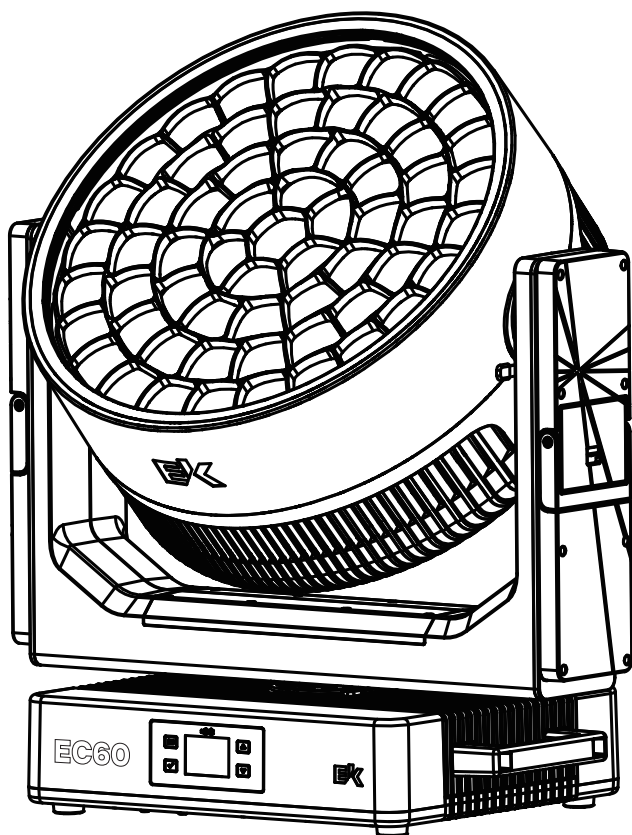




EC60

USER MANUAL

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WARNING! Before carrying out any operations with the unit, carefully read this instruction manual and keep it with care for future reference. It contains important information about the installation, usage and maintenance of the unit.



1. SAFETY

General instruction

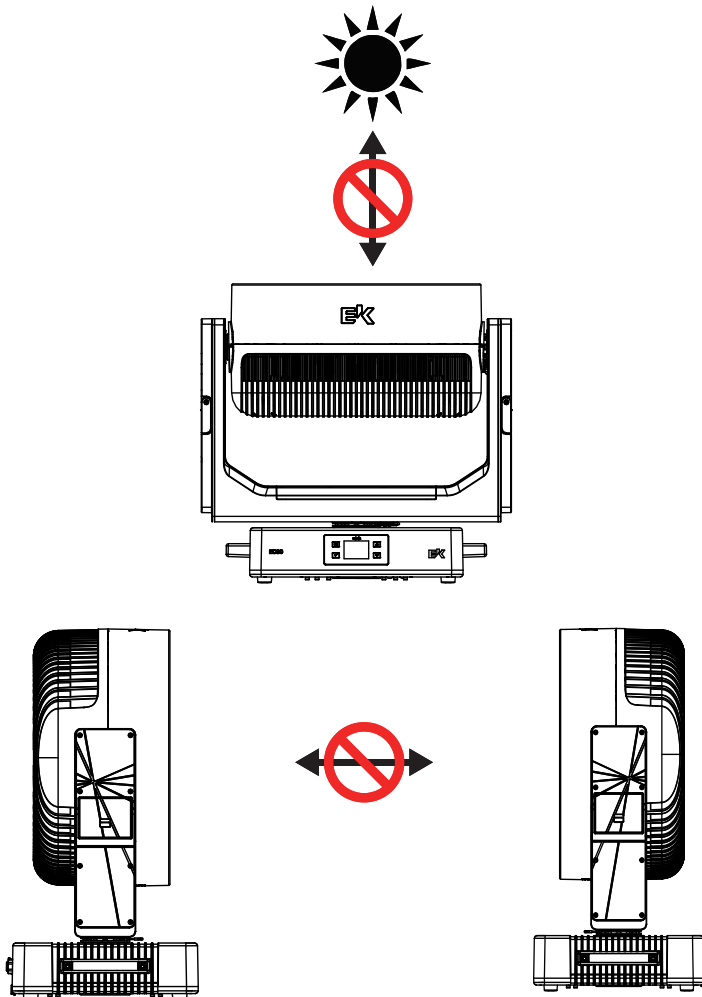
- The products referred to in this manual conform to the European Community Directives and are therefore marked with **CE**.
- The unit is supplied with hazardous network voltage (230V~). Leave servicing to skilled personnel only. Never make any modifications on the unit not described in this instruction manual, otherwise you will risk an electric shock.
- Connection must be made to a power supply system fitted with efficient earthing (Class I appliance according to standard EN 60598-1). It is, moreover, recommended to protect the supply lines of the units from indirect contact and/or shorting to earth by using appropriately sized residual current devices.
- The connection to the main network of electric distribution must be carried out by a qualified electrical installer. Check that the main frequency and voltage correspond to those for which the unit is designed as given on the electrical data label.
- This unit is not for home use, only professional applications.
- Never use the fixture under the following conditions:
 - in places subject to vibrations or bumps;
 - in places with a temperature of over 40 °C.
- Make certain that no inflammable liquids, water or metal objects enter the fixture.
- Do not dismantle or modify the fixture.
- All work must always be carried out by qualified technical personnel. Contact the nearest sales point for an inspection or contact the manufacturer directly.
- If the unit is to be put out of operation definitively, take it to a local recycling plant for a disposal which is not harmful to the environment.



Warnings and installation precautions

- If this device will be operated in any way different to the one described in this manual, it may suffer damage and the guarantee becomes void. Furthermore, any other operation may lead to dangers like short circuit, burns, electric shock, etc.
- Before starting any maintenance work or cleaning the projector, cut off power from the main supply.
- Always additionally secure the projector with the safety rope. When carrying out any work, always comply scrupulously with all the regulations (particularly regarding safety) currently in force in the country in which the fixture's being used.
- Install the fixture in a well ventilated place.
- Keep any inflammable material at a safe distance from the fixture.
- Shields, lenses or ultraviolet screens shall be changed if they have become damaged to such an extent that their effectiveness is impaired.
- The lamp (LED) shall be changed if it has become damaged or thermally deformed.
- Never look directly at the light beam. Please note that fast changes in lighting, e. g. flashing light, may trigger epileptic seizures in photosensitive persons or persons with epilepsy.
- Do not touch the product's housing when operating because it may be very hot.

- Do not expose the front of a fixture to sunlight or any other strong light source.
Avoid pointing other high-powered beam lights directly at the fixture.
- Do not focus a light beam from one lighting fixture directly towards another.
- For outdoor applications during daylight, make sure that the front face of any fixture is shielded or points away from the sun, even when not in use.
- Do not expose the product to heat (from other lighting fixtures for example).



2. INTRODUCTION

2.1 FEATURES

- 61 x 50W RGBWW LED
- Up to 50000 lumens output
- Colour Temperature: 2800K~10000K
- Zoom range: 3.8°~50°
- Exquisite color rendering: CRI > 93, R9 > 90
- ultra-linear 22-bit dimming for flick-free output
- Rugged IP66 tour-graded construction

2.2 SPECIFICATION

Light Source: 61*50W RGBWW LED

Colour Temperature: 2800K-10000K

Output: >51000lm

CRI > 93

LED Life: 30000H

PAN: 540°

TILT: 210°

Beam angle: 3.8°-35°

Field angle: 5.6°-50°

Strobe: 1-30HZ

Dimming: 4 dimming curves, 22Bit

Power supply: 200~240VAC(50/60Hz)

Consumption: 3100W(Truecon); 3600W(fixed cable)

Protocol: DMX512/RDM/sACN/Artnet/Bluetooth/APP/NFC

DMX channel: 16CH/31CH/34CH/255CH/278CH

Ambient: -10~45℃

Cooling: Aluminium heat sink with fan

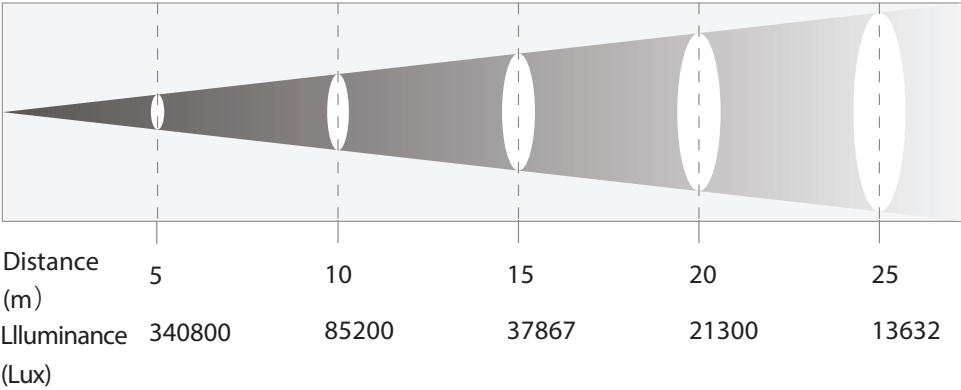
Dimension: 679*398*655mm

Weight: 59.8Kg

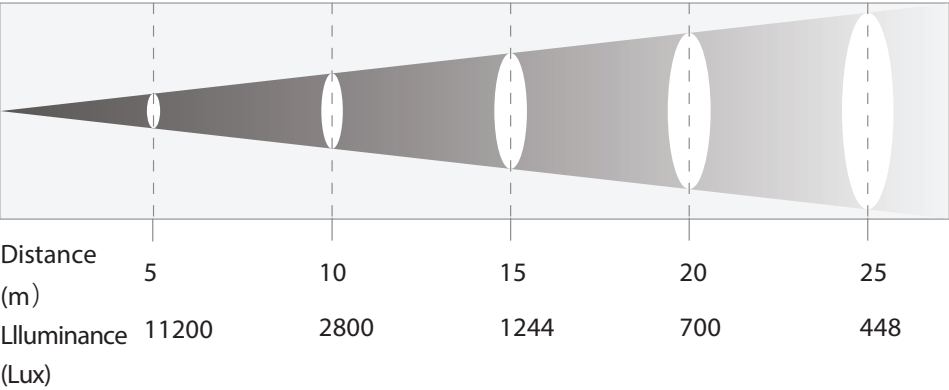
IP Rating: IP66

3. PHOTOMETRICS

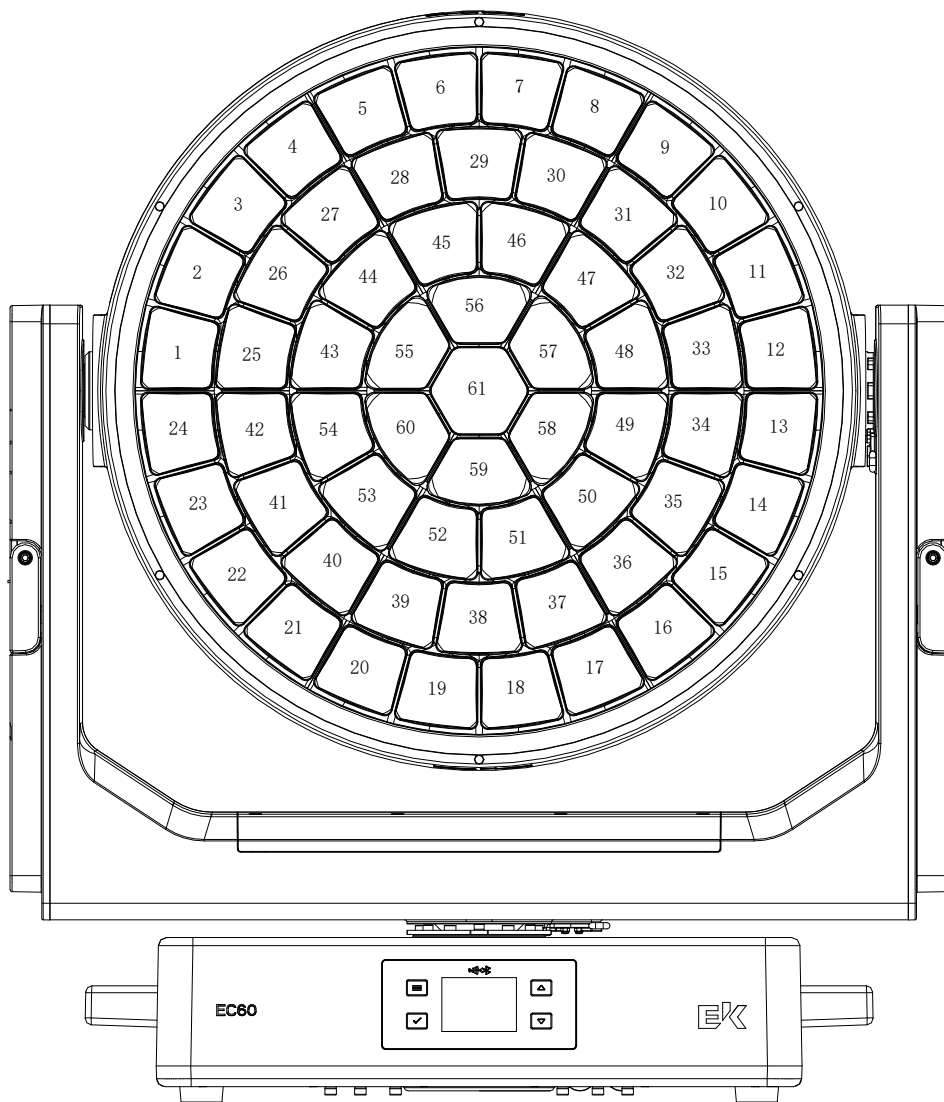
Beam Angle 3.8°



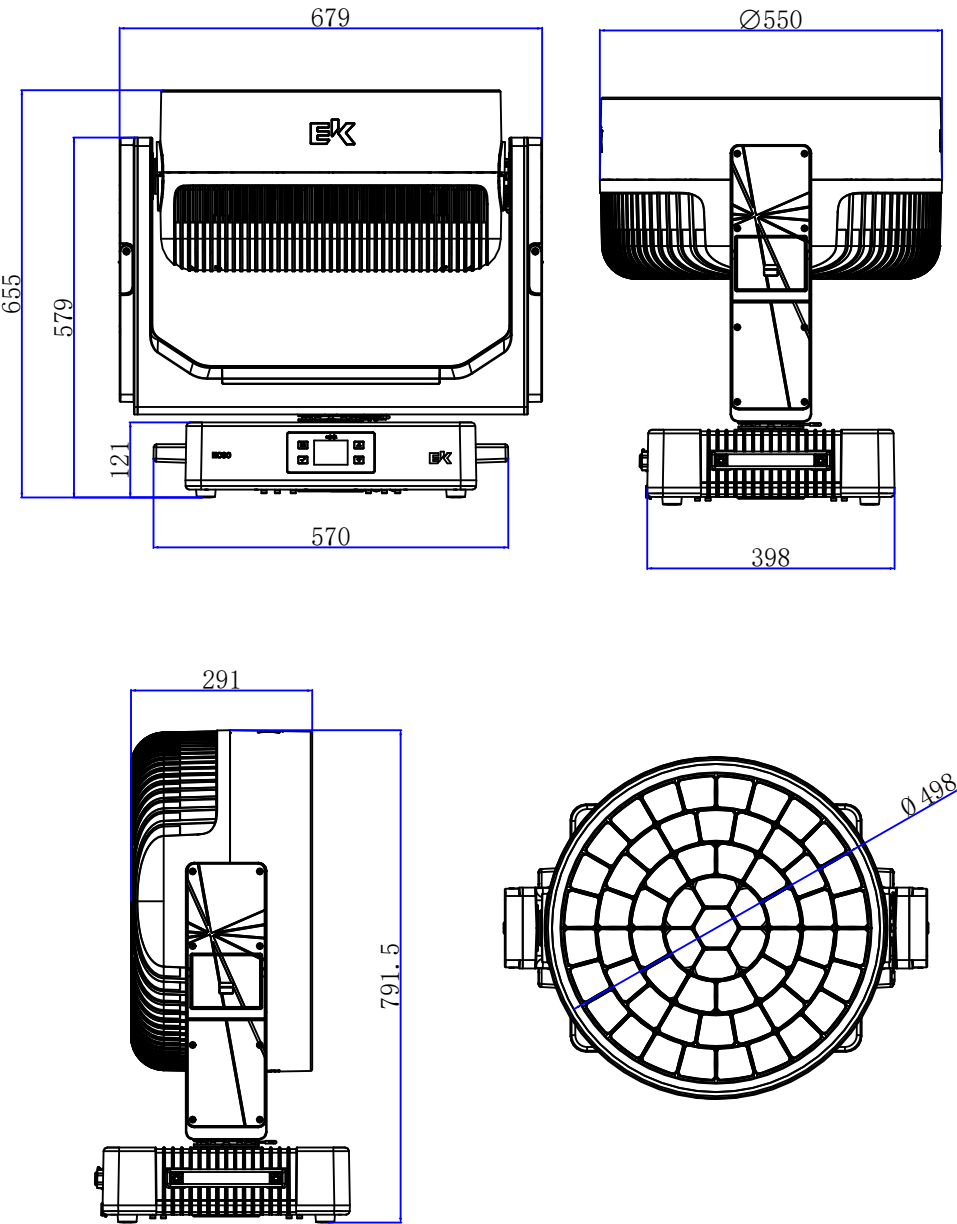
Beam Angle 35°



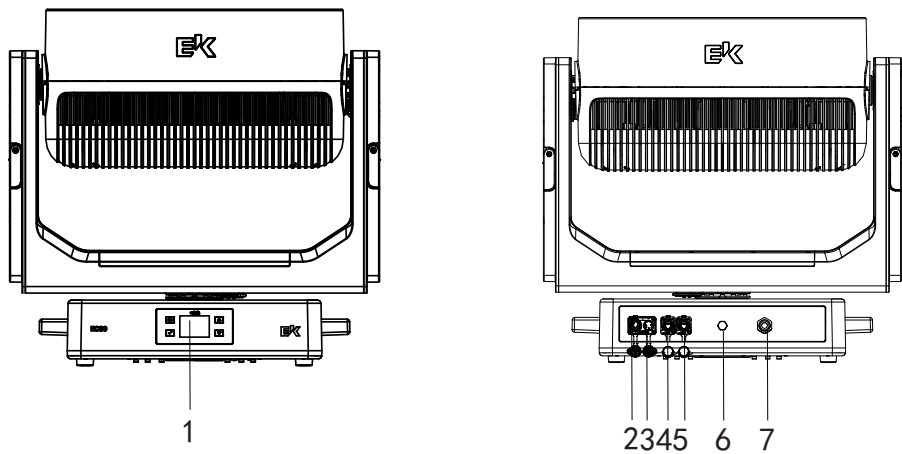
4. PIXEL MAPPING



5. DIMENSION



6. OVERVIEW



- 1. LCD Display 2.DMX In 3.DMX Out
- 4. RJ45 In 5.RJ45 Out 6.Breath Valve
- 7.Power In

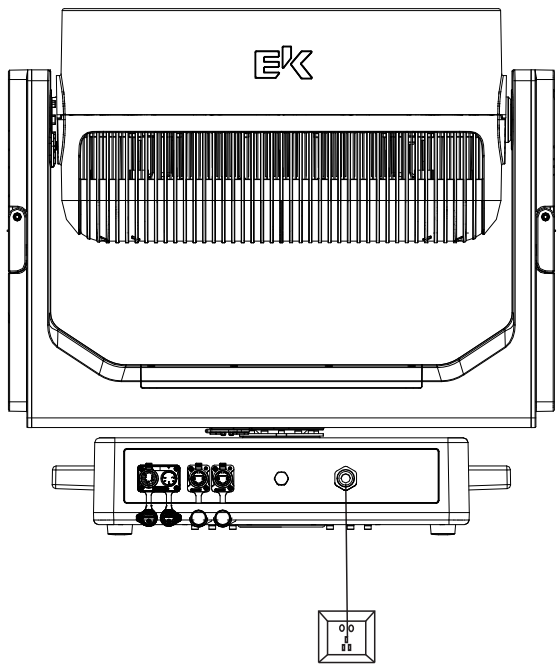
Control Panel	Illustration	Description	Effect
MODE	Menu Option	Enter Menu	Menu Operation
UP	Up	Scroll Up	Increase Numeric Value
DOWN	Down	Scroll Down	Decrease Numeric Value
√	Confirm	Confirm	Save Setting

If you want to flip the display, hold UP + DOWN buttons for 3seconds to set display orientation.

Without external power source, long press the right button for 3 seconds, enter the menu to set parameters.

7. CONNECTION

7. 1 Power Connection



Power In

Connect 4 mm² Power cable with PowerCon In to mains.

Attention:

Due to the power rating, one power cable can connect 1 unit maximum.

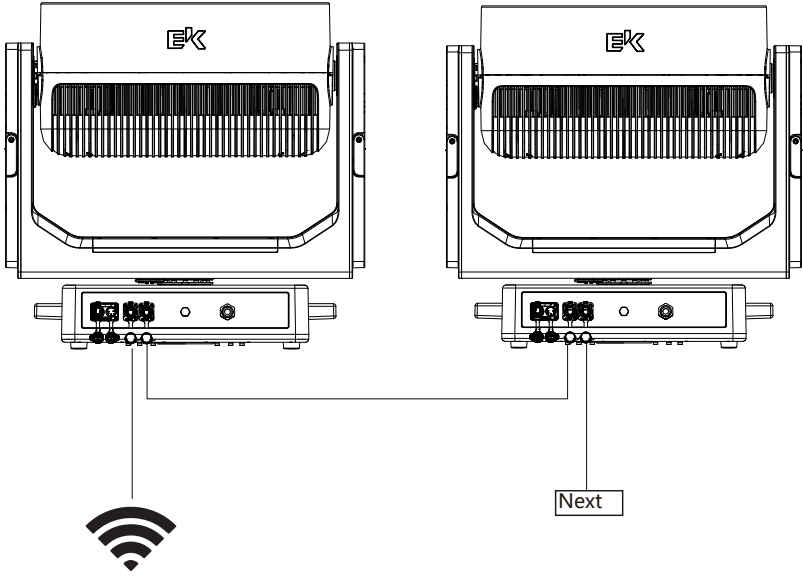


Do not connect more than 1 unit in series with one power cable

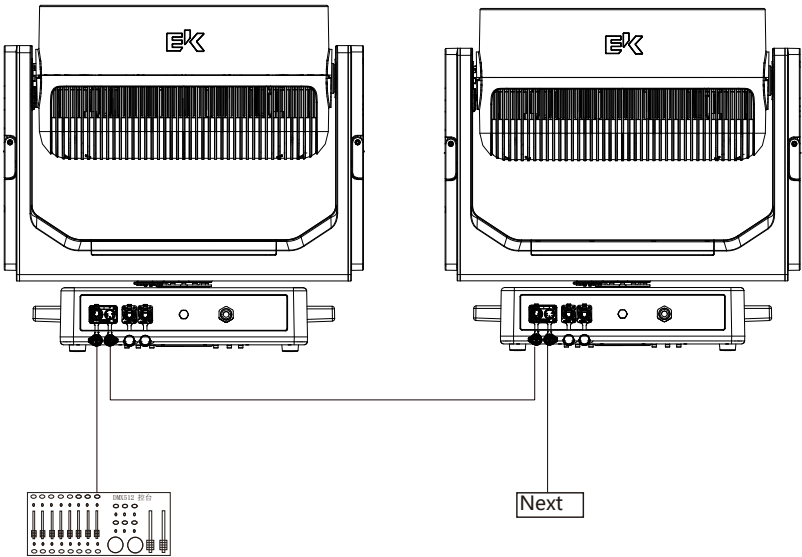
Do not use damage power cable

Power off the fixture when not in use

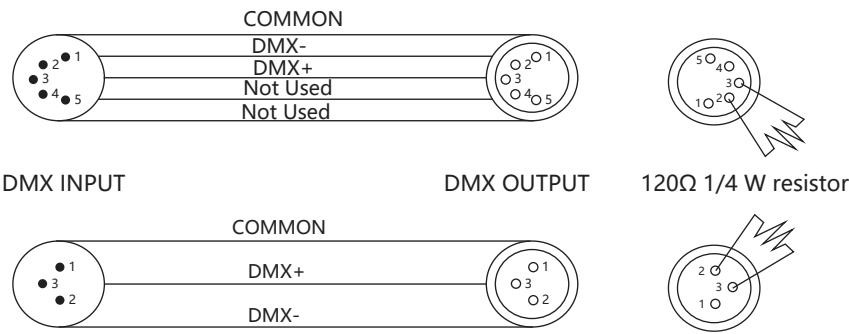
7.2 Network Connection



7.3 DMX Connection



- Depending on the length of the DMX cable run, or other factors, it may be advisable to install a terminator at the last fixture in the run.
- The illustration below shows the correct placement of a 120Ω 0.25W resistor in a terminator, as well as the standard DMX signal pin-outs



EXAMPLE OF DMX ADDRESSING

The below table shows an example of starting addresses for four fixtures assuming a first fixture with starting address of 001.

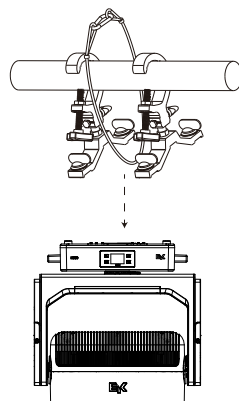
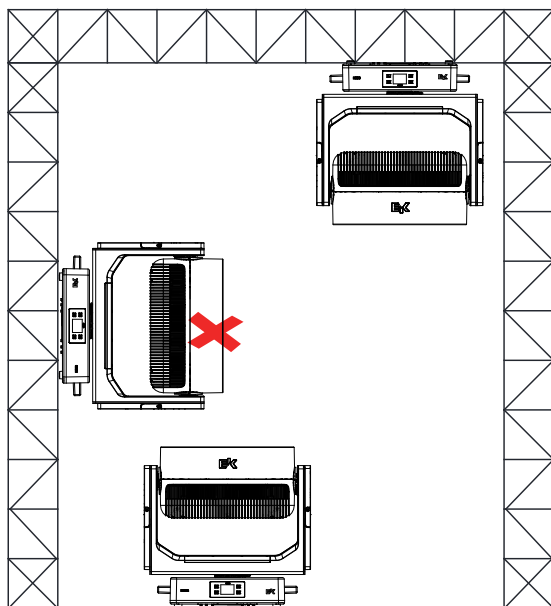
The actual starting addresses will be determined by the operator as needed to match external controller settings.

Relation between DMX and Address

MODE	Allocation	Address of 1st fixture	Address of 2nd fixture	Address of 3rd fixture	Address of 4th fixture
31CH	001 - 031	001	032	063	094

Follow above method for subsequent fixtures, calculating starting addressed as indicated.

8. INSTALLATION



When carrying out any installation, always comply scrupulously with all the regulations (particularly regarding safety) currently in force in the country in which the fixtures being used. General guidelines as below for your note:

1. Always mount this product in a safe position and make sure there is adequate room for ventilation, configuration and maintenance.
2. Keep any inflammable materials at a safe distance from the fixture, as indicated in the safety notes.
3. Make sure that the device is not exposed to extreme heat, moisture or dust.
4. Make sure that the structure to which you are hanging the modules can support the weight.
5. Install the fixture at a suitable location by means of the mounting bracket
6. Always additionally secure the fixture with the safety rope from falling down.
7. Adjust the fixture and use the knob to slightly release or tighten the locking mechanism of the bracket if is neccessary.

9. MENU

Menu(-)					
Main Menu	Menu level 2	Menu level 3	Menu level4	Remark	
1	SETUP	Basic Engine	Mode	Basic-18 Standard-37 Advanced-36 Basic Pixel Standard Pixel Advanced Pixel Basic XY-18	Default: Basic
			Source	DMX Art-Net sACN	Default:DMX
			Universe	000-255	Default: 0
			DMX Address	1-512	Default: 1
		Pixels Engine	Mode	Disabled Circle RGBW	Default: Disabled
			Source	DMX Art-Net sACN	Default: DMX
			Universe	000-255	Default: 0
			DMX Address	1-512	Default: 1
		Ethernet Setup	Custom IP Address	2.198.159.207	Default: 2.x.x.x
			Custom IP Mask	255.0.0.0	Default: 255.0.0.0
			Repeat on DMX DMX	No Both Engine Basic Engine Pixels Engine	Default: No
		Pan / Tilt	Invert Pan	Off	Default: Off
			Invert Tilt	On	Default: Off
			Swap PanTilt	Off	Default: Off
			Encoder PanTilt	On	Default: On
			P/T Homing Mode	Standard Sequenced	Default: Standard
			Pan Home Def Pos	0 degree 90 degrees 180 degrees 270 degrees	Default: 270 degree
				0 % 12.5 % 25 % 50 % 75 % 87.5 % 100 %	Default: 50%
			P/T Speed	Normal Fast	Default: Fast
2	OPTION	Display	On		
			10s		Default: 10s
			20s		
			30s		
			No		Default: No
			Auto		
			No		Default: No
			Yes		(Up+Down+Up+Down+)
			Auto		Default: Auto
			SLN		
		Power Mode	Constant		
			STD Power		Default: STD Power
		Reverse Mapping LED	ECO Power		
			Off		Default: Off
			On		
		Special Functions	Dimmer Curve	Linear Exponential Logarithmic S-Curve	Default: Exponential
				Off	
				On	Default: On
				Gamma 1.0	
			RGB Gamma Gamma	Gamma 1.5	Default: Gamma 2.2
				Gamma 2.2	
			PWM Frequency	600Hz	
				1200Hz	Default:2000Hz
				2000Hz	

9.2 MENU

				4000Hz				
				6000Hz				
				25000Hz				
		Zoom Reposition	On			Default: Off		
			Off					
		Setting	Default Preset	No	Yes / No			
				Yes				
			User Preset 1	Load preset 1	Yes / No			
				Save to preset 1				
			User Preset 2	Load preset 2	Yes / No			
Save to preset 2								
User Preset 3	Load preset 3		Yes / No					
	Save to preset 3							
3	TEST	Auto	Pan Tilt					
			Colour					
			Zoom					
		Reset	All					
			No					
			Yes					
		Channel						
		4	INFORMATION	System Errors				
				Fixture Hours	Total Hours			
Led Hours	Total Hours							
System Version	DISP-V1.0							
	CTR1-Y:V1.0							
	CTR2-LED:V1.0							
	CTR3-X:V1.0							
Fans Monitor	Bluetooth:V1.0							
	Led Fan			100%				
Network parameters	Base Fan							
	IP Address			2.198.159.207				
	IP Mask			255.0.0.0				
MAC Address	54-10-EC-5B-B2-32							
UID	030F0C9*****							
				Color Calibration	Off		Default :Off	
					Factory Calibration			
					Customized Calibration	Red		125-255
						Green		125-255
		Blue	125-255					
		White	125-255					
		Calibration	Pan Offset		000-255			
			Tilt Offset		000-255			
			Zoom Offset		000-255			
		Menu Locking	Unlock Code XXXX			Default: 1234		
Upload Firmware	Yes / No							

10. DMX CHART

10.1 DMX CHART

Basic-18			
1	PAN	000-255	
2	PAN Fine	000-255	
3	TILT	000-255	
4	TILT Fine	000-255	
5	ZOOM	000-255	From wide to narrow beam
6	Strobe	000-003	Light OFF
		004-103	Strobe from low (1Hz) to fast (25Hz)
		104-107	Light ON
		108-207	Pulsation from slow (0.5 Hz) to fast (25 Hz)
		208-212	Light ON
		213-225	Random Slow Strobe
		226-238	Random Medium Strobe
		239-251	Random Fast Strobe
		252-255	Light
7	Dimmer	000-255	
8	Dimmer Fine	000-255	
9	CTO	000-004 005-255	OFF CTO 10000K~2800K
10	Tint	000-127	Red Shift
		128-128	Off
		129-255	Green Shift
11		000-255	
12	Dimmer Fade	000-255	Fast to Slow
13	FUNCTION	000-003	None
		004-007	Auto (Default)
		008-011	SLN
		012-015	Constant
		016-019	Normal Tilt speed
		020-023	Fast Tilt speed (Default)
		024-039	None
		040-043	Linear
		044-047	Exponential (Default)
		048-051	Logarithmic
		052-055	S-Curve
		056-059	None
		060-063	Raw color channels gamma 1
		064-067	Raw color channels gamma 1.5
		068-071	Raw color channels gamma 2.2 (Default)
		072-075	Color Calibration Off (Default)
		076-079	Color Calibration Factory
		080-083	Color Calibration Customized
		084-087	None
		088-091	Reverse Mapping Off (Default)
		092-095	Reverse Mapping On
		096-097	Pixel Map Disabled(Default)
		098-099	Pixel Map On Circle Mode
		100-103	Pixel Map On RGBW Mode
		104-107	Zoom Reposition On(Default)
		108-111	Zoom Reposition Off
		112-159	None
		160-163	Dimmer Fade Off
		164-167	Dimmer Fade On
		168-171	PWM frequency LED ~600Hz
		172-175	PWM frequency LED ~1200Hz
		176-179	PWM frequency LED ~2000Hz (Default)
		180-183	PWM frequency LED ~4000Hz
		184-187	PWM frequency LED ~6000Hz
		188-191	PWM frequency LED ~25000Hz
		192-195	Display On
		196-199	Display Off 10s (Default)
		200-203	Display Off 20s
		204-207	Display Off 30s
		208-253	None
		254-255	Default function recall
14	RESET	000-025	No Function
		026-076	Zoom Reset (Hold 5S)
		077-127	Pan / Tilt Reset (Hold 5S)
		128-255	Complete Reset (Hold 5S)
15	Red	000-255	
16	Green	000-255	
17	Blue	000-255	
18	White	000-255	

Standard-37			
1	PAN	000-255	
2	PAN Fine	000-255	
3	TILT	000-255	
4	TILT Fine	000-255	
5	ZOOM	000-255	From wide to narrow beam
6	Strobe	000-003	Light OFF
		004-103	Strobe from low (1Hz) to fast (25Hz)
		104-107	Light ON
		108-207	Pulsation from slow (0.5 Hz) to fast (25 Hz)
		208-212	Light ON
		213-225	Random Slow Strobe
		226-238	Random Medium Strobe
		239-251	Random Fast Strobe
		252-255	Light
7	Dimmer	000-255	
8	Dimmer Fine	000-255	
9	FUNCTION	000-003	None
		004-007	Auto (Default)
		008-011	SLN
		012-015	Constant
		016-019	Normal Tilt speed
		020-023	Fast Tilt speed (Default)
		024-039	None
		040-043	Linear
		044-047	Exponential (Default)
		048-051	Logarithmic
		052-055	S-Curve
		056-059	None
		060-063	Raw color channels gamma 1

10. 2 DMX CHART

			064-067 068-071 072-075 076-079 080-083 084-087 088-091 092-095 096-097 098-099 100-103 104-107 108-111 112-159 160-163 164-167 168-171 172-175 176-179 180-183 184-187 188-191 192-195 196-199 200-203 204-207 208-253 254-255	Raw color channels gamma 1.5 Raw color channels gamma 2.2 (Default) Color Calibration Off (Default) Color Calibration Factory Color Calibration Customized None Reverse Mapping Off (Default) Reverse Mapping On Pixel Map Disabled(Default) Pixel Map On Circle Mode Pixel Map On RGBW Mode Zoom Reposition On(Default) Zoom Reposition Off None Dimmer Fade Off Dimmer Fade On PWM frequency LED=600Hz PWM frequency LED=1200Hz PWM frequency LED=2000Hz (Default) PWM frequency LED=4000Hz PWM frequency LED=6000Hz PWM frequency LED=25000Hz Display On Display Off 10s (Default) Display Off 20s Display Off 30s None Default function recall	
	10	RESET	000-025 026-076 077-127 128-255	No Function Zoom Reset (Hold 5S) Pan / Tilt Reset (Hold 5S) Complete Reset (Hold 5S)	
BACKGROUND	11	Crossfade	000-255		
	12	Red	000-255		
	13	Red Fine	000-255		
	14	Green	000-255		
	15	Green Fine	000-255		
	16	Blue	000-255		
	17	Blue Fine	000-255		
	18	White	000-255		
	19	White Fine	000-255		
	20	CTO	000-004 005-255	OFF CTO 10000K~2800K	
	21	Tint	000-127 128-128 129-255	Red Shift Off Green Shift	
	22	Dimmer Fade	000-255	Fast to Slow	
	23	Strobe	000-003 004-103 104-107 108-207 208-212 213-225 226-238 239-251 252-255	Light OFF Strobe from low (1Hz) to fast (25Hz) Light ON Pulsation from slow (0.5 Hz) to fast (25 Hz) Light ON Random Slow Strobe Random Medium Strobe Random Fast Strobe Light	
	24	Dimmer	000-255		
	25	Red	000-255		
	26	Green	000-255		
	27	Blue	000-255		
	28	White	000-255		
	29	CTO	000-004 005-255	OFF CTO 10000K~2800K	
	30	Tint	000-127 128-128 129-255	Red Shift Off Green Shift	
	31	Strobe	000-003 004-103 104-107 108-207 208-212 213-225 226-238 239-251 252-255	Light OFF Strobe from low (1Hz) to fast (25Hz) Light ON Pulsation from slow (0.5 Hz) to fast (25 Hz) Light ON Random Slow Strobe Random Medium Strobe Random Fast Strobe Light	
	32	Dimmer	000-255		
SHAPE	33	Shape Mode	000-005 006-130 131-255	Normal Static Dynamic	Shape Mode
	34	Shape Selection	000-007 008-015 016-023 024-031 032-038 039-046 047-054 055-062 063-069 070-077 078-085 086-093 094-100 101-108 109-116 117-124 125-131 132-139 140-147 148-155 156-162 163-170 171-178 179-186 187-193 194-201 202-209	Effect 1 Effect 2 Effect 3 Effect 4 Effect 5 Effect 6 Effect 7 Effect 8 Effect 9 Effect 10 Effect 11 Effect 12 Effect 13 Effect 14 Effect 15 Effect 16 Effect 17 Effect 18 Effect 19 Effect 20 Effect 21 Effect 22 Effect 23 Effect 24 Effect 25 Effect 26 Effect 27	

Advanced-36

10.4 DMX CHART

24	CTO	000-004	OFF	
		005-255	CTO 10000K-2800K	
25	Tint	000-127	Red Shift	
		128-128	Off	
		129-255	Green Shift	
26	Strobe	000-003	Light OFF	
		004-103	Strobe from low (1Hz) to fast (25Hz)	
		104-107	Light ON	
		108-207	Pulsation from slow (0.5 Hz) to fast (25 Hz)	
		208-212	Light ON	
		213-225	Random Slow Strobe	
		226-238	Random Medium Strobe	
		239-251	Random Fast Strobe	
		252-255	Light	
27	Dimmer	000-255		
28	Shape Mode	000-005	Normal	Shape Mode
		006-130	Static	
29	Shape Selection	131-255	Dynamic	
		000-007	Effect 1	
		008-015	Effect 2	
		016-023	Effect 3	
		024-031	Effect 4	
		032-038	Effect 5	
		039-046	Effect 6	
		047-054	Effect 7	
		055-062	Effect 8	
		063-069	Effect 9	
		070-077	Effect 10	
		078-085	Effect 11	
		086-093	Effect 12	
		094-100	Effect 13	
		101-108	Effect 14	
		109-116	Effect 15	
		117-124	Effect 16	
		125-131	Effect 17	
		132-139	Effect 18	
		140-147	Effect 19	
		148-155	Effect 20	
		156-162	Effect 21	
		163-170	Effect 22	
		171-178	Effect 23	
		179-186	Effect 24	
		187-193	Effect 25	
		194-201	Effect 26	
		202-209	Effect 27	
		210-217	Effect 28	
		218-224	Effect 29	
		225-232	Effect 30	
		233-240	Effect 31	
		241-248	Effect 32	
		249-255	Effect 33	
30	Indexing/speed /	000-255	Indexing (Static Mode)	
			(Dynamic Mode)	
		000-124	Speed from fast to slow, forward	
		125-130	Stop	
31	Fade/Wake	000-005	Off	
		006-130	Fade (From fast to slow)	
		131-255	Wake (From fast to slow)	
32	Transition	000-255		
33	Strobe	000-003	Light OFF	
		004-103	Strobe from low (1Hz) to fast (25Hz)	
		104-107	Light ON	
		108-207	Pulsation from slow (0.5 Hz) to fast (25 Hz)	
		208-212	Light ON	
		213-225	Random Slow Strobe	
		226-238	Random Medium Strobe	
		239-251	Random Fast Strobe	
		252-255	Light	
34	Dimmer	000-255		
35	CTO	000-004	OFF	
		005-255	CTO 10000K-2800K	
36	Tint	000-127	Red Shift	
		128-128	Off	
		129-255	Green Shift	

Circle				
1	Red 1	000-255		
2	Green 1	000-255		
3	Blue 1	000-255		
4	White 1	000-255		
5	Red 2	000-255		
6	Green 2	000-255		
7	Blue 2	000-255		
8	White 2	000-255		
...	...	...		
...	...	...		
13	Red 4	000-255		
14	Green 4	000-255		
15	Blue 4	000-255		
16	White 4	000-255		
17	Red 5	000-255		
18	Green 5	000-255		
19	Blue 5	000-255		
20	White 5	000-255		

RGBW				
1	Red 1	000-255		
2	Green 1	000-255		

			Basic Pixel		
1	PAN	000-255			
2	PAN Fine	000-255			
3	TILT	000-255			
4	TILT Fine	000-255			
5	ZOOM	000-255	From wide to narrow beam		
6	Strobe	000-003	Light Off		
		004-103	Strobe from low (1Hz) to fast (25Hz)		
		104-107	Light ON		
		108-207	Pulsation from slow (0.5 Hz) to fast (25 Hz)		
		208-212	Light ON		
		213-225	Random Slow Strobe		
		226-238	Random Medium Strobe		
		239-251	Random Fast Strobe		
		252-255	Light		
7	Dimmer	000-255			
8	Dimmer Fine	000-255			
9	CTO	000-004	OFF		
		005-255	CTO 10000K~2800K		
10	Tint	000-127	Red Shift		
		128-128	Off		
		129-255	Green Shift		
11	Crossfade	000-255			
12	Dimmer Fade	000-255	Fast to Slow		
13	FUNCTION	000-003	None		
		004-007	Auto (Default)		
		008-011	SLN		
		012-015	Constant		
		016-019	Normal Tilt speed		
		020-023	Fast Tilt speed (Default)		
		024-039	None		
		040-043	Linear		
		044-047	Exponential (Default)		
		048-051	Logarithmic		
		052-055	S-Curve		
		056-059	None		
		060-063	Raw color channels gamma 1		
		064-067	Raw color channels gamma 1.5		
		068-071	Raw color channels gamma 2.2 (Default)		
		072-075	Color Calibration Off (Default)		
		076-079	Color Calibration Factory		
		080-083	Color Calibration Customized		
		084-087	None		
		088-091	Reverse Mapping Off (Default)		
		092-095	Reverse Mapping On		
		096-097	Pixel Map Disabled(Default)		
		098-099	Pixel Map On Circle Mode		
		100-103	Pixel Map On RGBW Mode		
		104-107	Zoom Reposition On(Default)		
		108-111	Zoom Reposition Off		
		112-119	None		
		160-163	Dimmer Fade Off		
		164-167	Dimmer Fade On		
		168-171	PWM frequency LED=600Hz		
		172-175	PWM frequency LED=1200Hz		
		176-179	PWM frequency LED=2000Hz (Default)		
180-183	PWM frequency LED=4000Hz				
184-187	PWM frequency LED=6000Hz				
188-191	PWM frequency LED=25000Hz				
192-195	Display On				
196-199	Display Off 10s (Default)				
200-203	Display Off 20s				
204-207	Display Off 30s				
208-253	None				
254-255	Default function recall				
14	RESET	000-025	No Function		
		026-076	Zoom Reset (Hold 5S)		
		077-127	Pan / Tilt Reset (Hold 5S)		
		128-255	Complete Reset (Hold 5S)		
15	Red 1	000-255			
16	Green 1	000-255			
17	Blue 1	000-255			
18	White 1	000-255			
19	Red 2	000-255			
20	Green 2	000-255			
21	Blue 2	000-255			
22	White 2	000-255			
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251	Red 60	000-255			
252	Green 60	000-255			
253	Blue 60	000-255			

10. 6 DMX CHART

254	White 60	000-255		
255	Red 61	000-255		
256	Green 61	000-255		
257	Blue 61	000-255		
258	White 61	000-255		

Standard Pixel				
1	PAN	000-255		
2	PAN Fine	000-255		
3	TILT	000-255		
4	TILT Fine	000-255		
5	ZOOM	000-255	From wide to narrow beam	
6	Strobe	000-003	Light OFF	
		004-103	Strobe from low (1Hz) to fast (25Hz)	
		104-107	Light ON	
		108-207	Pulsation from slow (0.5 Hz) to fast (25 Hz)	
		208-212	Light ON	
		213-225	Random Slow Strobe	
		226-238	Random Medium Strobe	
		239-251	Random Fast Strobe	
		252-255	Light	
7	Dimmer	000-255		
8	Dimmer Fine	000-255		
9	FUNCTION	000-003	None	
		004-007	Auto (Default)	
		008-011	SLN	
		012-015	Constant	
		016-019	Normal Tilt speed	
		020-023	Fast Tilt speed (Default)	
		024-039	None	
		040-043	Linear	
		044-047	Exponential (Default)	
		048-051	Logarithmic	
		052-055	S-Curve	
		056-059	None	
		060-063	Raw color channels gamma 1	
		064-067	Raw color channels gamma 1.5	
		068-071	Raw color channels gamma 2.2 (Default)	
		072-075	Color Calibration Off (Default)	
		076-079	Color Calibration Factory	
		080-083	Color Calibration Customized	
		084-087	None	
		088-091	Reverse Mapping Off (Default)	
		092-095	Reverse Mapping On	
		096-097	Pixel Map Disabled(Default)	
		098-099	Pixel Map On Circle Mode	
		100-103	Pixel Map On RGBW Mode	
		104-107	Zoom Reposition On(Default)	
		108-111	Zoom Reposition Off	
		112-159	None	
		160-163	Dimmer Fade Off	
		164-167	Dimmer Fade On	
		168-171	PWM frequency LED=600Hz	
		172-175	PWM frequency LED=1200Hz	
		176-179	PWM frequency LED=2000Hz (Default)	
		180-183	PWM frequency LED=4000Hz	
		184-187	PWM frequency LED=6000Hz	
		188-191	PWM frequency LED=25000Hz	
		192-195	Display On	
		196-199	Display Off 10s (Default)	
		200-203	Display Off 20s	
		204-207	Display Off 30s	
		208-253	None	
		254-255	Default function recall	
10	RESET	000-025	No Function	
		026-076	Zoom Reset (Hold 5s)	
		077-127	Pan / Tilt Reset (Hold 5s)	
		128-255	Complete Reset (Hold 5s)	
BACKGROUND	11	Crossfade	000-255	
	12	Red	000-255	
	13	Red Fine	000-255	
	14	Green	000-255	
	15	Green Fine	000-255	
	16	Blue	000-255	
	17	Blue Fine	000-255	
	18	White	000-255	
	19	White Fine	000-255	
	20	CTO	000-004 005-255	OFF CTO 10000K~2800K
	21	Tint	000-127 128-128 129-255	Red Shift Off Green Shift
	22	Dimmer Fade	000-255	Fast to Slow
	23	Strobe	000-003	Light OFF
			004-103	Strobe from low (1Hz) to fast (25Hz)
			104-107	Light ON
			108-207	Pulsation from slow (0.5 Hz) to fast (25 Hz)
			208-212	Light ON
			213-225	Random Slow Strobe
			226-238	Random Medium Strobe
			239-251	Random Fast Strobe
			252-255	Light
	24	Dimmer	000-255	
SHAPE	25	Red	000-255	
	26	Green	000-255	
	27	Blue	000-255	
	28	White	000-255	
	29	CTO	000-004 005-255	OFF CTO 10000K~2800K
	30	Tint	000-127 128-128 129-255	Red Shift Off Green Shift
31	Strobe	000-003	Light OFF	
		004-103	Strobe from low (1Hz) to fast (25Hz)	

10. 7 DMX CHART

			104-107 108-207 208-212 213-225 226-238 239-251 252-255	Light ON Pulsation from slow (0.5 Hz) to fast (25 Hz) Light ON Random Slow Strobe Random Medium Strobe Random Fast Strobe Light	
32	Dimmer		000-255		
33	Shape Mode		000-005 006-130 131-255	Normal Static Dynamic	
34	Shape Selection		000-007 008-015 016-023 024-232 233-240 241-248 249-255	Effect 1 Effect 2 Effect 3 ... Effect 31 Effect 32 Effect 33	
35	Indexing/speed /		000-255	Indexing (Static Mode) (Dynamic Mode) Speed from fast to slow, forward Stop Speed from slow to fast, backward	
36	Fade/Wake		000-005 006-130 131-255	Off Fade (From fast to slow) Wake (From fast to slow)	
37	Transition		000-255		
38	Red 1		000-255		
39	Green 1		000-255		
40	Blue 1		000-255		
41	White 1		000-255		
42	Red 2		000-255		
43	Green 2		000-255		
44	Blue 2		000-255		
45	White 2		000-255		
...	...		...		
...	...		...		
274	Red 60		000-255		
275	Green 60		000-255		
276	Blue 60		000-255		
277	White 60		000-255		
278	Red 61		000-255		
279	Green 61		000-255		
280	Blue 61		000-255		
281	White 61		000-255		

Shape

Advanced Pixel					
1	PAN		000-255		
2	PAN Fine		000-255		
3	TILT		000-255		
4	TILT Fine		000-255		
5	ZOOM		000-255	From wide to narrow beam	
6	Strobe		000-003 004-103 104-107 108-207 208-212 213-225 226-238 239-251 252-255	Light OFF Strobe from low (1Hz) to fast (25Hz) Light ON Pulsation from slow (0.5 Hz) to fast (25 Hz) Light ON Random Slow Strobe Random Medium Strobe Random Fast Strobe Light	
7	Dimmer		000-255		
8	Dimmer Fine		000-255		
9	FUNCTION		000-003 004-007 008-011 012-015 016-019 020-023 024-039 040-043 044-047 048-051 052-055 056-059 060-063 064-067 068-071 072-075 076-079 080-083 084-087 088-091 092-095 096-097 098-099 100-103 104-107 108-111 112-159 160-163 164-167 168-171 172-175 176-179 180-183 184-187 188-191 192-195 196-199 200-203 204-207	None Auto (Default) SLN Constant Normal Tilt speed Fast Tilt speed (Default) None Linear Exponential (Default) Logarithmic S-Curve None Raw color channels gamma 1 Raw color channels gamma 1.5 Raw color channels gamma 2.2 (Default) Color Calibration Off (Default) Color Calibration Factory Color Calibration Customized None Reverse Mapping Off (Default) Reverse Mapping On Pixel Map Disabled(Default) Pixel Map On Circle Mode Pixel Map On RGBW Mode Zoom Reposition On(Default) Zoom Reposition Off None Dimmer Fade Off Dimmer Fade On PWM frequency LED=600Hz PWM frequency LED=1200Hz PWM frequency LED=2000Hz (Default) PWM frequency LED=4000Hz PWM frequency LED=6000Hz PWM frequency LED=25000Hz Display On Display Off 10s (Default) Display Off 20s Display Off 30s	HOLD 35 and Save

10.8 DMX CHART

BACKGROUND	10	RESET	208-253	None	
			254-255	Default function recall	
			000-025	No Function	
			026-076	Zoom Reset (Hold 55)	
			077-127	Pan / Tilt Reset (Hold 55)	
			128-255	Complete Reset (Hold 55)	
	11	Crossfade	000-255		
	12	Red	000-255		
	13	Green	000-255		
	14	Blue	000-255		
	15	White	000-255		
	16	CTO	000-004	OFF	
	17	Tint	005-255	CTO 10000K~2800K	
			000-127	Red Shift	
			128-128	Off	
			129-255	Green Shift	
	18	Strobe	000-003	Light OFF	
			004-103	Strobe from low (1Hz) to fast (25Hz)	
			104-107	Light ON	
			108-207	Pulsation from slow (0.5 Hz) to fast (25 Hz)	
			208-212	Light ON	
			213-225	Random Slow Strobe	
			226-238	Random Medium Strobe	
			239-251	Random Fast Strobe	
			252-255	Light	
			000-255		
SHAPE	19	Dimmer	000-255		
	20	Red	000-255		
	21	Green	000-255		
	22	Blue	000-255		
	23	White	000-255		
	24	CTO	000-004	OFF	
			005-255	CTO 10000K~2800K	
	25	Tint	000-127	Red Shift	
			128-128	Off	
			129-255	Green Shift	
			000-003	Light OFF	
	26	Strobe	004-103	Strobe from low (1Hz) to fast (25Hz)	
			104-107	Light ON	
			108-207	Pulsation from slow (0.5 Hz) to fast (25 Hz)	
			208-212	Light ON	
			213-225	Random Slow Strobe	
			226-238	Random Medium Strobe	
			239-251	Random Fast Strobe	
			252-255	Light	
			000-255		
			000-005	Normal	
	28	Shape Mode	006-130	Static	Shape Mode
			131-255	Dynamic	
	29	Shape Selection	000-007	Effect 1	
			008-015	Effect 2	
			016-023	Effect 3	
			024-031	Effect 4	
			032-038	Effect 5	
			039-046	Effect 6	
			047-054	Effect 7	
			055-062	Effect 8	
			063-069	Effect 9	
			070-077	Effect 10	
			078-085	Effect 11	
			086-093	Effect 12	
			094-100	Effect 13	
			101-108	Effect 14	
			109-116	Effect 15	
			117-124	Effect 16	
			125-131	Effect 17	
			132-139	Effect 18	
			140-147	Effect 19	
			148-155	Effect 20	
			156-162	Effect 21	
			163-170	Effect 22	
			171-178	Effect 23	
			179-186	Effect 24	
			187-193	Effect 25	
			194-201	Effect 26	
			202-209	Effect 27	
			210-217	Effect 28	
			218-224	Effect 29	
			225-232	Effect 30	
			233-240	Effect 31	
			241-248	Effect 32	
			249-255	Effect 33	
	30	Indexing/speed /	000-255	Indexing (Static Mode)	
			000-124	(Dynamic Mode)	
	31	Fade/Wake	125-130	Speed from fast to slow, forward	
			131-255	Stop	
				Speed from slow to fast, backward	
	32	Transition	000-005	Off	
			006-130	Fade (From fast to slow)	
			131-255	Wake (From fast to slow)	
	33	Strobe	000-003	Light OFF	
			004-103	Strobe from low (1Hz) to fast (25Hz)	
			104-107	Light ON	
			108-207	Pulsation from slow (0.5 Hz) to fast (25 Hz)	
			208-212	Light ON	
			213-225	Random Slow Strobe	
			226-238	Random Medium Strobe	
	34	Dimmer	239-251	Random Fast Strobe	
			252-255	Light	
	35	CTO	000-004	OFF	
			005-255	CTO 10000K~2800K	
	36	Tint	000-127	Red Shift	
			128-128	Off	
			129-255	Green Shift	

10.9 DMX CHART

	37	Red 1	000-255		
	38	Green 1	000-255		
	39	Blue 1	000-255		
	40	White 1	000-255		
	41	Red 2	000-255		
	42	Green 2	000-255		
	43	Blue 2	000-255		
	44	White 2	000-255		
	...	...	...		
	273	Red 60	000-255		
	274	Green 60	000-255		
	275	Blue 60	000-255		
	276	White 60	000-255		
	277	Red 61	000-255		
	278	Green 61	000-255		
	279	Blue 61	000-255		
	280	White 61	000-255		

Shape

Basic XY-18					
1	PAN	000-255			
2	PAN Fine	000-255			
3	TILT	000-255			
4	TILT Fine	000-255			
5	ZOOM	000-255	From wide to narrow beam		
6	Strobe	000-003 004-103 104-107 108-207 208-212 213-225 226-238 239-251 252-255	Light OFF Strobe from low (1Hz) to fast (25Hz) Light ON Pulsation from slow (0.5 Hz) to fast (25 Hz) Light ON Random Slow Strobe Random Medium Strobe Random Fast Strobe Light		
7	Dimmer	000-255			
8	Dimmer Fine	000-255			
9	CTO	000-004 005-255	OFF CTO 10000K-2800K		
10	Tint	000-127 128-128 129-255	Red Shift Off Green Shift		
11		000-255			
12	Dimmer Fade	000-255	Fast to Slow		
13	FUNCTION	000-003 004-007 008-011 012-015 016-019 020-023 024-039 040-043 044-047 048-051 052-055 056-059 060-063 064-067 068-071 072-075 076-079 080-083 084-087 088-091 092-095 096-097 098-099 100-103 104-107 108-111 112-159 160-163 164-167 168-171 172-175 176-179 180-183 184-187 188-191 192-195 196-199 200-203 204-207 208-253 254-255	None Auto (Default) SLN Constant Normal Tilt speed Fast Tilt speed (Default) None Linear Exponential (Default) Logarithmic S-Curve None Raw color channels gamma 1 Raw color channels gamma 1.5 Raw color channels gamma 2.2 (Default) Color Calibration Off (Default) Color Calibration Factory Color Calibration Customized None Reverse Mapping Off (Default) Reverse Mapping On Pixel Map Disabled(Default) Pixel Map On Circle Mode Pixel Map On RGBW Mode Zoom Reposition On(Default) Zoom Reposition Off None Dimmer Fade Off Dimmer Fade On PWM frequency LED=600Hz PWM frequency LED=1200Hz PWM frequency LED=2000Hz (Default) PWM frequency LED=4000Hz PWM frequency LED=6000Hz PWM frequency LED=25000Hz Display On Display Off 10s (Default) Display Off 20s Display Off 30s None Default function recall		HOLD 35 and Save
14	RESET	000-025 026-076 077-127 128-255	No Function Zoom Reset (Hold 5S) Pan / Tilt Reset (Hold 5S) Complete Reset (Hold 5S)		
15	X	000-255			
16	X Fine	000-255			
17	Y	000-255			
18	Y Fine	000-255			

11. MAINTENANCE

MAINTENANCE AND CLEANING THE UNIT

- Make sure the area below the installation place is free from unwanted persons during setup.
- Switch off the unit, unplug the main cable and wait until the unit has cooled down.
- All screws used for installing the device and any of its parts should be tightly fastened and should not be corroded.
- Housings, fixations and installation spots (ceiling, trusses, suspensions) should be totally free from any deformation.
- The main cables must be in impeccable condition and should be replaced immediately even when a small problem is detected.
- It is recommended to clean the front at regular intervals, from impurities caused by dust, smoke, or other particles to ensure that the light is radiated at maximum brightness. For cleaning, disconnect the main plug from the socket. Use a soft, clean cloth moistened with a mild detergent. Then carefully wipe the part dry. For cleaning other housing parts use only a soft, clean cloth. Never use a liquid, it might penetrate the unit and cause damage to it.

12. TROUBLESHOOTING

Problems	Possible causes	Checks and remedies
Fixture does not light up	• No mains supply • Dimmer fader set to 0 • All color faders set to 0 • Faulty LED • Faulty LED board	• Check the power supply voltage • Increase the value of the dimmer channels • Increase the value of the color channels • Replace the LED board • Replace the LED board
General low light intensity	• Dirty lens assembly • Misaligned lens assembly	• Clean the fixture regularly • Install lens assembly properly
Fixture does not power up	• No power • Loose or damaged power cord • Faulty internal power supply	• Check for power on power outlet • Check power cord • Replace internal power supply
Fixture does not respond to DMX	• Wrong DMX addressing • Damaged DMX cables • Bouncing signals	• Check control panel and unit addressing • Check DMX cables • Install terminator as suggested

Contact an authorized service center in case of technical problems or not reported in the table can not be resolved by the procedure given in the table.



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