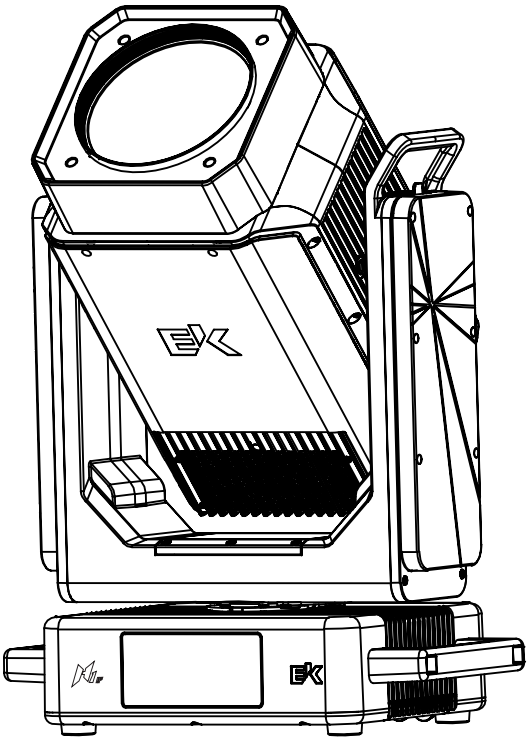


H1 IP

USER MANUAL

CONTENTS

1.SAFETY GUIDE

The products are packed in good condition when leaving factory. Please operate according to the user manual. Machine failure caused by human factors is not covered by the warranty.

When electrical equipment is in operation, be careful of electric shock and do not touch it!

Do not look directly at the light source to avoid damage to your eyes.

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

NOTE: Replace any screen that is cracked.

The shortest distance from the object to be illuminated is 14 meters.

● The light source in this luminaire shall be replaced by the manufacturer, its service agent or a similarly qualified person. If the external flexible cable or cord of this luminaire is damaged, the cord shall be replaced by a qualified person of the manufacturer or its service agent to avoid a hazard.

● After receiving the lamp, please check whether there is any damage caused by transportation. If there is any damage, do not use the lamp and contact the supplier or manufacturer immediately.

● The lamp should be installed in a well-ventilated place, at least 50cm away from the wall, and check whether the ventilation holes are unobstructed.

● Please do not open the lamp to repair it yourself.

● Electrical connections must be made by qualified installers.

● Each lamp should be safely grounded and the electrical installation should be carried out in accordance with relevant standards.

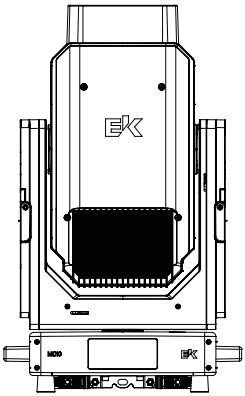
● Do not use a power cord with damaged insulation, and do not place the power cord on other wires. When the lamp is not in use or is being cleaned, unplug the power cord. Do not unplug or pull the power cord forcefully or directly.

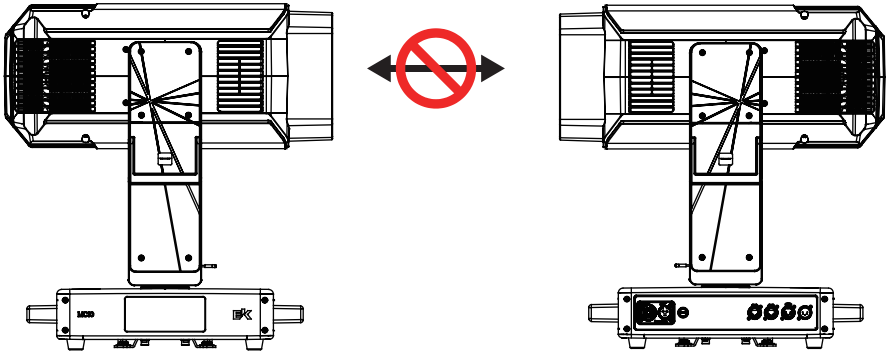
● After working at full power for 10 minutes, the surface temperature of the lamp is about 40 degrees. After stable operation, the surface temperature of the lamp should be around 70 degrees.

● There are no user-serviceable parts inside this lamp. Before operating the lamp, please check that all parts are well connected and the screws are secure.

● If you have any questions, please 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.**

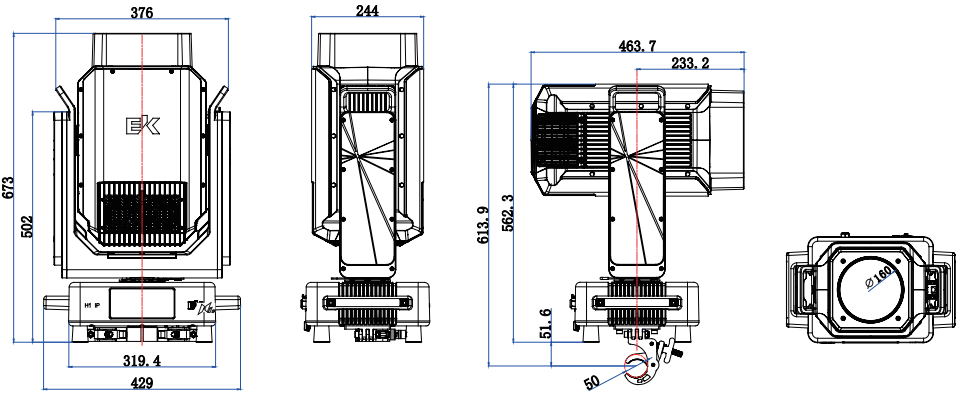




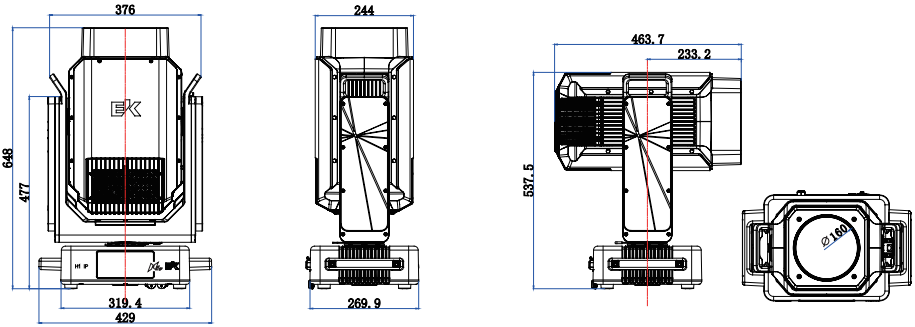
2.SPECIFICATION

H1 IP	
PHOTOMETRICS	
Light Source	480W discharge lamp
Color Temperature	7000K ± 400 @ Spot Mode 6800 ± 400 @ Beam Mode
Ouput	16200 lumens@41°
Illuminance	151000Lux@20m
CRI	Ra ⩾ 75
DUV	0
TM-30-15rg/rf	92/81
TLCI	50
Lamp Life	4000H
KEY FEATURES	
Pan	540°
Tilt	270°
Color System	CMY+CTO+color wheel (15 filters+open)
Gobo System	one rotation gobo wheel (8pcs replaceable gobo +open)
	one fixed gobo wheel (19 patterns+open)
	Animation wheel with variable speed
Focus	Electronic focus
Zoom Range	Beam Mode：1.8~27.5° Spot Mode：2~41°
Frost	Glass frost
Strobe	0 ～ 12Hz
Dimming	0 ～ 100% linear dimming
Prism	4-f and 8-f prisms indexable
CONTROL	
Protocol	DMX512/RMD
DMX channel	32CH
Display	2.8-inch TFT display
POWER	
Power Supply	100 ～ 240VAC,50 /60Hz,800W
Mains	100 ～ 240V,50/60Hz
Consumption	Dynamic: 700W@230V Static:650W@230V
Power Connections	Power In/Out, inking up to 3pcs@230V, linking up to 1pcs@100V
Data Connections	DMX In/Out, linking up to 32pcs
Power factor	0.96@230V
Ambient	-20°C～ 45°C
PHYSICAL	
Dimension	429*270*648.5mm(with omega bracket)/ 429*270*673.5mm(with integrated clamp)
Weight	27.5Kg (with omega bracket)/ 28.7Kg (with integrated clamp)
IP rating	IP66
Cooing System	IP low noise fan
Housing	Diecast magnesium with matte black finish

3.DIMENSION

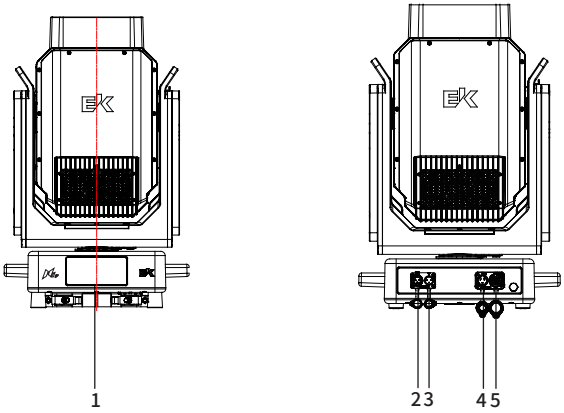


with Integrated Clamp



with Omega bracket

4. OVERVIEW



1.Display

2.DMX In

3.DMX Out

4.Power In

5.Power Out

Display panel button function description

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

Initialization: ☰ + ✓

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

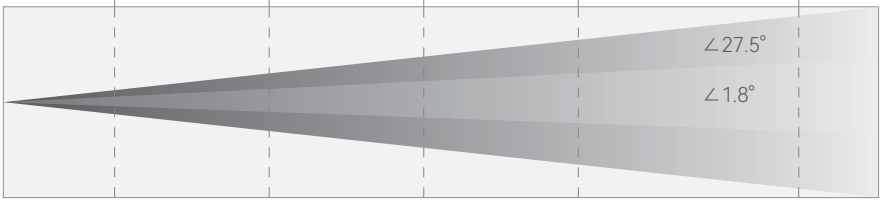
5.PHOTOMETRICS

Beam Mode（1.8°）

Diamet er(m)	20	40	60	80	100
LUX	151000	37750	16780	9440	6040
Distanc e(cm)	63	126	188	251	314

Beam Mode（27.5°）

Distanc e(m)	3	51	01	5	20
LUX	38200	13720	3440	1536	860
Diamet e(cm)	160	266	533	800	1066

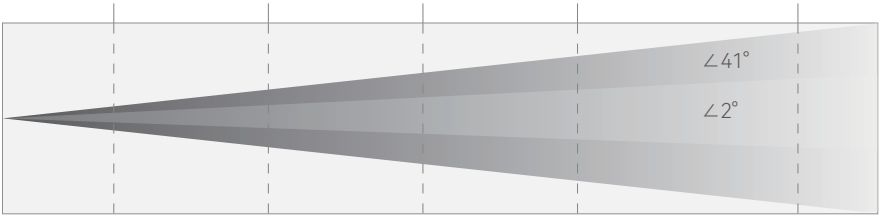


Spot Mode（2°）

Distanc e(m)	10	20	50	70	100
LUX	155600	38900	6224	3180	1560
Diamet er(cm)	35	69	174	244	349

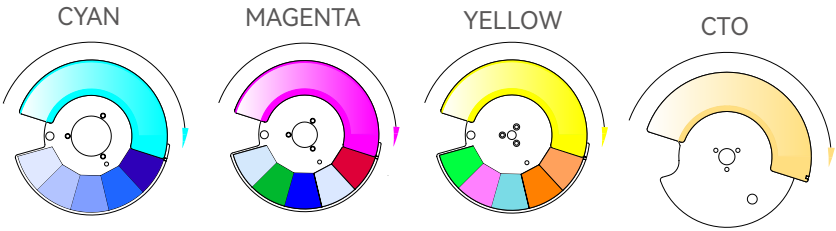
Spot Mode（41°）

Distanc e(m)	3	57		10	15
LUX	6940	2495	1270	622	277
Diamet er(cm)	230	383	536	766	1149

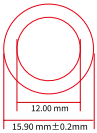


6.COLOR, GOBO&ANIMATION

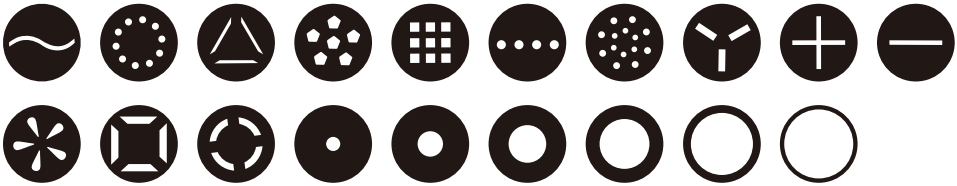
Color



Rotating Gobo



Fixed Gobo

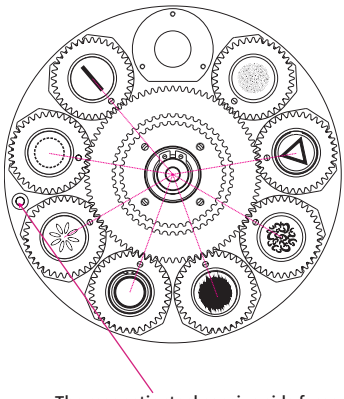


Animation Wheel

GOBO SYSTEM

Gobo outer diameter: 15.9mm ± 0.2mm
Gobo inner diameter: 12mm
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.

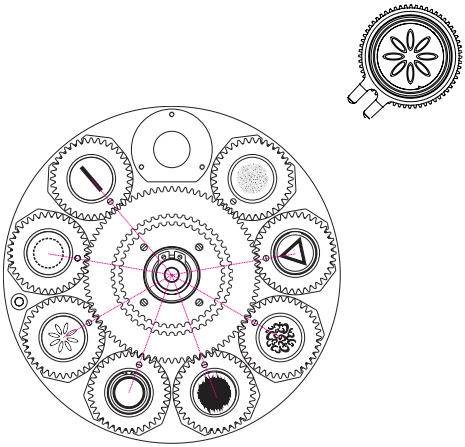


Gobo Replacement

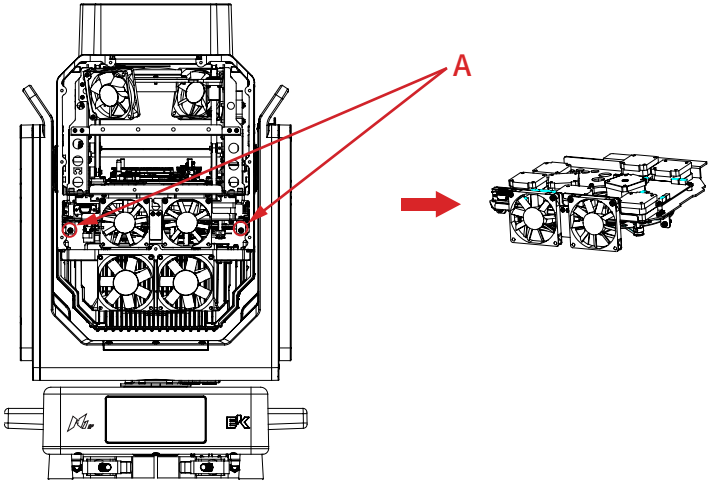
When replacing the rotating gobo, please observe the following precautions:

1.Original gobos have a special coating designed to withstand high temperatures. Custom gobos must be made with high-Borofloat or higher glass. Custom gobos must match the original gobo in size, construction, material, and quality. Using gobos that do not meet these requirements will cause damage and void the product warranty.
2.Do not use gobos that have a black coating on both sides, as the black coating absorbs heat—both directly from the light source and reflected from other optics—and is not durable.3.Wear clean nitrile gloves when replacing gobos.
4.Avoid scratching gobos.
5.Correct gobo orientation is crucial. Note the location of the registration points (indicated by the arrows) on the gobo wheel and gobo holder. Before removing the gobo holder from the gobo wheel, rotate the gobo wheel (twice if necessary) until the registration points are aligned perfectly. We recommend removing only one gobo holder at a time. After removing the gobo holder, do not rotate the gobo wheel to ensure that each gobo remains in the correct orientation and avoid the need for readjustment if the gobo orientation changes during operation.

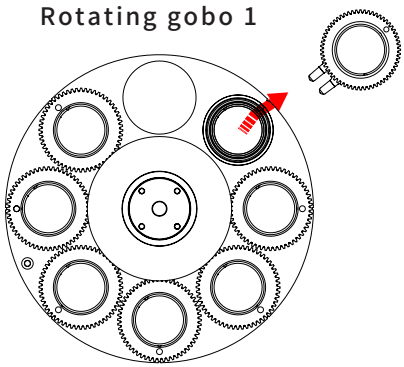
Rotating gobo wheel



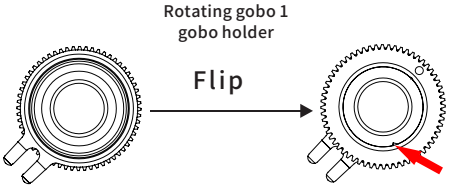
a. Remove the two screws at A , unplug the power and signal adapter cables, and pull out the gobo assembly.



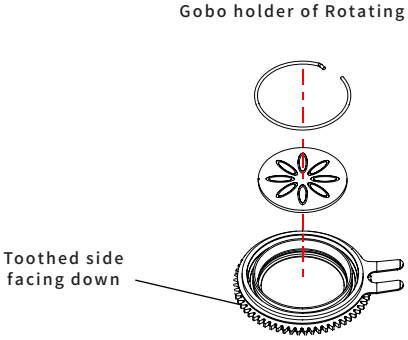
b.When removing the gobo holder from the gobo wheel, pay attention to how the gobo holder's tab engages the gobo wheel. When reinstalling the gobo holder, make sure to insert the tab back into the gobo wheel in the same position.



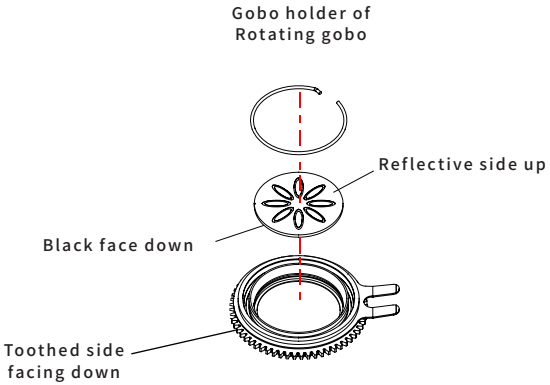
c.Use tweezers or other small objects to remove the retaining spring at C (if gobo is coated with glass glue for fixing, please use a professional cleaning agent to remove the glass glue before removing the retaining spring to avoid damaging gobo)

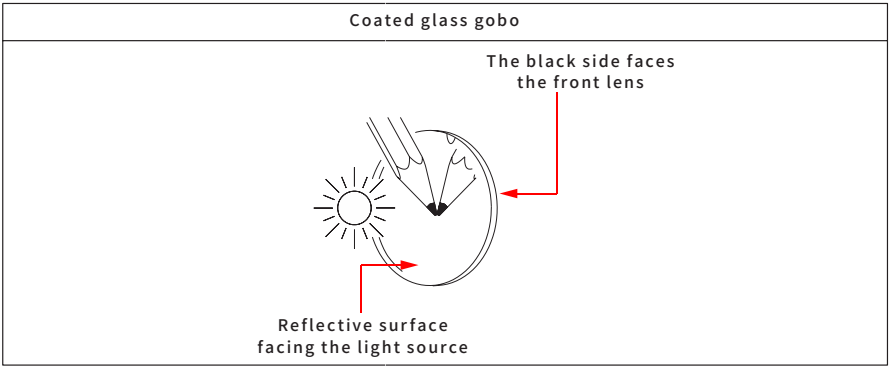


d.Rotating gobo wheel with the toothed side of the gobo holder facing down , use an appropriate tool (such as a plas tic crowbar) to carefully remove the gobo retaining clip, and then remove the original gobo.



e. Hold the new gobo by it s edges, being careful not to get f ingerprint s on it, and place it into the gobo holder, ensuring the locating point s on the gobo and the gobo holder are aligned, with the black side (or f lat side for water-pat terned glass) facing down. Check that the gobo is fully seated in the gobo holder.



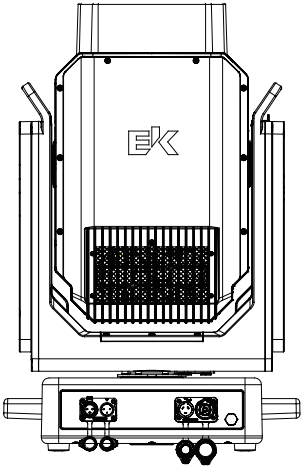


1.When reinstalling the gobo retaining clip, check that the clip is pressed as flatly as possible against the gobo and that the gobo is securely fastened in the gobo fixing seat.

2.Align the gobo holder with the positioning points on the gobo wheel and insert the tongue into the gobo wheel correctly when installing the gobo holder. After installation, check whether the gobo holder is firmly fixed to the gobo wheel.

7. CONNECTION

Power Connection



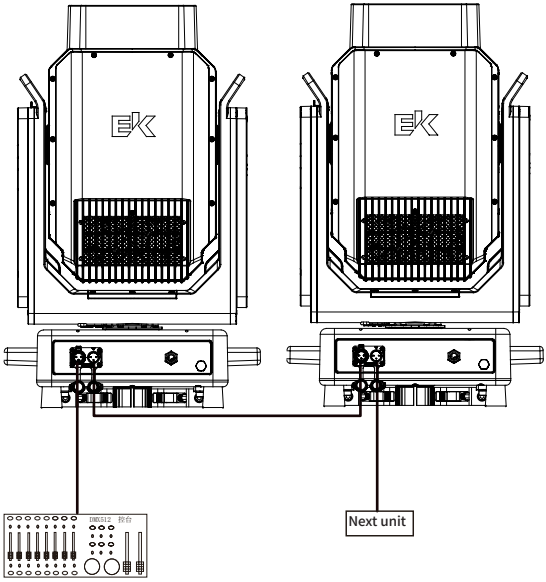
Power connection instructions

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

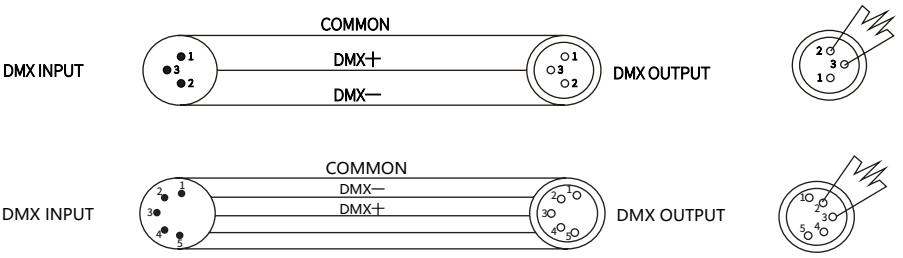
Warning

Do not connect too many lamps to a single power cord or overload it.
Do not use a power cord with damaged insulation, and do not place the power cord over other wires.
When the lamp is not in use or is being cleaned, please unplug the power cord.
Do not pull the power cord with force or pull it directly.

DMX Connection



DMX CONNECTION INSTRUCTIONS



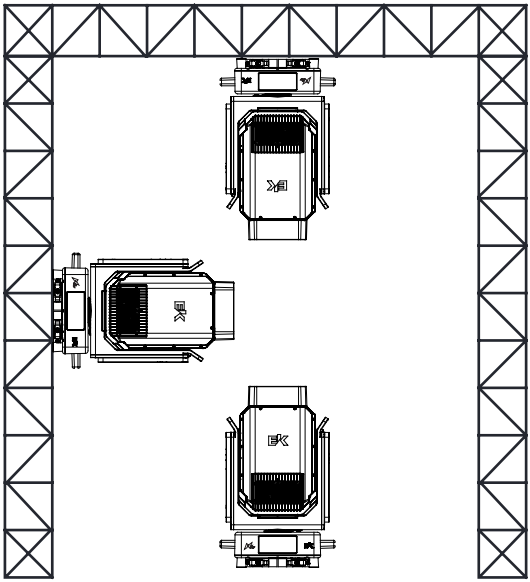
- In order to reduce signal errors and avoid signal attenuation and interference during transmission, you can add a 120 ohm 1/4W resistor between the 2nd and 3rd pins of the DMX output terminal of the last machine.
- Connect the fixtures with XLR cables, connecting one end to the output port of one fixture and the other end to the input port of the next fixture. Cables should only be used in series, not in parallel. Because DMX512 signals transmit very quickly, damage to the cable, loose solder joints, or poor contact can affect signal transmission and cause the system to shut down.
- When the power supply of a unit is cut off, the DMX output and input connections are bypassed to maintain the connectivity of the DMX line.
- Each lamp must have an address code to receive information from the console.
- The terminal of the DMX512 system needs to be equipped with a terminator to reduce errors in signal transmission.

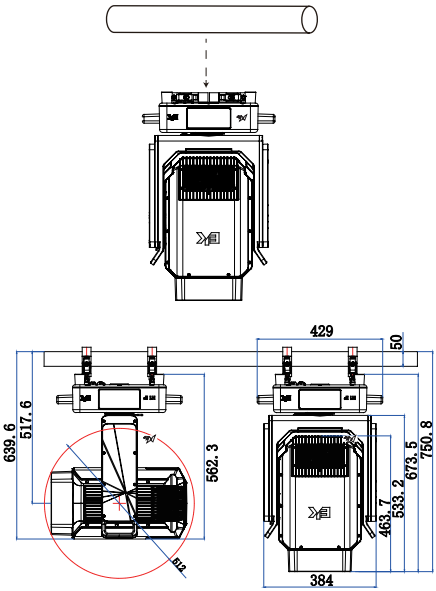
DMX Address code setting

MODE	Allocation	Address of 1st fixture	Address of 2st fixture	Address of 3st fixture	Address of 4st fixture
32CH	001-032	001	033	065	097

(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.

8.INSTALLATION





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 12x the fixture’ s weight to prevent falls if the clamp fails.

5.Operational in two positions: Sit-flat floor mounting and flown mounting.

6.It is IP66（indoor & Outdoor use), ensuring: Dustproof – Prevents significant dust ingress, so that it will not interfere with its normal operation. Waterresistant – Protects against water jets from any direction.

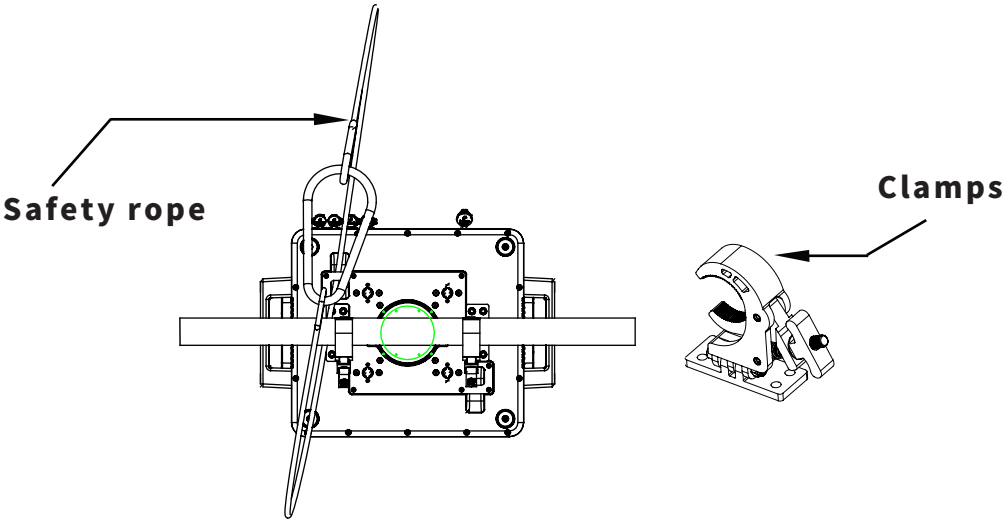
FLOWN MOUNTING

1.When installing the device, be sure to keep it away from flammable items (decorative materials, etc.), keeping a distance of at least 0.5 meters.

2. When hanging, be sure to install a safety rope with a load-bearing capacity of at least 10 times the weight of the lamp.

3.When hanging, the device for fixing the lamp must use a mounting bracket that can bear at least 10 times the weight of the lamp.

4.As shown in the figure, the safety rope needs to pass through the safety rope hole of the lamp and the mounting bracket to ensure that the structure connected to the lamp is firm.



9.MENU

9.1 Menu

NO.	Main Menu	Menu Level 2	Menu Level 3	Menu Level 4	Default
1	CONNECT	DMX Address	001-512		1
2	OPTION	Movement Setting	Pan Reverse	Off	Off
				On	
			Tilt Reverse	Off	Off
				On	
			Encoder Pan/Tilt	Off	
				On	On
		Lamp Setting	Lamp On/Off	Off	
				On	Off
			ECO Mode	Off	
				On	Off
			Lamp On Via DMX	Off	
				On	On
			Safety Black Out	Off	
				On	On
			Shutter On Error	Off	
				On	Off
			Sun protect	Off	
				On	On
		Display Setting	Warn Cue	Off	On
				On	
			Backlight	Off	Off
				On	
			Display Reverse	Off	Off
				On	
				Auto	
			Key Lock	Off	Off
				On	
		Reset Setting	All	No	No
				Yes	
			Pan/Tilt	No	No
				Yes	
			Head	No	No
				Yes	
3	INFORMATION	System Errors			
		Time	Fixture Hours		0~9999H
			Lamp Hours	Reset Go Back	0~9999H
		Lamp Strikes	Lamp Strikes	Reset Go Back	9999
			Success Strikes	Reset Go Back	9999
		System Version	DISP:V1.0		
			CTR1-XY:V1.0		
			CTR2-MOTOR:V1.0		
			CTR3-MOTOR:V1.0		
			CTR4-MOTOR:V1.0		
			CTR5-MOTOR:V1.0		
		UID	030F0D5*****		

9.2 Menu

4	TEST	Channel	Cyan		
			Magenta		
			Yellow		
			CTO		
			Color1		
			Color2		
			Color3		
			Strobe		
			Dimmer		
			Dimmer Fine		
			Fixed Gobo		
			Effect		
			REffect		
			Rotating Gobo		
			Gobo Rotation		
			Gobo Fine		
			4Prism		
			4Prism Rot		
			8Prism		
			8Prism Rot		
			Frost		
			Zoom		
			Focus		
			Focus Fine		
			Beam Mode		
			Pan		
			Pan Fine		
			Tilt		
			Tilt Fine		
			Function		
			Reset		
			Lamp Control		
		AUTO	Pan/Tilt		
			Colour		
			Beam		
			Gobo		
			All		
5	ADVANCED Access Code(50)	Calibration	Pan Offset	0-255	
			Tilt Offset		
			DimmerA Offset		
			DimmerB Offset		
			Cyan Offset		
			Magenta Offset		
			Yellow Offset		
			Cto Offset		
			Color1 Offset		
			Color2 Offset		
			Color3 Offset		
			Gobo1 Offset		
			RGobo1 Offset		
			Gobo2 Offset		
			4 Prism Offset		
			4 RPrism Offset		
			8 Prism Offset		
			8 RPrism Offset		
			Effect Offset		
			Focus Offset		
			Zoom Offset		
			Frost Offset		
			Balance Offset		
		Factory Reset	No		
			Yes		

10.DMX CHART
10.1 DMX CHART

32CH	Function	Value	Details	Remark
1	Cyan	000-255	Cyan 100%-0%	When color 1 = 0, it is valid
2	Magenta	000-255	Magenta 100%-0%	When color 2 = 0, it is valid
3	Yellow	000-255	Yellow 100%-0%	When color 3 = 0, it is valid
4	CTO	000-255	CTO 100%-0%	
5	Color 1	000-023	Open	
		024-046	Open + Color1	
		047-069	Color 1	
		070-092	Color 1 + Color 2	
		093-115	Color 2	
		116-139	Color 2 + Color 3	
		140-162	Color 3	
		163-185	Color 3 + Color 4	
		186-208	Color 4	
		209-231	Color 4 + Color 5	
		232-255	Color 5	
6	Color 2	000-023	Open	
		024-046	Open + Color1	
		047-069	Color 1	
		070-092	Color 1 + Color 2	
		093-115	Color 2	
		116-139	Color 2 + Color 3	
		140-162	Color 3	
		163-185	Color 3 + Color 4	
		186-208	Color 4	
		209-231	Color 4 + Color 5	
		232-255	Color 5	
7	Color 3	000-023	Open	
		024-046	Open + Color1	
		047-069	Color 1	
		070-092	Color 1 + Color 2	
		093-115	Color 2	
		116-139	Color 2 + Color 3	
		140-162	Color 3	
		163-185	Color 3 + Color 4	
		186-208	Color 4	
		209-231	Color 4 + Color 5	
		232-255	Color 5	
8	Strobe	000-003	Closed	
		004-103	Slow to Fast Strobe	
		104-107	Open	
		108-207	Fast closed slow open	
		208-212	Open	
		213-251	Random Strobe	
		252-255	Open	
9	Dimmer	000-255	Dimmer 0%-100%	
10	Dimmer Fine	000-255	Dimmer Fine	
11	Fixed Gobo	000-003	White	
		004-007	Gobo1	
		008-010	Gobo2	
		011-014	Gobo3	
		015-017	Gobo4	
		018-021	Gobo5	
		022-025	Gobo6	
		026-028	Gobo7	
		029-032	Gobo8	
		033-035	Gobo9	

10.2 DMX Chart

11	Fixed Gobo	036-039	Gobo10	
		040-043	Gobo11	
		044-046	Gobo12	
		047-050	Gobo13	
		051-053	Gobo14	
		054-057	Gobo15	
		058-061	Gobo16	
		062-064	Gobo17	
		065-068	Gobo18	
		069-071	Gobo19	
		072-113	Fast to Slow(Revers Spin)	
		114-118	Slow(Slow Rotation)	
		119-160	Slow to Fast(Forward Spin)	
		161-165	Gobo1 Shaking Slow to Fast	
		166-170	Gobo2 Shaking Slow to Fast	
		171-175	Gobo3 Shaking Slow to Fast	
		176-180	Gobo4 Shaking Slow to Fast	
		181-185	Gobo5 Shaking Slow to Fast	
		186-190	Gobo6 Shaking Slow to Fast	
		191-195	Gobo7 Shaking Slow to Fast	
		196-200	Gobo8 Shaking Slow to Fast	
		201-205	Gobo9 Shaking Slow to Fast	
		206-210	Gobo10 Shaking Slow to Fast	
		211-215	Gobo11 Shaking Slow to Fast	
		216-220	Gobo12 Shaking Slow to Fast	
		221-225	Gobo13 Shaking Slow to Fast	
		226-230	Gobo14 Shaking Slow to Fast	
		231-235	Gobo15 Shaking Slow to Fast	
		236-240	Gobo16 Shaking Slow to Fast	
		241-245	Gobo17 Shaking Slow to Fast	
		246-250	Gobo18 Shaking Slow to Fast	
		251-255	Gobo19 Shaking Slow to Fast	
12	Effect	000-127	Effect out	
		128-255	Effect insert	
13	REffect	000-003	Stop (Stop Rotation)	
		004-127	Slow to Fast(Forward Spin)	
		128-132	Stop (Stop Rotation)	
		133-255	Slow to Fast(Revers Spin)	
14	Rot.Gobo	000-007	White	
		008-015	Gobo1	
		016-023	Gobo2	
		024-031	Gobo3	
		032-039	Gobo4	
		040-047	Gobo5	
		048-055	Gobo6	
		056-063	Gobo7	
		064-071	Gobo8	
		072-113	Fast to Slow(Revers Spin)	
		114-117	Stop (Stop Rotation)	
		118-159	Slow to Fast(Forward Spin)	
		160-171	Gobo1 Shaking Slow to Fast	
		172-183	Gobo2 Shaking Slow to Fast	
		184-195	Gobo3 Shaking Slow to Fast	
		196-207	Gobo4 Shaking Slow to Fast	
		208-219	Gobo5 Shaking Slow to Fast	
		220-231	Gobo6 Shaking Slow to Fast	
		232-243	Gobo7 Shaking Slow to Fast	
		244-255	Gobo8 Shaking Slow to Fast	

10.3 DMX Chart

15	Gobo Rot	000-127	0 - 540 Position	
		128-190	Fast to Slow(Forward Spin)	
		191-192	Stop (Stop Rotation)	
		193-255	Slow to Fast(Revers Spin)	
16	Gobo Rot Fine	000-255	Gobo Rot Fine adjustment	
17	4 Prism	000-127	4 Prism Out	
		128-255	4 Prism into the light beam	
18	4 Prism Rot	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	8 Prism	000-127	8 Prism Out	
		128-255	8 Prism into the light beam	
20	8 Prism Rot	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	000-255	Frost moves linearly into the light beam	
22	Zoom	000-255	Wide Beam-Narrow Beam	
23	Focus	000-255	Distant-Near	
24	Focus Fine	000-255	Focus Fine	
25	Beam	000-127	Spot mode	
		128-255	Beam Mode	
26	Pan	000-255	Pan 0 - 540 Position	
27	Pan Fine	000-255	Pan Fine	
28	Tilt	000-255	Tilt 0 - 540 Position	
29	Tilt Fine	000-255	Tilt Fine	
30	Function	000-110	No Function	
		111-120	Pan/Tilt Slow Speed (Hold 3S)	
		121-130	Pan/Tilt Medium Speed (Hold 3S)	
		131-140	Pan/Tilt Fast Speed (Hold 3S) (Default)	
		141-255	No Function	
31	Reset	000-025	Unused Range	
		026-076	Effects Reset (Hold 5S)	
		077-127	Pan/Tilt Reset (Hold 5S)	
		128-255	Complete Reset (Hold 5S)	
32	Lamp	000-025	No Function	
		026-100	Lamp Off (Hold 3S)	
		101-255	Lamp On (Hold 3S)	

11.ERRORS

Error Info	
1	CTR1-XY Error
2	CTR2-MOTOR Error
3	CTR3-MOTOR Error
4	CTR4-MOTOR Error
5	CTR5-MOTOR Error
6	NET Error
7	Pan Sensor Error
8	Pan Encode Error
9	Tilt Sensor Error
10	Tilt Encode Error
11	Gobo1 Reset Fail
12	RGobo1 Reset Fail
13	Gobo2 Reset Fail
14	Effect Reset Fail
15	Cyan Reset Fail
16	Magenta Reset Fail
17	Yellow Reset Fail
18	8Prism Reset Fail
19	8RPrism Reset Fail
20	4Prism Reset Fail
21	4RPrism Reset Fail
22	Focus Reset Fail
23	Zoom Reset Fail
24	Frost Reset Fail
25	Blance Reset Fail
26	Temperature Error
27	6023 FanA Error
28	6023 FanB Error
29	8015 FanA Error
30	8015 FanB Error
31	9225 FanA Error
32	9225 FanB Error
33	Lamp Startup Fail
34	Gravity Error
35	All TimeOut
36	Lamp Driver Error
37	Lamp over voltage
38	Input voltage too high
39	Temperature too high
40	Asymmetry detected
41	Lamp under voltage
42	Input voltage too low
43	NTC defective
44	Other fault modes

12.TROUBLESHOOTING

Fault phenomenon	Fault cause	Handling method
No menu displayed	1.No AC input 2.Power supply failure 3.Display panel failure	1.Check the power supply circuit 2.Check the switching power supply for voltage output 3.Replace the display panel
Unable to receive DMX signal	1.DMX signal line failure 2.The signal line wiring sequence is wrong 3.The signal input receiving signal IC is damaged 4.The DMX address code setting does not match the control corresponding to the console 5.Other parameter settings are incorrect 6.After entering the menu, exit to the main menu without pressing the confirm button or MENU button	1.Check or replace the signal cable 2.Check wiring sequence of signal lines 3.Check if display panel signal receiving IC and two resistors in series on signal line are open. 4.Check or reset address code or restore to factory settings and try again 5.Press MENU to exit to main menu
The surface temperature of lamp body exceeds 75° ,temperature control protection cannot be performed	1. Thermistor on LED bead board is faulty 2. Faulty temperature control circuit on display panel	1. Replace the thermistor 2. Check temperature control circuit on mainboradboard
Uneven light color mixing	1.Improper LED soldering 2.The lens or bracket is not installed properly	1.Check welding condition of LED beads 2.Check lens assembly process and adjust bracket assembly directio
The light has a color cast (reddish, greenish or bluish)	1.The current of one set of LED colors is too large or too small 2.Improper RGBW color mixing white balance setting	1.Check driving current of the corresponding color group of the driver board 2.Reset or restore factory settings 3.Replace the corresponding IC
The lamp is not lit or flickers slightly	1.LED is damaged or driver board has no current output	1.Replace LED lamp beads 2.Replace damaged LED or check driver board circuit 3.Replace the corresponding driver IC
Parameters are not saved	The IC used to store parameters is damaged	Replace the memory IC
The whole lamp does not work when powered on	When temperature is too high, temperature control protection causes the switching power supply over-temperature protection to not work	Wait until the lamp cools down before turning it on again

13. MAINTENANCE

1.Regular cleaning is very important to life and performance of lamp. The accumulation of dust, dirt, smoke particles, atomized liquid residue, etc. will reduce the light output and heat dissipation ability of lamp.
2.The cleaning time of lamps varies greatly depending on the operating environment, so it is impossible to specify a precise cleaning interval for lamps.

Environmental factors that may require more frequent cleaning include:
Use a fogger or mist machine.
High air flow rates (for example, near air conditioning vents).
Airborne dust (e.g. from stage effects, building structures and decorations, or the natural environment at outdoor events).
If one or more of these factors are present, check the fixture for cleaning needs within the first few hours of operation. Continue checking the fixture frequently thereafter. This process will enable you to assess the need for cleaning in your specific situation.

When cleaning lamps, pay attention to the following points:
Do this in a clean, dry, well-lit area.
Only wipe gently. We recommend using a soft, lint-free cloth with water or a mild detergent solution. Do not use alcohol, solvents, or abrasives under any circumstances! Be extremely careful when cleaning optical components: their surfaces are fragile and easily scratched.

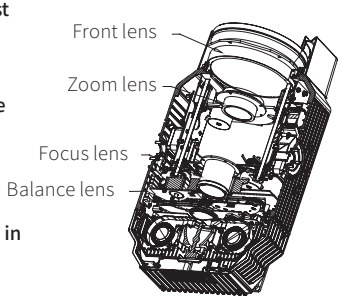
CLEANING PROCESS

Warning Disconnect the power supply before opening any covers

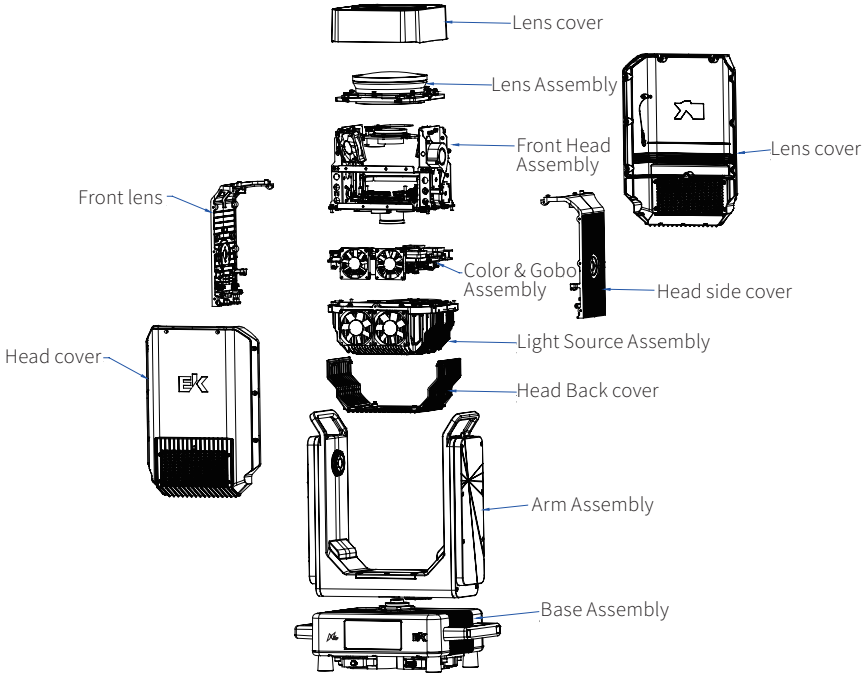
Wipe optical components gently; the coating surface is very brittle and easily scratched. Do not use aggressive solvents that may damage the plastic or coating surface.

Cleaning optics:

1.After power off, cool thoroughly and open the lid.
2.Use a vacuum cleaner or pressure blower to gently blow away dust and floating objects
3.Use unscented tissue paper or cotton cloth soaked in clean or distilled water to wipe off the particles. Do not wipe the surface. Use pressurized air to blow away floating objects.
4.Use cotton cloth soaked in ethyl propylene glycol or unscented tissue paper to remove smoke and residue. You can also use glass cleaner, but the residue must be removed with distilled water. Wipe in circles from the center to the sides, then wipe dry with a soft cotton cloth.
5.Clean the fan and air vents. Use a soft brush, tissue paper, air vacuum cleaner or pressure blower to remove dust from the fan and air vents.



14. EXPLODED VIEW



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