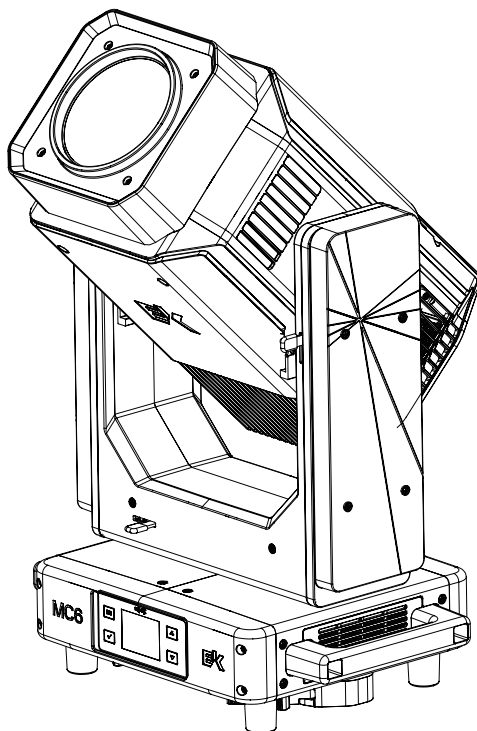




MC6

USER MANUAL

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2.DIMENSIONS.....	03
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1. SAFETY GUIDE



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



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



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



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



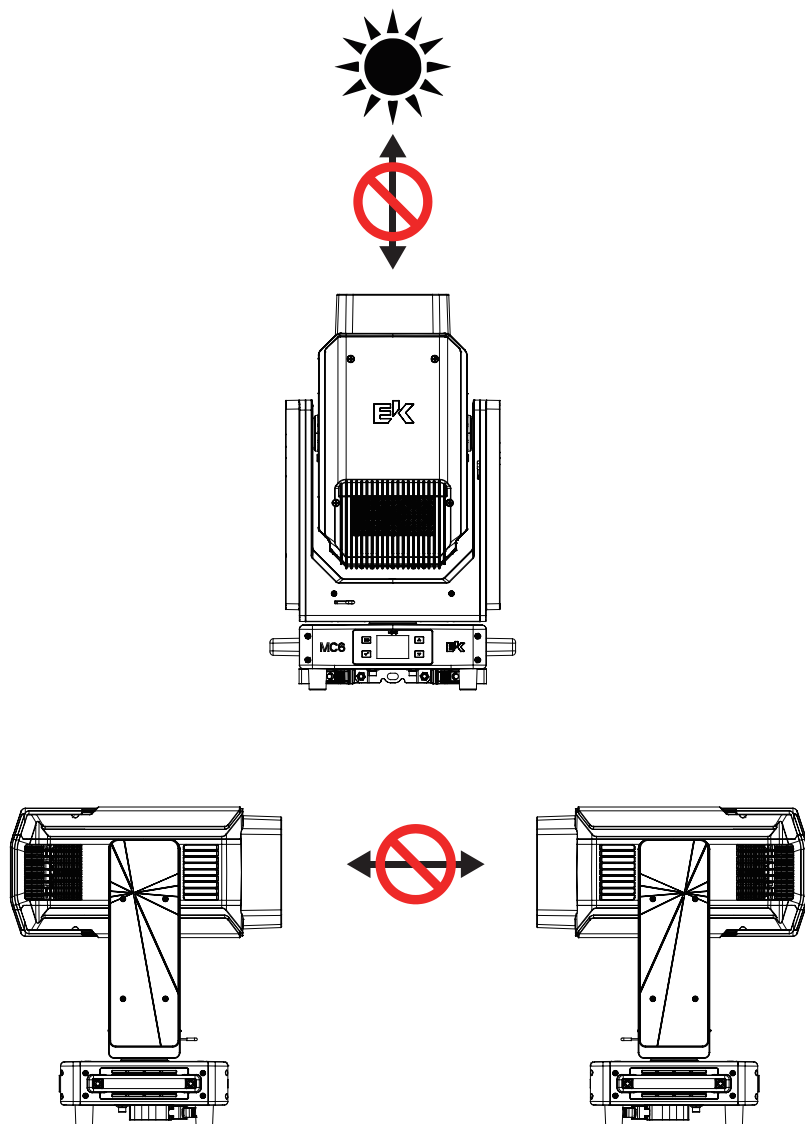
Warning: Replace any cracked protective shield.



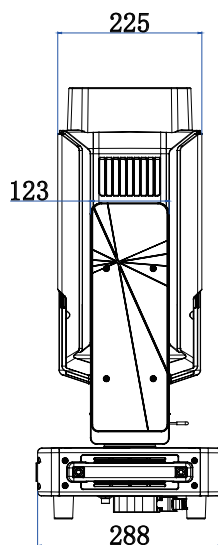
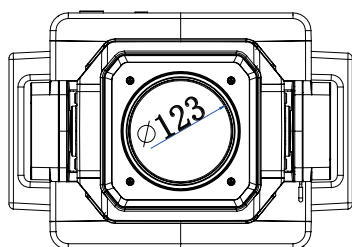
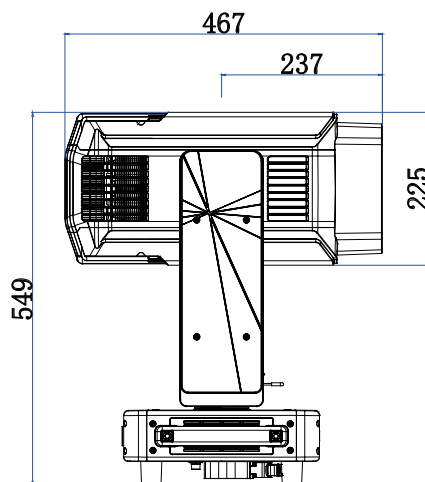
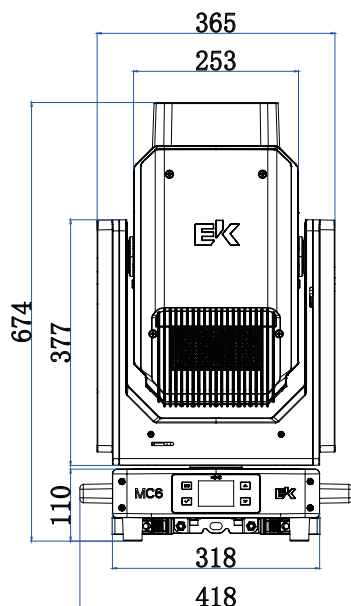
Minimum illuminated distance: 2m.

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

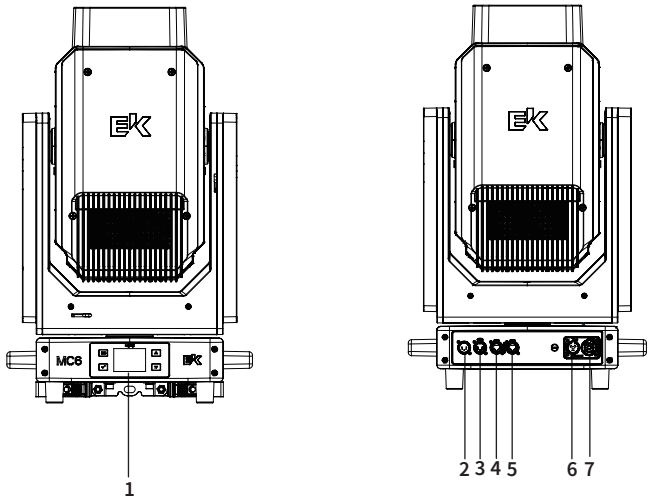
- Direct sunlight or any other strong light source that penetrates the front lens of lamp can cause serious internal damage. Do not expose the front lens of lamp to direct sunlight or any other strong light source at any angle during unpacking, installation, use, or when it is idle outdoors for an extended period of time. Do not aim beam of one lamp directly at another.



2.DIMENSIONS



3. OVERVIEW



- 1.LCD Display
- 2.DMX In
- 3.DMX Out

- 4/5.Ethernet port
- 6.Power In
- 7.Power Out

Display panel button function description

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

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

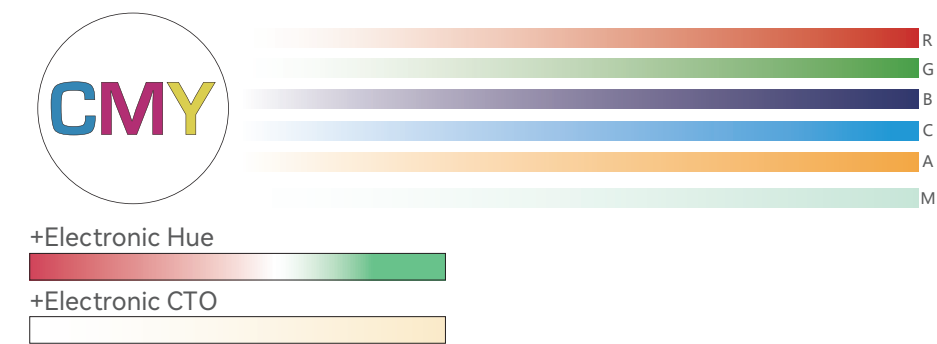
4. LITHING PARAMETERS

4.1 TECHNICAL PARAMETERS

Specification of MC6	
PHOTOMETRICS	
Light Source	650W RGBCAM Full Spectrum LED module
Color Temperature	1800~10000k
Output	14000Lm @40° (± 5%)
CCI	0-0.2G
CRI	CRI ≥ 97
R9	R9 ≥ 97
DUV	ALL:0.0024 1800K:0.0021 3200K:0.0004 5600K:0.0026 10000K:0.0112
Main wave length	R:624-628 G:523-526 B:450-452 C:485-487 A:588-592 M:552-556
TM-30-15rg/rf	ALL:103/95 1800K:93/91 3200K:102/96 5600K:101/96 10000K:101/94
TLCI	ALL: ≥ 97 1800K: ≥ 81 3200K: ≥ 95 5600K: ≥ 96 10000K: ≥ 95.1
LED life	30000H
KEY FEATURES	
Pan	540°
Tilt	270°
Beam Angle 6-51°	6-51°
Color System	RGBCAM+CMY+CTO+HUE
Gobo System	1*rotating gobo wheel (7+open) 1* fixed gobo wheel (7+open)
Animation	Animation wheel with variable speed
Framing System	4 blades, single blade ± 35° , complete framing system rotatable ± 60°
Iris	15 fins , 3.5mm~MAX eletroniz linear iris
Frost	1° +5° linear 0% – 100% frost
Prism	Indexable 4 facet prism+4 linear prism with variable speed
Strobe	1-30Hz
Dimming	Linear/Square/In-verse square/S-curve+4 dimming mode(22bit)
POWER	
Mains	100-240V,50/60Hz
Consumption	230V@783W, 100V@822W
PowerConnections	Power in/out, linking up to 2pcs
Signal Connections	DMX In/Out, linking up to 32pcs
Power Factor	230V@0.99
Ambient	-10 ~ 45°C
CONTROL	
Protocol	DMX512/RDM/ ArtNet/sACN/NFC/Bluetooth
DMX Channels	49CH/43CH/41CH
Display	2.8 inch TFT display
Frequency	1.2KHz/25KHz
PHYSICAL	
Dimension	418*288*674MM
Weight	27KG
IP rating	IP20
Cooling	Heat pipe cooling system with low noise fan

4.2 COLOR, GOBO, ANIMATION

Color



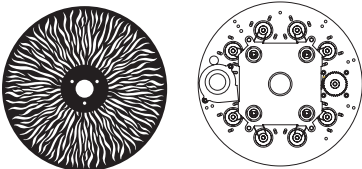
Rotating gobo



Fixed gobo



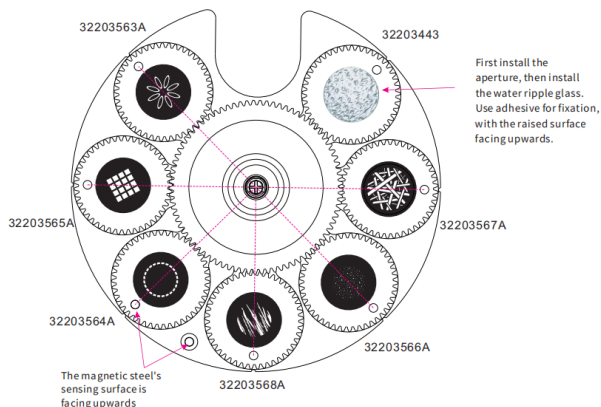
Animation Frame shutter



GOBO SYSTEM

Gobo outer diameter: 19.9mm $\pm$ 0.2mm Gobo inner diameter:16mm Thickness: 1.1mm

Gobo black side up
Gobo positioning point, gobo gear circular hole,
and rotating gobo plate substrate notch are
aligned in a straight line.

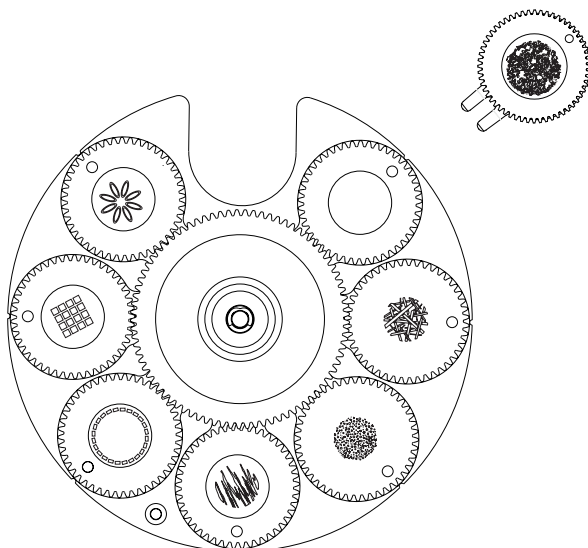


GOBO REPLACEMENT

WHEN REPLACING ROTATING GOBOS, OBSERVE THE FOLLOWING PRECAUTIONS:

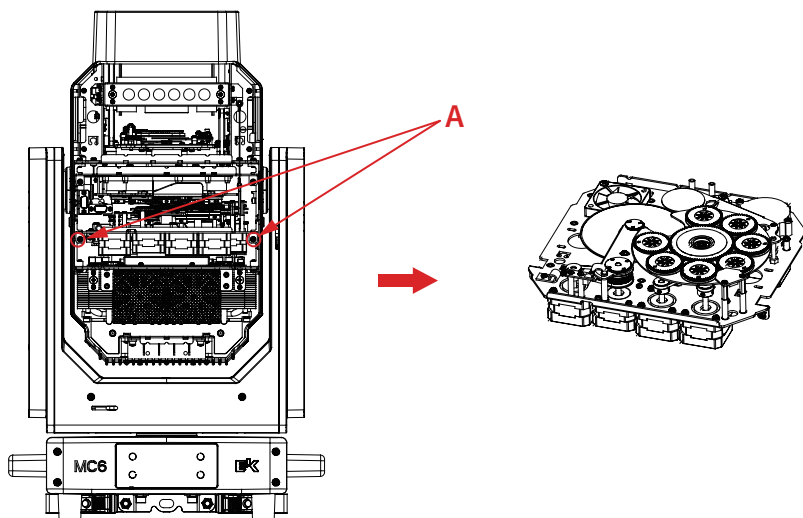
1. The original gobo has a special coating designed for high-temperature resistance. Custom gobos must use high-grade Borofloat glass or better. The size, structure, material, and quality of custom gobos must be the same as the original gobos. Damage caused by gobos that do not meet this requirement is not covered by the warranty.
2. Do not use gobos with black coating on both sides. The black coating absorbs heat from the light source or heat reflected back from other optical components, and is not durable.
3. Wear clean nitrile gloves when replacing gobos.
4. Avoid scratching the gobo.
5. Correct gobo orientation is critical. Check the position of the alignment marks on the gobo wheel and the gobo holder. Before removing the gobo holder from the gobo wheel, rotate the gobo wheel, twice if necessary, until the alignment marks are fully aligned. It is recommended to remove only one gobo holder at a time. After removing the gobo holder, do not rotate the gobo wheel. This keeps each gobo in the correct orientation and prevents the need for re-alignment if the gobo orientation changes during operation.

Rotating gobo 1



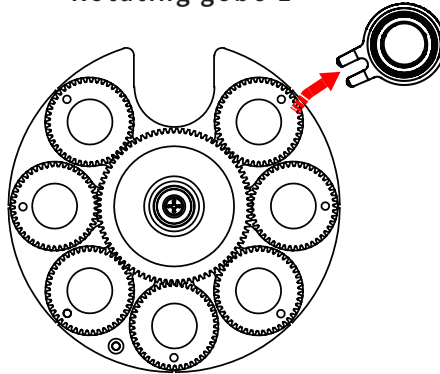
1. GOBO WHEEL

- a. Remove the two screws at position A, unplug the power and signal adapter cables, and pull out the gobo assembly.



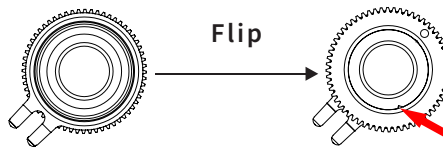
b. When pulling the gobo holder out of the gobo wheel, note how the tab of the gobo holder engages with the gobo wheel. When reinstalling the gobo holder, make sure the tab is inserted back into the same position on the gobo wheel.

Rotating gobo 1



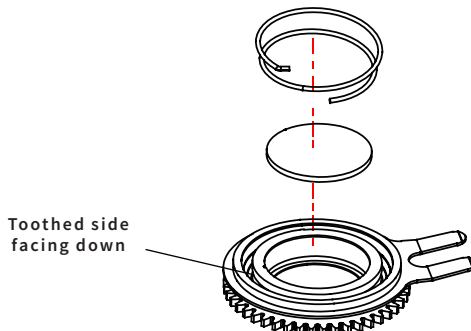
c. Use tweezers or another small gripping tool to remove the retaining spring at position C. If the gobo is fixed with glass adhesive, use a professional cleaner to remove the adhesive before removing the retaining spring to avoid damaging the gobo.

Rotating gobo 1 Gobo fixing seat

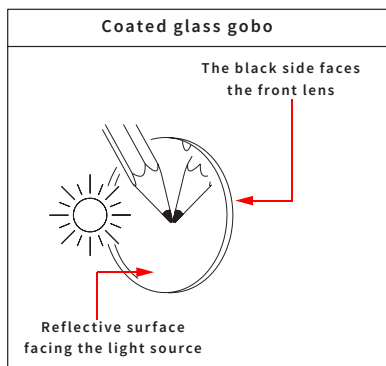
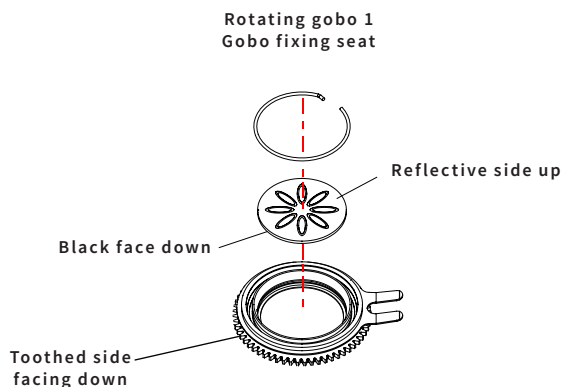


For rotating gobo wheel 1, place the toothed side of the gobo holder downward. For rotating gobo wheel 2, place the toothed side of the gobo holder upward. Use a suitable tool, such as a plastic pry tool, to carefully remove the gobo retaining spring, then remove the original gobo.

Rotating gobo 1 Gobo fixing seat



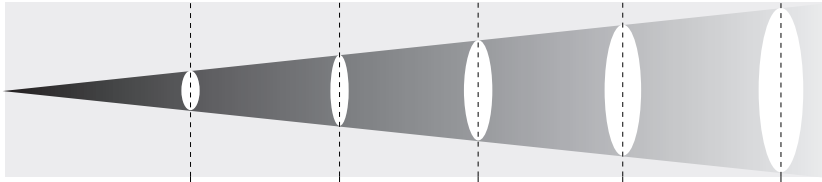
Hold the new gobo by its edge. Do not leave fingerprints on the gobo. Place it into the gobo holder. Make sure the alignment marks on the gobo and gobo holder are aligned, with the black side facing downward. Check that the gobo is fully seated in the gobo holder.



1. When reinstalling the gobo retaining spring, check that the spring presses as flat as possible against the gobo and that the gobo is securely fixed in the gobo holder.
2. Align the marks on the gobo holder and the gobo wheel. Insert the tab correctly into the gobo wheel when installing the gobo holder. After installation, check that the gobo holder is firmly fixed on the gobo wheel.

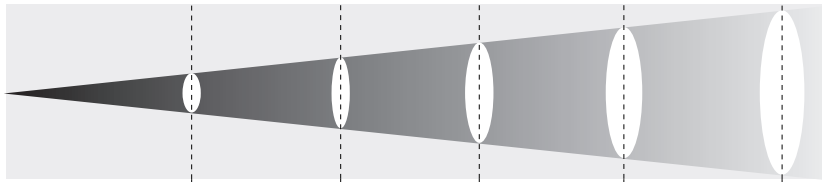
4.3 PHOTOMETRICS

Cold Status 50% Beam Angle: 6°



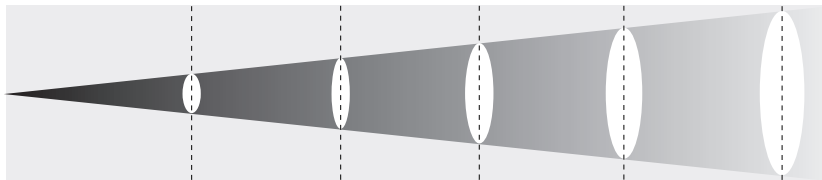
Distance(M)	5	10	15	20	25
Diameter (cm)	52.6	105.2	158	210.4	263
All (Lux)	46700	11675	5189	2919	1868

Cold Status 10% Beam Angle: 50.3°



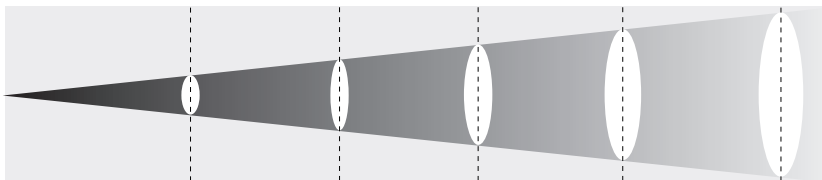
Distance(M)	5	10	15	20	25
Diameter (cm)	469.6	939.2	1408.8	1878.4	2348
All (Lux)	964	241	107	60	39

Stabilized Status 50% Beam Angle: 6°



Distance(M)	5	10	15	20	25
Diameter (cm)	52.6	105.2	158	210.4	263
All (Lux)	46100	11525	5122	2881	1844

Stabilized Status 10% Beam Angle: 50.3°



Distance(M)	5	10	15	20	25
Diameter (cm)	469.6	939.2	1408.8	1878.4	2348
All (Lux)	865	216.25	96	54	35

5. LIGHTING SETTINGS

5.1 Menu

\	Main Menu	Menu Level 2	Menu Level 3	Menu Level 4	Default
1	DMX Setting	DMX Address	1~512		1
		DMX Channel	49CH-RGBCAM		49CH-RGBCAM
			43CH-CMY		
			41CH-XY		
3	Ethernet Setting	Protocol	Artnet		Artnet
			sACN		
		IP Address	xxx.xxx.xxx.xxx		/
		IP Mask	xxx.xxx.xxx.xxx		/
		Universe	0-65535 (Artnet)		0
			1-65535 (sACN)		
4	Settings	Net To DMX	Off		Off
			On		
		Movement Setting	Pan Reverse	Off	Off
				On	
			Tilt Reverse	Off	Off
				On	
			Swap Pan /Tilt	Off	Off
				On	
			Encoder Pan/Tilt	Off	On
				On	
			Absolute Encoder	Off	Off
				On	
		Framing Shutter Mode	Independent Mode		Mixed Mode
			Mixed Mode		
		Frost Mode	Independent Mode		Mixed Mode
			Mixed Mode		
		Dimmer Setting	Dimmer Mode	Dimmer Auto	Dimmer Auto
				Off	
				Dimmer 1	
				Dimmer 2	
			Dimmer Curve	Dimmer 3	Linear
				Linear	
				Square	
				Inverse Square	
		Led Setting	Led Frequency	S Curve	1200 Hz
				1200 Hz	
			Red Shift	25KHz	Off
				Off	
		Fan Mode	Auto	On	Auto
				Off	
				Silent	
				Auto	
		Reset Setting	All		/
			P/T		/
			Head		/
		Display Setting	Back Light	Off	Off
				On	
			Flip Display	No	Auto
				Yes	
				Auto	
			Warn Cue	Off	On
				On	
			Key Lock	No	Yes
				Yes	
		Temperature Unit	°C	°C	°C
				°F	
		SunSafe	On		On (head down within 10S if no signal)
			Off		

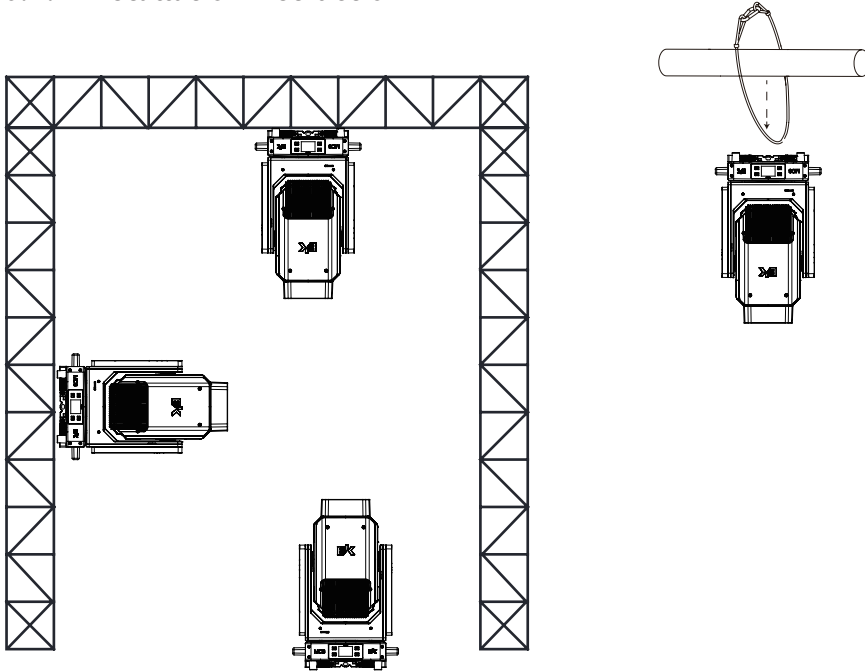
5.2 Menu

5	TEST	Channel	Arrange according to the current channel mode		/
					/
					/
		AUTO	Pan/Tilt		
			Head		
			All		
6	ADVANCED	Code:xxx	Color Calibration	Off	Off
				Factory Calibration	
			Calibration	Pan Offset	128
				Tilt Offset	128
				Gobo1 Offset	128
				RGobo1 Offset	128
				Static Gobo Offset	128
				Effect 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
				Prism1 Offset	128
				RPrism1 Offset	128
				Prism2 Offset	128
				RPrism2 Offset	128
				Focus Offset	128
				Zoom Offset	128
				Frost1 Offset	128
				Frost2 Offset	128
7	Information	System Errors	Factory Reset	No	/
				Yes	
		Time	Fixture Hours	65535H	0
			Led Hours	65535H	0
		Version	DISP-V1.0		/
			CTR1-XY-V1.0		/
			CTR2-MOTOR-V1.0		
			CTR3-MOTOR-V1.0		
			CTR4-MOTOR-V1.0		
			CTR5-LED-V1.0		
			Bluetooth-V1.0		
			Calibration IC		/
		DMX Monitor	Arrange according to the current channel mode		
		Temperature	LED: xx°C		/
		UID:	0x030F0D0*****		/

6. INSTALLATION

6.1 INSTALLATION INSTRUCTIONS AND PRECAUTIONS

6.1.1 Installation instruction



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

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

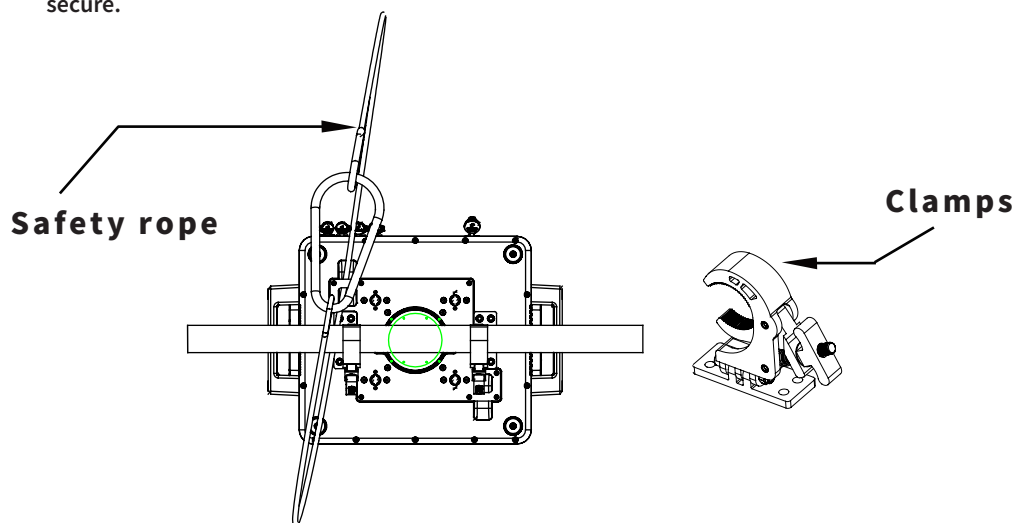
The equipment must be installed by professionals. It must be installed outside walkways and seating areas, or away from any area where unauthorized persons can touch the fixture by hand. Do not stand directly under the fixture during installation, removal, or maintenance.

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

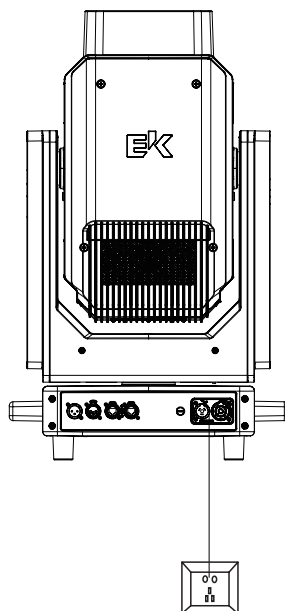
This fixture can be fully operated in three installation positions: upside-down hanging, placement on a flat horizontal surface, or side mounting. Always install and use a safety cable for protection to prevent accidental damage or personal injury if the clamp fails.

Hanging Installation

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



6.2 POWER CONNECTION



POWER CONNECTION INSTRUCTIONS



Power In

This product uses a Powercon in single connection power cord

Note: Due to power reasons, a 2.5mm² power cord can only support up to 2 units (230V)



Warning

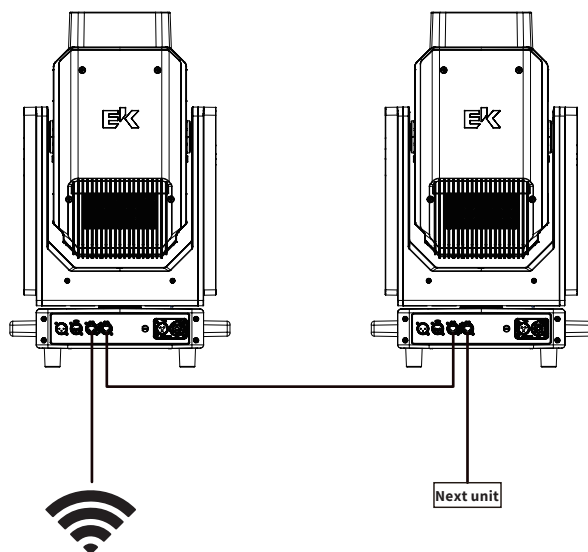
Do not connect too many fixtures to one power cable or overload the cable. Do not use a power cable with damaged insulation. Do not place the power cable on other cables.

Disconnect the power cable when the fixture is not in use or before cleaning.

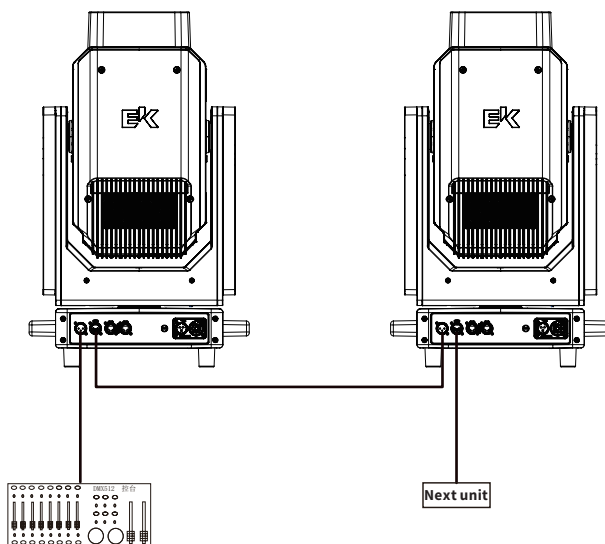
Do not pull hard on the plug or drag the power cable.

6.3 SIGNAL CONNECTION

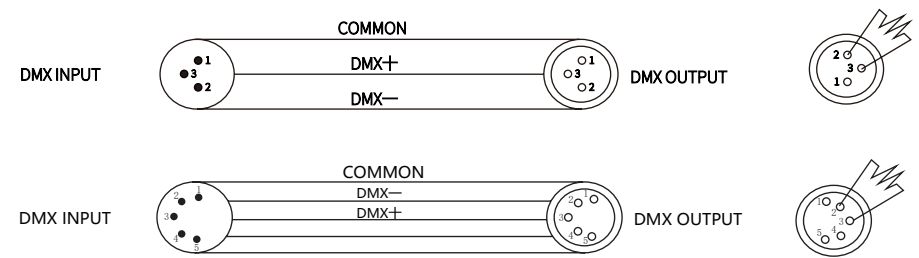
Ethernet Connection



DMX Connection



DMX CONNECTION INSTRUCTIONS



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

DMX ADDRESS CODE SETTING

MODE	Allocation	Address of 1st fixture	Address of 2st fixture	Address of 3st fixture	Address of 4st fixture
49CH	001-049	001	050	099	148

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

6.4.DMX CHART

49CH RGB CAM	43CH CMY	41CH XY	Function	Value	Description	Remarks
1	1	1	Pan	000-255		
2	2	2	Pan Fine	000-255		
3	3	3	Tilt	000-255		
4	4	4	Tilt Fine	000-255		
5 5	5	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	6	6	Dimmer	000-255	Dimmer 0%-100%	
7	7	7	Dimmer Fine	000-255	Dimmer Fine	
8	8	8	CTO	000-000	1800K	
				001-003	1800K - 1900K	
				004-006	1900K - 2000K	
				007-009	2000K - 2100K	
				010-012	2100K - 2200K	
				013-015	2200K - 2300K	
				016-018	2300K - 2400K	
				019-021	2400K - 2500K	
				022-024	2500K - 2600K	
				025-027	2600K - 2700K	
				028-030	2700K - 2800K	
				031-033	2800K - 2900K	
				034-036	2900K - 3000K	
				037-039	3000K - 3100K	
				040-042	3100K - 3200K	
				043-045	3200K - 3300K	
				046-048	3300K - 3400K	
				049-051	3400K - 3500K	
				052-054	3500K - 3600K	
				055-057	3600K - 3700K	
				058-060	3700K - 3800K	
				061-063	3800K - 3900K	
				064-066	3900K - 4000K	
				067-069	4000K - 4100K	
				070-072	4100K - 4200K	
				073-075	4200K - 4300K	
				076-078	4300K - 4400K	
				079-081	4400K - 4500K	
				082-084	4500K - 4600K	
				085-087	4600K - 4700K	
				088-090	4700K - 4800K	
				091-093	4800K - 4900K	
				094-096	4900K - 5000K	
				097-099	5000K - 5100K	
				100-102	5100K - 5200K	
				103-105	5200K - 5300K	
				106-108	5300K - 5400K	
				109-111	5400K - 5500K	
				112-114	5500K - 5600K	
				115-117	5600K - 5700K	
				118-120	5700K - 5800K	
				121-123	5800K - 5900K	
				124-127	5900K - 6000K	
				128-144	6000K - 6500K	
				145-160	6500K - 7000K	
				161-176	7000K - 7500K	
				177-192	7500K - 8000K	
				193-208	8000K - 8500K	
				209-224	8500K - 9000K	
				225-240	9000K - 9500K	
				241-255	9500K - 10000K	

6.4.2 DMX Chart

9	9	9	Tint	000-127 128-128 129-255	Red Shift Off Green Shift	
10	10	10	CCT CrossFade to Color	000-255		
11	/	/	Red	000-255		
12	/	/	Red Fine	000-255		
13	/	/	Green	000-255		
14	/	/	Green Fine	000-255		
15	/	/	Blue	000-255		
16	/	/	Blue Fine	000-255		
17	/	/	Cyan	000-255		
18	/	/	Cyan Fine	000-255		
19	/	/	Amber	000-255		
20	/	/	Amber Fine	000-255		
21	/	/	Mint	000-255		
22	/	/	Mint Fine	000-255		
/	11	/	Cyan			
/	12	/	Cyan Fine			
/	13	/	Magenta			
/	14	/	Magenta Fine			
/	15	/	Yellow			
/	16	/	Yellow Fine			
/	/	11	X			
/	/	12	X Fine			
/	/	13	Y			
/	/	14	Y Fine			
23	17	15	Rotating Gobo Wheel	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)	
				160-174	Gobo1 Shaking Slow to Fast	
				175-187	Gobo2 Shaking Slow to Fast	
				188-201	Gobo3 Shaking Slow to Fast	
				202-214	Gobo4 Shaking Slow to Fast	
				215-228	Gobo5 Shaking Slow to Fast	
24	18	16	Gobo Rotation	229-241	Gobo6 Shaking Slow to Fast	
				242-255	Gobo7 Shaking Slow to Fast	
				000-127	0 - 540 Position	
				128-190	Fast to Slow(Forward Spin)	
25	19	17	Static Gobo	191-192	Stop (Stop Rotation)	
				193-255	Slow to Fast(Revers Spin)	
				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)	
				160-174	Gobo1 Shaking Slow to Fast	
				175-187	Gobo2 Shaking Slow to Fast	
				188-201	Gobo3 Shaking Slow to Fast	
				202-214	Gobo4 Shaking Slow to Fast	
				215-228	Gobo5 Shaking Slow to Fast	
				229-241	Gobo6 Shaking Slow to Fast	
				242-255	Gobo7 Shaking Slow to Fast	

6.4.3 DMX Chart

26	20	18	Prism1	000-127 128-255	Prism1 Excluded Prism1 Inserted	
27	21	19	RPrism1	000-127 128-190 191-192 193-255	0 - 540 Position Fast to Slow(Forward Spin) Stop Rotation Slow to Fast(Revers Spin)	
28	22	20	Prism2	000-127 128-255	Prism2 Excluded Prism2 Inserted	
29	23	21	RPrism2	000-127 128-190 191-192 193-255	0 - 540 Position Fast to Slow(Forward Spin) Stop Rotation Slow to Fast(Revers Spin)	
30	24	22	Frost 1/2 Frost 1	000-255 000-255	Frost 0->100% Frost 0->100%	Mixed Mode
31	25	23	Frost 2	000-255	Frost 0->100%	Independent Mode
32	26	24	Effect	000-255 000-003	Effect Inserted 0%-100% Effect Inserted	
33	27	25	REffect	004-127 128-132 133-255	Fast to Slow(Forward Spin) Stop (Stop Rotation) Slow to Fast(Revers Spin)	
34	28	26	Iris	000-127 128-131 132-171 172-211 212-251 252-255	Maximum to Minimum Aperture Maximum Aperture Slow to Fast Pulsation Slow to Fast Pulsation, Fast Opening Slow to Fast Pulsation, Fast Closing Maximum Aperture	
35	29	27	Focus	000-255		
36	30	28	Focus Fine	000-255		
37	31	29	Zoom	000-255		
38	32	30	Zoom Fine	000-255		
39	33	31	Auto Focus	000-010 011-020 021-030 031-040 041-050 051-060 061-070 071-080 081-090 091-100 101-110 111-120 121-130 131-140 141-150 151-160 161-170 171-180 181-190 191-200 201-210 211-220 221-230 231-240 241-250 251-255	Auto Focus OFF 4 metres 6 metres 8 metres 10 metres 12 metres 14 metres 16 metres 18 metres 4 metres 6 metres 8 metres 10 metres 12 metres 14 metres 16 metres 18 metres 4 metres 6 metres 8 metres 10 metres 12 metres 14 metres 16 metres 18 metres Auto Focus OFF	Hole RGobo1 RGobo2
40	34	32	Framing Shutter 1 movent Framing Shutter 1_1 movent	000-255 000-255	Movement from outward to inward Movement from outward to inward	Framing Shutter Mixed Mode Framing Shutter Independent Mode
41	35	33	Framing Shutter 1 swivelling Framing Shutter 1_2 movent	000-127 128 129-255 000-255	Swivelling from -25 degrees towards 0 degrees 0 degrees Swivelling from 0 degrees to +25 degrees Movement from outward to inward	Framing Shutter Mixed Mode Framing Shutter Independent Mode
42	36	34	Framing Shutter 2 movent Framing Shutter 2_1 movent	000-255 000-255	Movement from outward to inward Movement from outward to inward	Framing Shutter Mixed Mode Framing Shutter Independent Mode

6.4.4 DMX Chart

43	37	35	Framing Shutter 2 swivelling	000-127	Swivelling from -25 degrees towards 0 degrees	Framing Shutter Mixed Mode
				128	0 degrees	
				129-255	Swivelling from 0 degrees to +25 degrees	
			Framing Shutter 2_2 movent	000-255	Movement from outward to inward	Framing Shutter Independent Mode
44	38	36	Framing Shutter 3 movent	000-255	Movement from outward to inward	Framing Shutter Mixed Mode
			Framing Shutter 3_1 movent	000-255	Movement from outward to inward	Framing Shutter Independent Mode
45	39	37	Framing Shutter 3 swivelling	000-127	Swivelling from -25 degrees towards 0 degrees	Framing Shutter Mixed Mode
				128	0 degrees	
				129-255	Swivelling from 0 degrees to +25 degrees	
			Framing Shutter 3_2 movent	000-255	Movement from outward to inward	Framing Shutter Independent Mode
46	40	38	Framing Shutter 4 movent	000-255	Movement from outward to inward	Framing Shutter Mixed Mode
			Framing Shutter 4_1 movent	000-255	Movement from outward to inward	Framing Shutter Independent Mode
47	41	39	Framing Shutter 4 swivelling	000-127	Swivelling from -25 degrees towards 0 degrees	Framing Shutter Mixed Mode
				128	0 degrees	
				129-255	Swivelling from 0 degrees to +25 degrees	
			Framing Shutter 4_2 movent	000-255	Movement from outward to inward	Framing Shutter Independent Mode
48	42	40	Framing Shutters Rotation	000-127	Rotation from left to center	
				128	Center	
				129-255	Rotation from center to right	
49	43	41	Control(Hold 3 Second)	000-005	None	
				006-010	Dimmer Auto	
				011-015	Dimmer Mode Off	
				016-020	Dimmer Mode 1	
				021-025	Dimmer Mode 2	
				026-030	Dimmer Mode 3	
				031-035	Dimmer curve Linear	
				036-040	Dimmer curve Exponential	
				041-045	Dimmer curve Logarithmic	
				046-050	Dimmer curve S	
				051-055	Reserve	
				056-060	Led Frequency=1200Hz	
				061-065	Reserve	
				066-070	Reserve	
				071-075	Reserve	
				076-080	Led Frequency=25000Hz	
				081-085	Pan Inverse Off	
				086-090	Pan Inverse On	
				091-095	Tilt Inverse Off	
				096-100	Tilt Inverse On	
				101-105	Swap PanTilt Off	
				106-110	Swap Pan Tilt On	
				111-115	Auto	
				116-120	On	
				121-125	Off	
				126-130	Silent	
				131-135	Color Calibration Off	
				136-140	Factory Calibration	
				141-150	Reserve	
				151-155	Reserve	
				156-160	Red Shift Off	
				161-165	Red Shift On	
				166-170	Framing Shutter Independent Mode	
				171-175	Framing Shutter Mixed Mode	
				176-180	Frost Independent Mode	
				181-185	Frost Mixed Mode	
				186-240	Reserve	
				241-245	Head Reset	
				246-250	Pan/Tilt Reset	
				251-255	Complete Reset	

7.TROUBLESHOOTING

No.	Fault Symptom	Common Cause	Solution
1	Fixture does not power on	1. Fuse blown 2. No voltage input or output from power supply 3. POWERCON power socket damaged	1. Replace with a fuse of the same specification 2. Replace the power supply 3. Replace the power socket
2	Head shaking, position loss, P/T axis reset error	1. P/T axis belt loose 2. Motor fault 3. Hall sensor/encoder damaged 4. P/T axis driver board damaged 5. Poor contact or disconnection of plug leads between the P/T axis Hall sensor, encoder, and PCB	1. Adjust the P/T axis belt tension 2. Replace the P/T axis motor 3. Replace the Hall sensor/encoder 4. Replace the P/T axis driver board 5. Repair or replace the plug leads
3	No DMX signal / not controlled	1. DMX signal port damaged 2. Main board abnormal 3. DMX signal cable fault 4. Fixture DMX address does not match the console address setting	1. Replace the DMX signal port 2. Replace the main board 3. Replace the signal cable 4. Check or reset the address code
4	Beam offset, out of focus, insufficient brightness	1. Optical assembly loose 2. Lamp not installed in place 3. Lens dirty	1. Tighten the optical parts 2. Recalibrate lamp concentricity 3. Clean the optical parts
5	Equipment overheating / automatic protection	1. Fan damaged 2. Air vent blocked 3. Driver board abnormal	1. Replace the fan 2. Clear the air vent 3. Replace the driver board
6	Light source not on / lamp ignition failure (Lamp, ballast, switching power supply: measurement by non-professionals is prohibited)	1. Lamp damaged 2. Lamp igniter fault 3. No voltage output from power supply 4. LED driver board abnormal	1. Replace with an original lamp 2. Replace the lamp igniter 3. Replace the power supply 4. Replace the LED driver board
7	CMY/CTO reset error	1. Positioning magnet on CMY/CTO color wheel detached or damaged 2. CMY/CTO color wheel Hall sensor abnormal 3. CMY/CTO color wheel belt loose 4. CMY/CTO color wheel motor abnormal 5. CMY/CTO color wheel PCB abnormal 6. Poor contact or disconnection of plug leads between the CMY/CTO color wheel Hall sensor and PCB	1. Replace the positioning magnet 2. Replace the Hall sensor 3. Adjust belt tension 4. Replace the motor 5. Replace the PCB 6. Repair or replace the plug leads
8	Color wheel / gobo wheel reset error	1. Positioning magnet on color wheel/gobo wheel detached or damaged 2. Color wheel/gobo wheel Hall sensor abnormal 3. Color wheel/gobo wheel belt loose 4. Color wheel/gobo wheel motor abnormal 5. Color wheel/gobo wheel PCB abnormal 6. Poor contact or disconnection of plug leads between the color wheel/gobo wheel Hall sensor and PCB	1. Replace the positioning magnet 2. Replace the Hall sensor 3. Adjust belt tension 4. Replace the motor 5. Replace the PCB 6. Repair or replace the plug leads
9	Framing reset error	1. Positioning magnet on framing wheel detached or damaged 2. Framing wheel Hall sensor abnormal 3. Framing wheel belt loose 4. Framing wheel motor abnormal 5. Framing wheel PCB abnormal 6. Poor contact or disconnection of plug leads between the framing wheel motor and PCB	1. Replace the positioning magnet 2. Replace the Hall sensor 3. Adjust belt tension 4. Replace the motor 5. Replace the PCB 6. Repair or replace the plug leads
10	Focus / zoom reset error	1. Positioning magnet for focus/zoom detached or damaged 2. Focus/zoom Hall sensor abnormal 3. Focus/zoom belt loose 4. Focus/zoom motor abnormal 5. Focus/zoom PCB abnormal 6. Poor contact or disconnection of plug leads between the focus/zoom motor and PCB	1. Replace the positioning magnet 2. Replace the Hall sensor 3. Adjust belt tension 4. Replace the motor 5. Replace the PCB 6. Repair or replace the plug leads
11	Prism reset error	1. Positioning magnet on prism detached or damaged 2. Prism Hall sensor abnormal 3. Prism belt loose 4. Prism motor abnormal 5. Prism PCB abnormal 6. Poor contact or disconnection of plug leads between the prism motor and PCB	1. Replace the positioning magnet 2. Replace the Hall sensor 3. Adjust belt tension 4. Replace the motor 5. Replace the PCB 6. Repair or replace the plug leads
12	Effect wheel reset error	1. Positioning magnet on effect wheel detached or damaged 2. Effect wheel Hall sensor abnormal 3. Effect wheel belt loose 4. Effect wheel motor abnormal 5. Effect wheel PCB abnormal 6. Poor contact or disconnection of plug leads between the effect wheel motor and PCB	1. Replace the positioning magnet 2. Replace the Hall sensor 3. Adjust belt tension 4. Replace the motor 5. Replace the PCB 6. Repair or replace the plug leads

8. MAINTENANCE AND CLEANING

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

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

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

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

OBSERVE THE FOLLOWING POINTS WHEN CLEANING THE FIXTURE:

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

CLEANING PROCEDURE



Warning

DISCONNECT THE POWER BEFORE OPENING ANY COVER.

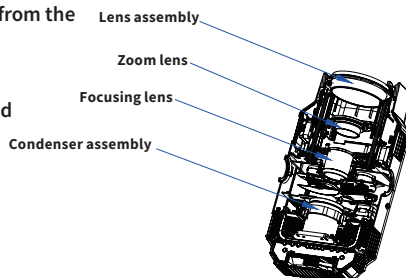
Wipe optical parts gently to avoid scratching the coated surface. Do not use destructive solvents, as they may damage plastic or coated surfaces.

CLEANING OPTICAL COMPONENTS:

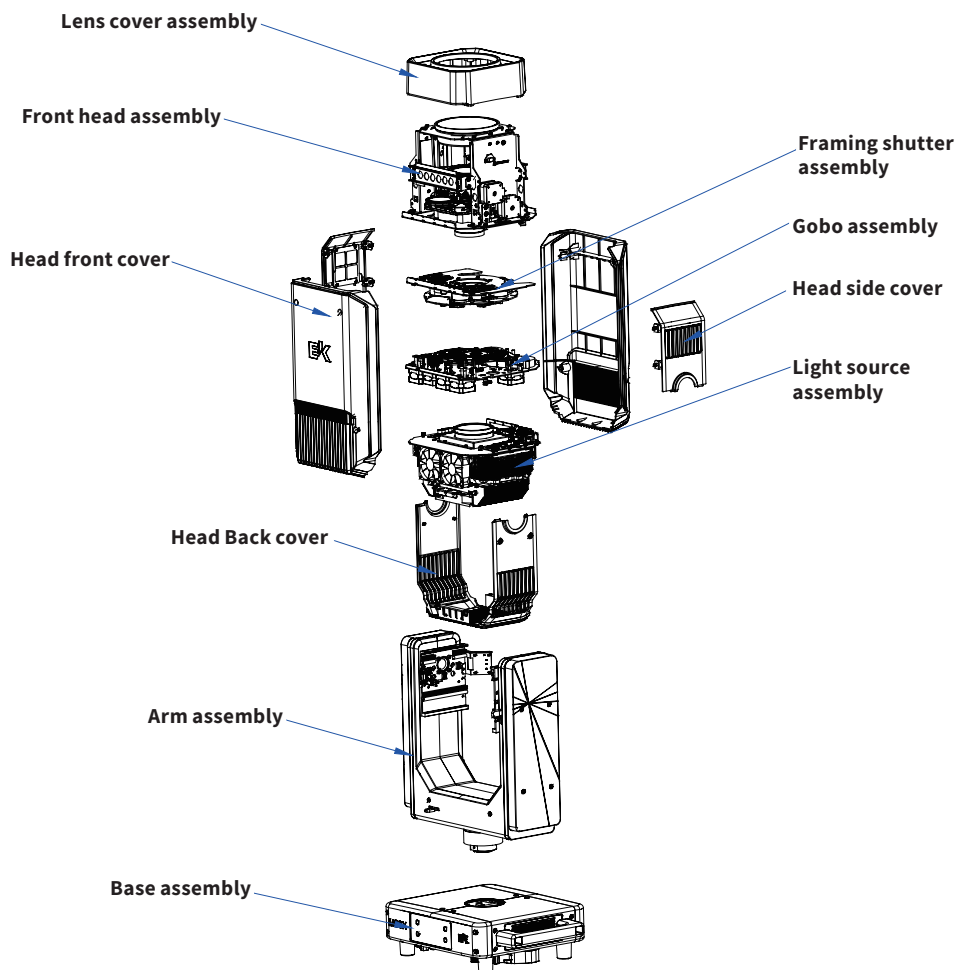
1. Disconnect the power, allow the fixture to cool completely, and open the cover.
2. Use a vacuum cleaner or compressed air blower to gently remove dust and loose particles.
3. Use odorless tissue or a cotton cloth moistened with clean water or distilled water to remove particles. Do not rub the surface.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

Cleaning Fans and Air Vents

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



9. EXPLODED VIEW





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