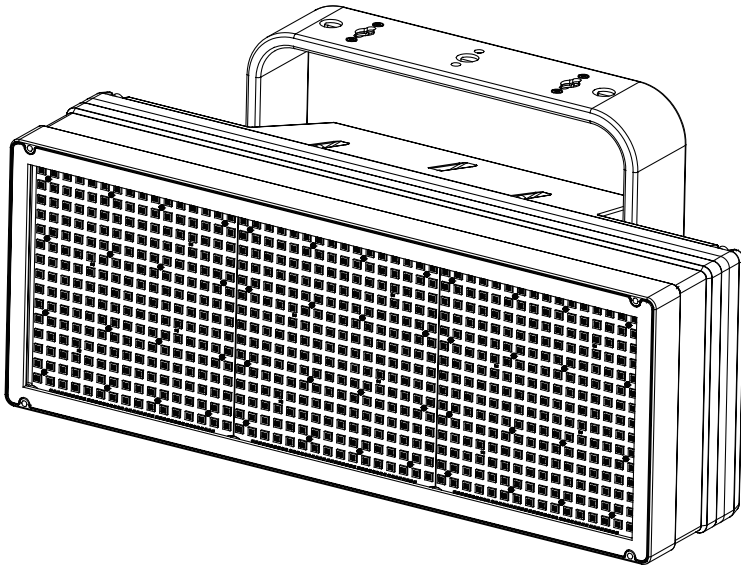




Radiant 3000+

USER MANUAL

CONTENTS

1.SAFETY GUIDE	01
3.DIMENSION.....	02
4. OVERVIEW	03
4. SPECIFICATION	04
5.PHOTOMETRICS.....	05
5.LIGHTING SETTINGS	06
5.1 MENU.....	06
6. INSTALLATION	09
6.1 Installation instructions and precautions	09
6.2 Power Connection	11
6.3 SIGNAL CONNECTION	12
6.4 DMX Connection	12
6.5 PIXEL MAPPING	14
6.6 DMX CHART	15
7. EXPLODED VIEW	29
8.TROUBLESHOOTING	30
9.MAINTENANCE AND CLEANING	31

1. SAFETY GUIDE



The product is packed in good condition before shipment. Operate the product according to the user manual. Failures caused by improper operation are not covered by the warranty.



Risk of electric shock during operation of electrical equipment. Do not touch electrical parts.



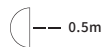
Do not look directly at the light source. It may cause eye injury.



To protect the environment, dispose of or recycle the product according to local regulations at the end of its service life.



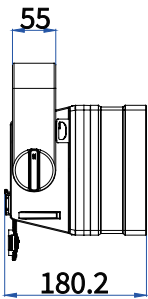
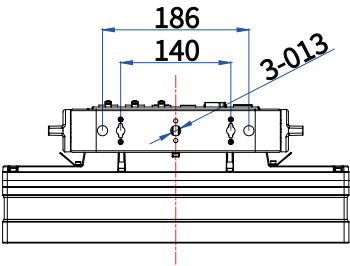
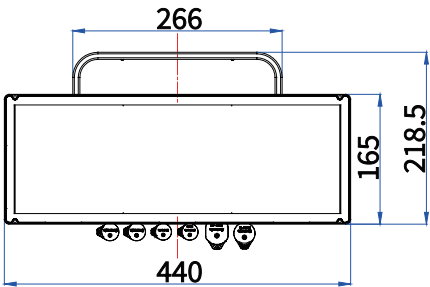
Warning: Replace any cracked protective shield.



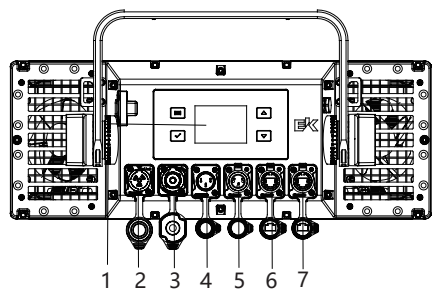
Minimum distance to illuminated objects: 0.5 m.

- The light source in this fixture shall be replaced by the manufacturer, its service agent, or a similarly qualified person. If the external flexible cable or cord of this fixture is damaged, it shall be replaced by the manufacturer, its service agent, or a qualified person to avoid danger.
- After receiving the fixture, unpack and check whether there is any damage caused during transport. If damage is found, do not use the fixture. Contact the supplier or manufacturer immediately.
- Install the fixture in a well-ventilated area. Keep it at least 50 cm away from walls and make sure the ventilation openings are not blocked.
- Do not open the fixture or repair it by yourself.
- Electrical connection must be carried out by qualified installers.
- Each fixture must be safely grounded. Electrical installation must comply with applicable standards.
- Do not use a power cable with damaged insulation. Do not place the power cable on other cables. Disconnect the power cable when the fixture is not in use or before cleaning. Do not pull hard on the plug or drag the power cable.
- There are no user-serviceable parts inside this fixture. Before operating the fixture, check that all parts are properly connected and all screws are secure.
- If you have any questions, contact the supplier or manufacturer in time.

3.DIMENSION



4. OVERVIEW



- 1.Display
2. Power In
- 3.Power Out
- 4.DMX In
- 5.DMX Out
- 6/7. Ethernet port

Display panel button function description

Control Panel	Illustration	Description	Function
	Menu Option	Enter Menu	Menu Operation
	Up	Confirm	Increase Numeric Value
	down	Scroll Down	Decrease Numeric Value
	Confirm	Confirm	Save Setting

Initialization:  + 

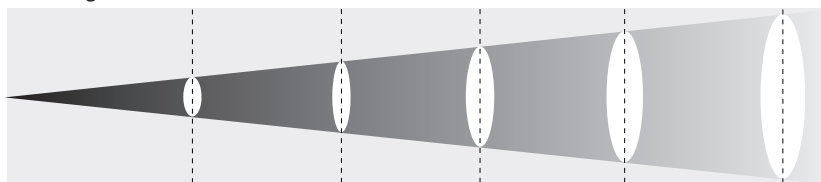
If you want to flip the display, hold UP + DOWN buttons for 3seconds to set display orientation.
Without ex ternal power source, long press the right bu t ton for 3 seconds, enter the menu to set parameters

4. SPECIFICATION

Specification of Radiant 3000+	
PHOTOMETRICS	
Light Source	RGBW 4-in-1 LED: 4W*720
Color Temperature	2800-10000K
Output	Continuous:26983lm Peak value in Strobe: 150.000lm
CRI	> 90
R9	> 90
DUV	± 0.002
Main wavelength	R:622nm G:527nm B:455nm W:583nm
TM-30-15rg/rf	3200K:104/93, 5600K:105/91
TLCI	> 80
Lifespan	30000h
Beam Angle	118.4°
Field Angle	158.7°
Safety Distance	0.5m
KEY FEATURE	
Tilt Movement	180° (Manual)
Color System	RGBW
CCT	2800K ~ 10000K
Strobe	1 ~ 30Hz
Dimming	4 dimming curves, 0 ~ 100% dimming
POWER	
Mains	100 ~ 240VAC, 50 ~ 60Hz-37.3V*25.5A=951
Consumption	Static: 1007W@230V ; 1038W@120V
Power Connection	2PCS@230V, 1PC@120V
Data Connection	XLR In/Out for DMX, linking up to 32pcs; RJ45 for ArtNET
Power Factor	0.99@120V 0.98@230V
Ambient	-20° ~ 45°;
PSU	100-240VAC 50/60Hz/37V*32.4A=1200W(rated power)
CONTROL	
Protocol	DMX512/Art-Net/sACN/RDM
DMX Channels	4 Basic modes + 12 Pixel Modes + 4 Advanced Modes
Display	240RGB*320 2.8-inch TFT display
Refresh Frequency	1KHz/2KHz/4KHz/6KHz/25KHz
Pixel Matrix	12*5
PHYSICAL	
Dimension	440mm*218.5mm*180.2mm
Weight	9.5KG
IP rating	IP66
Cooling System	IP low noise fan for forced air
Housing	Die-cast magnesium Alloy
Installation	Sit-flat floor mounting, side hanging and flown mounting

5. PHOTOMETRICS

Beam Angle 118°



Distance(3m)	3m	5m	7m	10m	20m
R(Lux)	253	91	46	23	6
G(Lux)	976	351	179	88	22
B(Lux)	170	61	31	15	4
W(Lux)	1188	428	218	107	27
ALL(Lux)	1182	426	217	106	27
2800K(Lux)	918	330	169	83	21
3200K(Lux)	1190	428	219	107	27
4000K(Lux)	1210	436	222	109	27
5600K(Lux)	1150	414	211	104	26
6500K(Lux)	1140	410	209	103	26
8000K(Lux)	1193	429	219	107	27
10000K(Lux)	1071	386	197	96	24

5.LIGHTING SETTINGS

5.1 MENU

\	Main Menu	Menu level 2	Menu level 3	Menu level 4	Menu level 5	Remark
1	DMX Setting	DMX Address	1~512			
		DMX Channel	Basic	STATIC		
				STROBE	R=0~255	
					G=0~255	
					B=0~255	
					W=0~255	
			PIXEL			
			RGBW STROBE			
			Pixels	PIXELS60	Pixel Mapping	
				PIXELS30		
				PIXELS36		
				PIXELS18		
				PIXELS12		
				PIXELS3		
				PIXELS12 2		
				PIXELS5		
				PIXELS6		
				PIXELS4		
				PIXELS3 2		
				PIXELS 1		
				Advanced		ADVANCED 1
			ADVANCED 2			
			ADVANCED 3			
			ADVANCED 4			
2	Protocol	DMX				
		Artnet				
		sACN				
		Artnet+DMX				
		sACN+DMX				
3	Ethernet Setting	IP Address	xxx.xxx.xxx.xxx			
		Artnet Universe	0-32767			
		sACN Universe	1-63999			
		Start Address	1-512			
		Net To DMX	Off			
			On			
4	Stand Alone	Master/Slave	Slave			
			Master			
		Color Macros	Fixed Color	R		
				G		
				B		
				W		
				GB		
				RB		
				RG		
				RW		
				GW		
				BW		
				RGB		
				RGW		
				RBW		
				GBW		
				RGBW		
		Color Temperature	2800K			
			3000K			

5.2 MENU

4	Stand Alone	Color Macros		3200K			
				3500K			
				4000K			
				4500K			
				5000K			
				5600K			
				6000K			
				6500K			
				7000K			
				7500K			
				8000K			
				8500K			
				9000K			
				9500K			
				10000K			
			Manual Color	Red	0~255		
				Green	0~255		
				Blue	0~255		
				White	0~255		
		Auto Show	Show 1	Speed	1~100		
			Show 2				
			Show 3				
			Show 4				
			Show 5	Foreground	BLACK R G B W GB RB RG RW GW BW RGB RGW RBW GBW RGBW		
			Show 6				
			Show 7				
			Show 8				
			Show 9	Background			
			Show 10				
			Show 11				
			Show 12				
			...	Fade Speed		1~255	
			...				
			Show 36				
			Show 37				
			Show 38				
			...				
			Show 108				
5	Settings	Dimmer Setting	Dimmer Mode	Off			
				Dimmer 1			
				Dimmer 2			
				Dimmer 3			
			Dimmer Curve	Auto			
				S Curve			
				Linear			
				Square			
				Inverse Square			
		LED Setting	LED Frequency	1000Hz			
				2000Hz			
				4000Hz			
				6000Hz			
				25KHz			
			Invert Mapping	No			
				Yes			

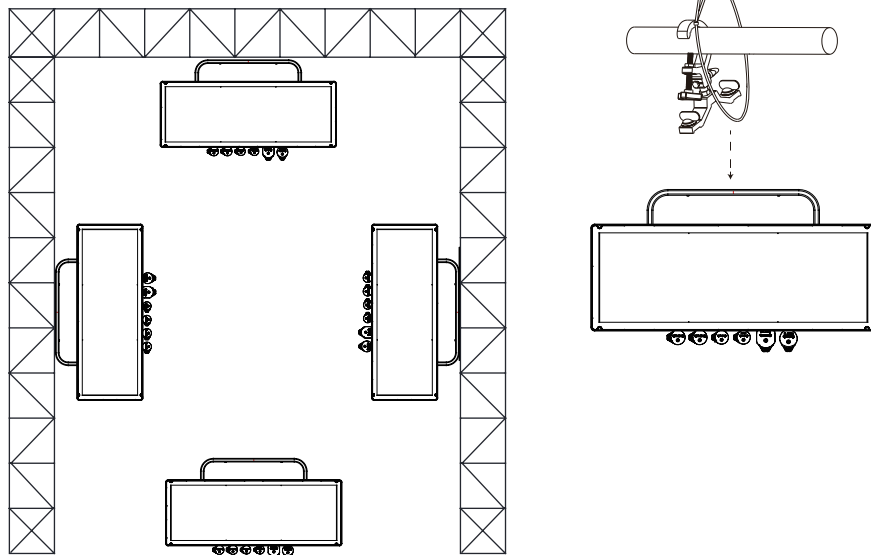
5.3 MENU

5	Settings	Fan Mode	Auto			
			On			
			Off			
			Silent			
		Display Setting	Back Light	30S		
				On		
			Flip Display	No		
				Yes		
				Auto		
			Key Lock	No		
				Yes		
		DMX FAULT	HOLD			
			BLACKOUT			
			STAND ALONE			
			EMERGENCY			
6	Advanced	Code:xxx	Color Calibration	Off		
				User Calibration	Red	125~255
					Green	125~255
					Blue	125~255
					White	125~255
			Factory Reset	No		
7	Information	Fixture Hours	0~65535H			
		Led Hours	0~65535H			
		Version	DISP-V1.x			
			DRV-V1.x			
		Temperature	LED1: 40°C			
						
			LED12: 40°C			
		Fan Speed	xxx%			
		UID:	*****			
		Error Infomation				

6. INSTALLATION

6.1 Installation instructions and precautions

6.1.1 Installation Diagram



The fixture meets IP66 protection rating and is designed for indoor and outdoor events. This means it provides the following protection:

1. Dust protection. Dust cannot enter the fixture in large quantities or affect normal operation.
2. Water-spray protection. Water sprayed from any direction will not damage the equipment.

The equipment must be installed by professionals. It must be installed outside walkways and seating areas, or away from any area where unauthorized persons can touch the fixture by hand. Do not stand directly under the fixture during installation, removal, or maintenance.

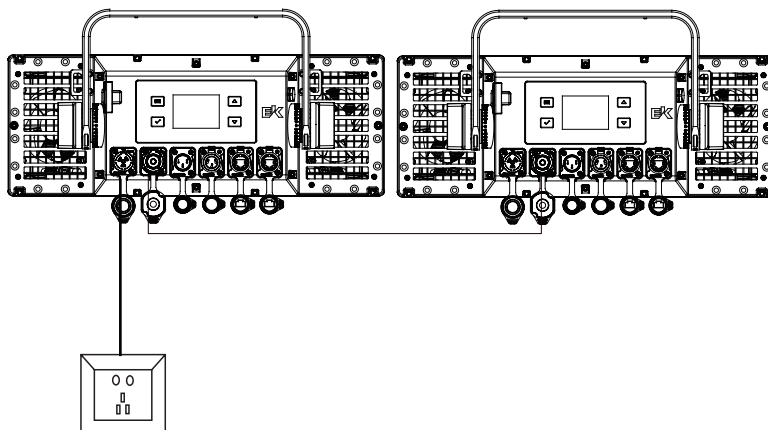
When installing the fixture, make sure it is securely fixed to prevent shaking or falling during operation. The load-bearing structure must support 10 times the weight of the fixture without deformation. A safety cable must be used during installation. The safety cable must support 12 times the weight of the fixture and prevent the fixture from falling if the clamp fails.

This fixture can be fully operated in three installation positions: upside-down hanging, placement on a flat horizontal surface, or side mounting. Always install and use a safety cable for protection to prevent accidental damage or personal injury if the clamp fails.

Hanging Installation

1. Keep the fixture away from flammable materials, such as decorative materials, during installation. Maintain a distance of at least 0.5 m.
2. For hanging installation, a safety cable must be installed. The safety cable must support at least 10 times the weight of the fixture.
3. For hanging installation, the mounting device used to fix the fixture must support at least 10 times the weight of the fixture.
4. As shown in the diagram, the safety cable must pass through the safety cable hole of the fixture and the mounting structure. Make sure the structure connected to the fixture is secure.

6.2 Power Connection



Power connection instructions

Due to power load limitations, a 1.5mm² power cable can power-link a maximum of 2 fixtures at 230V

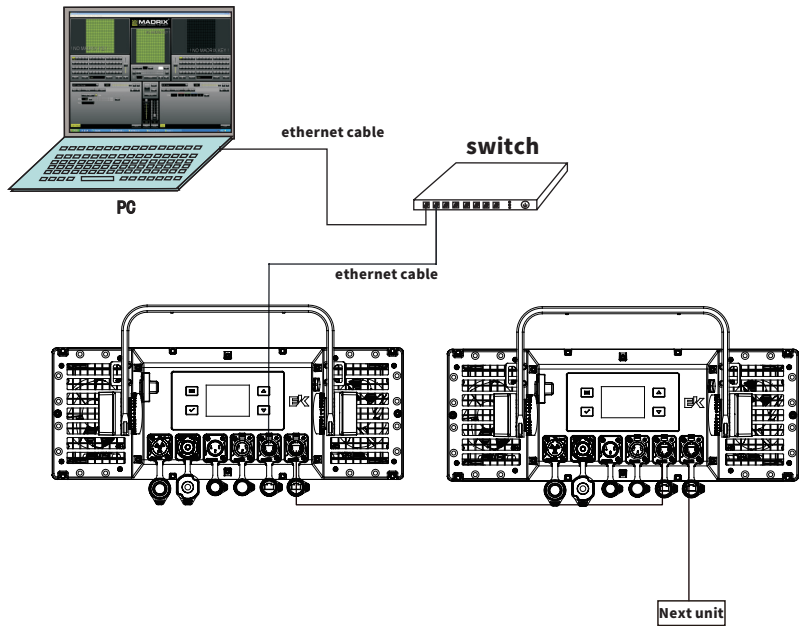


Warning

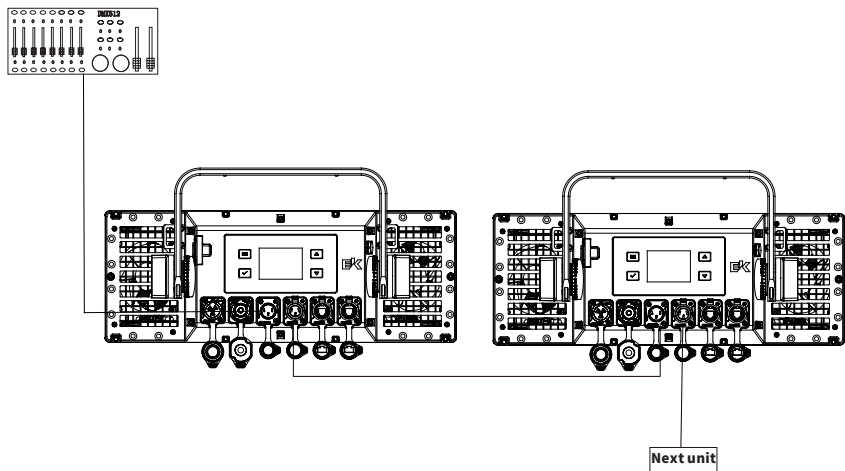
Do not connect too many fixtures to one power cable or overload the cable.
Do not use a power cable with damaged insulation. Do not place the power cable on other cables.
Disconnect the power cable when the fixture is not in use or before cleaning.
Do not pull hard on the plug or drag the power cable.

6.3 SIGNAL CONNECTION

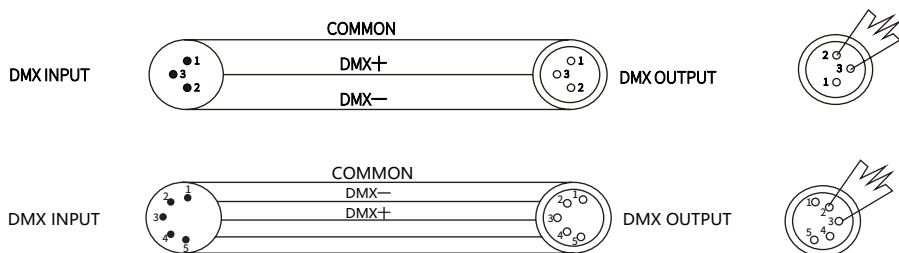
Network connection



DMX Connection



DMX CONNECTION INSTRUCTIONS



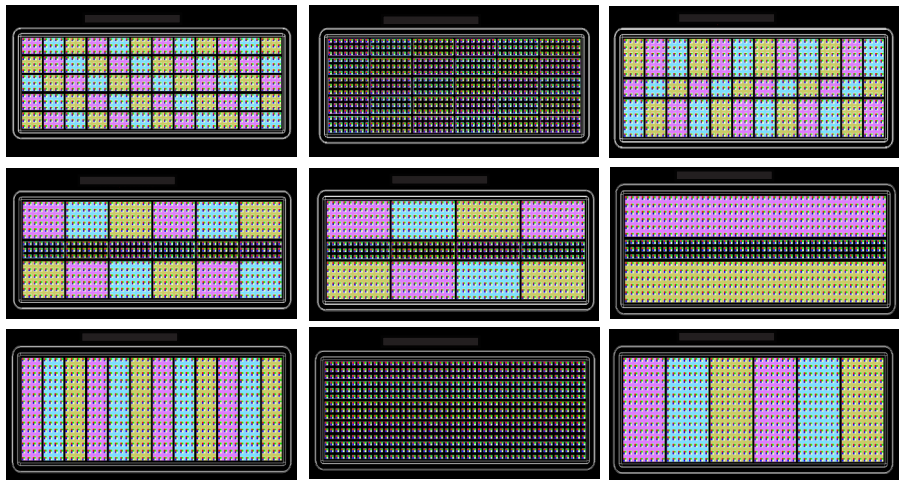
- To reduce signal errors and avoid signal attenuation and interference during transmission, a 120-ohm, 1/4 W resistor can be connected between pin 2 and pin 3 of the DMX output of the last fixture.
- Connect fixtures with XLR signal cables. Connect one end to the output port of one fixture and the other end to the input port of the next fixture.
- Signal cables must be connected in series only. Do not connect them in parallel.
- DMX512 signal transmission speed is high. Damaged signal cables, poor soldering, or poor contact may affect signal transmission and cause the system to shut down.
- When the power of one unit is disconnected, the DMX input and output are bypassed to maintain continuity of the DMX line.
- Each fixture must have an address code so that it can receive information from the console.
- A terminator must be installed at the end of the DMX512 system to reduce signal transmission errors.

DMX Address code setting

MODE	Allocation	Address of 1st fixture	Address of 2st fixture	Address of 3st fixture
ADVANCED 1	001 -015	001	016	031
ADVANCED 2	001 -251	001	252	001
ADVANCED 3	001 -027	001	028	055
ADVANCED 4	001 -263	001	264	001

(Refer to the figure above) The number of lamps added after the 4th one; the address code is based on the channel, and so on.

6.5PIXEL MAPPING



6.6DMX CHART

BASIC 5CH - STATIC				
Channel	Function	Value	Percent/Setting	Remark
1	Red	000-255	Red intensity	
2	Green	000-255	Green intensity	
3	Blue	000-255	Blue intensity	
4	White	000-255	White intensity	
5	CONTROL (Hold 3 Second)	000-005	None	
		006-010	Dimmer Mode Off	
		011-015	Dimmer Mode 1	
		016-020	Dimmer Mode 2	
		021-025	Dimmer Mode 3	
		026-030	Dimmer Mode Auto	
		031-035	Dimmer curve S	
		036-040	Dimmer curve Linear	
		041-045	Dimmer curve Square	
		046-050	Dimmer curve Inverse Square	
		051-055	Led Frequency=1000Hz	
		056-060	Led Frequency=2000Hz	
		061-065	Led Frequency=4000Hz	
		066-070	Led Frequency=6000Hz	
		071-075	Led Frequency=25000Hz	
		076-080	Fan Mode Auto	
		081-085	Fan Mode On	
		086-090	Fan Mode Off	
		091-095	Fan Mode Silent	
		096-100	RESERVED	
		101-105	Invert Mapping Off	
		106-110	Invert Mapping On	
		111-250	RESERVED	
		251-255	Complete Reset	
BASIC 6CH- STROBE (color could be choosed by menu)				
Channel	Function	Value	Percent/Setting	Remark
1	DIMMER	000-255	Minimum to maximum	
2	DIMMER FINE	000-255	Minimum to maximum	
3	FLASH DURATION	000-255	15ms-990ms	
4	FLASH RATE	000-010	No Flash	
		011-255	Strobe slow to fast	
5	FLASH FX	000-002	No Effect	
		003-005	Static	If selected, the fixture will works as wash, only dimmer control.
		006-042	Ramp up	
		043-085	Ramp down	
		086-128	Ramp up-down	
		129-171	Random	
		172-214	Lightning	
		215-255	Spikes	
6	CONTROL (Hold 3 Second)	000-005	None	
		006-010	Dimmer Mode Off	
		011-015	Dimmer Mode 1	
		016-020	Dimmer Mode 2	
		021-025	Dimmer Mode 3	
		026-030	Dimmer Mode Auto	
		031-035	Dimmer curve S	
		036-040	Dimmer curve Linear	
		041-045	Dimmer curve Square	
		046-050	Dimmer curve Inverse Square	

6.6.2 DMX Chart

		051-055	Led Frequency=1000Hz	
		056-060	Led Frequency=2000Hz	
		061-065	Led Frequency=4000Hz	
		066-070	Led Frequency=6000Hz	
		071-075	Led Frequency=25000Hz	
		076-080	Fan Mode Auto	
		081-085	Fan Mode On	
		086-090	Fan Mode Off	
		091-095	Fan Mode Silent	
		096-100	RESERVED	
		101-105	Invert Mapping Off	
		106-110	Invert Mapping On	
		111-250	RESERVED	
		251-255	Complete Reset	
BASIC 241CH- PIXEL				
Channel	Function	Value	Percent/Setting	Remark
1	PIXEL 1 RED	000-255	Red intensity	
2	PIXEL 1 GREEN	000-255	Green intensity	
3	PIXEL 1 BLUE	000-255	Blue intensity	
4	PIXEL 1 WHITE	000-255	White intensity	
	...			
237	PIXEL 60 RED	000-255	Red intensity	
238	PIXEL 60 GREEN	000-255	Green intensity	
239	PIXEL 60 BLUE	000-255	Blue intensity	
240	PIXEL 60 WHITE	000-255	White intensity	
241	CONTROL (Hold 3 Second)	000-005	None	
		006-010	Dimmer Mode Off	
		011-015	Dimmer Mode 1	
		016-020	Dimmer Mode 2	
		021-025	Dimmer Mode 3	
		026-030	Dimmer Mode Auto	
		031-035	Dimmer curve S	
		036-040	Dimmer curve Linear	
		041-045	Dimmer curve Square	
		046-050	Dimmer curve Inverse Square	
		051-055	Led Frequency=1000Hz	
		056-060	Led Frequency=2000Hz	
		061-065	Led Frequency=4000Hz	
		066-070	Led Frequency=6000Hz	
		071-075	Led Frequency=25000Hz	
		076-080	Fan Mode Auto	
		081-085	Fan Mode On	
		086-090	Fan Mode Off	
		091-095	Fan Mode Silent	
		096-100	RESERVED	
		101-105	Invert Mapping Off	
		106-110	Invert Mapping On	
		111-250	RESERVED	
		251-255	Complete Reset	
BASIC 13CH- RGBW STROBE				
Channel	Function	Value	Percent/Setting	Remark
1	RED	000-255	Red intensity	
2	GREEN	000-255	Green intensity	
3	BLUE	000-255	Blue intensity	
4	WHITE	000-255	White intensity	

6.6.3 DMX Chart

5	CCT	000-255	Color Temperature	
6	TINT	000-255		
7	CROSSFADE	000-255		
8	DIMMER	000-255	Minimum to maximum	
9	DIMMER FINE	000-255	Minimum to maximum	
10	FLASH DURATION	000-255	15ms-990ms	
11	FLASH RATE	000-010	No Flash	
		011-255	Strobe slow to fast	
		000-002	No Effect	
12	FLASH FX	003-005	Static	If selected, works as wash, only dimmer and color control.
		006-042	Ramp up	
		043-085	Ramp down	
		086-128	Ramp up-down	
		129-171	Random	
		172-214	Lightning	
		215-255	Spikes	
13	CONTROL (Hold 3 Second)	000-005	None	
		006-010	Dimmer Mode Off	
		011-015	Dimmer Mode 1	
		016-020	Dimmer Mode 2	
		021-025	Dimmer Mode 3	
		026-030	Dimmer Mode Auto	
		031-035	Dimmer curve S	
		036-040	Dimmer curve Linear	
		041-045	Dimmer curve Square	
		046-050	Dimmer curve Inverse Square	
		051-055	Led Frequency=1000Hz	
		056-060	Led Frequency=2000Hz	
		061-065	Led Frequency=4000Hz	
		066-070	Led Frequency=6000Hz	
		071-075	Led Frequency=25000Hz	
		076-080	Fan Mode Auto	
		081-085	Fan Mode On	
		086-090	Fan Mode Off	
		091-095	Fan Mode Silent	
		096-100	RESERVED	
		101-105	Invert Mapping Off	
		106-110	Invert Mapping On	
		111-250	RESERVED	
		251-255	Complete Reset	

PIXELS - PIXELS							
PIXEL MODE	DMX Artnet	Art-net+DMX Artnet DMX		Function	Value	Percent/Setting	Remark
	1	/	1	DIMMER	000-255	Minimum to maximum	
	2	/	2	DIMMER FINE	000-255	Minimum to maximum	
	3	/	3	FLASH DURATION	000-255	15ms-990ms	
	4	/	4	FLASH RATE	000-010	No Flash	Single flash with ch 1
					011-255	Strobe slow to fast	

6.6.4DMX Chart

	5	/	5	FLASH FX		000-002	No Effect	If selected, the fixture will works as wash, only dimmer control.
						003-005	Static	
						006-042	Ramp up	
						043-085	Ramp down	
						086-128	Ramp up-down	
						129-171	Random	
						172-214	Lightning	
						215-255	Spikes	
	6	/	6	CCT		000-255	Color Temperature	
	7	/	7	TINT		000-255		
	8	/	8	CROSSFADE		000-255		
	9	/	9	CONTROL(Hold 3 Second)		000-005	None	
						006-010	Dimmer Mode Off	
						011-015	Dimmer Mode 1	
						016-020	Dimmer Mode 2	
						021-025	Dimmer Mode 3	
						026-030	Dimmer Mode Auto	
						031-035	Dimmer curve S	
						036-040	Dimmer curve Linear	
						041-045	Dimmer curve Square	
						046-050	Dimmer curve Inverse Square	
						051-055	Led Frequency=1000Hz	
						056-060	Led Frequency=2000Hz	
						061-065	Led Frequency=4000Hz	
						066-070	Led Frequency=6000Hz	
						071-075	Led Frequency=25000Hz	
						076-080	Fan Mode Auto	
						081-085	Fan Mode On	
						086-090	Fan Mode Off	
						091-095	Fan Mode Silent	
						096-100	RESERVED	
						101-105	Invert Mapping Off	
						106-110	Invert Mapping On	
						111-250	RESERVED	
						251-255	Complete Reset	
1	10	1	/	PIXEL 1	RED	000-255	Red intensity	Pixel Mapping
	11	2	/		GREEN	000-255	Green intensity	
	12	3	/		BLUE	000-255	Blue intensity	
	13	4	/		WHITE	000-255	White intensity	
3	14	5	/	PIXEL 3	RED	000-255	Red intensity	
	15	6	/		GREEN	000-255	Green intensity	
	16	7	/		BLUE	000-255	Blue intensity	
	17	8	/		WHITE	000-255	White intensity	
	18	9	/		RED	000-255	Red intensity	
	19	10	/		GREEN	000-255	Green intensity	
	20	11	/		BLUE	000-255	Blue intensity	
	21	12	/		WHITE	000-255	White intensity	

6.6.5 DMX Chart

4	22	13	/	PIXEL 4	RED	000-255	Red intensity	
	23	14	/		GREEN	000-255	Green intensity	
	24	15	/		BLUE	000-255	Blue intensity	
	25	16	/		WHITE	000-255	White intensity	
5	26	17	/	PIXEL 5	RED	000-255	Red intensity	
	27	18	/		GREEN	000-255	Green intensity	
	28	19	/		BLUE	000-255	Blue intensity	
	29	20	/		WHITE	000-255	White intensity	
6	30	21	/	PIXEL 6	RED	000-255	Red intensity	
	31	22	/		GREEN	000-255	Green intensity	
	32	23	/		BLUE	000-255	Blue intensity	
	33	24	/		WHITE	000-255	White intensity	
	...	...						
12	54	45	/	PIXEL 12	RED	000-255	Red intensity	
	55	46	/		GREEN	000-255	Green intensity	
	56	47	/		BLUE	000-255	Blue intensity	
	57	48	/		WHITE	000-255	White intensity	
	...	...						
18	78	69	/	PIXEL 18	RED	000-255	Red intensity	
	79	70	/		GREEN	000-255	Green intensity	
	80	71	/		BLUE	000-255	Blue intensity	
	81	72	/		WHITE	000-255	White intensity	
	...	...						
30	126	117	/	PIXEL 30	RED	000-255	Red intensity	
	127	118	/		GREEN	000-255	Green intensity	
	128	119	/		BLUE	000-255	Blue intensity	
	129	120	/		WHITE	000-255	White intensity	
	...	...						
36	150	141	/	PIXEL 36	RED	000-255	Red intensity	
	151	142	/		GREEN	000-255	Green intensity	
	152	143	/		BLUE	000-255	Blue intensity	
	153	144	/		WHITE	000-255	White intensity	
	...	...		...	...	...		
60	246	237	/	PIXEL 60	RED	000-255	Red intensity	
	247	238	/		GREEN	000-255	Green intensity	
	248	239	/		BLUE	000-255	Blue intensity	
	249	240	/		WHITE	000-255	White intensity	

ADVANCED:

1. Background could be shining only when the foreground is strobing or running an effect.
2. In case both the foreground and background are shining simultaneously, then foreground takes precedence over the background.
3. In case both the first and second layer effects are active simultaneously, the second layer takes precedence.
4. In case the foreground and Layer 1 use the same color, Layer 1 takes precedence. only when Layer 1 does not control the color, then foreground and background can be overlaid. (ADVANCED 3/4)

ADVANCED - ADVANCED 1

Channel	Function	Value	Percent/Setting	Remark
1	DIMMER	000-255	Minimum to maximum	
2	DIMMER FINE	000-255	Minimum to maximum	
3	FLASH DIMMER	000-255	Strobe dimmer	
4	FLASH STROBE	000-030	No flash/Closed	
		031-100	Strobe slow to fast	
		101-130	Open	
		131-200	Random strobe slow to fast	
		201-255	Open	
5	FLASH RED	000-255	Red intensity	
6	FLASH GREEN	000-255	Green intensity	
7	FLASH BLUE	000-255	Blue intensity	

6.6.6 DMX Chart

8	FLASH WHITE	000-255	White intensity	
9	CCT	000-255	Color Temperature	
10	TINT	000-255		
11	CROSSFADE	000-255		
12	BG DIMMER	000-255	Strobe Dimmer	The background can light up only when foreground strobes or runs performance.
13	BG STROBE	000-030	No flash/Closed	
		031-100	Strobe slow to fast	
		101-130	Open	
		131-200	Random strobe slow to fast	
		201-255	Open	
14	BG RED	000-255	Red intensity	
15	BG GREEN	000-255	Green intensity	
16	BG BLUE	000-255	Blue intensity	
17	BG WHITE	000-255	White intensity	
18	AUTO FX	000-010	No Function	
		011-012	FX 1	
		013-014	FX 2	
		015-016	FX 3	
		017-018	FX 4	
		019-020	FX 5	
		021-022	FX 6	
		023-024	FX 7	
		025-026	FX 8	
		027-028	FX 9	
		029-030	FX 10	
		031-032	FX 11	
		033-034	FX 12	
		035-036	FX 13	
		037-038	FX 14	
		039-040	FX 15	
		...	...	
		079-080	FX 35	
		081-082	FX 36	
		083-132	Random pixel(with density)	From 1 to 10 pixel, 1 more pixel every 5 steps
		133	FX 37	
		134	FX 38	
		135	FX 39	
		...	...	
		202	FX 106	
		203	FX 107	
		204	FX 108	
		205-255	RESERVED(TBD)	
19	FX SPEED	000-050	Static indexing	
		051-255	From slow to fast	
20	FX FADE	000-255		

6.6.7 DMX Chart

21	CONTROL(Hold 3 Second)	000-005	None	
		006-010	Dimmer Mode Off	
		011-015	Dimmer Mode 1	
		016-020	Dimmer Mode 2	
		021-025	Dimmer Mode 3	
		026-030	Dimmer Mode Auto	
		031-035	Dimmer curve S	
		036-040	Dimmer curve Linear	
		041-045	Dimmer curve Square	
		046-050	Dimmer curve Inverse Square	
		051-055	Led Frequency=1000Hz	
		056-060	Led Frequency=2000Hz	
		061-065	Led Frequency=4000Hz	
		066-070	Led Frequency=6000Hz	
		071-075	Led Frequency=25000Hz	
		076-080	Fan Mode Auto	
		081-085	Fan Mode On	
		086-090	Fan Mode Off	
		091-095	Fan Mode Silent	
		096-100	RESERVED	
		101-105	Invert Mapping Off	
		106-110	Invert Mapping On	
		111-250	RESERVED	
		251-255	Complete Reset	

ADVANCED - ADVANCED 2						
DMX	Art-net+DMX		Function	Value	Percent/Setting	Remark
Artnet	Artnet	DMX				
1	/	1	DIMMER	000-255	Minimum to maximum	
2	/	2	DIMMER FINE	000-255	Minimum to maximum	
3	/	3	FLASH DIMMER	000-255	0-100%	
4	/	4	FLASH STROBE	000-030	No flash/Closed	
				031-100	Strobe slow to fast	
				101-130	Open	
				131-200	Random strobe slow to fast	
				201-255	Open	
5	/	5	BG DIMMER	000-255	Strobe Dimmer	
6	/	6	BG STROBE	000-030	No flash/Closed	
				031-100	Strobe slow to fast	
				101-130	Open	
				131-200	Random strobe slow to fast	
				201-255	Open	
7	/	7	BG RED	000-255	Red intensity	
8	/	8	BG GREEN	000-255	Green intensity	
9	/	9	BG BLUE	000-255	Blue intensity	
10	/	10	BG WHITE	000-255	White intensity	

6.6.8 DMX Chart

11	/	11	AUTO FX	000-010	No Function	
				011-012	FX 1	
				013-014	FX 2	
				015-016	FX 3	
				017-018	FX 4	
				019-020	FX 5	
				021-022	FX 6	
				023-024	FX 7	
				025-026	FX 8	
				027-028	FX 9	
				029-030	FX 10	
				031-032	FX 11	
				033-034	FX 12	
				035-036	FX 13	
				037-038	FX 14	
				039-040	FX 15	
				...	...	
				079-080	FX 35	
				081-082	FX 36	
				083-132	Random pixel(with density)	From 1 to 10 pixel, 1 more pixel every 5 steps
				133	FX 37	
				134	FX 38	
				135	FX 39	
				...	...	
				202	FX 106	
				203	FX 107	
				204	FX 108	
				205-255	RESERVED(TBD)	
12	/	12	FX SPEED	000-050	Static indexing	
13		13	FX FADE	051-255	From slow to fast	
14	/	14	CONTROL (Hold 3 Second)	000-005	None	
				006-010	Dimmer Mode Off	
				011-015	Dimmer Mode 1	
				016-020	Dimmer Mode 2	
				021-025	Dimmer Mode 3	
				026-030	Dimmer Mode Auto	
				031-035	Dimmer curve S	
				036-040	Dimmer curve Linear	
				041-045	Dimmer curve Square	
				046-050	Dimmer curve Inverse Square	
				051-055	Led Frequency=1000Hz	
				056-060	Led Frequency=2000Hz	
				061-065	Led Frequency=4000Hz	
				066-070	Led Frequency=6000Hz	
				071-075	Led Frequency=25000Hz	
				076-080	Fan Mode Auto	
				081-085	Fan Mode On	
				086-090	Fan Mode Off	
				091-095	Fan Mode Silent	
				096-100	RESERVED	
				101-105	Invert Mapping Off	
				106-110	Invert Mapping On	
				111-250	RESERVED	
				251-255	Complete Reset	

6.6.9 DMX Chart

15	/	15	CCT	000-255	Color Temperature	
16	/	16	TINT	000-255		
17		17	CROSSFADE	000-255		
18	1	/	PIXEL 1 RED	000-255	Red intensity	
19	2	/	PIXEL 1 GREEN	000-255	Green intensity	
20	3	/	PIXEL 1 BLUE	000-255	Blue intensity	
21	4	/	PIXEL 1 WHITE	000-255	White intensity	
...	...	/	...	...	...	
254	237	/	PIXEL 60 RED	000-255	Red intensity	
255	238	/	PIXEL 60 GREEN	000-255	Green intensity	
256	239	/	PIXEL 60 BLUE	000-255	Blue intensity	
257	240	/	PIXEL 60 WHITE	000-255	White intensity	

ADVANCED - ADVANCED 3						
Channel	BASIC FUNCTION	FUNCTION WITH L2 FX	Value	Setting	WITH FX	Remark
1	DIMMER		000-255	Minimum to maximum		
2	DIMMER FINE		000-255	Minimum to maximum		
3	FLASH DIMMER	LAYER2 DIMMER	000-255	0-100%	Layer 2 dimmer	
4	FLASH STROBE	LAYER2 STROBE	000-030	No flash/ Closed	- Same	No output - Single flash with ch 1
			031-100	Strobe slow to fast	- Same	
			101-130	Open	- Same	
			131-200	Random strobe slow to fast	- Same	
			201-255	Open	- Same	
5	FLASH RED	LAYER2 RED	000-255	Red intensity	Layer 2 Red	
6	FLASH GREEN	LAYER2 GREEN	000-255	Green intensity	Layer 2 Green	
7	FLASH BLUE	LAYER2 BLUE	000-255	Blue intensity	Layer 2 Blue	
8	FLASH WHITE	LAYER2 WHITE	000-255	White intensity	Layer 2 White	
9	CCT		000-255	Color Temperature		
10	TINT		000-255			
11	CROSSFADE		000-255			
12	BG DIMMER		000-255	Strobe Dimmer		
13	BG STROBE		000-030	No flash/Closed		
			031-100	Strobe slow to fast		
			101-130	Open		
			131-200	Random strobe slow to fast		
			201-255	Open		
14	BG RED		000-255	Red intensity		
15	BG GREEN		000-255	Green intensity		
16	BG BLUE		000-255	Blue intensity		
17	BG WHITE		000-255	White intensity		
18	LAYER1 DIMMER		000-255	Strobe Dimmer		
19	LAYER1 STROBE		000-030	No flash/Closed		
			031-100	Strobe slow to fast		
			101-130	Open		
			131-200	Random strobe slow to fast		
			201-255	Open		
20	LAYER1 RED		000-255	Red intensity		
21	LAYER1 GREEN		000-255	Green intensity		

6.6.10 DMX Chart

22	LAYER1 BLUE	000-255	Blue intensity	
23	LAYER1 WHITE	000-255	White intensity	
24	LAYER1 FX	000-010	No Function	
		011-012	FX 1	
		013-014	FX 2	
		015-016	FX 3	
		017-018	FX 4	
		019-020	FX 5	
		021-022	FX 6	
		023-024	FX 7	
		025-026	FX 8	
		027-028	FX 9	
		029-030	FX 10	
		031-032	FX 11	
		033-034	FX 12	
		035-036	FX 13	
		037-038	FX 14	
		039-040	FX 15	
		...	...	
		079-080	FX 35	
		081-082	FX 36	
		083-132	Random pixel(with density)	From 1 to 10 pixel, 1 more pixel every 5 steps
		133	FX 37	
		134	FX 38	
		135	FX 39	
		...	...	
		202	FX 106	
		203	FX 107	
		204	FX 108	
		205-255	RESERVED(TBD)	
25	LAYER1 FX SPEED	000-050	Static indexing	
		051-255	From slow to fast	
26	LAYER1 FX OFFSET	000 -200	Continuous start selection	Choose the step of start
		201 -255	Random distribution	Enables an internal distribution of the macro between a multitude of lights on a specific DMX line basing on their DMX starting address.
27	LAYER2 FX (Colors and strobe are controlled by FLASH channels. If no FX is selected, the FLASH channels will works as basic function.)	000-010	No Function	
		011-012	FX 1	
		013-014	FX 2	
		015-016	FX 3	
		017-018	FX 4	
		019-020	FX 5	
		021-022	FX 6	
		023-024	FX 7	
		025-026	FX 8	
		027-028	FX 9	
		029-030	FX 10	
		031-032	FX 11	
		033-034	FX 12	
		035-036	FX 13	
		037-038	FX 14	

6.6.11 DMX Chart

27	LAYER2 FX (Colors and strobe are controlled by FLASH channels. If no FX is selected, the FLASH channels will work as basic function.)	039-040	FX 15	
		...	...	
		079-080	FX 35	
		081-082	FX 36	
		083-132	Random pixel(with density)	From 1 to 10 pixel, 1 more pixel every 5 steps
		133	FX 37	
		134	FX 38	
		135	FX 39	
		...	...	
		202	FX 106	
		203	FX 107	
		204	FX 108	
		205-255	RESERVED(TBD)	
28	LAYER2 FX SPEED	000-050	Static indexing	
		051-255	From slow to fast	
29	LAYER2 FX OFFSET	000 -200	Continuous start selection	Choose the step of start
		201 -255	Random distribution	Enables an internal distribution of the macro between a multitude of lights on a specific DMX line basing on their DMX starting address.
30	FX FADE	000-255		
31	EMPTY	-	TBD	
32	EMPTY	-	TBD	
33	CONTROL(Hold 3 Second)	000-005	None	
		006-010	Dimmer Mode Off	
		011-015	Dimmer Mode 1	
		016-020	Dimmer Mode 2	
		021-025	Dimmer Mode 3	
		026-030	Dimmer Mode Auto	
		031-035	Dimmer curve S	
		036-040	Dimmer curve Linear	
		041-045	Dimmer curve Square	
		046-050	Dimmer curve Inverse Square	
		051-055	Led Frequency=1000Hz	
		056-060	Led Frequency=2000Hz	
		061-065	Led Frequency=4000Hz	
		066-070	Led Frequency=6000Hz	
		071-075	Led Frequency=25000Hz	
		076-080	Fan Mode Auto	
		081-085	Fan Mode On	
		086-090	Fan Mode Off	
		091-095	Fan Mode Silent	
		096-100	RESERVED	
		101-105	Invert Mapping Off	
		106-110	Invert Mapping On	
		111-250	RESERVED	
		251-255	Complete Reset	

6.6.12 DMX Chart

ADVANCED - ADVANCED 4								
Artnet	Artnet+DMX		BASIC Function	WITH L2 FX	Value	Setting	WITH FX	Remark
DMX	Artnet	DMX						
1	/	1	DIMMER		000-255	Minimum to maximum		
2	/	2	DIMMER FINE		000-255	Minimum to maximum		
3	/	3	FLASH DIMMER	LAYER2 DIMMER	000-255	0-100%	Layer 2 dimmer	
4	/	4	FLASH STROBE	LAYER2 STROBE	000-030	No flash/ Closed	- Same -	
					031-100	Strobe slow to fast	- Same -	
					101-130	Open	- Same -	
					131-200	Random strobe slow to fast	- Same -	
					201-255	Open	- Same -	
5	1	/	FLASH 1 RED	LAYER2 1 RED	000-255	Red intensity	Layer 2 Red	
6	2	/	FLASH 1 GREEN	LAYER2 1 GREEN	000-255	Green intensity	Layer 2 Green	
7	3	/	FLASH 1 BLUE	LAYER2 1 BLUE	000-255	Blue intensity	Layer 2 Blue	
8	4	/	FLASH 1 WHITE	LAYER2 1 WHITE	000-255	White intensity	Layer 2 White	
..	..	/	...	...	...	...		
241	237	/	FLASH 60 RED	LAYER2 60 RED	000-255	Red intensity	Layer 2 Red	
242	238	/	FLASH 60 GREEN	LAYER2 60 GREEN	000-255	Green intensity	Layer 2 Green	
243	239	/	FLASH 60 BLUE	LAYER2 60 BLUE	000-255	Blue intensity	Layer 2 Blue	
244	240	/	FLASH 60 WHITE	LAYER2 60 WHITE	000-255	White intensity	Layer 2 White	
245	/	5	CCT		000-255	Color Temperature		
246		6	TINT		000-255			
247	/	7	CROSSFADE		000-255			
248	/	8	BG DIMMER		000-255	Strobe Dimmer		
249	/	9	BG STROBE		000-030	No flash/Closed		
					031-100	Strobe slow to fast		
					101-130	Open		
					131-200	Random strobe slow to fast		
					201-255	Open		
250	/	10	BG RED		000-255	Red intensity		
251	/	11	BG GREEN		000-255	Green intensity		
252	/	12	BG BLUE		000-255	Blue intensity		
253		13	BG WHITE		000-255	White intensity		
254	/	14	LAYER1 DIMMER		000-255	Strobe Dimmer		
255	/	15	LAYER1 STROBE		000-030	No flash/Closed		
					031-100	Strobe slow to fast		
					101-130	Open		
					131-200	Random strobe slow to fast		
					201-255	Open		
256	/	16	LAYER1 RED		000-255	Red intensity		
257	/	17	LAYER1 GREEN		000-255	Green intensity		
258	/	18	LAYER1 BLUE		000-255	Blue intensity		
259	/	19	LAYER1 WHITE		000-255	White intensitv		

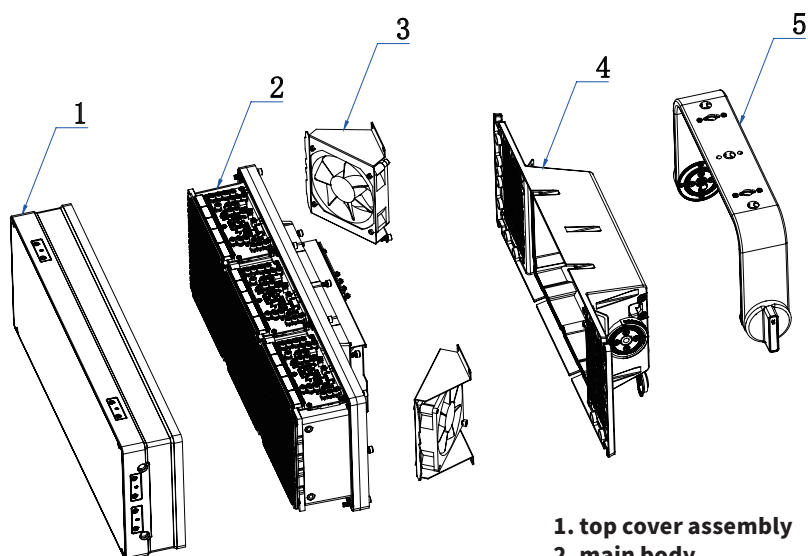
6.6.13 DMX Chart

260	/	20	LAYER1 FX	000-010	No Function	
				011-012	FX 1	
				013-014	FX 2	
				015-016	FX 3	
				017-018	FX 4	
				019-020	FX 5	
				021-022	FX 6	
				023-024	FX 7	
				025-026	FX 8	
				027-028	FX 9	
				029-030	FX 10	
				031-032	FX 11	
				033-034	FX 12	
				035-036	FX 13	
				037-038	FX 14	
				039-040	FX 15	
				...	...	
				079-080	FX 35	
				081-082	FX 36	
				083-132	Random pixel(with density)	From 1 to 10 pixel, 1 more pixel every 5 steps
				133	FX 37	
				134	FX 38	
				135	FX 39	
				...	...	
				202	FX 106	
				203	FX 107	
				204	FX 108	
				205-255	RESERVED(TBD)	
261	/	21	LAYER1 FX SPEED	000-050	Static indexing	
				051-255	From slow to fast	
262	/	22	LAYER1 FX OFFSET	000-200	Continuous start selection	Choose the step of start
				201-255	Random distribution	Enables an internal distribution of the macro between a multitude of lights on a specific DMX line basing on their DMX starting address.
263	/	23	LAYER2 FX (Colors and strobe are controlled by FLASH channels. If no FX is selected, the FLASH channels will works as basic function.)	000-010	No Function	
				011-012	FX 1	
				013-014	FX 2	
				015-016	FX 3	
				017-018	FX 4	
				019-020	FX 5	
				021-022	FX 6	
				023-024	FX 7	
				025-026	FX 8	
				027-028	FX 9	
				029-030	FX 10	
				031-032	FX 11	
				033-034	FX 12	
				035-036	FX 13	
				037-038	FX 14	
				039-040	FX 15	
				...	...	
				079-080	FX 35	

6.6.14 DMX Chart

				081-082	FX 36	
				083-132	Random pixel(with density)	From 1 to 10 pixel, 1 more pixel every 5 steps
				133	FX 37	
				134	FX 38	
				135	FX 39	
				...	...	
				202	FX 106	
				203	FX 107	
				204	FX 108	
				205-255	RESERVED(TBD)	
264	/	24	LAYER2 FX SPEED	000-050	Static indexing	
				051-255	From slow to fast	
265	/	25	LAYER2 FX OFFSET	000 -200	Continuous start selection	Choose the step of start
				201 -255	Random distribution	Enables an internal distribution of the macro between a multitude of lights on a specific DMX line basing on their DMX starting address.
266		26	FX FADE	000-255		
267	/	27	EMPTY	-	TBD	
268	/	28	EMPTY	-	TBD	
269	/	29	CONTROL(Hold 3 Second)	000-005	None	
				006-010	Dimmer Mode Off	
				011-015	Dimmer Mode 1	
				016-020	Dimmer Mode 2	
				021-025	Dimmer Mode 3	
				026-030	Dimmer Mode Auto	
				031-035	Dimmer curve S	
				036-040	Dimmer curve Linear	
				041-045	Dimmer curve Square	
				046-050	Dimmer curve Inverse Square	
				051-055	Led Frequency=1000Hz	
				056-060	Led Frequency=2000Hz	
				061-065	Led Frequency=4000Hz	
				066-070	Led Frequency=6000Hz	
				071-075	Led Frequency=25000Hz	
				076-080	Fan Mode Auto	
				081-085	Fan Mode On	
				086-090	Fan Mode Off	
				091-095	Fan Mode Silent	
				096-100	RESERVED	
				101-105	Invert Mapping Off	
				106-110	Invert Mapping On	
				111-250	RESERVED	
				251-255	Complete Reset	

7. EXPLODED VIEW



- 1. top cover assembly
- 2. main body
- 3. fan assembly
- 4. back cover assembly
- 5. hanging bracket assembly

8.TROUBLESHOOTING

No	Fault Symptom	Common Cause	Solution
1	Fixture does not power on	1. Fuse blown	1. Replace with a fuse of the same specification
		2. No voltage input or output from power supply	2. Replace the power supply
		3. POWERCON power socket damaged	3. Replace the power socket
3	No DMX signal / not controlled	1. DMX signal port damaged	1. Replace the DMX signal port
		2. Main board abnormal	2. Replace the main board
		3. DMX signal cable fault	3. Replace the signal cable
		4. Fixture DMX address does not match the console address setting	4. Check or reset the address code
4	Beam offset, out of focus, insufficient brightness	1. Optical assembly loose	1. Tighten the optical parts
		2. Lamp not installed in place	2. Recalibrate lamp concentricity
		3. Lens dirty	3. Clean the optical parts
5	Equipment overheating / automatic protection	1. Fan damaged	1. Replace the fan
		2. Air vent blocked	2. Clear the air vent
		3. Driver board abnormal	3. Replace the driver board
6	Light source not on / lamp ignition failure (Lamp, ballast, switching power supply: measurement by non-professionals is prohibited)	1. Lamp damaged	1. Replace with an original lamp
		2. Lamp igniter fault	2. Replace the lamp igniter
		3. No voltage output from power supply	3. Replace the power supply
		4. LED driver board abnormal	4. Replace the LED driver board

9. MAINTENANCE AND CLEANING

Regular cleaning is important for the service life and performance of the fixture. Accumulation of dust, dirt, smoke particles, and haze fluid residue will reduce light output and heat dissipation.

THE CLEANING INTERVAL VARIES GREATLY ACCORDING TO THE OPERATING ENVIRONMENT. THEREFORE, NO EXACT CLEANING INTERVAL CAN BE SPECIFIED. ENVIRONMENTAL FACTORS THAT MAY REQUIRE FREQUENT CLEANING INCLUDE:

- Use of smoke machines or haze machines.
- High airflow rate, such as near air-conditioning vents.
- Airborne dust, such as dust from stage effects, building structures, decorations, or outdoor environments.

If one or more of these factors are present, check whether cleaning is required within the first few hours of operation. Check frequently afterwards. This process helps determine the cleaning requirement for the specific situation.

OBSERVE THE FOLLOWING POINTS WHEN CLEANING THE FIXTURE:

- Clean in a clean, dry, and well-lit area.
- Wipe gently only. Use a soft, lint-free cloth moistened with water or mild detergent solution. Do not use alcohol, solvents, or abrasives under any circumstances. Take special care when cleaning optical components. Optical surfaces are fragile and easily scratched.

CLEANING PROCEDURE



Warning

DISCONNECT THE POWER BEFORE OPENING ANY COVER.

Wipe optical parts gently to avoid scratching the coated surface. Do not use destructive solvents, as they may damage plastic or coated surfaces.

CLEANING OPTICAL COMPONENTS:

1. Disconnect the power, allow the fixture to cool completely, and open the cover.
2. Use a vacuum cleaner or compressed air blower to gently remove dust and loose particles.
3. Use odorless tissue or a cotton cloth moistened with clean water or distilled water to remove particles. Do not rub the surface. Use compressed air to blow away loose particles.
4. Use a cotton cloth or odorless tissue moistened with isopropyl alcohol to remove smoke residue and other residue. Glass cleaner may also be used, but residue must be removed with distilled water. Wipe in circular motions from the center to the edges, then dry with a soft cotton cloth.

Cleaning Fans and Air Vents

Use a soft brush, tissue, air vacuum cleaner, or compressed air blower to remove dust from fans and air vents.



EKINC.

Address: NO.55 Zhongzhun Road, Cuiheng New District, Zhongshan City, Guangdong Province

Phone: 0086 (0760) 88280099

www.eklights.com