

# BILLY THE KID

USER MANUAL

## MAINTENANCE

### MAINTENANCE AND CLEANING THE UNIT

- Make sure the area below the installation place is free from unwanted person during setup.
- Switch off the unit,unplug the main cable and wait till the unit has cooled down.
- All screws used for installing the device and any of its parts should be tightly fastened and should not be corroded.
- Housings,fixations and installation spots (ceiling,trusses,suspensions) should be totally free from any deformation.
- The main cables must be in impeccable condition and should be replaced immediately even when a small problem is detected.
- It is recommended to clean the front at regular intervals,from impurities caused by dust,smoke,or other particles to ensure that the ligh is radiated at maximum brightness.For cleaning,disconnect the main plug from the socket.Use a soft,clear cloth moistened with a mild detergent.Then carefully wipe the parts dry. For cleaning other housing parts use only a soft,clear cloth.Never use a liquid,it might pernetrate the unit and cause damage to it.

### FUSE REPLACEMENT

- 1.Disconnect this product from the power outlet.
- 2.Using a screwdriver,unscrew the fuse holder cap from the housing.
- 3.Remove the blown fuse and replace with a good fuse of the same type and rating.
- 4.Screw the fuse holder cap back in place and reconnect power.



## TROUBLESHOOTING

Problems	Possible causes	Checks and remedies
Fixture does not light up	<ul style="list-style-type: none"> <li>• No mains supply</li> <li>• Dimmer fader set to 0</li> <li>• Faulty LED</li> <li>• Faulty LED board</li> </ul>	<ul style="list-style-type: none"> <li>• Check the power supply voltage</li> <li>• Increase the value of the dimmer channels</li> <li>• Replace the LED board</li> <li>• Replace the LED board</li> </ul>
General low light intensity	<ul style="list-style-type: none"> <li>• Dirty lens assembly</li> <li>• Misaligned lens assembly</li> </ul>	<ul style="list-style-type: none"> <li>• Clean the fixture regularly</li> <li>• Install lens assembly properly</li> </ul>
Fixture does not power up	<ul style="list-style-type: none"> <li>• No power</li> <li>• Loose or damaged power cord</li> <li>• Faulty internal power supply</li> </ul>	<ul style="list-style-type: none"> <li>• Check for power on power outlet</li> <li>• Check power cord</li> <li>• Replace internal power supply</li> </ul>

Contact an authorized service center in case of technical problems or not reported in the above table cannot be resolved by the procedure given in the table.

17	P/T Speed	000-255	Fast to slow	
18	Reset	000-025	No function	
		026-076	Effects Reset (Hold 3S)	
		077-127	Pan/Tilt Reset (Hold 3S)	
		128-255	Complete Reset (Hold 3S)	
19	Lamp Control	000-025	No Function	
		026-100	Lamp Off (Hold 3S)	
		101-255	Lamp On (Hold 3S)	

CONTENTS

SAFETY	01
INTRODUCTION	02
PHOTOMETRICS	03
COLORS & GOBOS	04
DIMENSION	05
OVERVIEW	06
INSTALLATION	07
CONNECTION	08
MENU	10
DMX CHARTS	12
MAINTENANCE	16

## SAFETY



WARNING! Before carrying out any operations with the unit, carefully read this instruction manual and keep it with care for future reference. It contains important information about the installation, user and maintenance of the unit.



### General instruction

- The products referred to in this manual conform to the European Community Directives and are therefore marked with CE.
- The unit is supplied with hazardous network voltage (230V~). Leave serving to skilled personnel only. Never make any modifications on the unit not described in this instruction manual, otherwise you will risk an electric shock.
- Connection must be made to power supply system fitted with efficient earthing (Class I appliance according to standard EN60598-1). It is moreover, recommended to protect the supply lines of the units from indirect contact and/or shorting to earth by using appropriately sized residual current devices.
- The connection to the main network of electric distribution must be carried out by a qualified electrical installer. Check that the main frequency and voltage correspond to those for which the unit is designed as given on the electrical data table.
- This unit is not for home use, only professional applications.
- Never use the fixture under the following conditions:
  - in places subject to vibrations or bumps;
  - in places with a temperature of over 40 °C.
- Make certain that no inflammable liquids, water or metal objects enter the fixture,
- Do not dismantle or modify the fixture.
- All work must always be carried out by qualified technical personnel. Contact the nearest sales point for an inspection or contact the manufacturer directly.
- If the unit is to be put out of operation definitively, take it to a local recycling plant for a disposal which is not harmful to the environment.



### Warnings and installation precautions

- If this device will be operated in any way different to the one described in this manual, it may suffer damage and the guarantee becomes void. Furthermore, any operation may lead to dangers like short circuit, burns, electric shock, etc.
- Before starting any maintenance work or cleaning the fixture, cut power from the main supply.
- Always additionally secure the fixture with the safety rope. When carrying out any work, always comply scrupulously with all the regulations (particularly regarding safety) currently in force in the country in which the fixture's being used.
- Install the fixture in a well ventilated place.
- Keep any inflammable materials at a safe distance from the fixture.
- Shields, lenses or ultraviolet screens shall be changed if they have become damaged to such an extent that their effectiveness is impaired.
- The lamp (LED) shall be changed if it has become damaged or thermally deformed.
- Never look directly at the light beam. Please note that fast changes in lighting, e.g. flashing light, may trigger epileptic seizures in photosensitive persons or persons with epilepsy.
- Do not touch the product's housing when operating because it may be very hot.

5	Fixed Gobo	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	
6	8-facet Prism Insertion	000-127	8-facet Prism out	
		128-255	Prism insertion	
7	8-facet Prism Rotation	000-127	0-540° position	
		128-190	Fast to Slow(Forward Spin)	
		191-192	Stop	
		193-255	Slow to Fast(Reverse Spin)	
8	24-facet Prism Insertion	000-127	8 prism out	
		128-255	24-facet Prism out	
9	24-facet Prism Rotation	000-127	0-540° position	
		128-190	Fast to Slow(Forward Spin)	
		191-192	Stop	
		193-255	Slow to Fast(Reverse Spin)	
10	Frost	000-128	Frost out	
		128-255	Frost insertion	
11	Focus	000-255	Focus 0-100%	
12	Focus Fine	000-255	Focus fine	
13	Pan	000-255	pan 540°	
14	Pan Fine	000-255	Pan fine adjustment	
15	Tilt	000-255	Tilt 270°	
16	Tilt Fine	000-255	Tilt fine adjustment	

2	Strobe	000-003	closed	
		004-103	Slow to Fast Strobe	
		104-107	open	
		108-207	Fast Close Slow Open	
		208-212	open	
		213-251	Random Strobe	
		252-255	open	
3	Dimmer	000-255	dimmer 0%-100%	
4	Dimmer Fine	000-255	dimmer fine	
5	Fixed Gobo	000-003	white	
		004-007	Gobo 1	
		008-010	Gobo 2	
		011-014	Gobo 3	
		015-017	Gobo 4	
		018-021	Gobo 5	
		022-024	Gobo 6	
		025-028	Gobo 7	
		029-031	Gobo 8	
		032-035	Gobo 9	
		036-039	Gobo 10	
		040-042	Gobo 11	
		043-046	Gobo 12	
		047-049	Gobo 13	
		050-053	Gobo 14	
		054-056	Gobo 15	
		057-060	Gobo 16	
		061-063	Gobo 17	
		064-067	Gobo 18	
		068-071	Gobo 19	
		072-113	Fast to Slow(Reverse Spin)	
		114-117	Stop	
		118-159	Slow to Fast(Forward Spin)	
		160-165	Gobo1 Shaking Slow to Fast	
		166-170	Gobo2 Shaking Slow to Fast	
		171-175	Gobo3 Shaking Slow to Fast	

## INTRODUCTION

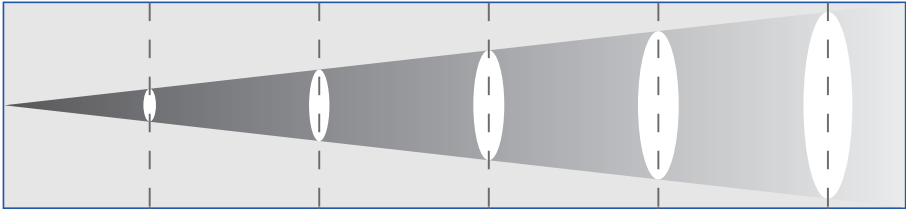
- IP66 tour-graded construction suitable for full-weather applications
- Up to 292500 Lux at 20 meters
- Features 200mm front lens and 1.3° narrow beam
- angle to produce a solid, parallel, sharp beam projection
- Extremely even spot with flawless field consistency
- 1 fixed gobo wheel (19 + open)
- Faster rotation, accurate positioning
- Bi-directional 8-facet and 24-facet prism
- DMX 512

## SPECIFICATION

Light Source:	CW , MSD silver 420W LL , 7800K
Color Temperature:	6600K±500K
Output(lux):	292500LUX@20m, 130000Lux@30m
Lamp Life:	3000hrs
Beam Angle:	1.3°
Pan Movement:	540°
Tilt Movement:	270°
Color Mixing:	Color Wheel(14+open)
Static Gobos:	19+open
Focus:	Motorized focus
Frost:	glass frost lens
Strobe:	0~9Hz
Dimmer:	0~100% linear frost
Prism:	8-facet prism and 24-facet prism
Protocol:	DMX512
DMX Channels:	19ch
Display:	TFT display
Mains:	AC 200-240VAC ,50~60HZ
Consumption:	Dynamic: 515W/230V ; Static: 467W/230V
Housing:	Die-cast magnesium
IP Rating:	IP66
Ambient:	0℃ ~ 45℃
Cooling:	Noiseless fan
Dimension:	263*455*703mm
Weight:	32KG

PHOTOMETRICS

Beam Angle 1.3°



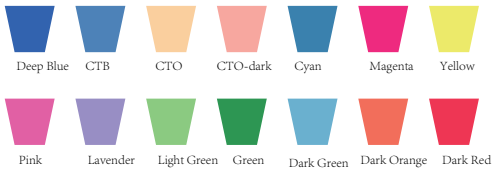
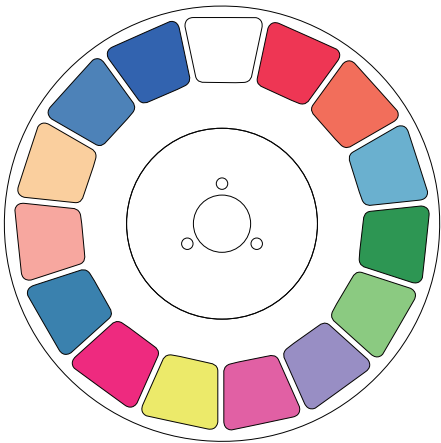
distance(m)	15	20	25	30	50
lux	520000	292500	187200	130000	46800
diameter (m)	0.4	0.51	0.63	0.76	1.31

DMX Chart

19CH Mode				
DMX	Function	Value	Setting	Remark
1	Color	000-004	Open	
		005-008	Open+Color1	
		009-012	Color 1	
		013-016	Color 1 + Color 2	
		017-021	Color 2	
		022-025	Color 2 + Color 3	
		026-029	Color 3	
		030-033	Color 3 + Color 4	
		034-038	Color 4	
		039-042	Color 4 + Color 5	
		043-046	Color 5	
		047-050	Color 5 + Color 6	
		051-055	Color 6	
		056-059	Color 6 + Color 7	
		060-063	Color 7	
		064-067	Color 7 + Color 8	
		068-071	Color 8	
		072-076	Color 8 + Color 9	
		077-080	Color 9	
		081-084	Color 9 + Color 10	
		085-088	Color 10	
		089-093	Color 10 + Color 11	
		094-097	Color 11	
		098-101	Color 11 + Color 12	
		102-105	Color 12	
		106-110	Color 12 + Color 13	
		111-114	Color 13	
		115-118	Color 13 + Color 14	
		119-122	Color 14	
		123-127	Color 14 + OPEN	
		128-192	Fast to Slow(CW)	
		193-255	Slow to Fast(FW)	

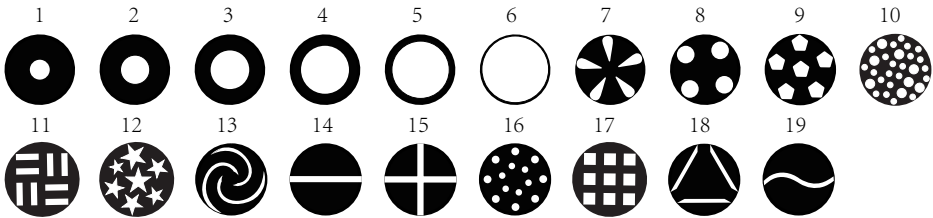
4	TEST		Color		
			Strobe		
			Dimmer		
			Dimmer Fine		
			Fixed Gobo		
			8PrismInsertion		
			8Prism Rotation		
			24PrismInsertion		
			24Prism Rotation		
			Frost		
			Focus		
			Focus Fine		
			Pan		
			Pan Fine		
			Tile		
			Tile Fine		
			Reset		
			Lamp Control		
		AUTO	Pan/Tilt		
			Colour		
			Beam		
			Gobo		
			All		
5	ADVANCED Access Code(50)	Calibration	Pan Offset	0-255	
			Tilt Offset		
			DimmerA Offset		
			DimmerB Offset		
			Color Offset		
			Gobo2 Offset		
			8 Prism Offset		
			8 RPrism Offset		
			24 Prism Offset		
			24 RPrism Offset		
			Focus Offset		
			Frost Offset		
		Factory Reset	No		
			Yes		

COLORS & GOBOS

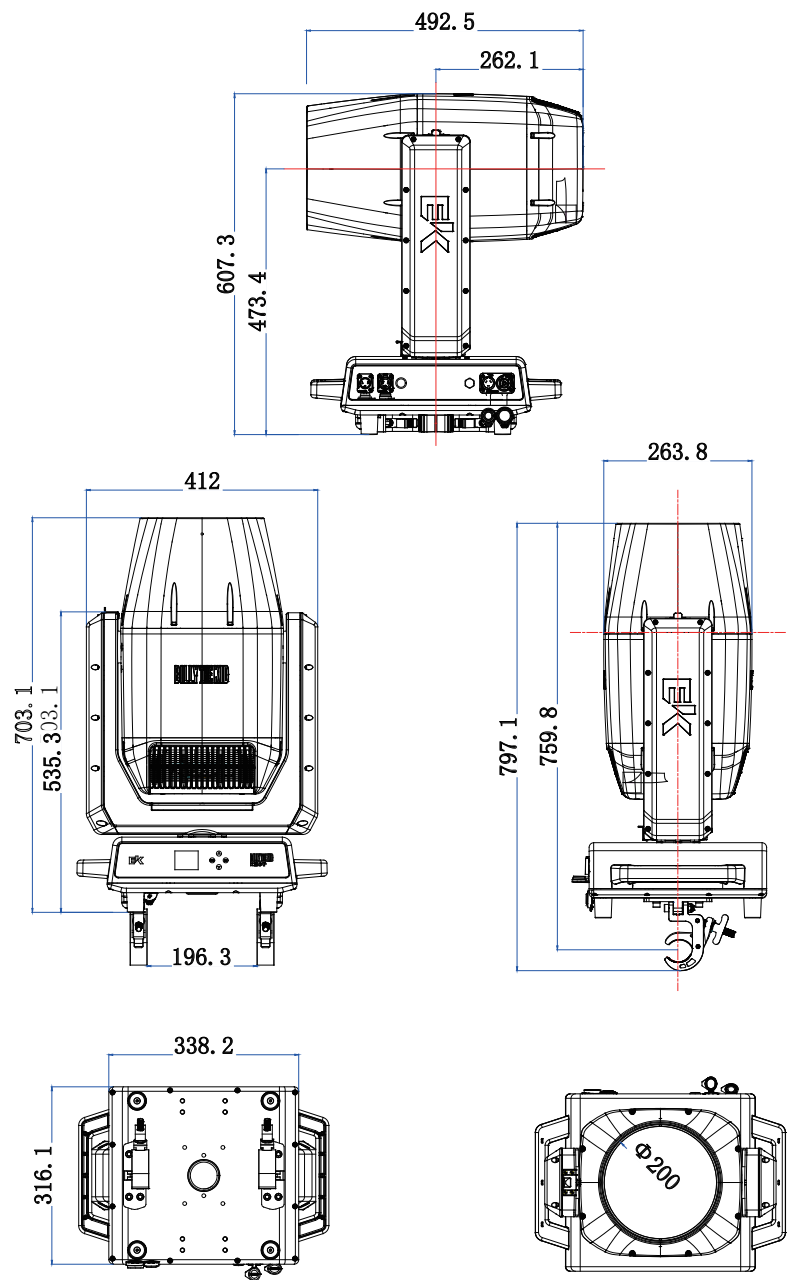


Color wheel

Static Gobos



DIMENSION



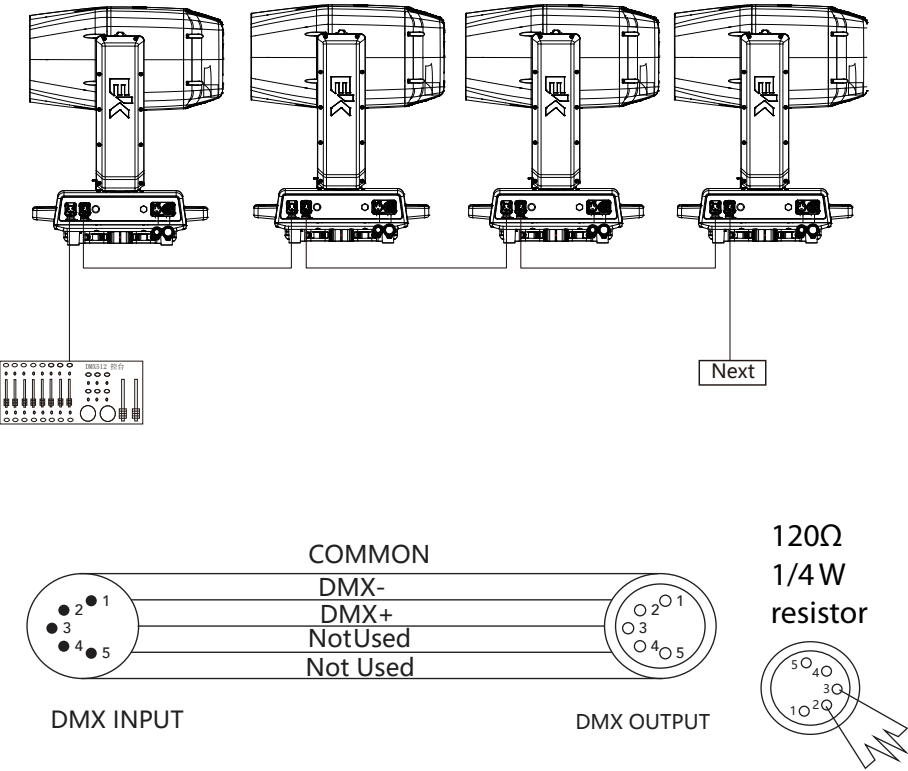
MENU

NO.	Main Menu	Submenu 2	Submenu 3	Submenu 4	Remark
1	SETUP	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
			Lamp On Via DMX	Off	
				On	On
			Safety Black Out	Off	
				On	On
				Off	
			Shutter On Error	On	Off
		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			No
		Time	Fixture Hours	0~9999H	No
			Lamp Hours	0~9999H	No
		Lamp Strikes	Lamp Strikes	9999	No
			Success Strikes	9999	No
		System Version	DISP:V1.0		No
			CTR1-XY:V1.0		No
			CTR2-MOTOR:V1.0		No
			CTR3-MOTOR:V1.0		No
			CTR4-MOTOR:V1.0		No
			UID	030F0BE*****	No



CONNECTIONS

DMX CONNECTION

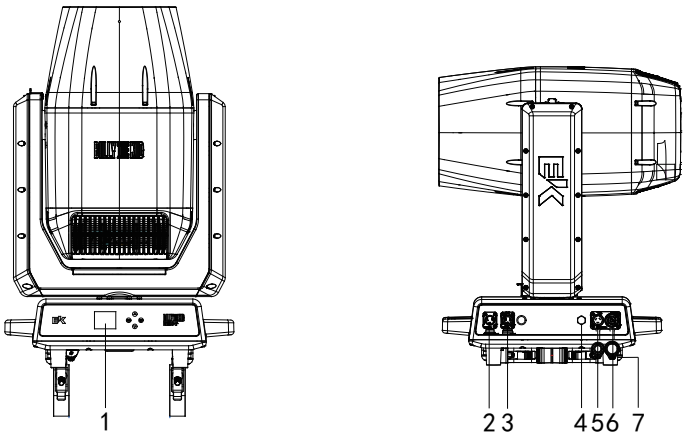


Relation between DMX and Address

MODE	ALLOCATION	START ADDRESS 1ST FIXTURE	START ADDRESS 2ND FIXTURE	START ADDRESS 3RD FIXTURE	START ADDRESS 4TH FIXTURE
19CH	001 -019	001	020	039	058

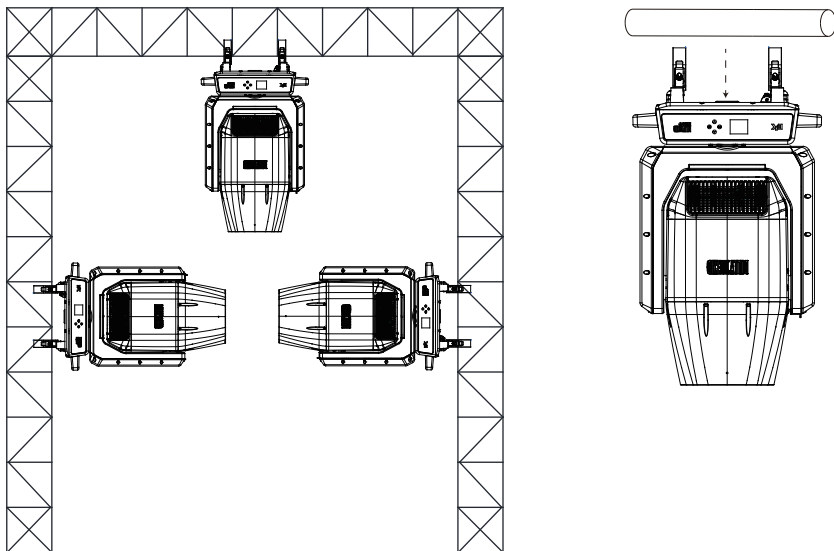
Follow above method for subsequent fixtures, calculating starting addressed as indicated.

OVERVIEW



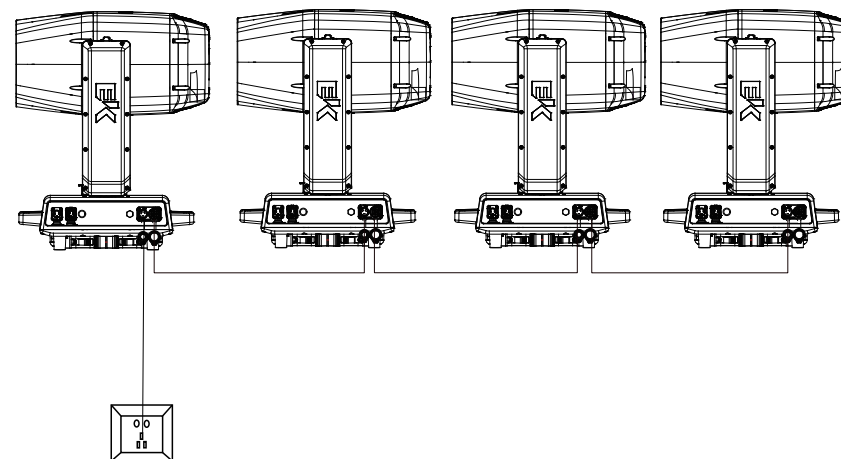
MODE	ILLUSTRATION	DESCRIPTION	EFFECT
MENU	MENU OPTION	ENTER MENU	MENU OPERATION
UP	UP	SCROLL UP	INCREASE NUMERIC VALUE
DOWN	DOWN	SCROLL DOWN	DECREASE NUMERIC VALUE
ENTER	CONFIRM	CONFIRM	SAVE SETTING

## INSTALLATION



The fixture may be set up on a solid and even surface. By means of the fixing facilities of the baseplate, the unit can also be mounted on a truss system or horizontally to the wall or ceiling. For fixing, stable mounting clips are required. The bolts of the brackets are placed into the openings provided in the base plate and turned clockwise until they lock (to the stop). Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. The mounting place must be of sufficient stability and be able to support a weight of 10 times of the unit's weight. When carrying out any installation, always comply scrupulously with all the regulations (particularly regarding safety) currently in force in the country in which the fixture's being used. Always additionally secure the projector with the safety rope from falling down. For this purpose, fasten the safety rope at a suitable position so that the maximum fall of the projector will be 20 cm.

## POWER CONNECTION



Power In

· Attention: due to power rating, one 1.5mm power cable can connect 4 units maximum



WARNING

Do not connect more than **4 units** in series with one power cable  
Do not use damaged power cable  
Disconnect the fixture from the mains when not in use