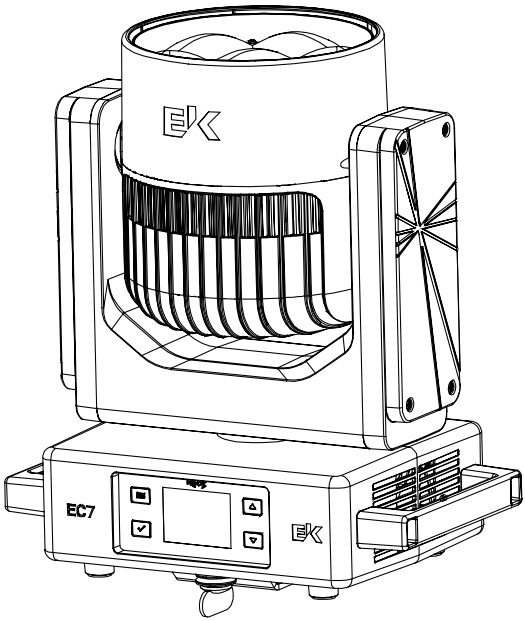


EC7

USER MANUAL

V26.10.10

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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.



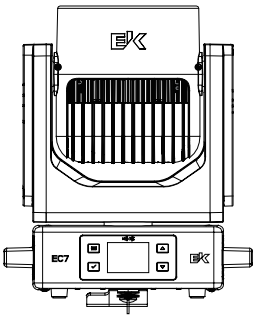
- This unit is not for home use,only professional applications.
- Never use the fixture under the following conditions:
  - in places subject to vibrations or bumps;
  - in place with a temperature of over 40℃ .
- Make certain that no Flammable liquids,water or metal objects enter the fixture.
- Do not 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.

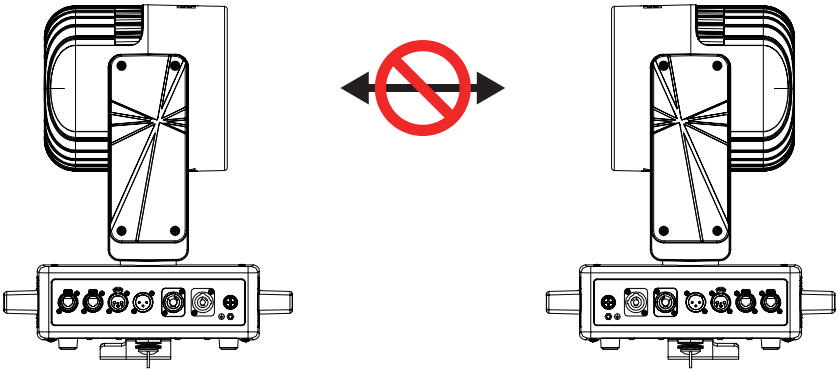
WARNINGS AND INSTALLATION PRECAUTIONS

- 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.

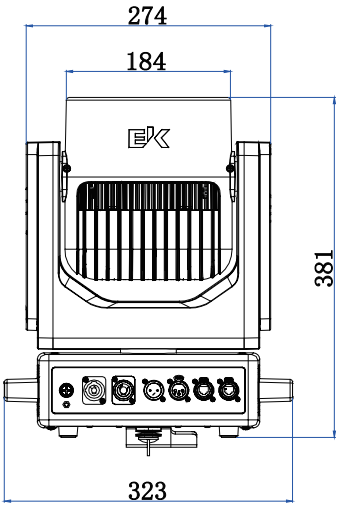
- Do not expose the front of a fixture to sunlight or any other strong light source. Avoid pointing other high-powered beam lights directly at the fixture.
- Do not focus a light beam from one lighting fixture directly towards another.
- For outdoor applications during daylight, make sure that the front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

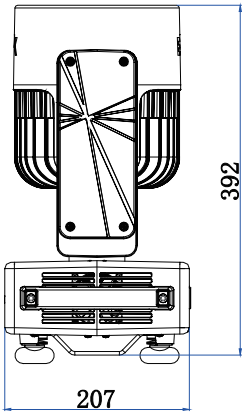


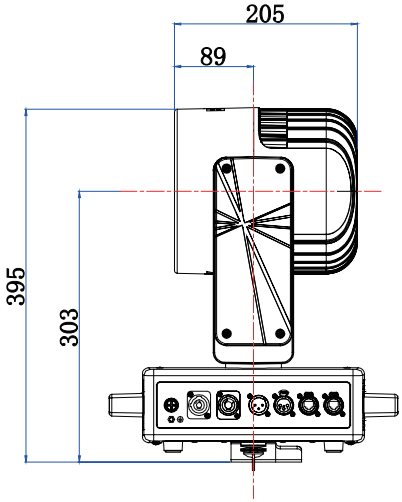


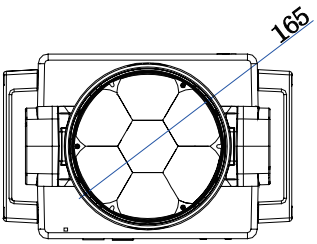


2.DIMENSION

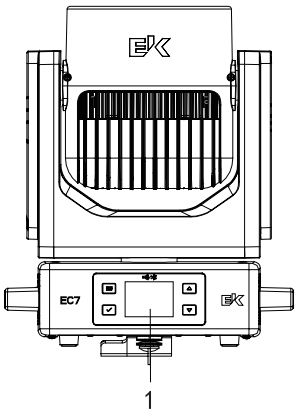


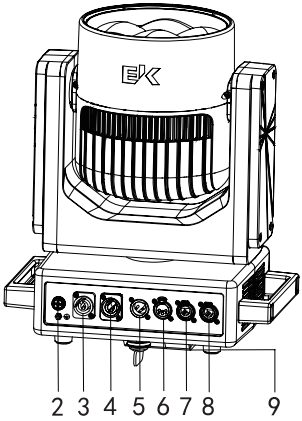






3.CONTROL





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 Numberic Value
DOWN	DOWN	Scroll Down	Decrease Numberic 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

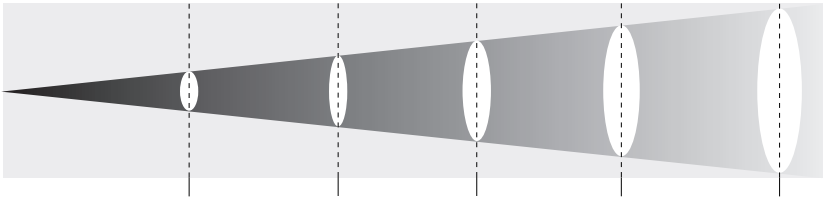
EK-EC7	
PHOTOMETRICS	
Light Source	7*50W RGBWW LED
Color Temperature	2800K -10000K
Output	Up to 7700 lumen
CRI	>93
LED Life	30000H
KEY FEATURES	
PAN	540°
TILT	247°
Color System	RGBWW
Zoom	Beam angle 3.5° -35°, Field angle 5.5° -51°
Strobe	1 -30HZ
Dimming	0-100% linear dimming
Power	
Mains	100 -240V,50/60Hz
Consumption	403.5W@230V ; 418W@120V
Power connections	PowerCon In/Out,Linking up to 7pcs@230V ; 3pcs@120V
Data connections	3pin(or 5pin) XLR In/Out,linking up to 32pcs

4.1 TECHNICAL DATASHEET

Power Factor	0.94@120V ; 0.99@230V
Ambient	-10～45℃
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

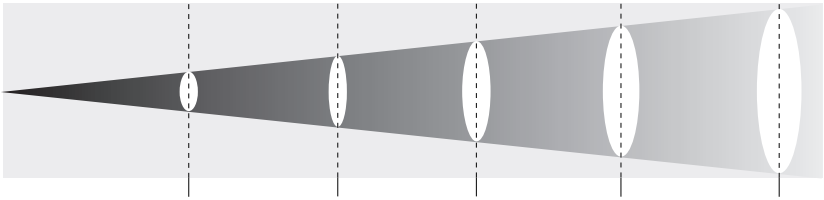
4.2 Photometrics

Beam Angle： 3.5°



Distance(M)	5	7	10	15	20
Luminous(lux)	40000	204000	10000	4444	2500

Beam Angle： 35°



Distance(M)	5	7	10	15	20
Luminous(lux)	950	488	238	106	59

5.MENU

Menu(-)					
	Main Menu	Menu level 2	Menu level 3	Menu level4	Remark
1	SETUP	Basic Engine	Mode	Basic-18	Default
				Standard-37	Basic Pixel
				Advanced-36	
				Basic Pixel	
				Standard Pixel	
				Advanced Pixel	
			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
			IP		
			Custom IP Mask	255.0.0.0	Default: 255.0.0.0
			Repeat on DMX	No	Default: No
			DMX	Both Engine	
				Basic Engine	
				Pixels Engine	
2	OPTION	Pan / Tilt	Invert Pan	Off	Default: Off
				On	
			Invert Tilt	Off	Default: Off
				On	
			Swap PanTilt	Off	Default: Off
				On	
			Encoder PanTilt	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%	
				100%	
			P/T Speed	Normal	Default: Fast
				Fast	
		Display	On		Default: 10s
			10s		
			20s		
			30s		
		Display Invert	No		Default:Auto
			Yes		
			Auto		

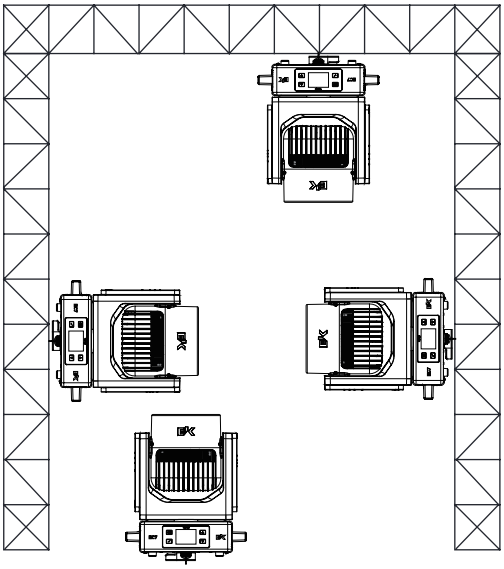
2	OPTION	Key Lock	No			Default: No
			Yes			(Up+Down+Up+Down+Enter)
		Fan Mode	Auto			Default: Auto
			SLN			
			Constant			
		Power Mode	STD Power			Default: STD Power
			ECO Power			
		Reverse Mapping	Off			Default: Off
		LED	On			
		Special Functions	Dimmer Curve	Linear		Default: Exponential
				Exponential		
				Logarithmic		
				S-Curve		
				InverseSquare		
			Dimmer Fade	Off		Default: On
				On		
			RGB Gamma	Gamma 1.0		Default: Gamma 2.2
			Gamma	Gamma 1.5		
				Gamma 2.2		
			PWM Frequency	600Hz		Default:2000Hz
				1200Hz		
				2000Hz		
				4000Hz		
				6000Hz		
				25000Hz		
		Zoom Reposition	On			Default:On
			Off			
		Invert Zoom	Off			Default: Off
			On			
		Led Cur Correct	Off			Default: Off
		LED	On			
		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			
		LED				
		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		

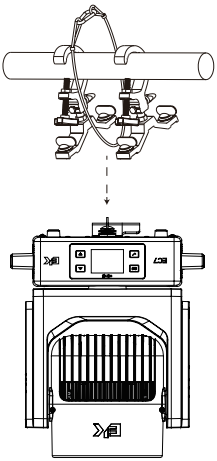
4	TEST	Auto	Pan Tilt			
			Colour			
			Zoom			
			All			
		Reset	No			
			Yes			
		Channel				
5	ADVANCED	Access Code	Color Calibration	Off		Default :Off
		xxxx		Factory Calibration		
				Customized Calibration	Red	125-255
					Green	125-255
					Blue	125-255
					White	125-255
			Calibration	Pan Offset	000-255	
				Tilt Offset	000-255	
				Zoom Offset	000-255	
			Menu Locking	Unlock Code		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 neccessary.

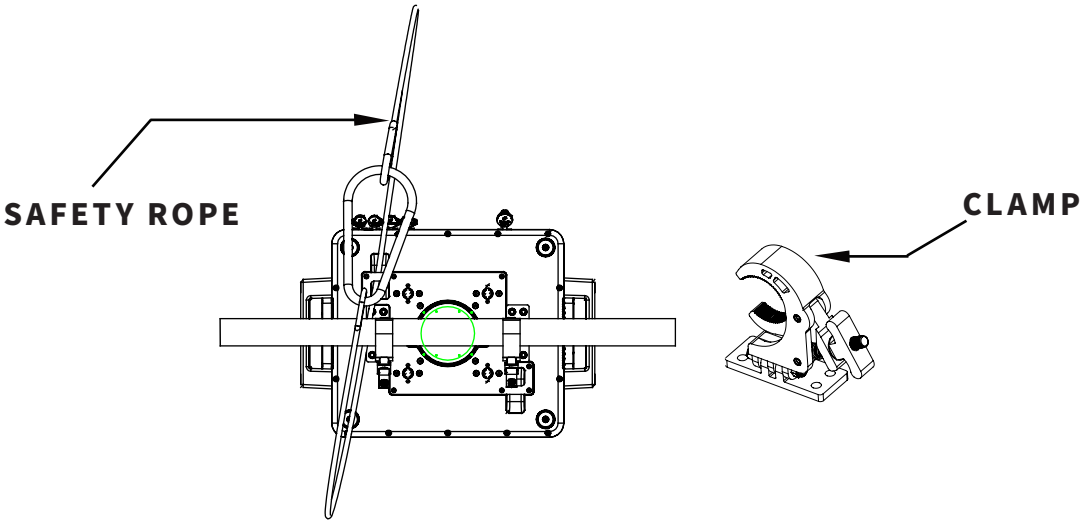
6.1.2 FLOWN MOUNTING

1.During installation, maintain a minimum distance of 0.5 meters between the fixture and any flammable materials .

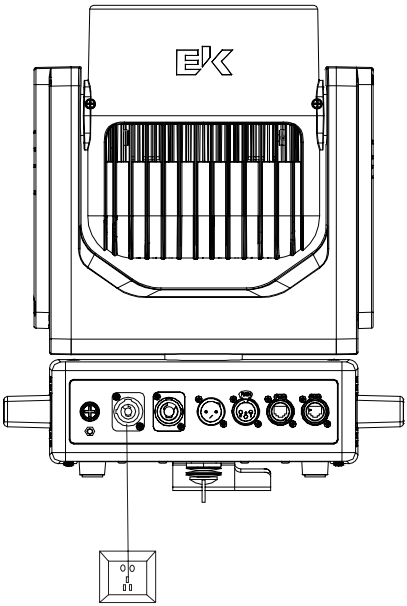
2.When flown mounting, a safety cable rated for at least 10 times the fixture's weight must be installed.

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

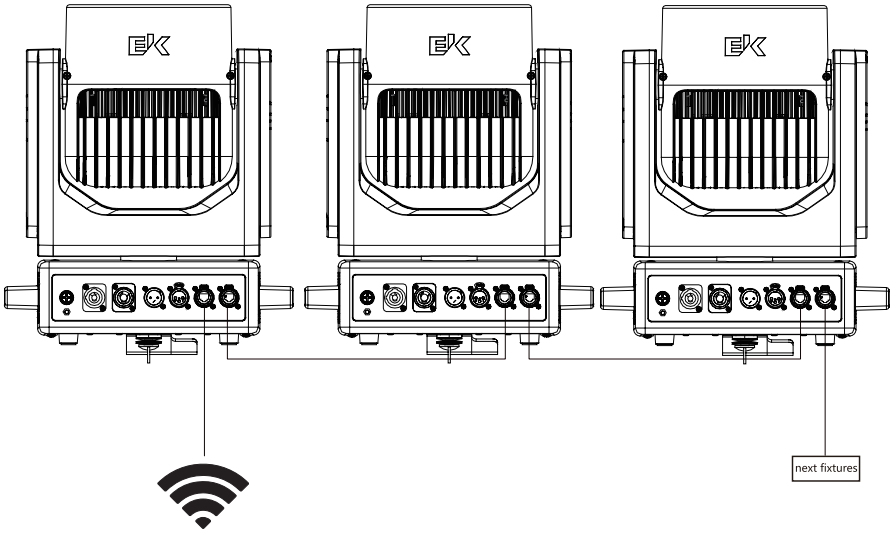
Do not connect more than 4 units with one power cable, or overload the work.

Do not use the power cable if the insulation layer has been damaged,

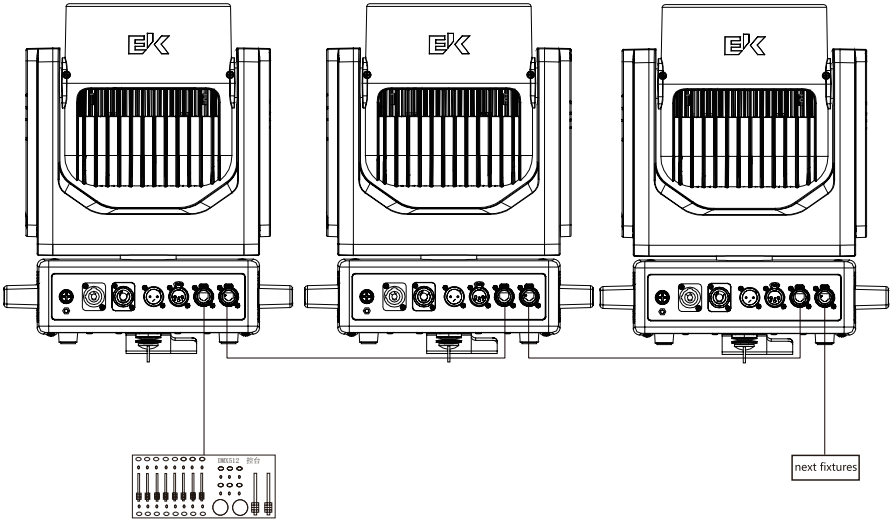
Do not put the power cable on other wires. When the EC7 is not in use or clean, please remove the power cable.

Do not vigorously plug in or drag the power cable.

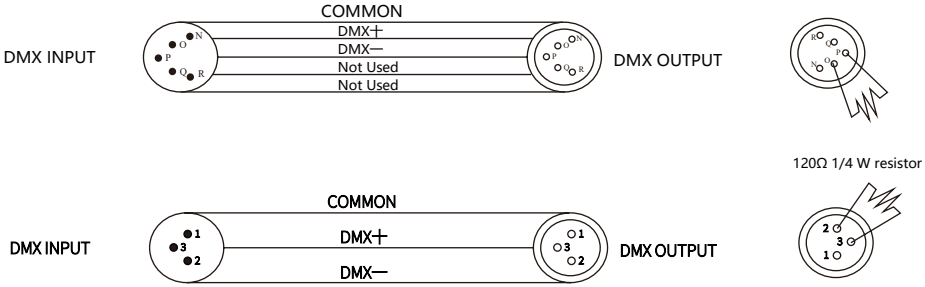
ARTNET CONNECTION



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				
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	InverseSquare	
		060-063	Led Cur Correct off (Default) Led	HOLD 3S and Save
		064-067	Led Cur Correct on Led	
		068-071	Raw color channels gamma 1	
		072-075	Raw color channels gamma 1.5	
		076-079	Raw color channels gamma 2.2 (Default)	
		080-083	Color Calibration Off (Default)	
		084-087	Color Calibration Factory	
		088-091	Color Calibration Customized	
		092-095	None	
		096-099	Reverse Mapping Off (Default) Led	
		100-103	Reverse Mapping On Led	
		104-107	Pixel Disabled(Default)	
		108-111	Pixel Mode On	
		112-115	Invert Zoom Off	

6.2.2 DMX CHART

		116-119	Invert Zoom On	
		120-154	None	
		155-159	Zoom Reposition On(Default)	
		160-163	Zoom Reposition Off	
		164-167	None	
		168-171	Dimmer Fade Off	
		172-175	Dimmer Fade On	
		176-179	PWM frequency LED=600Hz	
		180-183	PWM frequency LED=1200Hz	
		184-187	PWM frequency LED=2000Hz (Default)	
		188-191	PWM frequency LED=4000Hz	
		192-195	PWM frequency LED=6000Hz	
		196-199	PWM frequency LED=25000Hz	
		200-203	Display On	
		204-207	Display Off 10s (Default)	
		208-211	Display Off 20s	
		212-215	Display Off 30s	
		216-253	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					
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	
			020-023	Fast Tilt speed (Default)	

6.2.3 DMX CHART

MAIN	9	FUNCTION	024-039	None	HOLD 3S and Save
			040-043	Linear	
			044-047	Exponential (Default)	
			048-051	Logarithmic	
			052-055	S-Curve	
			056-059	InverseSquare	
			060-063	Led Cur Correct off (Default) Led	
			064-067	Led Cur Correct on Led	
			068-071	Raw color channels gamma 1	
			072-075	Raw color channels gamma 1.5	
			076-079	Raw color channels gamma 2.2 (Default)	
			080-083	Color Calibration Off (Default)	
			084-087	Color Calibration Factory	
			088-091	Color Calibration Customized	
			092-095	None	
			096-099	Reverse Mapping Off (Default) Led	
			100-103	Reverse Mapping On Led	
			104-107	Pixel Disabled(Default)	
			108-111	Pixel Mode On	
			112-115	Invert Zoom Off	
			116-119	Invert Zoom On	
			120-154	None	
			155-159	Zoom Reposition On(Default)	
			160-163	Zoom Reposition Off	
			164-167	None	
			168-171	Dimmer Fade Off	
			172-175	Dimmer Fade On	
			176-179	PWM frequency LED=600Hz	
			180-183	PWM frequency LED=1200Hz	
			184-187	PWM frequency LED=2000Hz (Default)	
			188-191	PWM frequency LED=4000Hz	
			192-195	PWM frequency LED=6000Hz	
			196-199	PWM frequency LED=25000Hz	
			200-203	Display On	
			204-207	Display Off 10s (Default)	
			208-211	Display Off 20s	
			212-215	Display Off 30s	
			216-253	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		

6.2.4 DMX CHART

BACKGROUND	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	
	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		
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	Shape Mode 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	

6.2.5 DMX CHART

SHAPE	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		

Advanced-36					
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	
			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	InverseSquare	
			060-063	Led Cur Correct off (Default) Led	
			064-067	Led Cur Correct on Led	
			068-071	Raw color channels gamma 1	
			072-075	Raw color channels gamma 1.5	
			076-079	Raw color channels gamma 2.2 (Default)	
			080-083	Color Calibration Off (Default)	
			084-087	Color Calibration Factory	
			088-091	Color Calibration Customized	
			092-095	None	
			096-099	Reverse Mapping Off (Default) Led	
			100-103	Reverse Mapping On Led	
			104-107	Pixel Disabled(Default)	

6.2.6 DMX CHART

MAIN	9	FUNCTION	108-111	Pixel Mode On	
			112-115	Invert Zoom Off	
			116-119	Invert Zoom On	
			120-154	None	
			155-159	Zoom Reposition On(Default)	
			160-163	Zoom Reposition Off	
			164-167	None	
			168-171	Dimmer Fade Off	
			172-175	Dimmer Fade On	
			176-179	PWM frequency LED=600Hz	
			180-183	PWM frequency LED=1200Hz	
			184-187	PWM frequency LED=2000Hz (Default)	
			188-191	PWM frequency LED=4000Hz	
			192-195	PWM frequency LED=6000Hz	
			196-199	PWM frequency LED=25000Hz	
			200-203	Display On	
			204-207	Display Off 10s (Default)	
			208-211	Display Off 20s	
			212-215	Display Off 30s	
			216-253	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		

6.2.7 DMX CHART

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	Shape Mode
			006-130	Static	Normal
			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	
			131-255	Speed from slow to fast, backward	
	31	Fade/Wake	000-005	Off	
			006-130	Fade (From fast to slow)	
			131-255	Wake (From fast to slow)	
	32	Transition	000-255		
PIXELS	33	Strobe	000-003	Light OFF	Shape ModeNormal DimmerStrobe
			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	

6.2.8 DMX CHART

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

Basic Pixel-42				
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	

6.2.9 DMX CHART

13	FUNCTION	044-047	Exponential (Default)	HOLD 3S and Save
		048-051	Logarithmic	
		052-055	S-Curve	
		056-059	InverseSquare	
		060-063	Led Cur Correct off (Default) Led	
		064-067	Led Cur Correct on Led	
		068-071	Raw color channels gamma 1	
		072-075	Raw color channels gamma 1.5	
		076-079	Raw color channels gamma 2.2 (Default)	
		080-083	Color Calibration Off (Default)	
		084-087	Color Calibration Factory	
		088-091	Color Calibration Customized	
		092-095	None	
		096-099	Reverse Mapping Off (Default) Led	
		100-103	Reverse Mapping On Led	
		104-107	Pixel Disabled(Default)	
		108-111	Pixel Mode On	
		112-115	Invert Zoom Off	
		116-119	Invert Zoom On	
		120-154	None	
		155-159	Zoom Reposition On(Default)	
		160-163	Zoom Reposition Off	
		164-167	None	
		168-171	Dimmer Fade Off	
		172-175	Dimmer Fade On	
		176-179	PWM frequency LED=600Hz	
		180-183	PWM frequency LED=1200Hz	
		184-187	PWM frequency LED=2000Hz (Default)	
		188-191	PWM frequency LED=4000Hz	
		192-195	PWM frequency LED=6000Hz	
		196-199	PWM frequency LED=25000Hz	
		200-203	Display On	
		204-207	Display Off 10s (Default)	
		208-211	Display Off 20s	
		212-215	Display Off 30s	
		216-253	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		
...	...	...		
...	...	...		

6.2.10 DMX CHART

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					
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	
			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	InverseSquare	
			060-063	Led Cur Correct off (Default) Led	
			064-067	Led Cur Correct on Led	
			068-071	Raw color channels gamma 1	
			072-075	Raw color channels gamma 1.5	
			076-079	Raw color channels gamma 2.2 (Default)	
			080-083	Color Calibration Off (Default)	
			084-087	Color Calibration Factory	
			088-091	Color Calibration Customized	
			092-095	None	
			096-099	Reverse Mapping Off (Default) Led	
			100-103	Reverse Mapping On Led	
			104-107	Pixel Disabled(Default)	
			108-111	Pixel Mode On	
			112-115	Invert Zoom Off	

6.2.11 DMX CHART

MAIN	9	FUNCTION	116-119	Invert Zoom On	HOLD 3S and Save
			120-154	None	
			155-159	Zoom Reposition On(Default)	
			160-163	Zoom Reposition Off	
			164-167	None	
			168-171	Dimmer Fade Off	
			172-175	Dimmer Fade On	
			176-179	PWM frequency LED=600Hz	
			180-183	PWM frequency LED=1200Hz	
			184-187	PWM frequency LED=2000Hz (Default)	
			188-191	PWM frequency LED=4000Hz	
			192-195	PWM frequency LED=6000Hz	
			196-199	PWM frequency LED=25000Hz	
			200-203	Display On	
			204-207	Display Off 10s (Default)	
			208-211	Display Off 20s	
			212-215	Display Off 30s	
			216-253	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	
	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		

6.2.12 DMX CHART

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		Shape ModeNormal
	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		
	...	...	...		
	...	...	...		
	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		

6.2.13 DMX CHART

Advanced Pixel-64					
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	
			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	InverseSquare	
			060-063	Led Cur Correct off (Default) Led	
			064-067	Led Cur Correct on Led	
			068-071	Raw color channels gamma 1	
			072-075	Raw color channels gamma 1.5	
			076-079	Raw color channels gamma 2.2 (Default)	
			080-083	Color Calibration Off (Default)	
			084-087	Color Calibration Factory	
			088-091	Color Calibration Customized	
			092-095	None	
			096-099	Reverse Mapping Off (Default) Led	
			100-103	Reverse Mapping On Led	
			104-107	Pixel Disabled(Default)	
			108-111	Pixel Mode On	
			112-115	Invert Zoom Off	
			116-119	Invert Zoom On	
			120-154	None	
			155-159	Zoom Reposition On(Default)	
			160-163	Zoom Reposition Off	
			164-167	None	
			168-171	Dimmer Fade Off	
			172-175	Dimmer Fade On	
			176-179	PWM frequency LED=600Hz	
			180-183	PWM frequency LED=1200Hz	
			184-187	PWM frequency LED=2000Hz (Default)	
			188-191	PWM frequency LED=4000Hz	
			192-195	PWM frequency LED=6000Hz	
			196-199	PWM frequency LED=25000Hz	
			200-203	Display On	
			204-207	Display Off 10s (Default)	

6.2.14 DMX CHART

MAIN	9	FUNCTION	208-211	Display Off 20s	
			212-215	Display Off 30s	
			216-253	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		
	28	Shape Mode	000-005	Normal	
			006-130	Static	
			131-255	Dynamic	

6.2.14 DMX CHART

SHAPE	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	
			131-255	Speed from slow to fast, backward	
	31	Fade/Wake	000-005	Off	
			006-130	Fade (From fast to slow)	
			131-255	Wake (From fast to slow)	
	32	Transition	000-255		
PIXELS	33	Strobe	000-003	Light OFF	Shape ModeNormal DimmerStrobe
			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		Shape ModeNormal
	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	• 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 fxture 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 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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