

EC7

USER MANUAL

CONTENTS

1.SAFETY INFORMATION.....	01
2.DIMENSION	03
3.CONTROL	04
4.FIXTURE SPECIFICATION.....	05
4.1 Technical datasheet.....	05
4.2 Photometrics	07
5.MENU	08
6.INSTALLATION AND CONNECTION.....	11
6.1 Installation Instruction.....	11
6.2 DMX CHART	16
7.MAINTENANCE	30
8.TROUBLESHOOTING	30

1. SAFETY INFORMATION



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, user and maintenance of the unit.

GENERAL INSTRUCTION

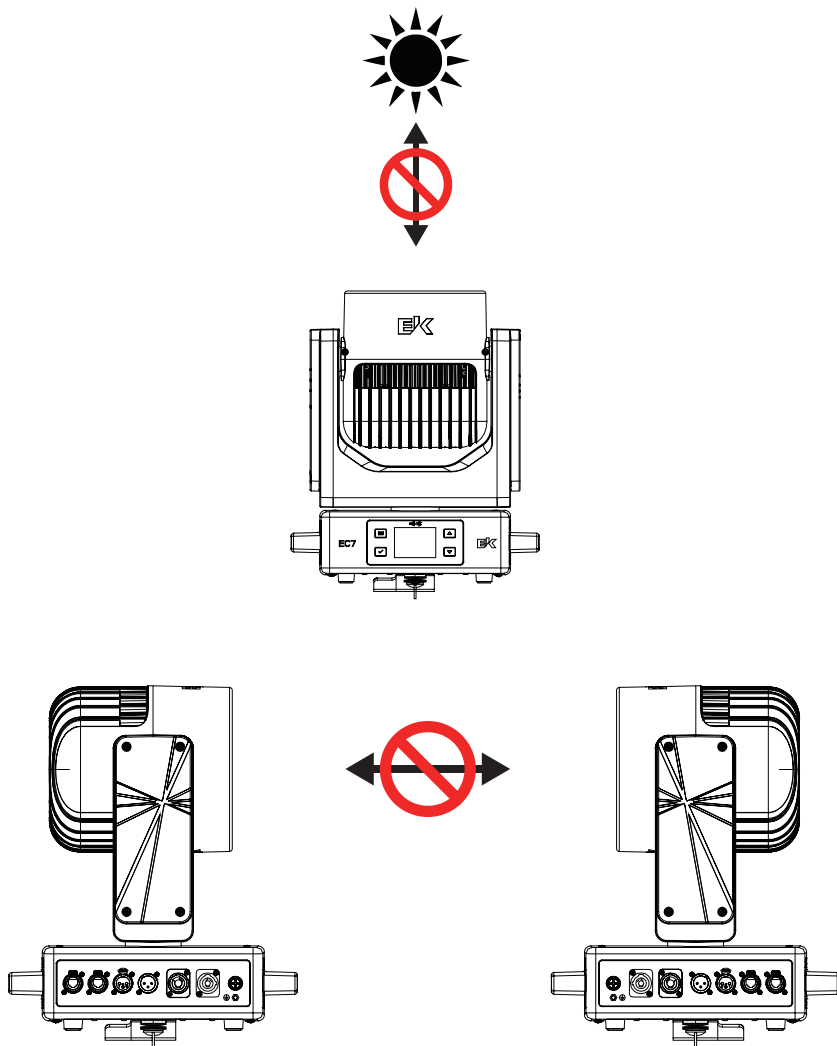
- The products referred to in this manual conform to the European Community Directives and are therefore marked with CE.
- The unit is supplied with hazardous network voltage (230V~). Service should be undertaken by skilled personnel only. Never make any modifications on the unit not described in this instruction manual, otherwise you will risk an electric shock.
- Connection must be made to power supply system fitted with efficient earthing (Class I appliance according to standard EN60598-1). It is 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 place with a temperature of over 40°C.
- Make certain that no Flammable 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, ensure you dispose of the unit responsibly in accordance with local recycling laws.



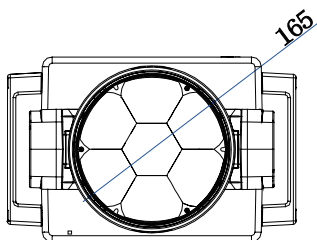
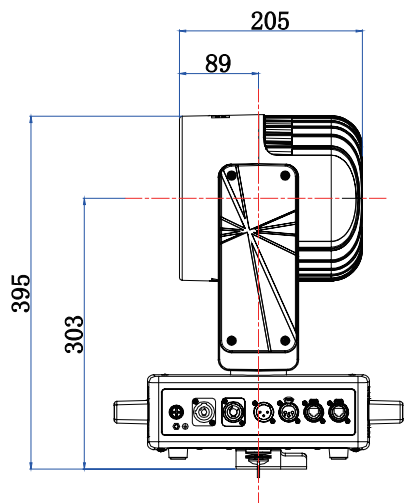
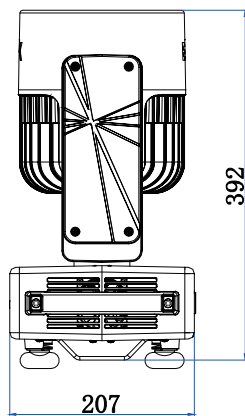
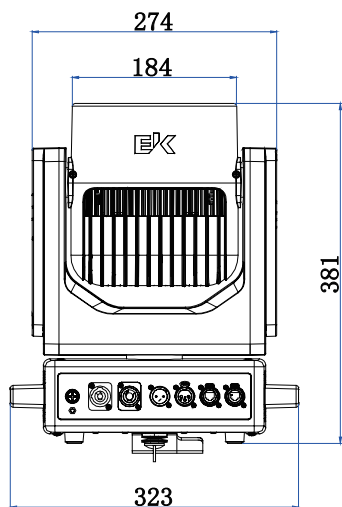
WARNINGS AND INSTALLATION PRECAUTIONS

- 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 operation may lead to dangers like short circuit, burns, electric shock, etc.
- Before starting any maintenance work or cleaning the fixture, cut off power from the main supply.
- Always additionally secure the fixture 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 Flammable materials 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.

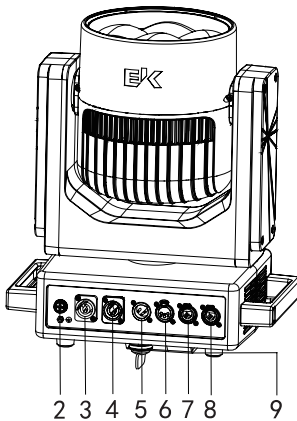
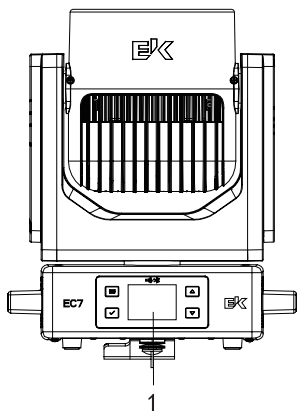
- Do not expose the front of a fixture to sunlight or any other strong light source. Avoid pointing other high-powered beam lights directly at the fixture.
- Do not focus a light beam from one lighting fixture directly towards another.
- For outdoor applications during daylight, make sure that the front 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. DIMENSION



3.CONTROL



1.Control Pannel

2.Fuse

3.Power In

4.Power Out

5.5pin(or 3pin) DMX In

6.5pin(or 3pin) DMX Out

7/8.Artnet

9.Omega bracket with clamp

Menu Display

Function	Illustration	Description	Function
MODE (Left)	Menu Option	Enter Menu	Menu Operation
UP	UP	Scroll Up	Increase Numeric Value
DOWN	DOWN	Scroll Down	Decrease Numeric Value
ENTER (Right)	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.

4. FIXTURE SPECIFICATION

4.1 TECHNICAL DATASHEET

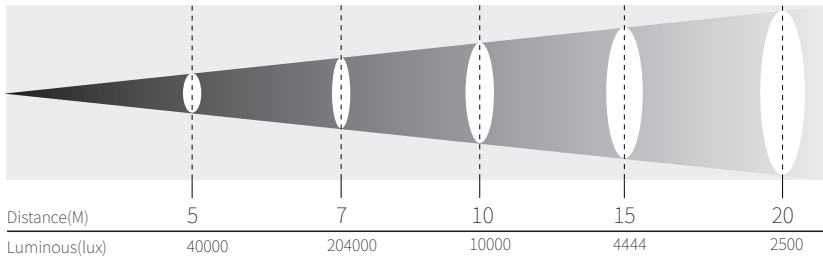
EK-EC7	
PHOTOMETRICS	
Light Source	7*50W RGBWW LED
Color Temperature	2800K -10000K
Output	Up to 7700 lumen
CRI	>93
LED Life	30000H
KEY FEATURES	
PAN	540 °
TILT	247 °
Color System	RGBWW
Zoom	Beam angle 3.5° -35°, Field angle 5.5° -51°
Strobe	1 -30HZ
Dimming	0-100% linear dimming
Power	
Mains	100 -240V,50/60Hz
Power	230V@420W
Power connections	PowerCon In/Out,Linking up to 4pcs@230V
Data connections	3pin(or 5pin) XLR In/Out,linking up to 32pcs

4.1 TECHNICAL DATASHEET

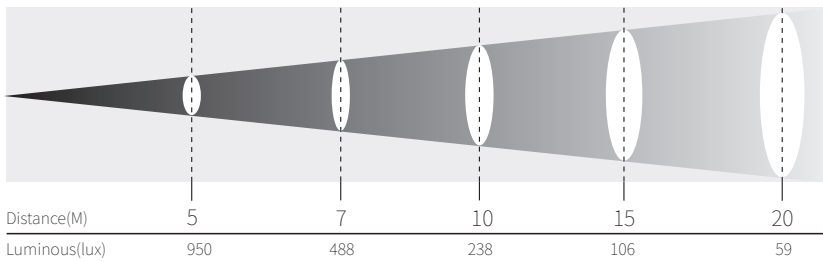
Power Factor	230V@0.97
Ambient	-10 ~ 45 C
PHYSICAL	
Dimension	323*207*381mm
Weight	9.7Kg
IP Rating	IP20
Cooling	Aluminum alloy heat sink with low noise fan
Housing	Black flame-retardant nylon with fiber reinforcement,spray-painted
Installation	Sit-flat floor mounting, side hanging and flown mounting
CONTROL	
Protocol	DMX512/RDM/sACN/Artnet/Bluetooth/APP/NFC
DMX Channel	18CH / 37CH / 36CH / 42CH / 65CH / 64CH
Display	240RGB*320 2.8 inch TFT display
Frequency	600Hz/1.2KHz/2KHz/4KHz/6KHz/25KHz
Built-in Programs	Yes
Pixel Control	Single control
Accessories	
Standard equipment	Omega Bracket,Power Cable

4.2 Photometrics

Beam Angle: 3.5°



Beam Angle: 35°



5.MENU

		Menu(-)					
Main Menu	Menu level 2	Menu level 3	Menu level4			Remark	
1	SETUP	Basic Engine	Mode	Basic-18 (Pixel engine is enabled by default)			Default: Basic Pixel-42
				Standard-37 (Pixel engine is enabled by default)			
				Advanced-36 (Pixel engine is enabled by default)			
				Basic Pixel-42 (Pixel engine is invalid, to be hidden)			
				Standard Pixel-65 (Pixel engine is invalid, to be hidden)			
				Advanced Pixel-64 (Pixel engine is invalid, to be hidden)			
		Source	DMX			Default:DMX	
			Art-Net				
			sACN				
		Universe	000-255			Default: 0	
		DMX Address	1-512			Default: 1	
		Pixels Engine	Mode	Disabled			Default: Disabled
	RGBW						
	Source		DMX			Default: DMX	
			Art-Net				
			sACN				
	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		No			Default: No		
		Both Engine					
	Basic Engine						
2	OPTION	Pan / Tilt	Invert Pan	Off			Default: Off
				On			
			Invert Tilt	Off			Default: Off
				On			
			Swap Pan Tilt	Off			Default: Off
				On			
			Encoder Pan Tilt	Off			Default: On
				On			
			P/T Homing Mode	Standard			Default: Standard
				Sequenced			
			Pan Home Def Pos	0 degree			Default: 270 degree
				90 degrees			
				180 degrees			
				270 degrees			
			Tilt Home Def Pos	0%			Default: 50%
				12.50%			
				25%			
				50%			
	75%						
	87.50%						
P/T Speed	100%			Default: Fast			
	Normal						
Display	On			Default: 10s			
	10s						
	20s						

2	OPTION	Display	30s				Default: 10s	
		Key Lock	No					Default: No
			Yes					(Up+Down+Up+Down+Enter Unlock)
		Fan Mode	Auto					Default: Auto
			SLN					
			Constant					
		Power Mode	STD Power					Default: STD Power
			ECO Power					
		Reverse Mapping	Off					Default: Off
			On					
		Special Functions	Dimmer Curve	Linear				Default: Exponential
				Exponential				
				Logarithmic				
				S-Curve S				
			Dimmer Fade	Off				Default: On
				On				
			RGB Gamma	Gamma 1.0				Default: Gamma 2.2
				Gamma 1.5				
				Gamma 2.2				
			PWM Frequency	600Hz				Default:2000Hz
		1200Hz						
		2000Hz						
		4000Hz						
6000Hz								
Zoom Reposition	On				Default:On			
	Off							
Setting	Default Preset	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	INFORMATION	System Errors						
		Fixture Hours	Total Hours					
		Led Hours	Total Hours					
		System Version	DISP:V1.0					
			CTR1-XY:V1.0					
			CTR2-MOTOR:V1.0					
			Bluetooth:V1.0					
		Fans Monitor	Led Fan	100%				
			Base Fan					
		Network parameters	IP Address	2.198.159.207				
IP Mask	255.0.0.0							
4	TEST	Auto	Pan Tilt					
			Colour					
			Zoom					
			All					
		Reset	No					
			Yes					
Channel								
5	ADVANCED	Access Code xxxx	Color Calibration	Off			Default :Off	
				Factory Calibration				
				Customized Calibration	Red	125-255		
					Green	125-255		
					Blue	125-255		
White	125-255							

5	ADVANCED	Access Code xxxx	Calibration	Pan Offset	000-255		
				Tilt Offset	000-255		
				Zoom Offset	000-255		
			Menu Locking	Unlock Code			Default: 1234
				XXXX			
			Upload Firmware	Yes / No			

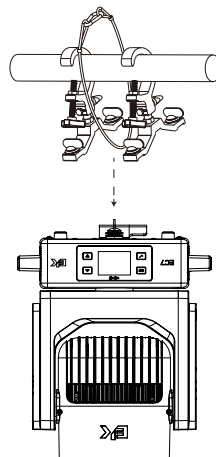
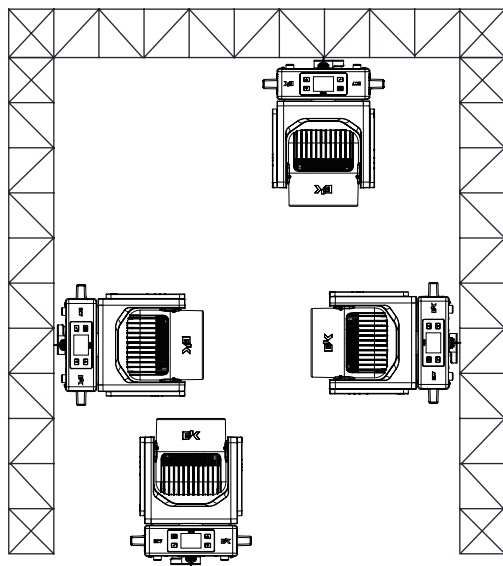
Power on initialization: left and right buttons

Shortcut: in main interface, press and hold the upper and lower buttons for 3 seconds to display the reverse direction.

Battery display: when no external power supply, press and hold the right button for 3 seconds to enter setting menu;

6. INSTALLATION AND CONNECTION

6.1 INSTALLATION INSTRUCTION

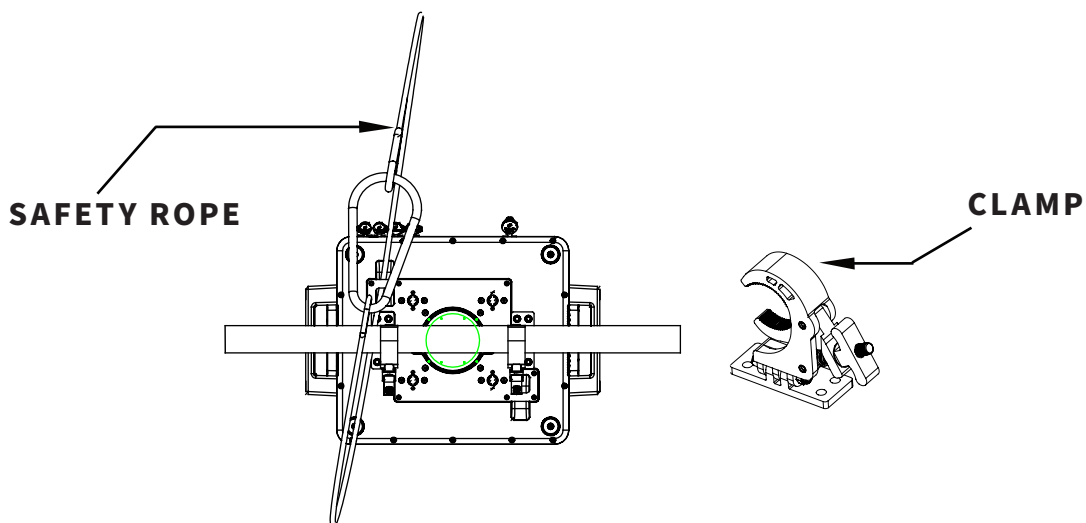


We recommend the following general guidelines below:

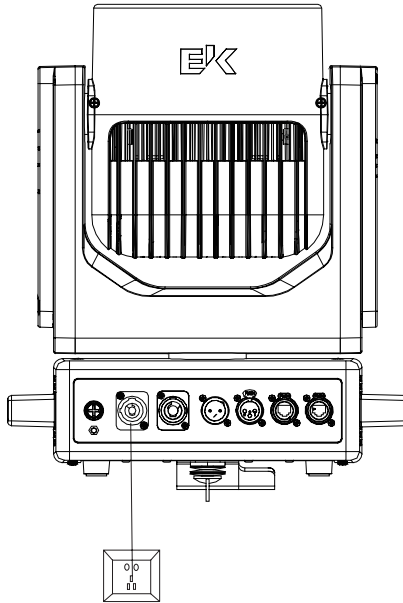
1. Always mount this product in a safe position and make sure there is adequate room for ventilation, configuration and maintenance.
2. Keep any Flammable materials at a safe distance from the fixture, as indicated in the safety notes.
3. Make sure that the device is not exposed to extreme heat, moisture or dust.
4. Make sure that the structure to which you are hanging the modules can support the weight. EC7 may be set up on a solid and even surface. The unit can also be mounted upside down to a cross arm. For fixing, stable mounting clips are required. The mounting place must be sufficiently stable and be able to support a weight of 10 times of the unit' s weight. When carrying out any installation, always comply scrupulously with all the regulations (particularly regarding safety) currently in force in the country in which the fixture' s being used.
- 5 • Install the fixture at a suitable location by means of the mounting bracket.
- 6 • Always additionally secure the fixture with the safety rope to prevent from falling down. For this purpose, fasten the safety rope at a suitable position so that the maximum fall of the fixture will be 20 cm.
- 7 • Adjust the fixture and use the knob to slightly release or tighten the locking mechanism of the bracket if is necessary.

6.1.2 FLOWN MOUNTING

1. During installation, maintain a minimum distance of 0.5 meters between the fixture and any flammable materials .
2. When flown mounting, a safety cable rated for at least 10 times the fixture's weight must be installed.
3. For overhead mounting, the supporting structure must have a load capacity of at least 10 times the fixture's weight.
4. As shown in the diagram, the safety cable must pass through both the fixture's safety cable eyelet and the mounting structure to ensure a secure connection.



POWER CONNECTION



POWER CONNECTION INSTRUCTION



Power In

Notes: For power reasons, using 1.5mm² power cable can link up to 4 units (230V) maximum.



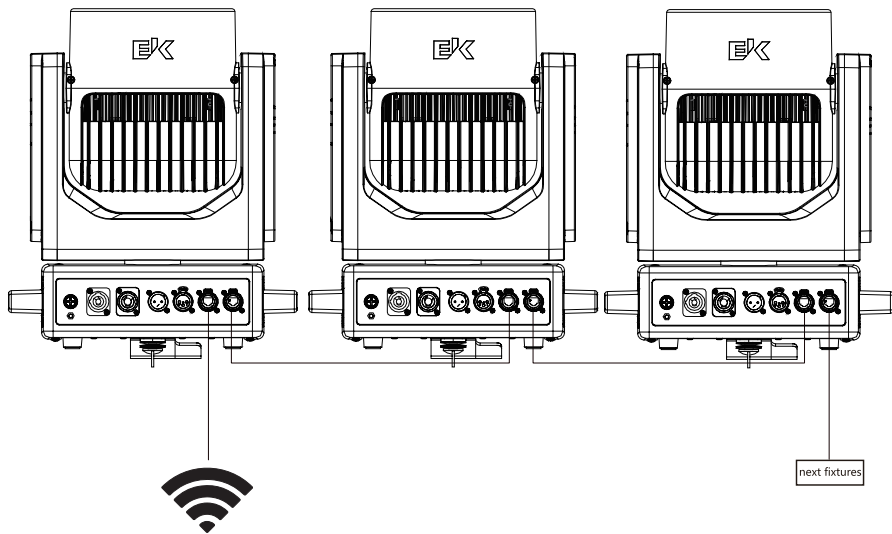
WARNING

Do not connect more than 4 units with one power cable, or overload the work.

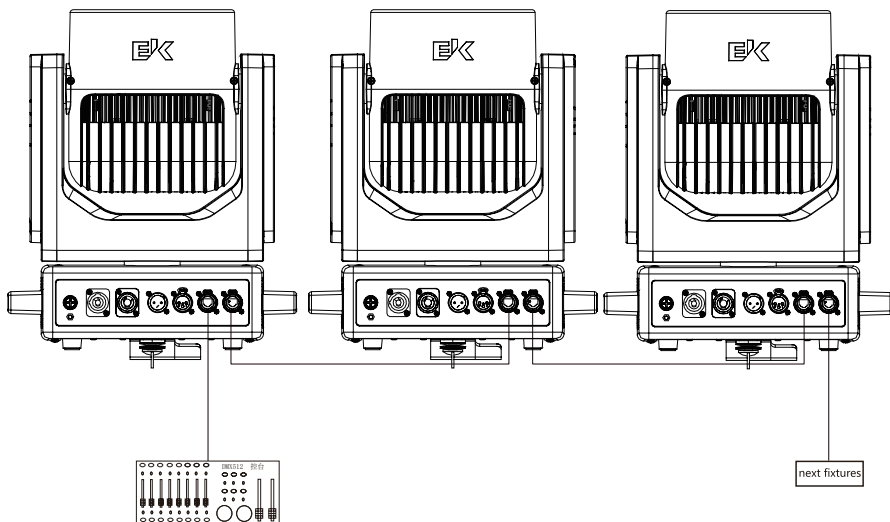
Do not use the power cable if the insulation layer has been damaged, Do not put the power cable on other wires. When the EK7 is not in use or clean, please remove the power cable.

Do not vigorously plug in or drag the power cable.

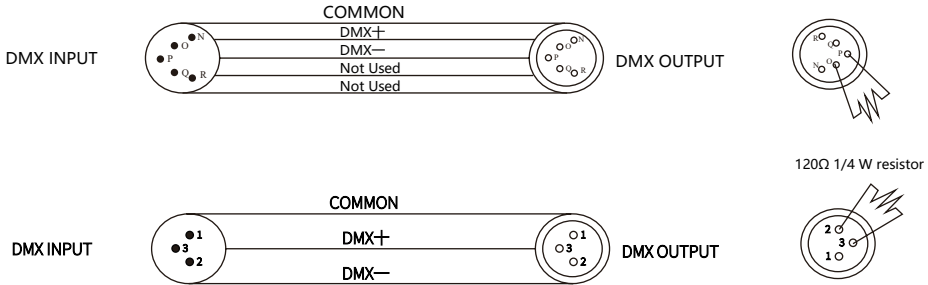
ARTNET CONNECTION



DMX CONNECTION



DMX CONNECTION



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.

MODE	ADDRESS	1ST FIXTURE	2nd FIXTURE	3rd FIXTURE	4th FIXTURE
Advanced	001-018	001	019	055	073

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

6.2 DMX CHART

6.2.1 DMX CHART

Basic-18 (Pixel engine can be turned on to use)				
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 ON	
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	HOLD 3S and Save
		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) Led	
		092-095	Reverse Mapping On Led	
		096-097	Pixel Disabled(Default)	
		098-099	Pixel Mode On	
		100-103	None	
		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			

6.2.2 DMX CHART

13	FUNCTION	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		Fails, when pixel engine is turned on
16	Green	000-255		
17	Blue	000-255		
18	White	000-255		

Standard-37 (Pixel engine can be turned on to use)					
MAIN	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 ON			
	7	Dimmer	000-255		
	8	Dimmer Fine	000-255		
	9	FUNCTION	000-003	None	HOLD 3S and Save
			004-007	Auto (Default)	
			008-011	SLN	
			012-015	Constant	
016-019			Normal Tilt speed	HOLD 3S and Save	
020-023			Fast Tilt speed (Default)		
024-039			None		
040-043			Linear		
044-047			Exponential (Default)		
048-051	Logarithmic				

6.2.3 DMX CHART

MAIN	9	FUNCTION	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 Disabled(Default)		
			098-099	Pixel Mode On		
			100-103	None		
			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	OFF		
			005-255	CTO 10000K~2800K		
21	Tint	000-127	Red Shift			
		128-128	Off			
		129-255	Green Shift			

6.2.4 DMX CHART

BACKGROUND	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 ON					
24	Dimmer	000-255				
25	Red	000-255				
26	Green	000-255				
27	Blue	000-255				
28	White	000-255				
SHAPE	29	CTO	000-004	OFF		
			005-255	CTO 10000K~2800K		
	30	Tint	000-127	Red Shift		
			128-128	Off		
			129-255	Green Shift		
	31	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 ON				
	32	Dimmer	000-255			
	33	Shape Mode	000-005	Normal	When pixel engine is turned on and Shape Mode is set to Normal, pixel channel will be effective.	
			006-130	Static		
			131-255	Dynamic		
	34	Shape Selection	000-007	Effect 1		
			008-015	Effect 2		
			016-023	Effect 3		
			024-232	...		
			233-240	Effect 31		
			241-248	Effect 32		
			249-255	Effect 33		
	35	Indexing/speed	000-255	Indexing (Static Mode)		
				(Dynamic Mode)		
			000-124	Speed from fast to slow, forward		
			125-130	Stop		
36	Fade/Wake	131-255	Speed from slow to fast, backward			
		000-005	Off			
		006-130	Fade (From fast to slow)			
37	Transition	131-255	Wake (From fast to slow)			
		000-255				

6.2.5 DMX CHART

Advanced-36 (Pixel engine can be turned on to use)					
MAIN	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 ON	
	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 Disabled(Default)		
098-099			Pixel Mode On		
100-103			None		
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				

HOLD 3S and Save

6.2.6 DMX CHART

MAIN	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	Green	000-255		
	14	Blue	000-255		
	15	White	000-255		
	16	CTO	000-004	OFF	
			005-255	CTO 10000K~2800K	
	17	Tint	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 ON	
19			Dimmer	000-255	
SHAPE	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	
	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 ON			
	27	Dimmer	000-255		
	28	Shape Mode	000-005	Normal	When pixel engine is turned on and Shape Mode is set to Normal, pixel channel will be effective
006-130			Static		
29	Shape Selection	131-255	Dynamic		
		000-007	Effect 1		
		008-015	Effect 2		
		016-023	Effect 3		
		024-232	...		
		233-240	Effect 31		
		241-248	Effect 32		
		249-255	Effect 33		

6.2.7 DMX CHART

SHAPE	30	Indexing/ speed	000-255	Indexing (Static Mode)	
				(Dynamic Mode)	
			000-124	Speed from fast to slow, forward	
			125-130	Stop	
	31	Fade/Wake	131-255	Speed from slow to fast, backward	
			000-005	Off	
			006-130	Fade (From fast to slow)	
32	Transition	131-255	Wake (From fast to slow)		
		000-255			
PIXELS	33	Strobe	000-003	Light OFF	When pixel engine is turned on, Shape Mode channel is set to Normal, it is valid, while the main control Dimmer and Strobe are invalid
			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 ON			
	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	

Pixel Engine Channel				
1	Red 1	000-255		
2	Green1	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		
...		
...		
21	Red 6	000-255		
22	Green 6	000-255		
23	Blue 6	000-255		
24	White 6	000-255		
25	Red 7	000-255		
26	Green7	000-255		
27	Blue 7	000-255		
28	White 7	000-255		

6.2.8 DMX CHART

Basic Pixel-42 (Pixel engine is invalid)			
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 ON
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 Disabled(Default)
		098-099	Pixel Mode On
		100-103	None
		104-107	Zoom Reposition On(Default)
		108-111	Zoom Reposition Off
		112-159	None
160-163	Dimmer Fade Off		

6.2.9 DMX CHART

		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		
...		
...		
35	Red 6	000-255		
36	Green 6	000-255		
37	Blue 6	000-255		
38	White 6	000-255		
39	Red 7	000-255		
40	Green 7	000-255		
41	Blue 7	000-255		
42	White 7	000-255		

Standard Pixel-65 (Pixel engine is invalid)					
MAIN	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 ON			
7	Dimmer	000-255			
8	Dimmer Fine	000-255			
9	FUNCTION	000-003	None	HOLD 3S and Save	

6.2.10 DMX CHART

MAIN	9	FUNCTION	004-007	Auto (Default)	HOLD 3S and Save
			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 Disabled(Default)	
			098-099	Pixel Mode On	
			100-103	None	
			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	Red Shift	

6.2.11 DMX CHART

BACKGROUND	21	Tint	128-128	Off	
			129-255	Green Shift	
	22	Dimmer Fade	000-255	Fast to Slow	
			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 ON				
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	OFF	
			005-255	CTO 10000K~2800K	
	30	Tint	000-127	Red Shift	
			128-128	Off	
			129-255	Green Shift	
	31	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 ON			
	32	Dimmer	000-255		
	33	Shape Mode	000-005	Normal	
			006-130	Static	
			131-255	Dynamic	
	34	Shape Selection	000-007	Effect 1	
			008-015	Effect 2	
			016-023	Effect 3	
			024-232	...	
			233-240	Effect 31	
			241-248	Effect 32	
			249-255	Effect 33	
	35	Indexing/speed	000-255	Indexing (Static Mode)	
			(Dynamic Mode)		
000-124			Speed from fast to slow, forward		
125-130			Stop		
		131-255	Speed from slow to fast, backward		
36	Fade/Wake	000-005	Off		
		006-130	Fade (From fast to slow)		
		131-255	Wake (From fast to slow)		
37	Transition	000-255			
Pixel	38	Red 1	000-255		Effective when Shape Mode channel is set to Normal
	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		

6.2.12 DMX CHART

Pixel	44	Blue 2	000-255		Effective when Shape Mode channel is set to Normal
	45	White 2	000-255		
		
		
	58	Red 6	000-255		
	59	Green 6	000-255		
	60	Blue 6	000-255		
	61	White 6	000-255		
	62	Red 7	000-255		
	63	Green 7	000-255		
64	Blue 7	000-255			
65	White 7	000-255			

Advanced Pixel-64 (Pixel engine is invalid)					
MAIN	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 ON	
			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 Disabled(Default)	
			098-099	Pixel Mode On	
			100-103	None	
104-107	Zoom Reposition On(Default)				

HOLD 3S and Save

6.2.11 DMX CHART

MAIN	9	FUNCTION	108-111	Zoom Reposition Off	HOLD 3S and Save
			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	Green	000-255		
	14	Blue	000-255		
	15	White	000-255		
	16	CTO	000-004	OFF	
			005-255	CTO 10000K~2800K	
	17	Tint	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 ON			
19	Dimmer	000-255			
SHAPE	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	
	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 ON				
27	Dimmer	000-255			

6.2.12 DMX CHART

SHAPE	28	Shape Mode	000-005	Normal	
			006-130	Static	
			131-255	Dynamic	
	29	Shape Selection	000-007	Effect 1	
			008-015	Effect 2	
			016-023	Effect 3	
			024-232	...	
			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	131-255	Speed from slow to fast, backward		
		000-005	Off		
		006-130	Fade (From fast to slow)		
32	Transition	131-255	Wake (From fast to slow)		
		000-255			
PIXELS	33	Strobe	000-003	Light OFF	When Shape Mode channel is set to Normal, it is valid, while the main control Dimmer and Strobe are invalid
			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 ON			
	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		
Pixel	37	Red 1	000-255	Effective when Shape Mode channel is set to Normal	
	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		
		
	57	Red 6	000-255		
	58	Green 6	000-255		
	59	Blue 6	000-255		
	60	White 6	000-255		
	61	Red 7	000-255		
	62	Green 7	000-255		
	63	Blue 7	000-255		
64	White 7	000-255			

7. MAINTENANCE

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.

8. TROUBLESHOOTING

Problems	Possible causes	Checks and remedies
Fixture does not light up	<ul style="list-style-type: none"> • No mains supply • Dimmer fader set to 0 • All color faders set to 0 • Faulty LED • Faulty LED board 	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Dirty lens assembly • Misaligned lens assembly 	<ul style="list-style-type: none"> • Clean the fixture regularly • Install lens assembly properly
Fixture does not power up	<ul style="list-style-type: none"> • No power • Loose or damaged power cord • Faulty internal power supply 	<ul style="list-style-type: none"> • Check for power on power outlet • Check power cord • Replace internal power supply
Fixture does not respond to DMX	<ul style="list-style-type: none"> • Wrong DMX addressing • Damaged DMX cables • Bouncing signals 	<ul style="list-style-type: none"> • Check control panel and unit addressing • Check DMX cables • Install terminator as suggested

Contact an authorised service centre in case of technical problems that are not reported in the table, or problems cannot be resolved by procedure given in the table



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