

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 light is radiated at maximum brightness.For cleaning,disconnect the main plug from the socket.Use a soft,clean cloth moistened with a mild detergent.Then carefully wipe the parts dry. For cleaning other housing parts use only a soft,clean cloth.Never use a liquid,it might penetrate the unit and cause damage to it.

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

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.

| | | | | |
|----|--------------|---------|--------------------------|--|
| 18 | Reset | 000-025 | No Function | |
| | | 026-076 | Effect 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) | |

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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 | 196-200 | Gobo 8 shaking slow to fast | |
| | | 201-205 | Gobo 9 shaking slow to fast | |
| | | 206-210 | Gobo 10 shaking slow to fast | |
| | | 211-215 | Gobo 11 shaking slow to fast | |
| | | 216-220 | Gobo 12 shaking slow to fast | |
| | | 221-225 | Gobo 13 shaking slow to fast | |
| | | 226-230 | Gobo 14 shaking slow to fast | |
| | | 231-235 | Gobo 15 shaking slow to fast | |
| | | 236-240 | Gobo 16 shaking slow to fast | |
| | | 241-245 | Gobo 17 shaking slow to fast | |
| | | 246-250 | Gobo 18 shaking slow to fast | |
| | | 251-255 | Gobo 19 shaking slow to fast | |
| 6 | 8-facet prism insertion | 000-127 | 8-facet prism out | 8-facet prism |
| | | 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 | 24-facet prism out | 24-facet prism |
| | | 128-255 | prism insertion | |
| 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 | |
| 17 | P/T Speed | 000-255 | Fast to Slow | |

| | | | | |
|---|-------------|---------|-----------------------------|--|
| 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 | dimer 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 | Gobo 1 shaking slow to fast | |
| | | 166-170 | Gobo 2 shaking slow to fast | |
| | | 171-175 | Gobo 3 shaking slow to fast | |
| | | 176-180 | Gobo 4 shaking slow to fast | |
| | | 181-185 | Gobo 5 shaking slow to fast | |
| | | 186-190 | Gobo 6 shaking slow to fast | |
| | | 191-195 | Gobo 7 shaking slow to fast | |

INTRODUCTION

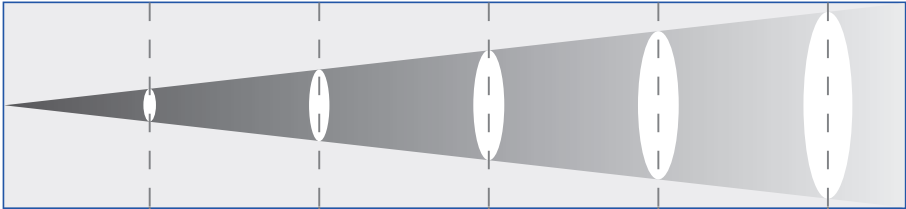
- IP66 tour-graded construction suitable for full-weather applications
- Up to 292500 Lux at 20 meters
- Features 200mm front lens and 1.3° narrow beam
- angle to produce a solid, parallel, sharp beam projection
- Extremely even spot with flawless field consistency
- 1 fixed gobo wheel (19 + open)
- 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: | CMY+Color Wheel(15+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: | 24CH |
| Display: | TFT display |
| Mains: | AC 200-240VAC, 50~60HZ |
| Consumption: | Dynamic: 630W/230V; Static: 528W/230V |
| Housing: | Die-cast magnesium |
| IP Rating: | IP66 |
| Ambient: | 0℃ ~ 45℃ |
| Cooling: | Noiseless fan |
| Dimension: | 263*455*703mm |
| Weight: | 32.7KG |

PHOTOMETRICS

Beam Angle 1.3°



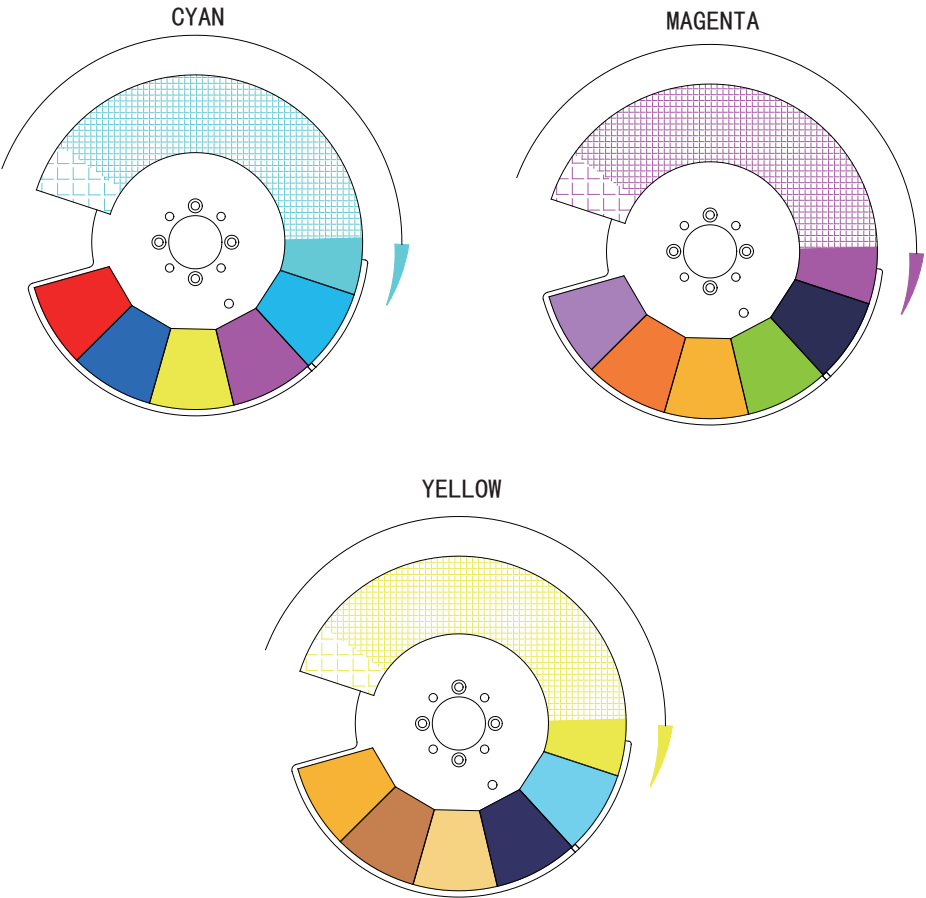
| | | | | | |
|--------------|--------|--------|--------|--------|-------|
| distance(m) | 15 | 20 | 25 | 30 | 50 |
| lux | 520000 | 292500 | 187200 | 130000 | 46800 |
| diameter (m) | 0.4 | 0.51 | 0.63 | 0.76 | 1.31 |

DMX Chart

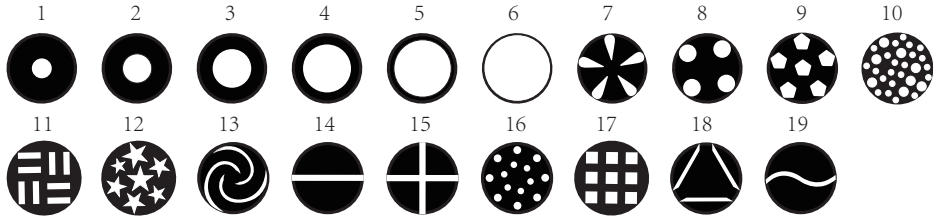
| 24CH Mode | | | | |
|-----------|----------|---------|--------------------------|-----------------------------|
| DMX | Function | Value | Setting | Remark |
| 1 | Color | 000-255 | Cyan 100%-0% | Valid only when color 1 = 0 |
| | | 000-255 | Magenta 100%-0% | Valid only when color 2 = 0 |
| | | 000-255 | Yellow 100%-0% | Valid only when color 3 = 0 |
| | | 000-023 | Open | color wheel 1 |
| | | 024-046 | Open + Blue Wood | |
| | | 047-069 | Blue Wood | |
| | | 070-092 | Blue Wood + Lavender | |
| | | 093-115 | Lavender | |
| | | 116-139 | Lavender+CTO 3200K | |
| | | 140-162 | CTO 3200K | |
| | | 163-185 | CTO 3200K+CTO 2500K | |
| | | 186-208 | CTO 2500K | |
| | | 209-231 | CTO 2500K+UV | |
| | | 232-255 | UV | |
| | | 000-023 | Open | color wheel 2 |
| | | 024-046 | Open+Dark green | |
| | | 047-069 | Dark green | |
| | | 070-092 | Dark green+CTB | |
| | | 093-115 | CTB | |
| | | 116-139 | CTB+Dark Blue | |
| | | 140-162 | Dark Blue | |
| | | 163-185 | Dark Blue+H.M.Green | |
| | | 186-208 | H.M.Green | |
| | | 209-231 | H.M.Green+Dark Red | |
| | | 232-255 | Dark Red | |
| | | 000-023 | Open | color wheel 3 |
| | | 024-046 | Open+ Light green | |
| | | 047-069 | Light green | |
| | | 070-092 | Light green+ Pink | |
| | | 093-115 | Pink | |
| | | 116-139 | Pink+Aquamarie | |
| | | 140-162 | Aquamarie | |
| | | 163-185 | Aquamarie+Dark Orange | |
| | | 186-208 | Dark Orange | |
| | | 209-231 | Dark Orange+Light Orange | |
| | | 232-255 | Light Orange | |

| | | | | | |
|---|--------------------------------|---------------|------------------|-------|--|
| | | | Cyan | | |
| | | | Mega | | |
| | | | Yellow | | |
| | | | Color1 | | |
| | | | Color2 | | |
| | | | Color3 | | |
| | | | Strobe | | |
| | | | Dimmer | | |
| | | | Dimmer Fine | | |
| | | | Fixed Gobo | | |
| | | | 8PrismInsertion | | |
| | | | 8Prism Rotation | | |
| | | | 24PrismInsertion | | |
| | | | 24Prism Rotation | | |
| | | | Frost | | |
| | | | Focus | | |
| | | | Focus Fine | | |
| | | | Pan | | |
| | | | Pan Fine | | |
| | | | Tile | | |
| | | | Tile 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 | | |
| | | | Color Offset | | |
| | | | Gobo2 Offset | | |
| | | | 8 Prism Offset | | |
| | | | 8 RPrism Offset | | |
| | | | 24 Prism Offset | | |
| | | | 24 RPrism Offset | | |
| | | | Focus Offset | | |
| | | | Frost Offset | | |
| | | Factory Reset | No | | |
| | | | Yes | | |

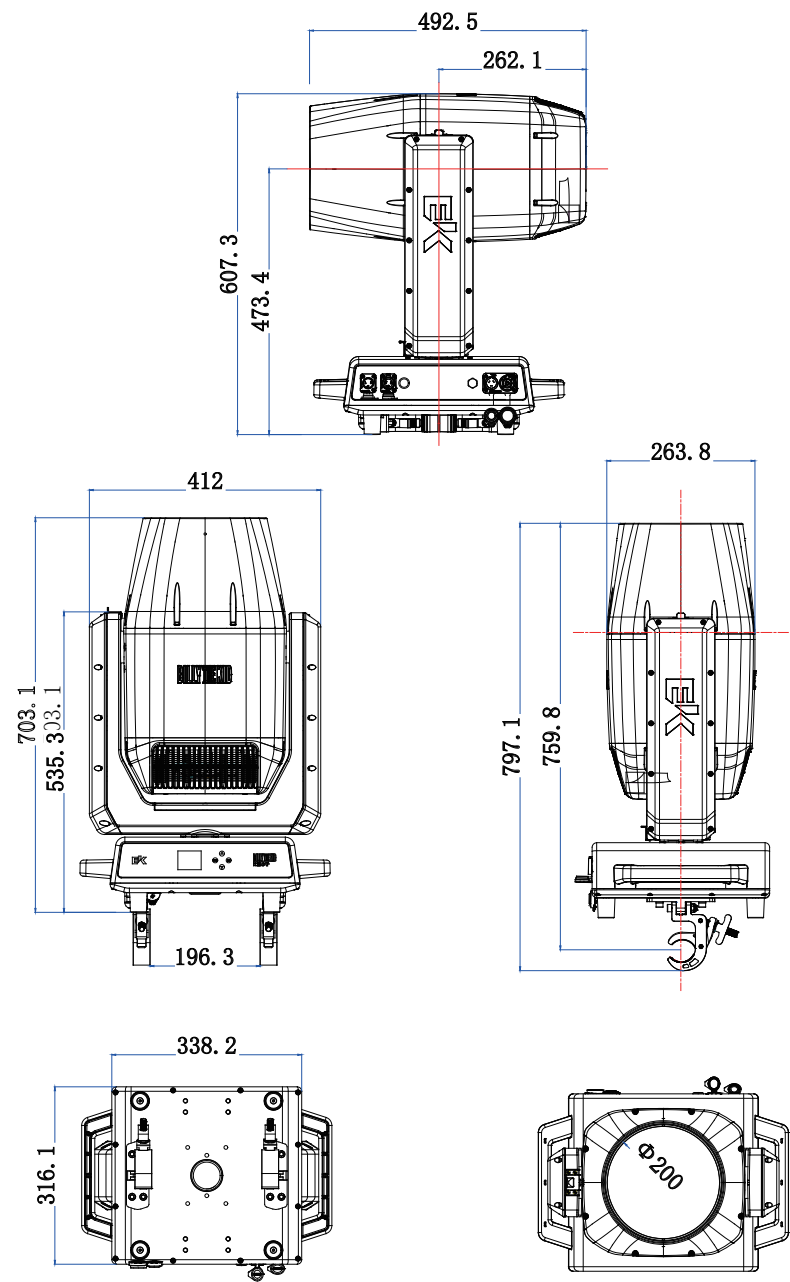
COLORS & GOBOS



Static Gobos



DIMENSION

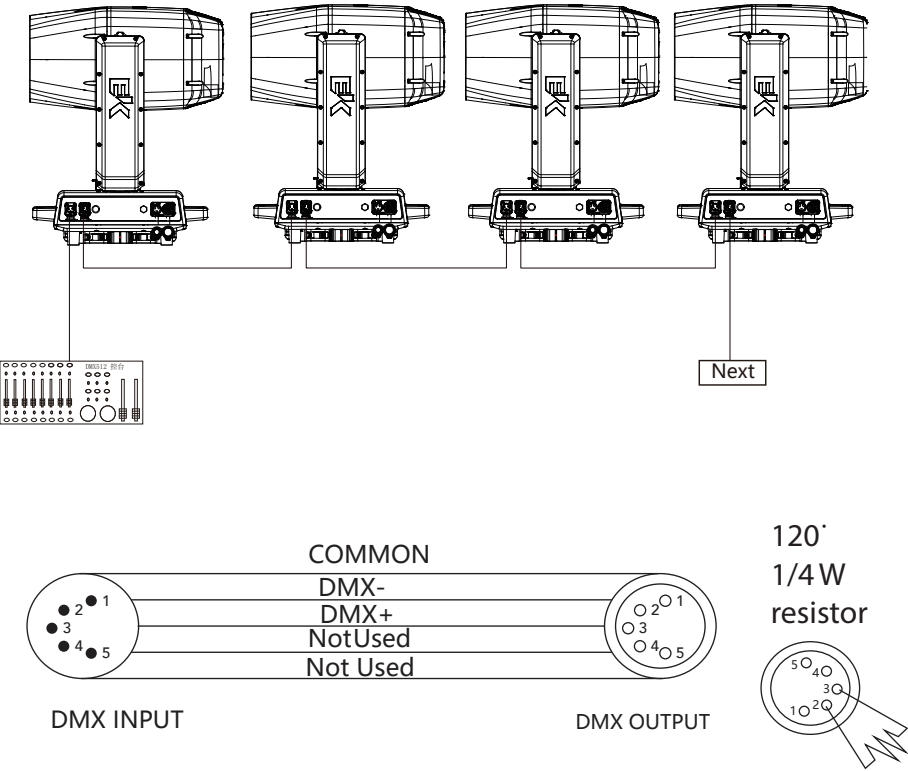


MENU

| 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 |
| | | | Tilt Reverse | Off | Off |
| | | | Encoder Pan/Tilt | Off | |
| | | Lamp Setting | Lamp On/Off | On | On |
| | | | Lamp On Via DMX | Off | Off |
| | | | Safety Black Out | On | On |
| | | | Shutter On Error | Off | Off |
| | | Display Setting | Warn Cue | On | On |
| | | | Backlight | Off | Off |
| | | | Display Reverse | On | Off |
| | | | Key Lock | Off | Off |
| | | Reset Setting | All | No | No |
| | | | Pan/Tilt | No | No |
| | | | Head | No | No |
| 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

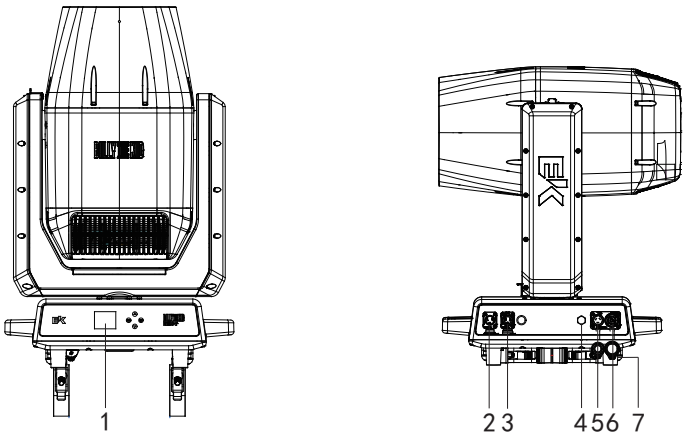


Relation between DMX and Address

| MODE | ALLOCATION | START ADDRESS 1ST FIXTURE | START ADDRESS 2ND FIXTURE | START ADDRESS 3RD FIXTURE | START ADDRESS 4TH FIXTURE |
|------|------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 24CH | 001 -024 | 001 | 025 | 050 | 075 |

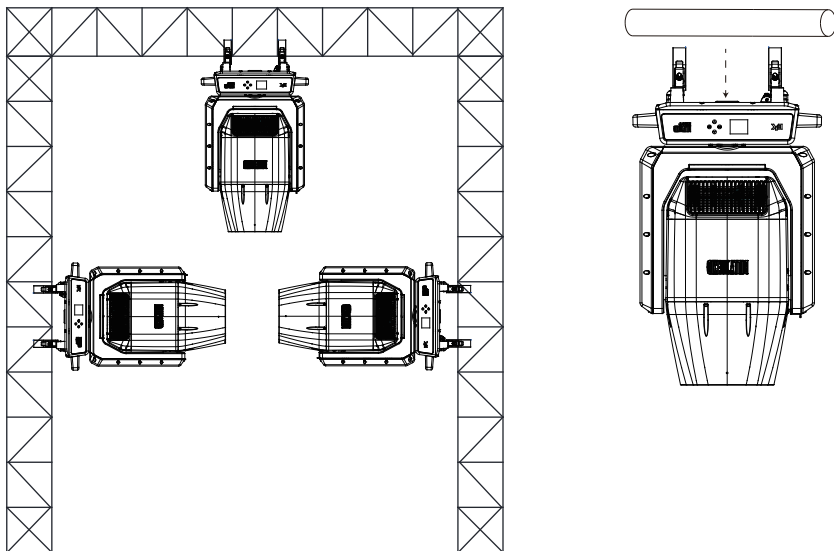
Follow above method for subsequent fixtures, calculating starting addressed as indicated.

OVERVIEW



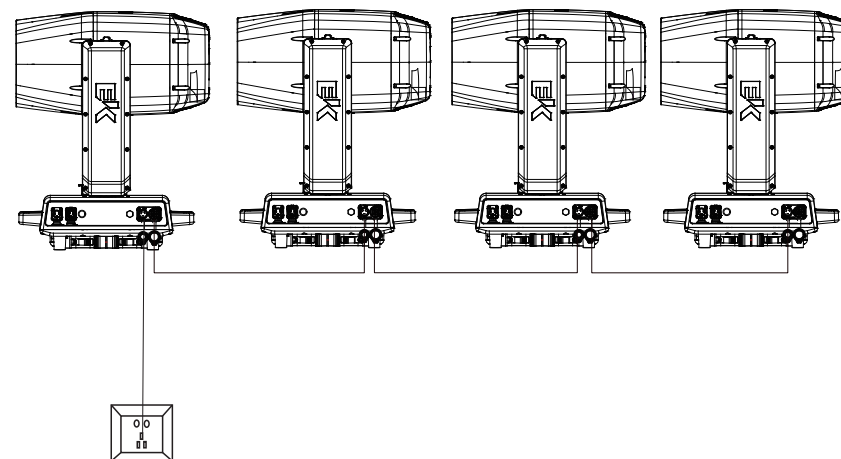
| MODE | ILLUSTRATION | DESCRIPTION | EFFECT |
|-------|--------------|-------------|------------------------|
| MENU | MENU OPTION | ENTER MENU | MENU OPERATION |
| UP | UP | SCROLL UP | INCREASE NUMERIC VALUE |
| DOWN | DOWN | SCROLL DOWN | DECREASE NUMERIC VALUE |
| ENTER | CONFIRM | CONFIRM | SAVE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