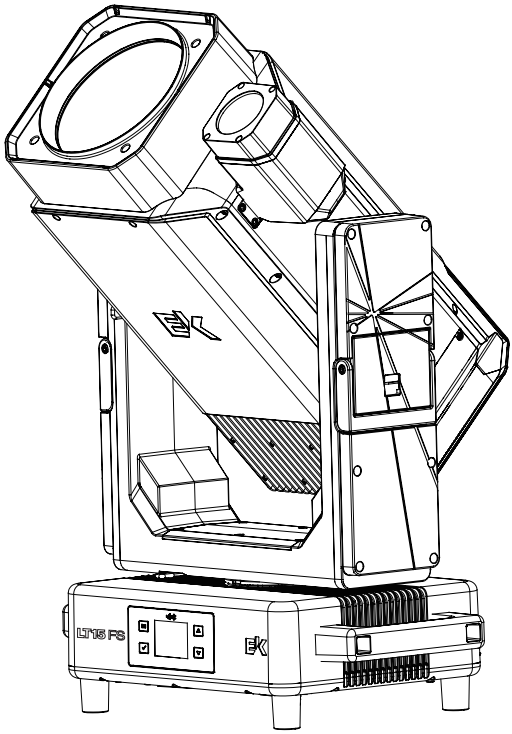


LT15 FS

USER MANUAL

V26.08.06

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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:5m.

● 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.

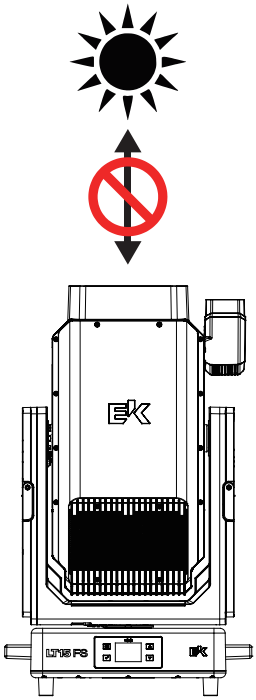
● Each fixture must be safely grounded. Electrical installation must comply with applicable standards.

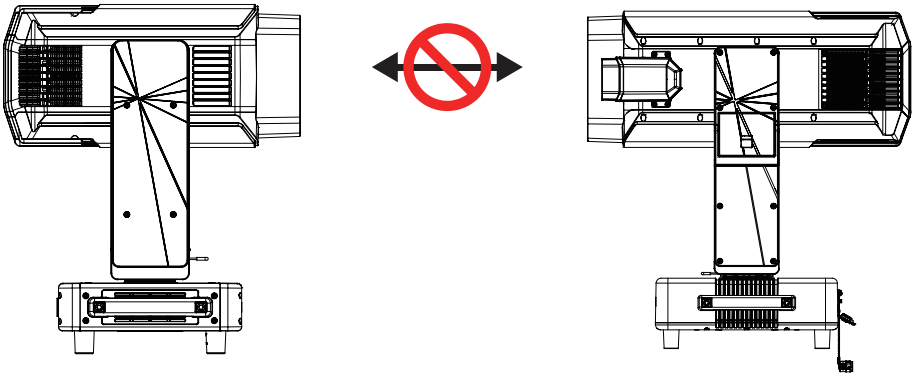
● Do not use a power cable with damaged insulation. Do not place the power cable on other cables. Disconnect the power cable when the fixture is not in use or before cleaning. Do not pull hard on the plug or drag the power cable.

● 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.

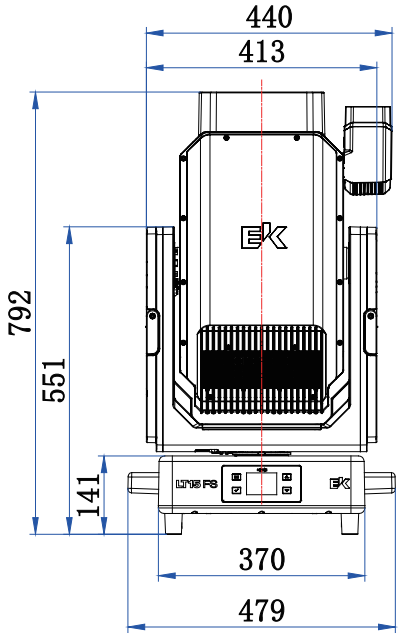
● If you have any questions, contact the supplier or manufacturer in time.

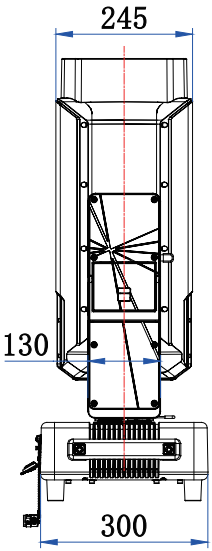
● **Direct sunlight or any other strong light source that penetrates the front lens of lamp can cause serious internal damage. Do not expose the front lens of lamp to direct sunlight or any other strong light source at any angle during unpacking, installation, use, or when it is idle outdoors for an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

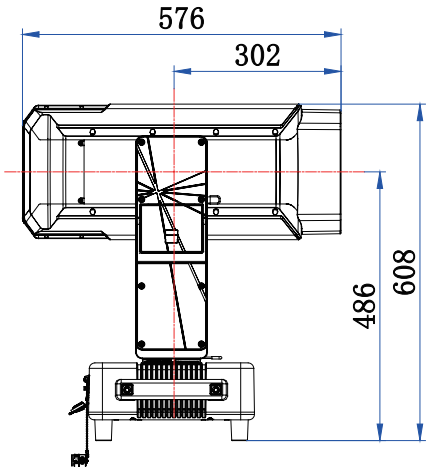


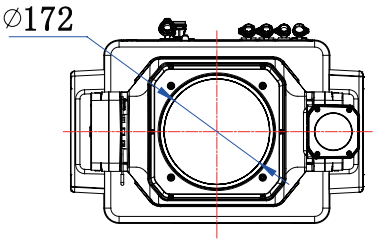


2.DIMENSIONS

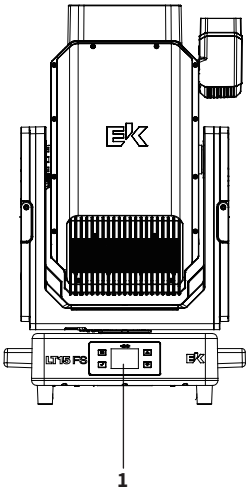


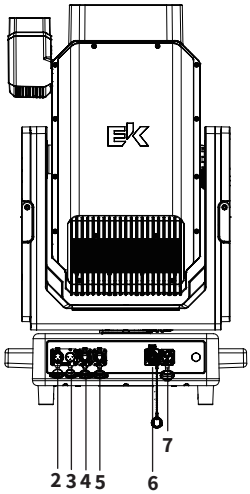






3. OVERVIEW





1.LCD Display

2.DMX In

3.DMX Out

4/5.Ethernet port

6.Optical Interface

7.Power In

Display panel button function description

Control Panel	Illustration	Description	Function
☰	Menu Option	Enter Menu	Menu Operation
△	Up	Confirm	Increase Numberic Value
▽	down	Scroll Down	Decrease Numberic Value
✓	Confirm	Confirm	Save Setting

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

Without ex ternal power source, long press the right bu t ton for 3 seconds, enter the menu to set parameters

4. LITHING PARAMETERS

4.1 TECHNICAL PARAMETERS

	EK-MY1500P FS IP
PHOTOMETRICS	
Light Source	1500W LED Engine
CCT	6000K
Output	52600lm @40°
CCI	0.1M~0.2G
CRI	⩾ 70
R9	⩾ -25
DUV	0~0.002
TLCI	⩾ 40
LED Life Expectancy	30000H
ZOOM Range	3.7-52°
KEY FEATURES	
Pan	540°
Tilt	270°
Color System	CMY+CTO
	6+OPEN
Gobo System	7+OPEN
	7+OPEN
Animation	Rotating animation wheel with variable speed
Framing System	Single blade ± 35° , rotatable ± 90°
Focus	Electronic linear focus
ZOOM	Electronic linear zoom, 3.7° -52°
Iris	16-leaf, 15%-100% electronic linear iris
Frost	1° +5° 0% - 100% combinable linear frost
Prism	Bidirectionally rotatable 4-f linear and 4-f circular prism with variable
Strobe	1-30Hz
Dimmer	22bit dimming, 4 dimming curves(linear/square/Inverse square/S-curve)+4 dimming modes
POWER	
Mains	100-240VAC, 50/60Hz
Consumption	230V@1580W
Power Connections	TrueCon In
Power Factor	230V@0.98
Operating Ambient Temp.	-20 ～ 50℃
PHYSICAL	
Dimension	479*300*792mm
Weight	43.4KG
IP Rating	IP66
Cooling	Heat sink with low noise fan
Housing	Diecast magnesium and fiber-reinforced flame retardant nylon, matte black finish
Mounting	Floor mounting/flown mounting/side hanging
Minumum Illuminated Distance	5M
Noise Level	OFF:31.6dB
	ON:52.1dB
	AUTO:48.1dB
	SILENT:42.4dB
	P/T movement:54.2dB
CONTROL	
Protocol	DMX/RDM/sACN/Artnet

DMX Channel	38CH
Data Connections	5pin(or 3pin) DMX In/Out, RJ45 In/Out, waterproof SFP fiber connector
Display	TFT
PWM Frequency	600Hz/1.2KHz/2KHz/4KHz/6KHz/25KHz
Built-in Macros	Yes
ACCESSORY	
Standard	Omega brackets, power cable

4.2 COLOR, GOBO, ANIMATION

Color





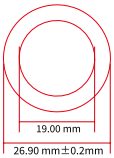


Rotating gobo



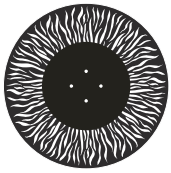
Rotating gobo2

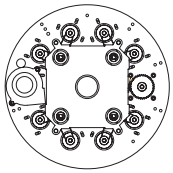




Animation

Frame shutter

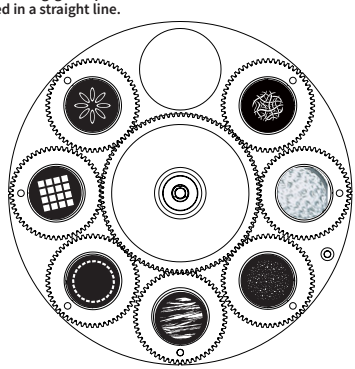




GOBO SYSTEM

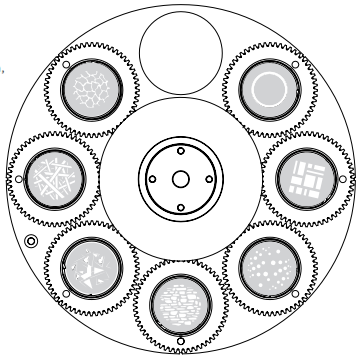
Gobo outer diameter: 29.9mm ± 0.2mm Gobo inner diameter:25mm Thickness: 1.1mm

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



Magnet Sensing Side Up

First install the aperture, then install the water ripple glass. Use adhesive for fixation, with the raised surface facing upwards.



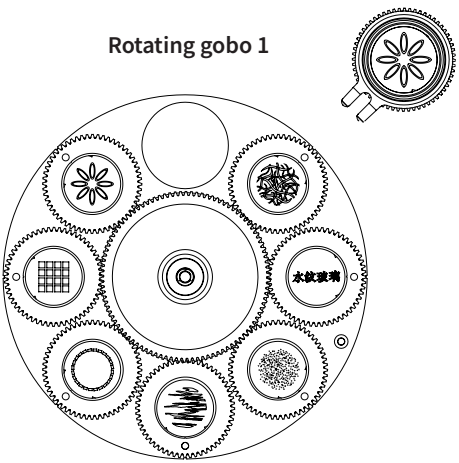
Magnet Sensing Side Up

GOBO REPLACEMENT

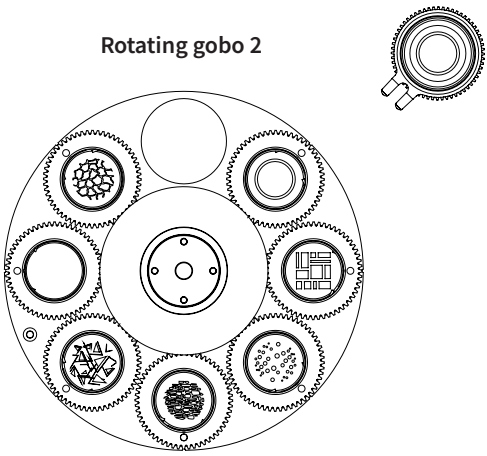
WHEN REPLACING ROTATING GOBOS, OBSERVE THE FOLLOWING PRECAUTIONS:

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

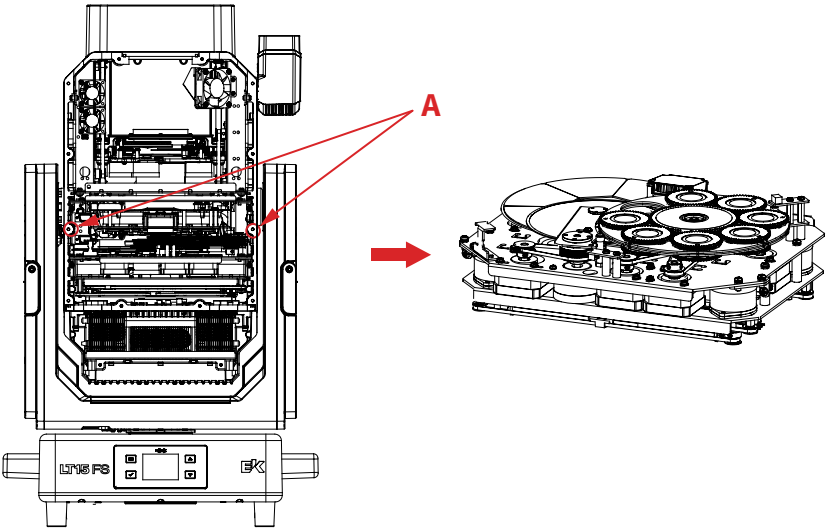


Rotating gobo 2

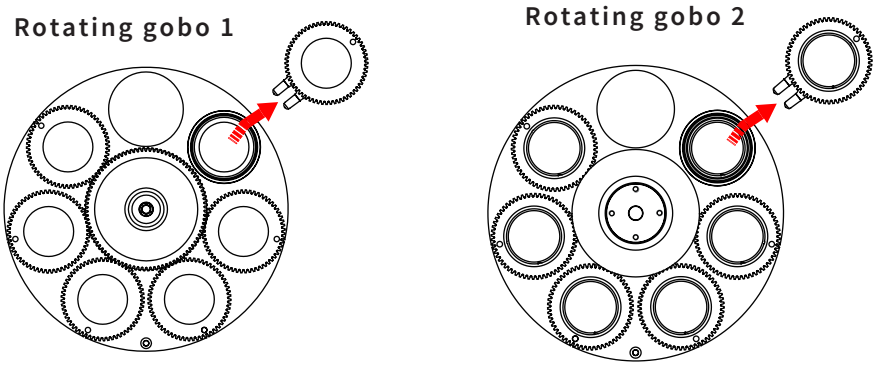


1、GOBO WHEEL

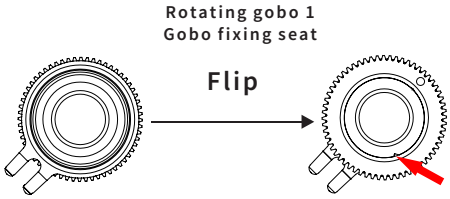
a. Remove the two screws at position A, unplug the power and signal adapter cables, and pull out the gobo assembly.



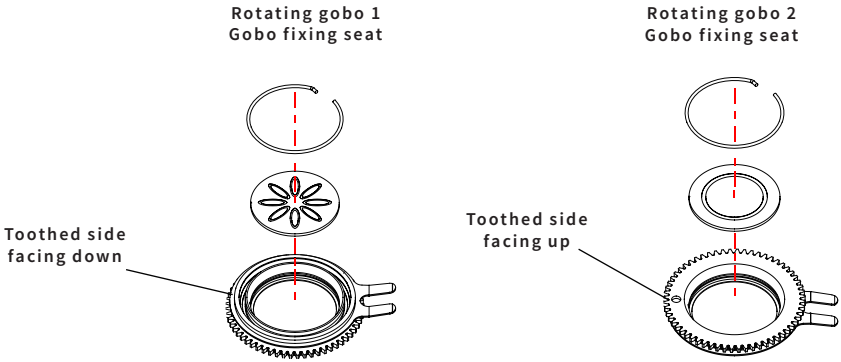
b. When pulling the gobo holder out of the gobo wheel, note how the tab of the gobo holder engages with the gobo wheel. When reinstalling the gobo holder, make sure the tab is inserted back into the same position on the gobo wheel.



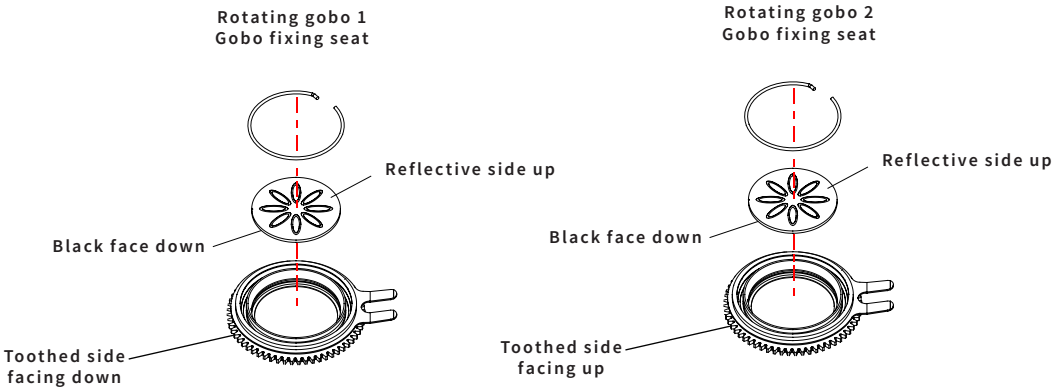
c. Use tweezers or another small gripping tool to remove the retaining spring at position C. If the gobo is fixed with glass adhesive, use a professional cleaner to remove the adhesive before removing the retaining spring to avoid damaging the gobo.

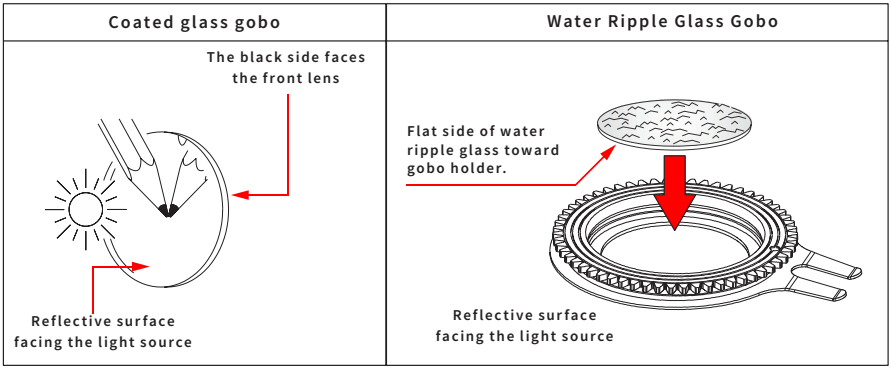


For rotating gobo wheel 1, place the toothed side of the gobo holder downward. For rotating gobo wheel 2, place the toothed side of the gobo holder upward. Use a suitable tool, such as a plastic pry tool, to carefully remove the gobo retaining spring, then remove the original gobo.



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.

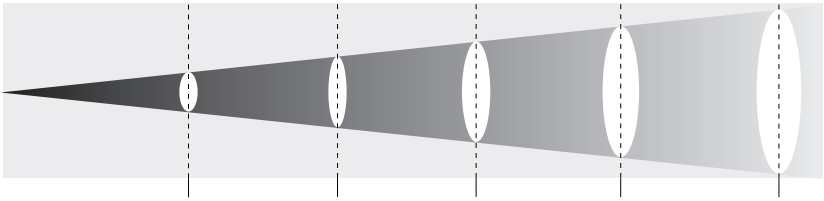




1. When reinstalling the gobo retaining spring, check that the spring presses as flat as possible against the gobo and that the gobo is securely fixed in the gobo holder.
2. Align the marks on the gobo holder and the gobo wheel. Insert the tab correctly into the gobo wheel when installing the gobo holder.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

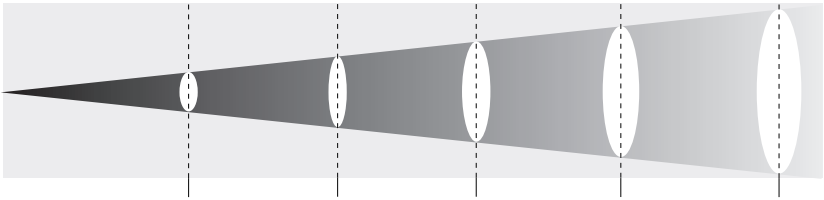
4.3 PHOTOMETRICS

Beam Angle：3.7°



Distance(M)	10	15	20	25	30
Diameter (m)	0.65	0.98	1.3	1.63	1.95
All (Lux)	58100	25822	15525	9296	6456

Beam Angle：52°



Distance(M)	2.5	5	7	10	15
Diameter (m)	2.45	4.12	7.17	10.24	15.36
All (Lux)	14200	3550	1811	888	394

5. LIGHTING SETTINGS

5.1 Menu

\	Main Menu	Main Menu2	Main Menu3	Main Menu4	Main Menu5	Main Menu6	Remark
1	DMX Setting	DMX Address	1~512				1
		DMX Channel	40CH				40CH
2	Ethernet Setting	Protocol	Artnet				Artnet
			sACN				
		IP Address	xxx.xxx.xxx.xxx				/
		IP Mask	xxx.xxx.xxx.xxx				/
		Universe	0-255 (Artnet)				0
			1-256 (sACN)				
		Net To DMX	Off				Off
			On				
3	Settings	Movement Setting	Invert Pan	Off			Off
				On			
			Invert Tilt	Off			Off
				On			
			Swap Pan/Tilt	Off			Off
				On			
			Encoder Pan/ Tilt	Off			On
				On			
			Absolute Encoder	Off			On
				On			
		Framing Shutter Mode	Independent Mode				Mixed Mode
			Mixed Mode				
		Frost Mode	Independent Mode				Mixed Mode
			Mixed Mode				
		Dimmer Setting	Dimmer Mode	Off			Off
				Dimmer 1			
				Dimmer 2			
				Dimmer 3			
			Dimmer Curve	Linear			Square
				Square			
				Inverse Square			
				S Curve			
3	Settings	LED Setting	LED Frequency	600Hz			2000 Hz
				1200 Hz			
				2000 Hz			
				4000 Hz			
				6000 Hz			
				25KHz			
		Fan Mode	Auto				Auto
			On				
			Off				
			Silent				

5.2 Menu

3	Settings	Reset Setting	All				/
			P/T				/
			Head				/
		Display Setting	Back Light	Off			Off
				On			
			Flip Display	No			No
				Yes			
				Auto			
			Warn Cue	Off			On
				On			
			Key Lock	No			Yes
				Yes			
			Temperature Unit	℃			℃
				°F			
4	TEST	Channel	Arrange 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
				Gobo1 Offset			128
				RGobo1 Offset			128
				Gobo2 Offset			128
				RGobo2 Offset			128
				Effect Offset			128
				Iris Offset			128
				Shutters Rot. Offset			128
				Fr.shutter 1 M1 Offset			128
5	ADVANCED	Access Code	Calibration	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

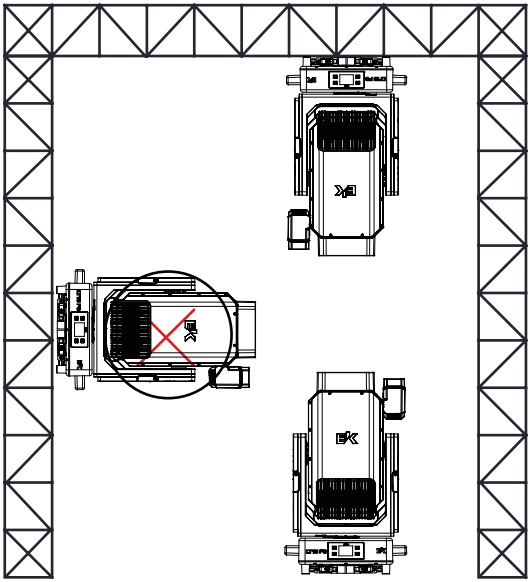
5.3 Menu

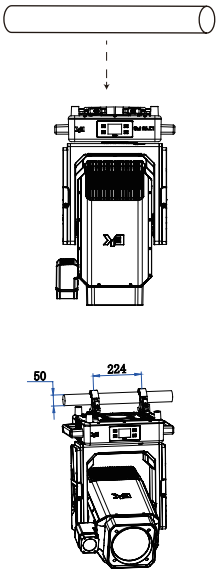
5	ADVANCED	Access Code	Calibration	Fr.shutter 4 M2 Offset			128
				Prism1 Offset			128
				RPrism Offset			128
				Prism2 Offset			128
				RPrism2 Offset			128
				Focus Offset			128
				Zoom Offset			128
				Frost1 Offset			128
				Frost2 Offset			128
			Factory Reset	No			/
				Yes			
6	INFORMATION	System Errors					/
		Time	Fixture Hours	65535H			0
			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	LED：40℃				/
		Humidity	25%				/
		Pressure	80kpa				/
		UID:	030F0CE*****				/
		Bluetooth Version	V0.0.X				

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 normaloperation.
2. Water-spray protection. Water sprayed from any direction will not damage the equipment.

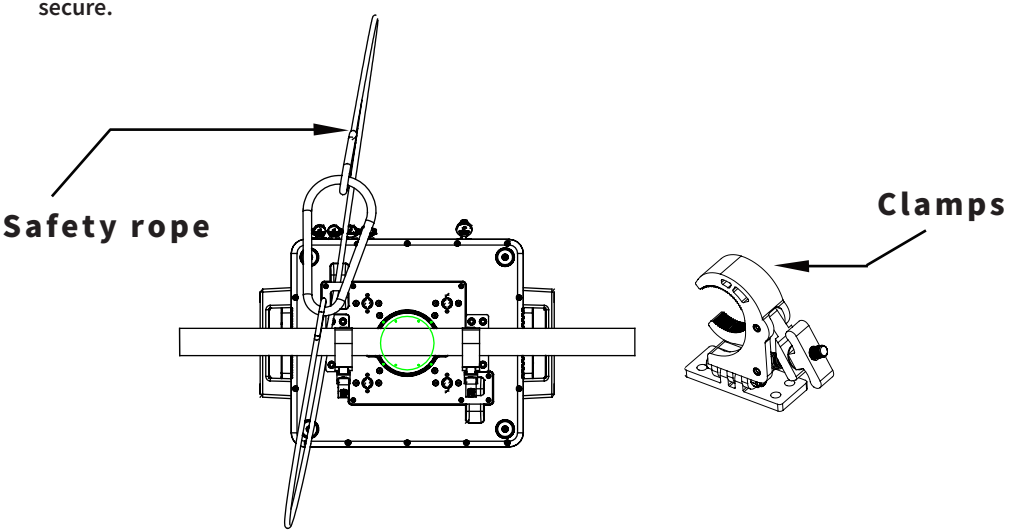
The equipment must be installed by professionals. It must be installed outside walkways and seating areas, or away from any area where unauthorized persons can touch the fixture by hand. Do not stand directly under the fixture during installation, removal, or maintenance.

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.

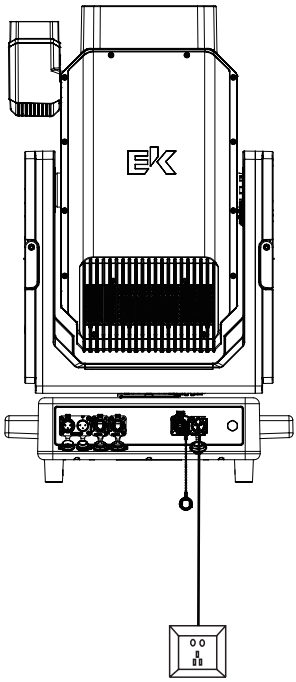
This fixture supports two valid installation modes for normal operation: upside-down hanging mounting and horizontal flat surface placement. Side mounting on truss is strictly prohibited. Always install the fixture in compliance with specifications and attach a safety cable as secondary protection, to avoid equipment damage or personal injury caused by clamp failure.

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 1 units (230V)

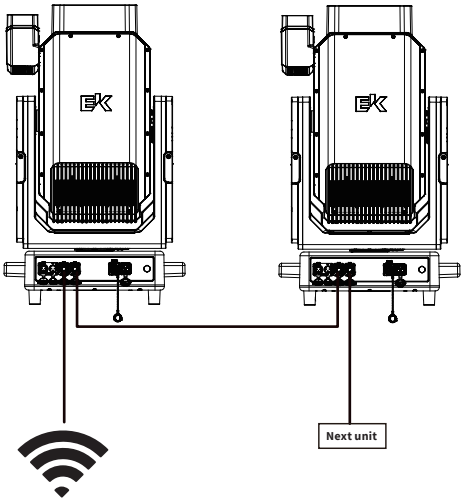


Warning

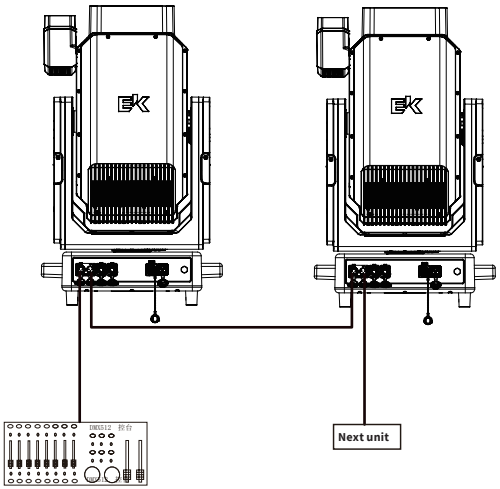
Do not connect too many fixtures to one power cable or overload the cable.
Do not use a power cable with damaged insulation. Do not place the power cable on other cables.
Disconnect the power cable when the fixture is not in use or before cleaning.
Do not pull hard on the plug or drag the power cable.

6.3 SIGNAL CONNECTION

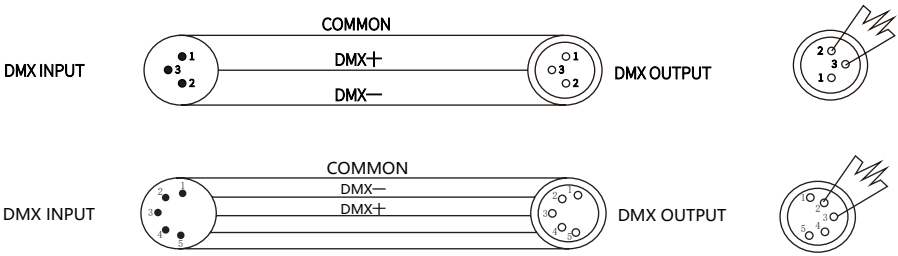
Ethernet Connection



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
40CH	001-041	001	041	81	161

(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

40CH	Function	Value	Description	Remark
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	0-360
		128-190	Fast to Slow(Forward Spin)	
		191-192	Stop (Stop Rotation)	
		193-255	Slow to Fast(Revers Spin)	

6.4.2 DMX Chart

15	Gobo2 2	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	
16	RGobo1	000-127	0 - 540 Position	0-360
		128-190	Fast to Slow(Forward Spin)	
		191-192	Stop (Stop Rotation)	
		193-255	Slow to Fast(Revers Spin)	
17	Prism1	000-127	Prism1 Excluded	
		128-255	Prism1 Inserted	
18	RPrism1	000-127	0 - 540 Position	
		128-190	Fast to Slow(Forward Spin)	
		191-192	Stop (Stop Rotation)	
		193-255	Slow to Fast(Revers Spin)	
19	Prism2	000-127	Prism2 Excluded	
		128-255	Prism2 Inserted	
20	RPrism2	000-127	0 - 540 Position	
		128-190	Fast to Slow(Forward Spin)	
		191-192	Stop (Stop Rotation)	
		193-255	Slow to Fast(Revers Spin)	
21	Frost 1/2	000-255	Frost 0->100%	Mixed Mode
22	No Function	/	/	
21	Frost 1	000-255	Frost 0->100%	Independent Mode
22	Frost 2	000-255	Frost 0->100%	
23	Effect	000-127	Effect Excluded	
		128-255	Effect Inserted	
24	REffect	000-003	Effect Inserted	
		004-127	Fast to Slow(Forward Spin)	
		128-132	Stop (Stop Rotation)	
		133-255	Slow to Fast(Revers Spin)	
25	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	
26	Focus	000-255		
27	Focus Fine	000-255		
28	Zoom	000-255		
29	Zoom Fine	000-255		

6.4.3 DMX Chart

30	Auto Focus	000-010	Auto Focus OFF	
		011-020	4 - 6 metres	Hole
		021-030	6 - 8 metres	
		031-040	8 - 10 metres	
		041-050	10 - 12 metres	
		051-060	12 - 14 metres	
		061-070	14 - 16 metres	
		071-080	16 - 18 metres	
		081-090	18 - 20 metres	
		091-100	4 - 6 metres	RGobo1
		101-110	6 - 8 metres	
		111-120	8 - 10 metres	
		121-130	10 - 12 metres	
		131-140	12 - 14 metres	
		141-150	14 - 16 metres	
		151-160	16 - 18 metres	
		161-170	18 - 20 metres	
		171-180	4 - 6 metres	RGobo2
		181-190	6 - 8 metres	
		191-200	8 - 10 metres	
		201-210	10 - 12 metres	
		211-220	12 - 14 metres	
		221-230	14 - 16 metres	
		231-240	16 - 18 metres	
		241-250	18 - 20 metres	
		251-255	Auto Focus OFF	
31	Framing Shutter 1 movent	000-255	Movement from outward to inward	Framing Shutter Mixed Mode
	Framing Shutter 1_1 movent	000-255	Movement from outward to inward	Framing Shutter Independent Mode
32	Framing Shutter 1 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 1_2 movent	000-255	Movement from outward to inward	Framing Shutter Independent Mode
33	Framing Shutter 2 movent	000-255	Movement from outward to inward	Framing Shutter Mixed Mode
	Framing Shutter 2_1 movent	000-255	Movement from outward to inward	Framing Shutter Independent Mode
34	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

6.4.4 DMX Chart

35	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
36	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
37	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
38	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
39	Framing Shutters Rotation	000-127	Rotation from left to center	
		128	Center	
		129-255	Rotation from center to right	
40	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 Pan Tilt Off	
		101-105	Swap Pan Tilt On	
		106-110	Auto	
		111-115	On	
		116-120	Off	
		121-125	Silent	
		126-160	Reserve	

6.4.5 DMX Chart

40	Control	161-165	Framing Shutter Independent Mode	
		166-170	Framing Shutter Mixed Mode	
		171-175	FrostIndependent Mode	
		176-180	Frost Mixed Mode	
		181-185	Console controls all attributes.	The Collaboration Mode can only be selected from the lighting console.
		186-190	Followspot controls Pan/Tilt; console controls all other attributes.	
		191-195	Followspot controls all attributes; console backup excludes Pan/Tilt.	
		196-200	Followspot has priority; console takes full control after 3 seconds of signal loss.	
		201-240	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	1. Replace with a fuse of the same specification
		2. No voltage input or output from power supply	2. Replace the power supply
		3. POWERCON power socket damaged	3. Replace the power socket
2	Head shaking, position loss, P/T axis reset error	1. P/T axis belt loose	1. Adjust the P/T axis belt tension
		2. Motor fault	2. Replace the P/T axis motor
		3. Hall sensor/encoder damaged	3. Replace the Hall sensor/encoder
		4. P/T axis driver board damaged	4. Replace the P/T axis driver board
		5. Poor contact or disconnection of plug leads between the P/T axis Hall sensor, encoder, and PCB	5. Repair or replace the plug leads
3	No DMX signal / not controlled	1. DMX signal port damaged	1. Replace the DMX signal port
		2. Main board abnormal	2. Replace the main board
		3. DMX signal cable fault	3. Replace the signal cable
		4. Fixture DMX address does not match the console address setting	4. Check or reset the address code
4	Beam offset, out of focus, insufficient brightness	1. Optical assembly loose	1. Tighten the optical parts
		2. Lamp not installed in place	2. Recalibrate lamp concentricity
		3. Lens dirty	3. Clean the optical parts
5	Equipment overheating / automatic protection	1. Fan damaged	1. Replace the fan
		2. Air vent blocked	2. Clear the air vent
		3. Driver board abnormal	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	1. Replace with an original lamp
		2. Lamp igniter fault	2. Replace the lamp igniter
		3. No voltage output from power supply	3. Replace the power supply
		4. LED driver board abnormal	4. Replace the LED driver board
7	CMY/CTO reset error	1. Positioning magnet on CMY/CTO color wheel detached or damaged	1. Replace the positioning magnet
		2. CMY/CTO color wheel Hall sensor abnormal	2. Replace the Hall sensor
		3. CMY/CTO color wheel belt loose	3. Adjust belt tension
		4. CMY/CTO color wheel motor abnormal	4. Replace the motor
		5. CMY/CTO color wheel PCB abnormal	5. Replace the PCB
		6. Poor contact or disconnection of plug leads between the CMY/CTO color wheel Hall sensor and 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	1. Replace the positioning magnet
		2. Color wheel/gobo wheel Hall sensor abnormal	2. Replace the Hall sensor
		3. Color wheel/gobo wheel belt loose	3. Adjust belt tension
		4. Color wheel/gobo wheel motor abnormal	4. Replace the motor
		5. Color wheel/gobo wheel PCB abnormal	5. Replace the PCB
		6. Poor contact or disconnection of plug leads between the color wheel/gobo wheel Hall sensor and PCB	6. Repair or replace the plug leads
9	Framing reset error	1. Positioning magnet on framing wheel detached or damaged	1. Replace the positioning magnet
		2. Framing wheel Hall sensor abnormal	2. Replace the Hall sensor
		3. Framing wheel belt loose	3. Adjust belt tension
		4. Framing wheel motor abnormal	4. Replace the motor
		5. Framing wheel PCB abnormal	5. Replace the PCB
		6. Poor contact or disconnection of plug leads between the framing wheel motor and PCB	6. Repair or replace the plug leads
10	Focus / zoom reset error	1. Positioning magnet for focus/zoom detached or damaged	1. Replace the positioning magnet
		2. Focus/zoom Hall sensor abnormal	2. Replace the Hall sensor
		3. Focus/zoom belt loose	3. Adjust belt tension
		4. Focus/zoom motor abnormal	4. Replace the motor
		5. Focus/zoom PCB abnormal	5. Replace the PCB
		6. Poor contact or disconnection of plug leads between the focus/zoom motor and PCB	6. Repair or replace the plug leads
11	Prism reset error	1. Positioning magnet on prism detached or damaged	1. Replace the positioning magnet
		2. Prism Hall sensor abnormal	2. Replace the Hall sensor
		3. Prism belt loose	3. Adjust belt tension
		4. Prism motor abnormal	4. Replace the motor
		5. Prism PCB abnormal	5. Replace the PCB
		6. Poor contact or disconnection of plug leads between the prism motor and PCB	6. Repair or replace the plug leads
12	Effect wheel reset error	1. Positioning magnet on effect wheel detached or damaged	1. Replace the positioning magnet
		2. Effect wheel Hall sensor abnormal	2. Replace the Hall sensor
		3. Effect wheel belt loose	3. Adjust belt tension
		4. Effect wheel motor abnormal	4. Replace the motor
		5. Effect wheel PCB abnormal	5. Replace the PCB
		6. Poor contact or disconnection of plug leads between the effect wheel motor and 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.

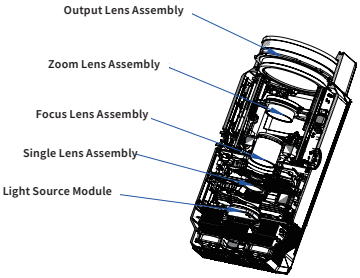
Wipe optical parts gently to avoid scratching the coated surface. Do not use destructive solvents, as they may damage plastic or coated surfaces.

CLEANING OPTICAL COMPONENTS:

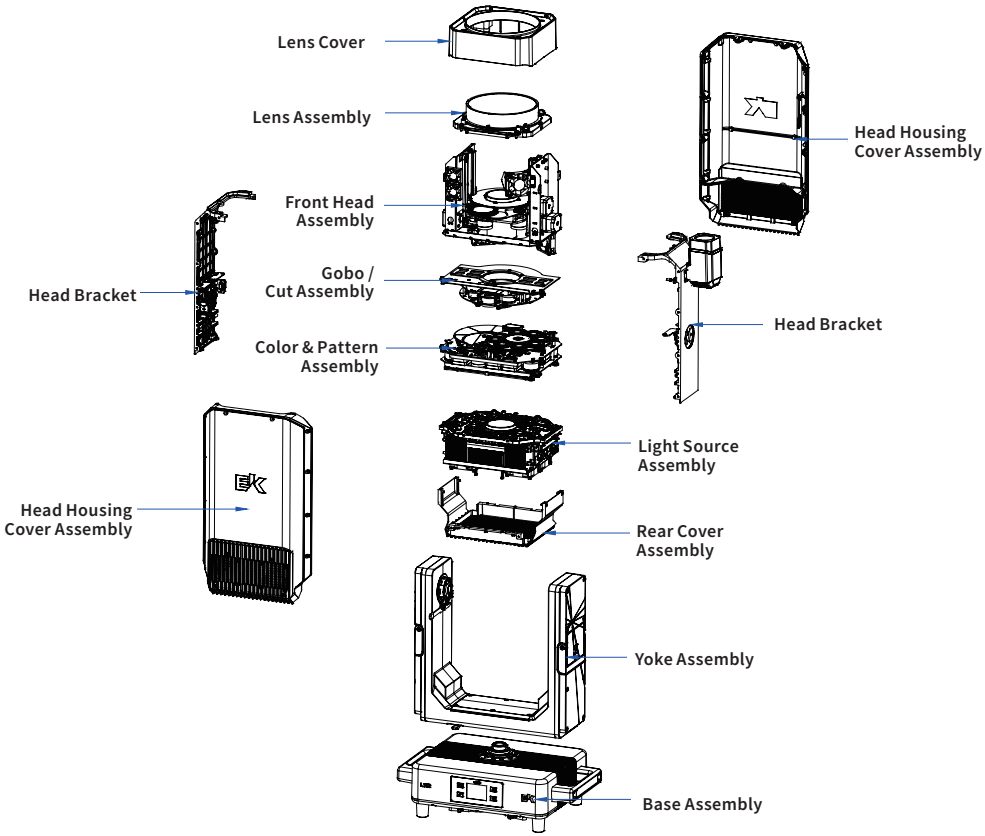
1. Disconnect the power, allow the fixture to cool completely, and open the cover.
2. Use a vacuum cleaner or compressed air blower to gently remove dust and loose particles.
3. Use odorless tissue or a cotton cloth moistened with clean water or distilled water to remove particles. Do not rub the surface. 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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