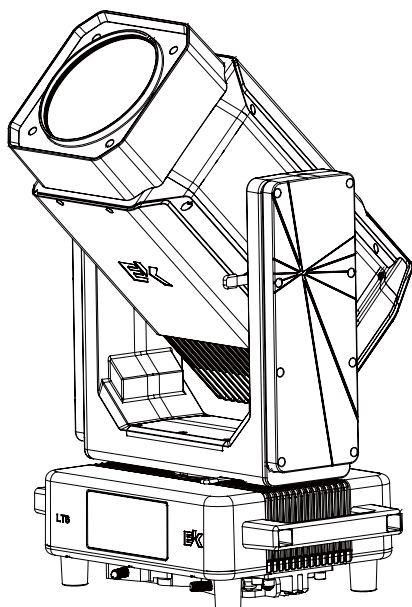




LT6

USER MANUAL

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1 Safety Information	01
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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

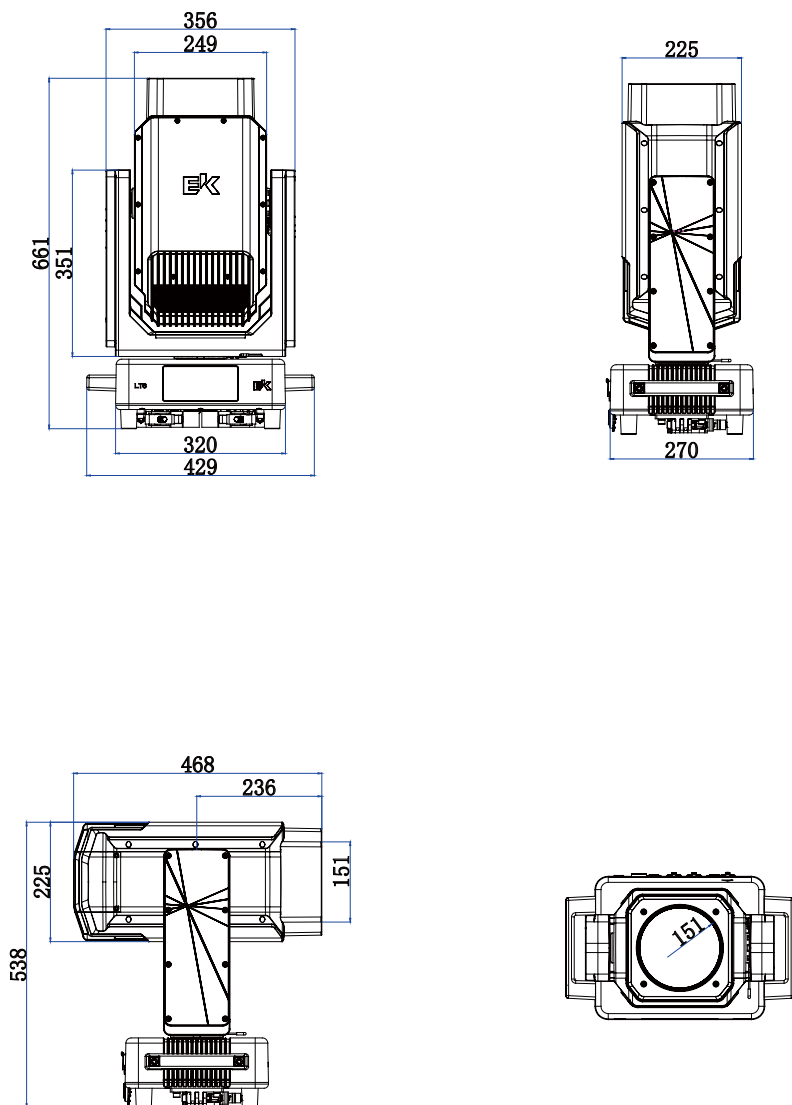
- The products referred to in this manual conform to the European Community Directives and are therefore marked with CE.
- The unit is supplied with hazardous network voltage (230V~). Service should be undertaken by skilled personnel only. Never make any modifications on the unit not described in this 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 °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.



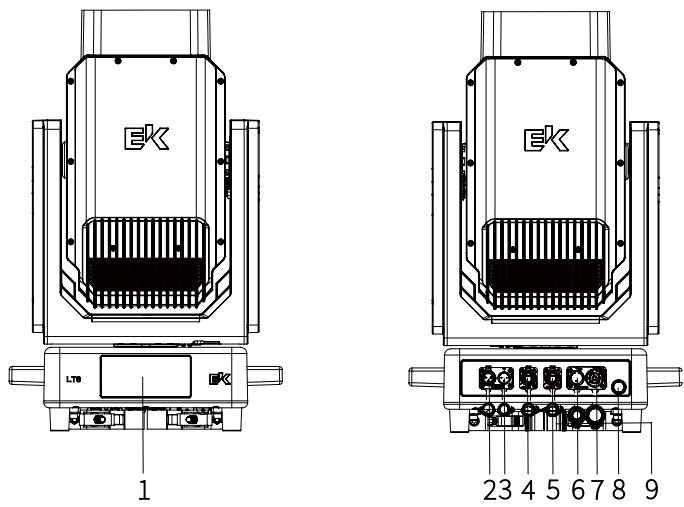
Warnings and installation precautions

- 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.

2DIMENSION



3. CONTROL



1.Control panel

2.5pin DMX In

3.5pin DMX Out

4/5. Ethernet Ports

6.Power In

7.Power Out

8.Breather valve

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

4. FIXTURE SPECIFICATION

4.1 TECHNICAL DATASHEET

LT6 datasheet	
PHOTOMETRICS	
Light Source	600W LED module
Colour Temperature	6000K-6200K
Output	ALL:28000Lm
CCI	0.1M~0.1G
CRI	>70
R9	>-25
DUV	0.004
TM-30-15rg/rf	95/67
TLCI	>40
LED Life	30000H
Beam angle	3.3° -52°
KEY FEATURES	
PAN	540°
TILT	270°
Color system	CW+CMY/CTO+Color Wheel(6+open)
Gobo System	Rotating gobo wheel (7 gobos+open)
Fixed gobo	Fixed gobo wheel (9 gobos+open)
Animation	Animation wheel with variable speed
Framing System	Single blade $\pm 35^{\circ}$, Whole rotation angle $\pm 60^{\circ}$
Focus	1° +5° 0 ~ 100% linear frost
Strobe	1~30HZ
Dimming	0~100% linear dimming,4 dimming curves,22Bit
Prism	Bi-directional adjustable-speed 4-facet+4 linear prism
POWER	
Mains	100-240V,50/60Hz
Consumption	230V@800W
Power connections	True1
Power Factor	230V@0.98
Ambient	-10 ~ 45°C
Power supply	Input voltage AC 100 ~ 240VAC (50/60HZ) 1000W
PHYSICAL	
Dimension	429*270*635mm(Omega bracket with clamp)
Weight	Fixture:29.3kg
IP Rating	IP66

TECHNICAL DATASHEET

Cooling	Heat sink cooling system with low noise fan
Housing	Magnesium alloy, matte black finish
Installation	Sit-flat floor mounting, side hanging and flown mounting
CONTROL	
Protocol	DMX512/RDM/sACN/Artnet/Bluetooth/APP/NFC
DMX channel	37CH
Data connections	5pin XLR In/Out, linking up to 32pcs
Display	240RGB*320 2.8-inch TFT display
Built-in programs	YES
Pixel Control	Whole control

4.2 COLOR SYSTEM/GOBO SYSTEM/ANIMATION SYSTEM

COLOR WHEEL

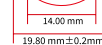
CMY



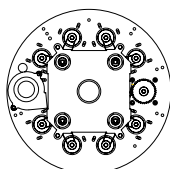
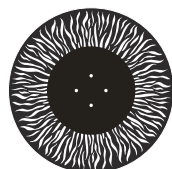
ROTATING GOBO



FIXED GOBO

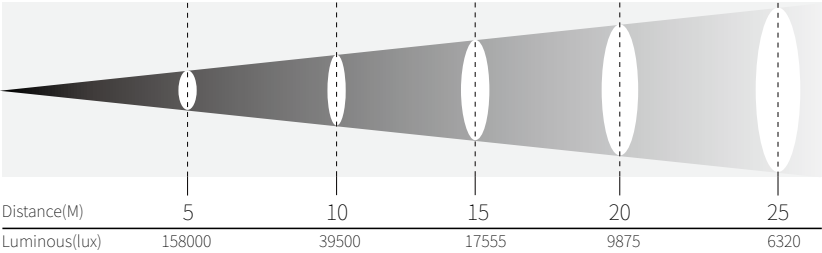


ANIMATION WHEEL FRAMING SHUTTER

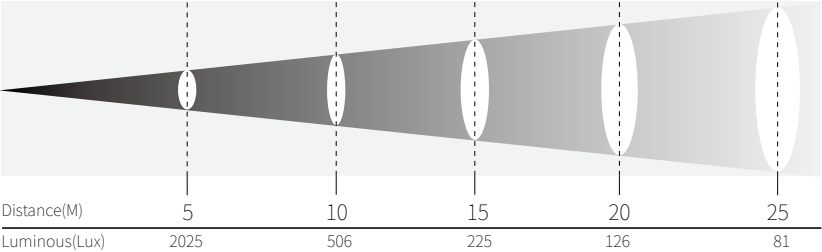


4.3 Photometrics

Beam Angle: 3.3°



Beam Angle: 52°



5 FIXTURE SETTING

5.1 MENU FUNCTION

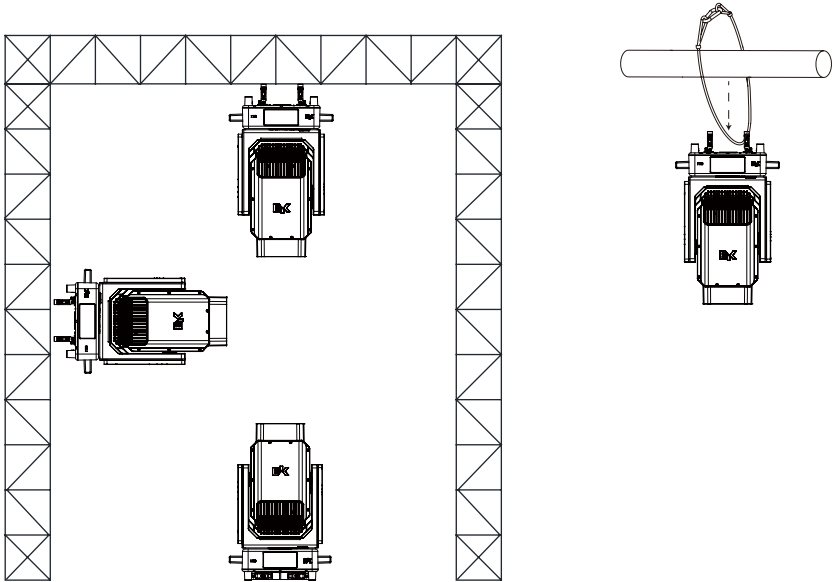
\	Main Menu	Menu level 2	Menu level 3	Menu level 4	Remark
1	DMX Setting	DMX Address	1~512		1
		DMX Channel	37CH		37CH
2	Ethernet Setting	Protocol	Artnet		Artnet
			sACN		
		IP Address	xxx.xxx.xxx.xxx		/
		IP Mask	xxx.xxx.xxx.xxx		/
		Universe	0-65535 (Artnet) 1-65535 (sACN)		0
		Net To DMX	Off On		Off
3	Settings	Movement Setting	Pan Reverse	Off On	Off
			Tilt Reverse	Off On	Off
			Encoder Pan/Tilt	Off On	On
			Swap Pan/Tilt	Off On	Off
			Absolute Encoder	Off On	On
		Dimmer Setting	Dimmer Mode	Off Dimmer 1 Dimmer 2 Dimmer 3	Off
			Dimmer Curve	Linear Square Inverse Square S Curve	Square
		LED Setting	LED Frequency	600Hz 1200 Hz 2000 Hz 4000 Hz 6000 Hz 25KHz	2000 Hz
			Fan Mode	Auto On Off Silent	Auto
		Reset Setting		All P/T Head	/
					/
		Display Setting	Back Light	Off On	Off
			Flip Display	No Yes Auto	No
			Warn Cue	Off On	On
			Key Lock	No Yes	Yes
			Temperature Unit	C F	C

5.2 MENU FUNCTION

4	TEST	Channel	According to the current channel mode		/		
					/		
		AUTO	Pan/Tilt		/		
			Head				
			All				
5	ADVANCED	Access Code	Calibration	Pan Offset	128		
				Tilt Offset	128		
				Cyan Offset	128		
				Magenta Offset	128		
				Yellow Offset	128		
				CTO Offset	128		
				Color Offset	128		
				Gobo Offset	128		
				RGobo Offset	128		
				Gobo2 Offset	128		
				4Prism Offset	128		
				4RPrism Offset	128		
				6 Prism Offset	128		
				6RPrism Offset	128		
				Effect Offset	128		
				Focus Offset	128		
				Zoom Offset	128		
				Frost1 Offset	128		
				Frost2 Offset	128		
				Iris Offset	128		
				Shutters Rot. Offset	128		
				Fr.shutter 1 M1 Offset	128		
				Fr.shutter 1 M2 Offset	128		
				Fr.shutter 2 M1 Offset	128		
				Fr.shutter 2 M2 Offset	128		
				Fr.shutter 3 M1 Offset	128		
				Fr.shutter 3 M2 Offset	128		
			Fr.shutter 4 M1 Offset	128			
			Fr.shutter 4 M2 Offset	128			
			Factory Reset	No	/		
			Yes				
			Upload Firmware	No	/		
			Yes				
			6	Information	System Errors		/
					Time	Fixture Hours	65535H
Led Hours	65535H	0					
Version	DISP-V1.0	CTR4-MOTOR-V1.0			/		
	CTR1-XY-V1.0	CTR5-MOTOR-V1.0			/		
	CTR2-MOTOR-V1.0	CTR6-MOTOR-V1.0			/		
	CTR3-MOTOR-V1.0				/		
Temperature	LED1: 40℃				/		
Humidity	25%				/		
Pressure	80kpa				/		
UID:	030F0CC*****				/		

6. INSTALLATION AND CONNECTION

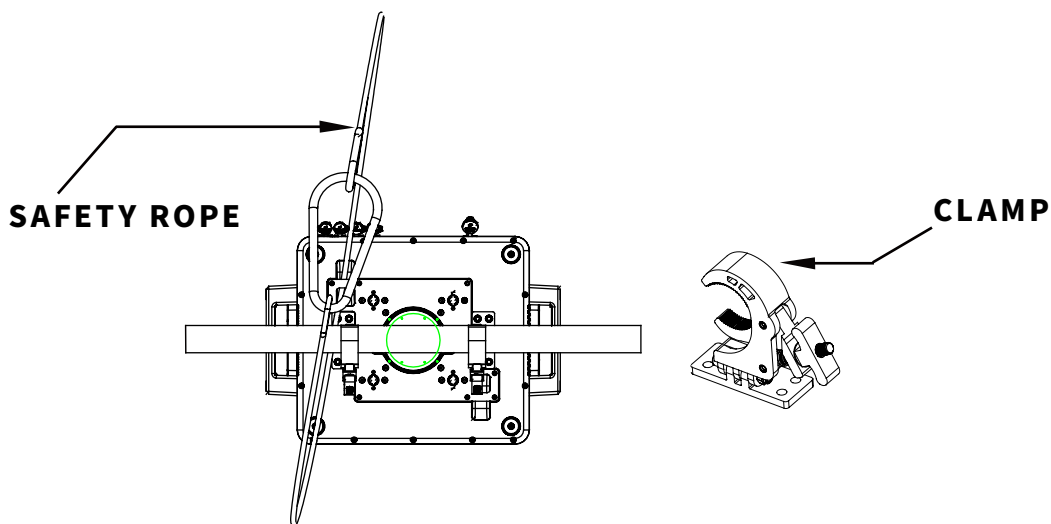
6.1.1 INSTALLATION INSTRUCTION



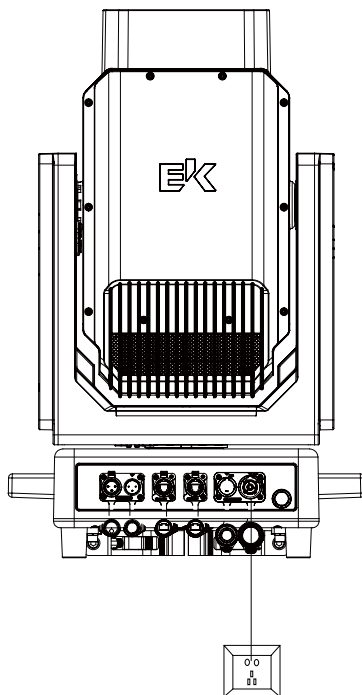
1. Professional installation required. Mount away from walkways, seating areas, or unauthorized access.
2. Never stand directly beneath the fixture during assembly, disassembly, or maintenance.
3. Ensure secure mounting to prevent vibration or slippage during operation.
4. The supporting structure must withstand 10x the fixture's weight without deformation. Always use a safety cable rated for 10x the fixture's weight to prevent falls if the clamp fails.
5. Operational in two positions: Sit-flat floor mounting and flown mounting.
6. LT6 is IP66 (indoor & Outdoor use) ,ensuring: Dustproof – Prevents significant dust ingress, so that it will not interfere with its normal operation. Water-resistant – Protects against water jets from any direction.

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.



6.2POWER CONNECTION



POWER CONNECTION INSTRUCTION



Power out



Power In

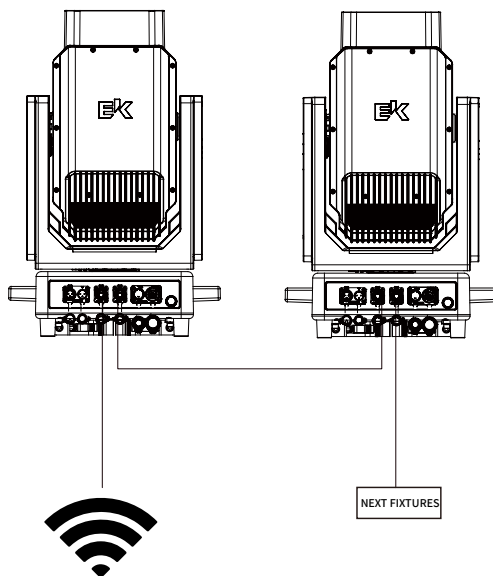
POWER CONNECTION INSTRUCTION

Notes: For power reasons,using 1.5mm² power cable can link up to 2 units(230V) maximum.

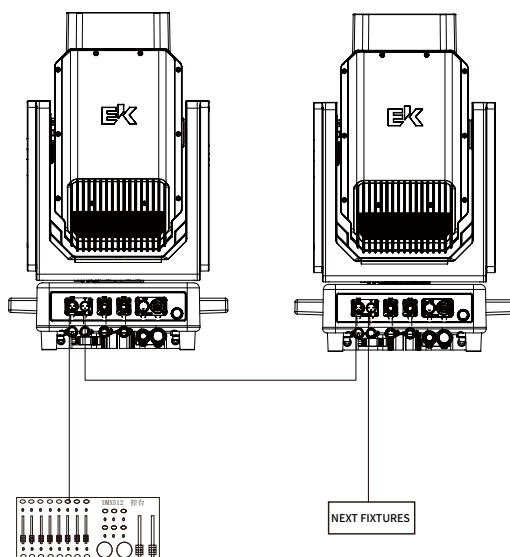


- Do not connect more than 2 units with one power cable,
- Do not use the power cable if the insulation layer has been damaged,
- Do not put the power cable on other wires. When the LT6 is not in use or clean, please remove the power cable.
- Do not vigorously plug in or drag the power cable.

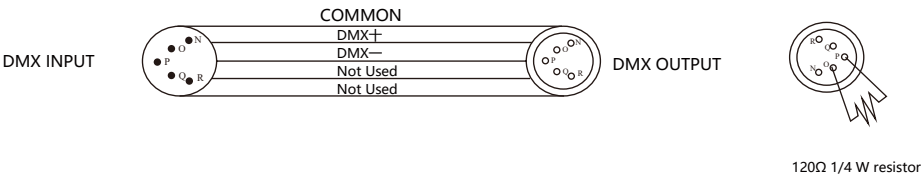
ETHERNET CONNECTION



DMX CONNECTION



DMX CONNECTION



- To minimize signal errors and prevent signal degradation/interference, connect a 120 Ω 1/4W resistor between 2 pins and 3 pins at the last fixture's DMX output.
- Use XLR cables to link fixtures - connect from the output of one fixture to the input of the next. DMX must be wired in series, not parallel.
- Signal integrity is critical due to DMX512's high speed. Damaged cables, poor solder joints, or loose connections can disrupt transmission and cause system failure.
- The DMX connection is bypassed when a unit loses power to maintain signal continuity.
- Each fixture requires a unique address to receive individual console commands.
- Always install a terminator at the end of the DMX512 chain to reduce transmission errors.

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	ADDRESS	1ST FIXTURE	2nd FIXTURE	3rd FIXTURE	4th FIXTURE
37CH	001-037	001	038	075	112

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

6.4.1 DMX CHART

37CH	Channel function	Value	Functional Description		
1	Pan	000-255			
2	Pan Fine	000-255			
3	Tilt	000-255			
4	Tilt Fine	000-255			
5	Shutter	000-010	Close		
		011-082	Shutter effect slow to fast		
		083-093	Open		
		094-163	Pulse-effect in sequences		
		164-174	Open		
		175-244	Random Shutter effect slow to fast		
		245-255	Open		
6	Dimmer	000-255	Dimmer 0%-100%		
7	Dimmer Fine	000-255	Dimmer Fine		
8	Cyan	000-255	0%-100%		
9	Magenta	000-255	0%-100%		
10	Yellow	000-255	0%-100%		
11	CTO	000-255	0%-100%		
12	Color	000-010	Open		
		011-019	Open+Color1		
		020-028	Color 1		
		029-037	Color 1 + Color 2		
		038-046	Color 2		
		047-055	Color 2 + Color 3		
		056-064	Color 3		
		065-073	Color 3 + Color 4		
		074-082	Color 4		
		083-091	Color 4 + Color 5		
		092-100	Color 5		
		101-109	Color 5 + Color 6		
		110-118	Color 6		
		119-127	Color 6 + OPEN		
		128-190	Fast to Slow(Forward Spin)		
		191-192	Stop (Stop Rotation)		
		193-255	Slow to Fast(Revers Spin)		
13	Gobo1	000-008	Open		
		009-017	Gobo1		
		018-026	Gobo2		
		027-035	Gobo3		
		036-044	Gobo4		
		045-053	Gobo5		
		054-062	Gobo6		
		063-071	Gobo7		
		072-113	Fast to Slow(Revers Spin)		
		114-117	Stop (Stop Rotation)		
		118-159	Slow to Fast(Forward Spin)		
		160-172	Gobo1 Shaking Slow to Fast		
		173-185	Gobo2 Shaking Slow to Fast		
		186-198	Gobo3 Shaking Slow to Fast		
		199-211	Gobo4 Shaking Slow to Fast		
		212-224	Gobo5 Shaking Slow to Fast		
		225-237	Gobo6 Shaking Slow to Fast		
		238-255	Gobo7 Shaking Slow to Fast		
14	RGobo1	000-127	0 - 540 Position		
		128-190	Fast to Slow(Forward Spin)		
		191-192	Stop (Stop Rotation)		
		193-255	Slow to Fast(Revers Spin)		

6.4.2 DMX CHART

37CH	Channel function	Value	Functional Description		
15	Gobo2	000-008	Open		
		009-015	Gobo1		
		016-022	Gobo2		
		023-029	Gobo3		
		030-036	Gobo4		
		037-043	Gobo5		
		044-050	Gobo6		
		051-057	Gobo7		
		058-064	Gobo8		
		065-071	Gobo9		
		072-113	Fast to Slow(Revers Spin)		
		114-117	Stop (Stop Rotation)		
		118-159	Slow to Fast(Forward Spin)		
		160-170	Gobo1 Shaking Slow to Fast		
		171-180	Gobo2 Shaking Slow to Fast		
		181-191	Gobo3 Shaking Slow to Fast		
		192-201	Gobo4 Shaking Slow to Fast		
		202-212	Gobo5 Shaking Slow to Fast		
		213-222	Gobo6 Shaking Slow to Fast		
		223-233	Gobo7 Shaking Slow to Fast		
		234-244	Gobo8 Shaking Slow to Fast		
		245-255	Gobo9 Shaking Slow to Fast		
16	4Prism	000-127	Prism Excluded		
		128-255	Prism Inserted		
17	4RPrism	000-127	0 - 540 Position		
		128-190	Fast to Slow(Forward Spin)		
		191-192	Stop (Stop Rotation)		
		193-255	Slow to Fast(Revers Spin)		
18	6Prism	000-127	Prism Excluded		
		128-255	Prism Inserted		
19	6RPrism	000-127	0 - 540 Position		
		128-190	Fast to Slow(Forward Spin)		
		191-192	Stop (Stop Rotation)		
		193-255	Slow to Fast(Revers Spin)		
20	Frost1	000-127	Frost1 0->100%	0-127	light frost
	Frost2	128-255	Frost2 0->100%	128-255	heavy frost
21	Effect	000-127	Effect Excluded		
		128-255	Effect Inserted		
22	REffect	000-003	Effect Inserted		
		004-127	Fast to Slow(Forward Spin)		
		128-132	Stop (Stop Rotation)		
		133-255	Slow to Fast(Revers Spin)		
23	Iris	000-127	Maximum to Minimum Aperture		
		128-131	Maximum Aperture		
		132-171	Slow to Fast Pulsation		
		172-211	Slow to Fast Pulsation, Fast Opening		
		212-251	Slow to Fast Pulsation, Fast Closing		
		252-255	Maximum Aperture		
24	Focus	000-255			
25	Focus Fine	000-255			
26	Zoom	000-255			
27	Zoom Fine	000-255			
28	Framing Shutter 1 movent	000-255	Movement from outward to inward		

6.4.3 DMX CHART

37CH	Channel function	Value	Functional Description		
29	Framing Shutter 1 swivelling	000-127	Swivelling from -25 degrees towards 0 degrees		
		128	0 degrees		
		129-255	Swivelling from 0 degrees to +25 degrees		
30	Framing Shutter 2 movent	000-255	Movement from outward to inward		
31	Framing Shutter 2 swivelling	000-127	Swivelling from -25 degrees towards 0 degrees		
		128	0 degrees		
		129-255	Swivelling from 0 degrees to +25 degrees		
32	Framing Shutter 3 movent	000-255	Movement from outward to inward		
33	Framing Shutter 3 swivelling	000-127	Swivelling from -25 degrees towards 0 degrees		
		128	0 degrees		
		129-255	Swivelling from 0 degrees to +25 degrees		
34	Framing Shutter 4 movent	000-255	Movement from outward to inward		
35	Framing Shutter 4 swivelling	000-127	Swivelling from -25 degrees towards 0 degrees		
		128	0 degrees		
		129-255	Swivelling from 0 degrees to +25 degrees		
36	Framing Shutters Rotation	000-127	Rotation from left to center		
		128	Center		
		129-255	Rotation from center to right		
37	Control	000-005	None		
		006-010	Dimmer Mode Off		
		011-015	Dimmer Mode 1		
		016-020	Dimmer Mode 2		
		021-025	Dimmer Mode 3		
		026-030	Dimmer curve Linear		
		031-035	Dimmer curve Exponential		
		036-040	Dimmer curve Logarithmic		
		041-045	Dimmer curve S		
		046-050	Led Frequency=600Hz		
		051-055	Led Frequency=1200Hz		
		056-060	Led Frequency=2000Hz		
		061-065	Led Frequency=4000Hz		
		066-070	Led Frequency=6000Hz		
		071-075	Led Frequency=25000Hz		
		076-080	Pan Inverse Off		
		081-085	Pan Inverse On		
		086-090	Tilt Inverse Off		
		091-095	Tilt Inverse On		
		096-100	Swap PanTilt Off		
		101-105	Swap PanTilt On		
		106-110	Auto		
		111-115	On		
		116-120	Off		
		121-125	Silent		
		126-240	Reserve		
		241-245	Head Reset		
		246-250	Pan/Tilt Reset		
		251-255	Complete Reset		

7.ERROR INFORMATION

- 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.

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



EKINC.

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

Phone: 0086 (0760) 88280099

www.eklights.com