe
8	Beam flash rate	000-009	100%
		010-250	Slow to fast
		251-255	100%
9	Plates red	000-255	0-100%
10	Plates green	000-255	0-100%
11	Plates blue	000-255	0-100%
12	Beam FX	000-005	No function
		006-042	Ramp up
		043-085	Ramp down
		086-128	Ramp up-down
		129-171	Random
		172-214	Lightning
		215-255	Spikes
13	Control*	000-005	No function
		006-010	Off (dimmer mode)
		011-015	Dimmer 1
		016-020	Dimmer 2
		021-025	Dimmer 3
		026-030	600 Hz
		031-035	1200 Hz
		036-040	2000 Hz
		041-045	4000 Hz
		046-050	6000 Hz
		051-055	25 KHz
		056-060	Fan mode auto
		060-065	Fan mode on
		066-070	Tilt reset
		071-075	Plate 1 invert off
		076-080	Plate 1 invert on
		081-085	Plate 2 invert off
		086-090	Plate 2 invert on

		091-095	Beam 1 invert off
		096-100	Beam 1 invert on
		101-105	Beam 2 invert off
		106-110	Beam 2 invert on
		111-115	Plate swap on
		116-120	Plate swap off
		121-125	Beam swap on
		126-130	Beam swap off
		131-255	No function
11CH			
Channe	Function	Value	Percent/Setting
1	Tilt	000-255	0-100%
2	Fine tilt	000-255	0-100%
3	Dimmer	000-255	0-100%
4	Plate flash duration	000-009	Classic shutter mode:disables duration control
		010-250	Slow to fast
		251-255	100%On,no flash/strobe
5	Plate flash rate	000-009	100%
		010-250	Slow to fast
		251-255	100%
6	Beam flash duration	000-009	Classic shutter mode:disables duration control
		010-250	Slow to fast
		251-255	100%On,no flash/strobe
7	Beam flash rate	000-009	100%
		010-250	Slow to fast
		251-255	100%
8	Plates red	000-255	0-100%
9	Plates green	000-255	0-100%
10	Plates blue	000-255	0-100%
11	Beam	000-255	0-100%
8CH			
Channe	Function	Value	Percent/Setting
1	Tilt	000-255	0-100%
2	Fine tilt	000-255	0-100%
3	Dimmer	000-255	0-100%
4	Strobe	000-009	Open
		010-079	Strobe,slow to fast
		080-149	Pulse,slow to fast
		150-219	Random Strobe,slow to fast
		220-255	Open
5	Red	000-255	0-100%
6	Green	000-255	0-100%
7	Blue	000-255	0-100%
8	Beam	000-255	0-100%

7. 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.

8. 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.