# SHOWPRO

**EK**

# CyberBeam

USER MANUAL

# CONTENTS

# 1.Safety Information

**⚠ WARNING**

WARNING! Before carrying out any operations with the unit, carefully read this instruction manual and keep it for future reference. This manual contains important information about the installation, use 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~). Service should be undertaken by 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 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 label.
- 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 Flammable liquids, water or metal objects can 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.
- If the unit is to be put out of operation definitively, ensure you dispose of the unit responsibly in accordance with local recycling laws.

## Warnings and installation precautions

-If this device is operated in any way different to the one described in this manual, it may suffer damage and the warranty becomes void. Furthermore, any on going operation may lead to dangers like short circuit, burns and electric shock, etc.
-Before starting any maintenance work or cleaning the fixture, turn off power from the main supply.
-Always additionally secure the fixture with the safety rope. When carrying out any work, always comply with all 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 Flammable 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

# INTRODUCTION

## FEATURES

- 50W LED light source
-110mm front lens for tight, solid, consistent beams
-32,000 LUX @ 8m
-14 colour wheel and rotating 8 facet prism
-Infinite Pan/Tilt movement
-Fast and accurate positioning with quiet operation
-Small size, compact design and light weight

## SPECIFICATIONS

Light Source: CW, 12A x 3.45V, 41.4W
Luminance: 32,000 LUX @ 8m
Colour Temperature: 7500K ± 300K
CRI: Ra≥70
Lifespan: 20,000 hours

Beam Angle: 2.2°
Pan: Infinite
Tilt: Infinite
Colour: Colour wheel (14+Open)
Frost: 20°
Dimming 0 to 100%, 4 dimming curves
Prism: Indexable 8-face prism with variable speed
Protocol: DMX512
DMX Channel: 14ch
Mains: 100 - 240 VAC, 50/60Hz
Power Connection: TrueCON In/Out
Data Connection: 5pin DMX In/Out
Consumption: Static 78W ; Dynamic 106W @ 230V
Ambient: -10 to 45°C
Dimension: 264 x 176 x 366
Weight: 7kg
IP Rating: IP20
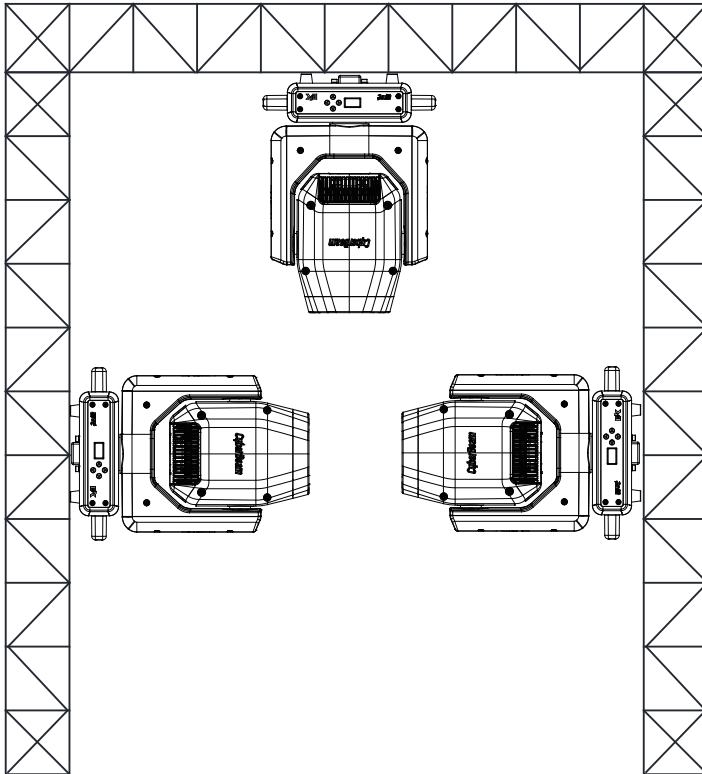
# COLOUR WHEEL
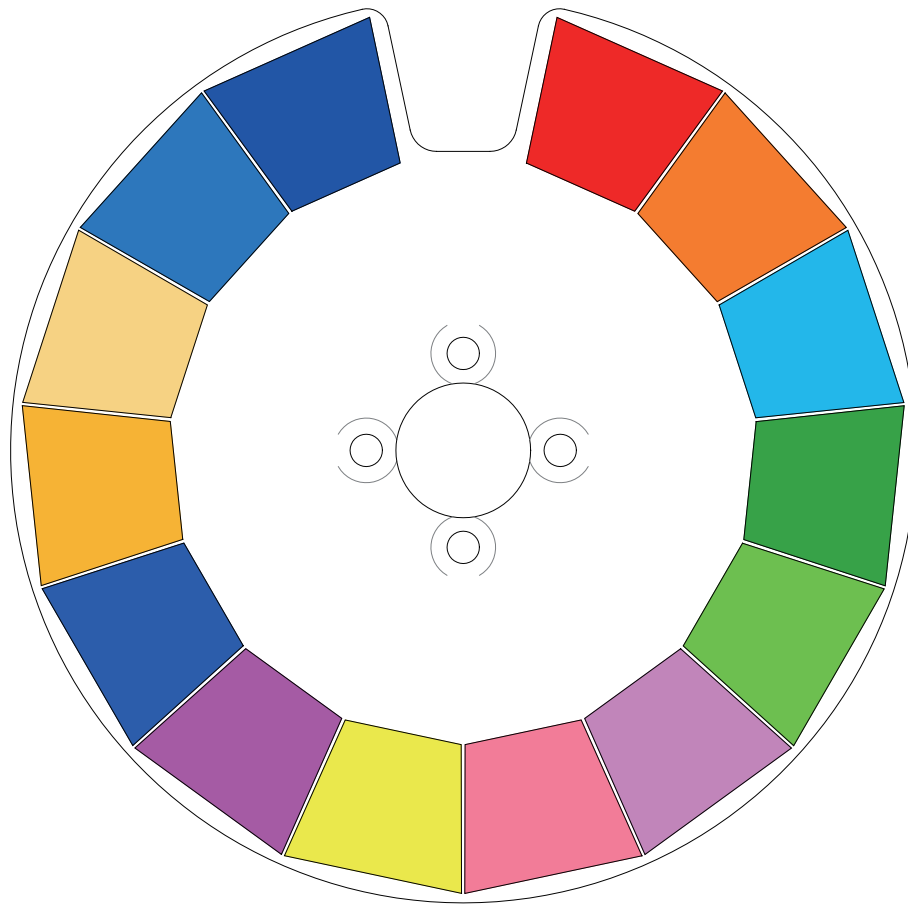


# PHOTOMETRICS

Beam Angle: 2.2°
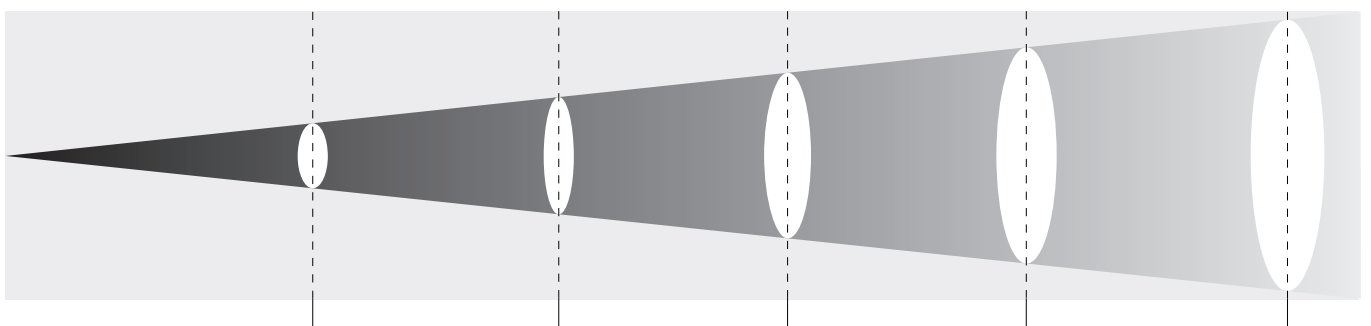


| Luminance (lux) | 32000 | 21000 | 9500 | 5400 | 3500 |
|---|---|---|---|---|---|
| Distance (m) | 8 | 10 | 15 | 20 | 25 |

# DIMENSIONS

240

366

293

74

264

214

261

144

176

Φ110

Φ13

80
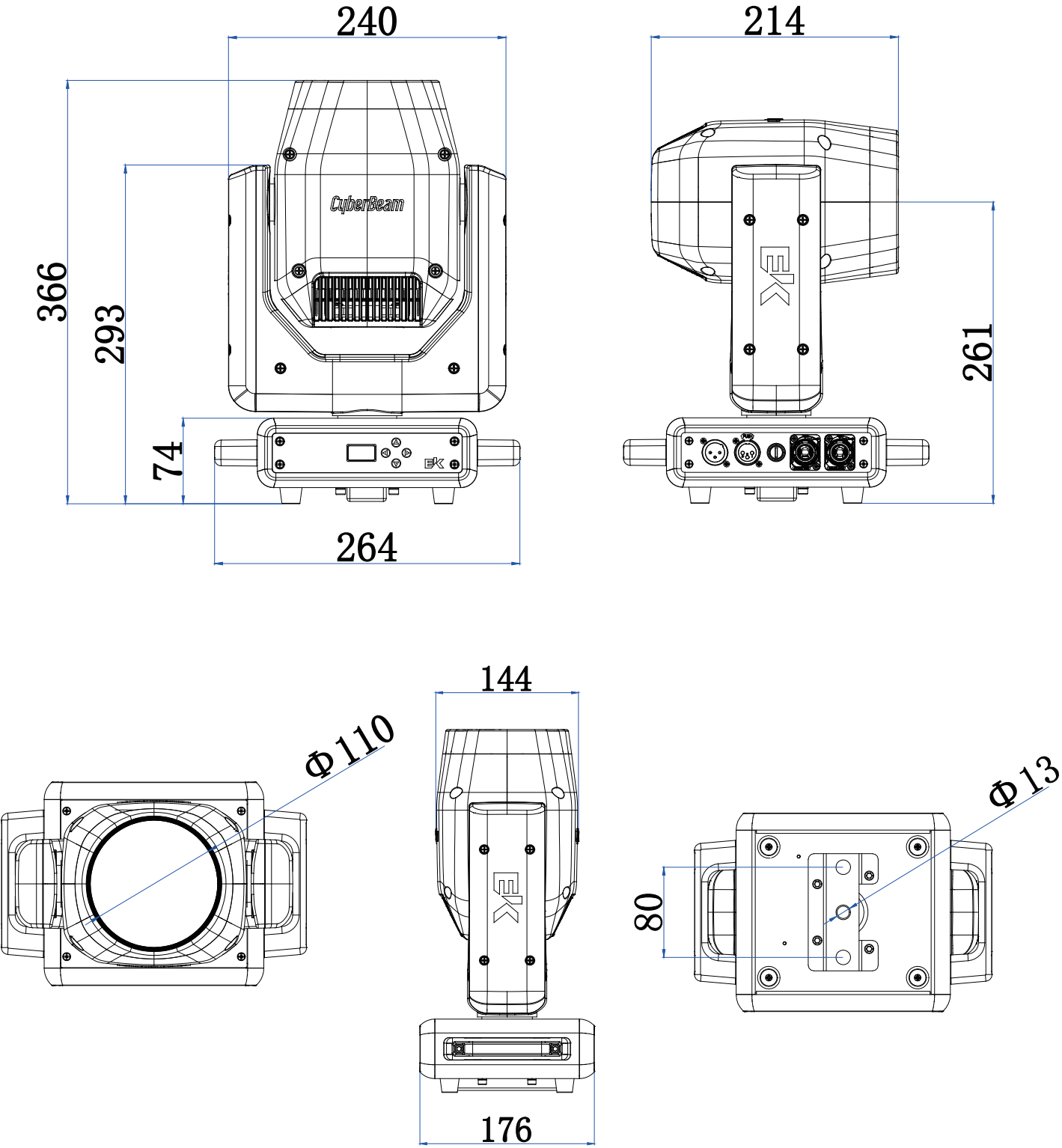
# INSTALLATION AND CONNECTION

## INSTALLMENT
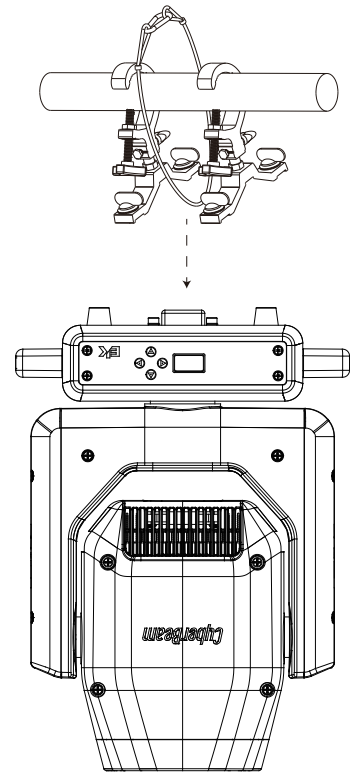
-The fixture may be set up on a solid and even surface. The unit can also be mounted upside down to a cross arm.

-For fixing, stable mounting clamps 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 top)

-Always ensure that the unit is firmly fixed to avoid vibration and slipping whilst in operation.

-The mounting place of the fixture must be sufficiently stable and capable of supporting a weight of 10 times the unit's weight. When carrying out any installation, always comply scrupulously with all regulations (particularly regarding safety) currently in force in the country the fixture is being used.

-Always secure the fixture with the safety rope to prevent the fixture from falling. Fasten the safety rope at a suitable position so that the maximum fall of the fixture will be 20cm

-Do not expose the front of the fixture to sunlight or any other light source.

-Do not focus a light beam from one fixture directly towards another

-For outdoor applications, during daylight ensure that the lens is facing away or shielded from the sun, even when not in use.

-Do not expose the product to excessive heat.

# POWER CONNECTION

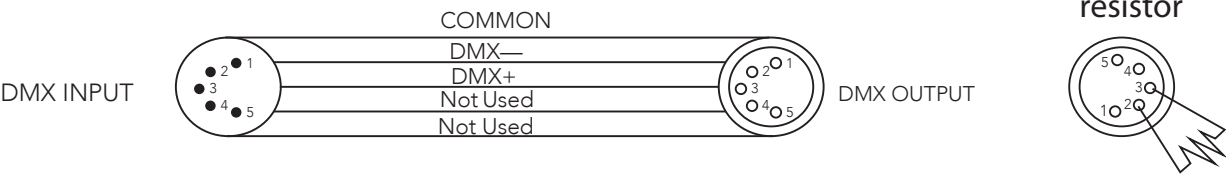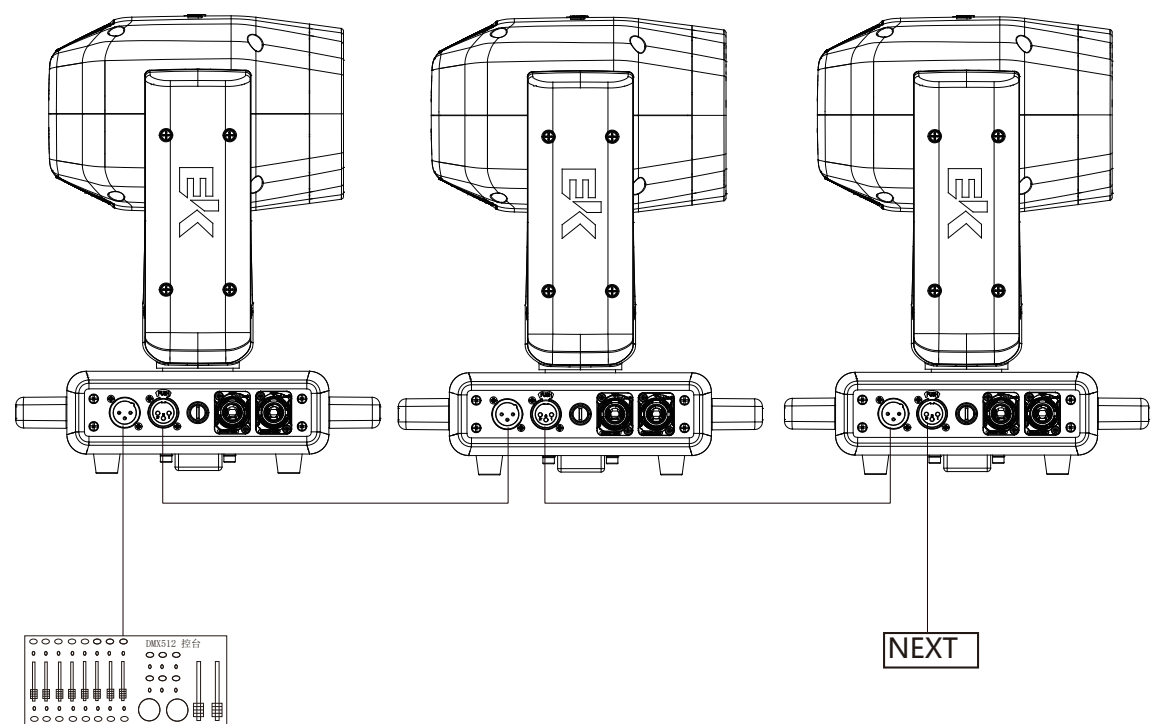NEXT
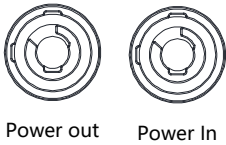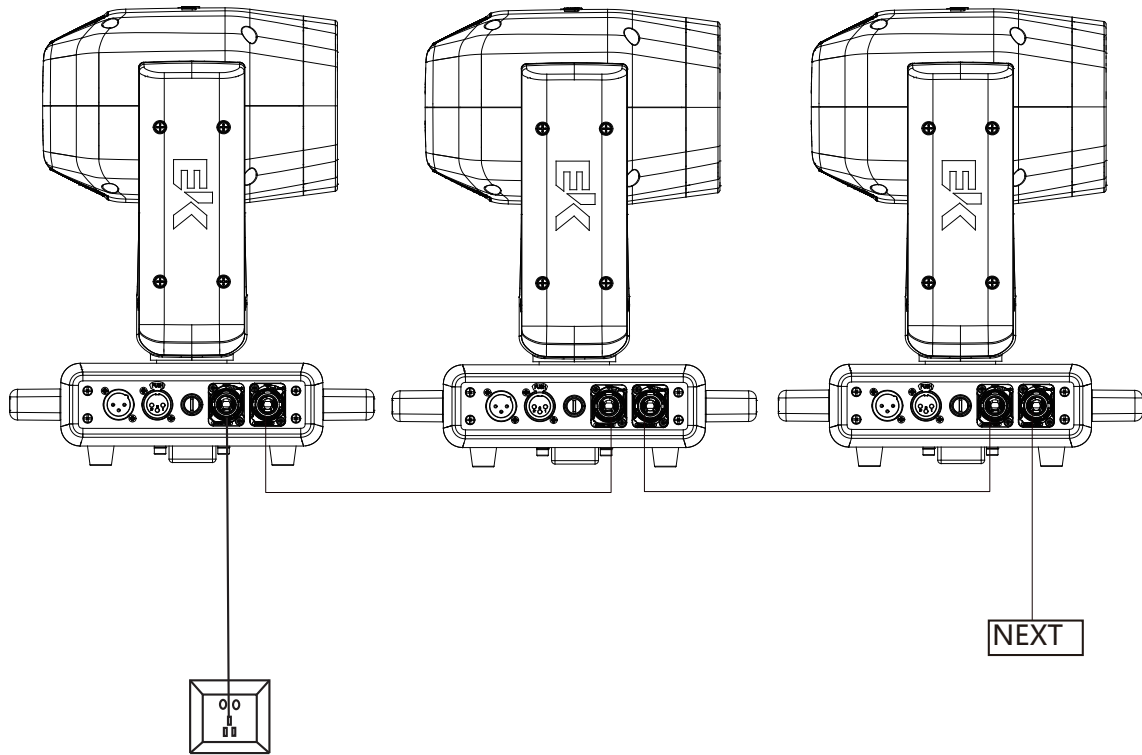
The Cyber Beam uses TrueCON IN/OUT

Using 1.5mm² power cable, it is possible to link
up to 9 units (100V) maximum, 22 units (230V) maximum

Power out    Power In

⚠️ WARNING

Do not use the power cable if the insulation layer has been damaged.
Do not place power cable on other wires.
When the Cyber Beam is not in use or is being cleaned, please remove the power cable.
Do not vigorously plug in or drag the power cable.

# DMX CONNECTION



NEXT

120°
1/4 W
resistor

DMX INPUT          COMMON
                    DMX—
                    DMX+
                   Not Used
                   Not Used          DMX OUTPUT

| Mode | Allocation | Start Address 1st Fixture | Start Address 2nd Fixture | Start Address 3rd Fixture | Start Address 4th Fixture |
|------|-----------|--------------------------|---------------------------|---------------------------|---------------------------|
| 14ch | 001-014 | 001 | 015 | 029 | 043 |

# MENU

| | Main Menu | Menu level 2 | Menu level 3 | Menu level4 | Remark |
|---|---|---|---|---|---|
| | | | CYBER BEAM MENU | | |
| 1 | Connect | DMX Address | 1-512 | | Default: 1 |
| 2 | Option | Movement Setting | Pan Inverse | No | Default: No |
| | | | | Yes | |
| | | | Tilt Inverse | No | Default: No |
| | | | | Yes | |
| | | | Encoder Pan/Tilt | No | Default: Yes |
| | | | | Yes | |
| | | Display Setting | Warn Cue | On | Default: On |
| | | | | Off | |
| | | | Back Light | Off | Default: Off |
| | | | | On | |
| | | | Display Reverse | Off | Default:Off |
| | | | | On | |
| | | Reset Setting | All | | |
| | | | Pan/Tilt | | |
| | | | Head | | |
| 4 | Information | System Error | | | Default: 0 |
| | | Time | Fixture | | |
| | | | Led | | |
| | | System Version | DISP- V1.0 | | |
| | | | CTR1-XY- V1.0 | | |
| | | | CTR2-MOTOR-V1.0 | | |
| | | UID | 030F0C0***** | | |
| 5 | Test | Channel | 1.Pan | | |
| | | | 2.Pan Fine | | |
| | | | ... | | |
| | | | 14.Control | | |
| | | Auto | Auto Test | | |
| 6 | Advanced | Calibration | Pan Offset | 000-255 | |
| | | | Tilt Offset | 000-255 | |
| | | | Color Offset | 000-255 | |
| | | | Prism Offset | 000-255 | |
| | | | RPrism Offset | 000-255 | |
| | | | Frost Offset | 000-255 | |
| | | Factory Reset | No | | |
| | | | Yes | | |

# DMX CHART

| CYBER BEAM DMX chart | | | | |
|---|---|---|---|---|
| 14CH | Function | Value | Percent/Setting | Remark |
| 1 | Pan | 000-255 | Pan Coarse | |
| 2 | Pan fine | 000-255 | | |
| 3 | Tilt | 000-255 | Tilt Coarse | |
| 4 | Tilt fine | 000-255 | | |
| 5 | Pan Rotation | 000-003 | No Function | |
| | | 004-125 | Fast to Slow (Clockwise Spin) | |
| | | 126-129 | Stop | |
| | | 130-251 | Slow to Fast (Anti-Clockwise Spin) | |
| | | 252-255 | No Function | |
| 6 | Tilt Rotation | 000-003 | No Function | |
| | | 004-125 | Fast to Slow (Clockwise Spin) | |
| | | 126-129 | Stop | |
| | | 130-251 | Slow to Fast (Anti-Clockwise Spin) | |
| | | 252-255 | No Function | |
| 7 | Dimmer | 000-255 | 0~100% | |
| 8 | Dimmer Fine | 000-255 | 0~100% | |
| 9 | Shutter | 000-010 | No function (shutter close) | |
| | | 011-082 | Shutter effect slow to fast | |
| | | 083-093 | No function (shutter open) | |
| | | 094-163 | Pulse-effect in sequences | |
| | | 164-174 | No function (shutter open) | |
| | | 175-243 | Random Shutter effect slow to fast | |
| | | 244-255 | No function (shutter open) | |
| 10 | 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 | |

# DMX CHART

| | | | | |
|---|---|---|---|---|
| 10 | Color | 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 | |
| | | 128-189 | Fast to Slow(Forward Spin) | |
| | | 190-193 | Stop (Stop Rotation) | |
| | | 194-255 | Slow to Fast(Revers Spin) | |
| 11 | Prism | 000-127 | Prism Open | |
| | | 128-55 | Prism Insert | |
| 12 | Prism Rot | 000-191 | Positioning from 0-360(Index) | |
| | | 192-223 | Slowest to fastest (Forward Spin) | |
| | | 224-255 | fastest to Slowest (Reverse Spin) | |
| 13 | Frost | 000-255 | 0~100% Linear | |

# DMX CHART

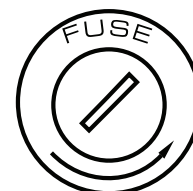| 14 | Control | 000-010 | No function | (Keep 3s) |
|----|---------|---------|-------------|-----------|
| | | 011-015 | Invert Pan on | |
| | | 016-020 | Invert Pan off | |
| | | 021-025 | Invert Tilt on | |
| | | 026-030 | Invert Tilt off | |
| | | 031-035 | Display On | |
| | | 036-040 | Display Off | |
| | | 031-200 | TBD(No function) | |
| | | 201-205 | Complete Reset | |
| | | 206-210 | Pan/Tilt Reset | |
| | | 211-215 | Head Reset | |
| | | 216-255 | No function | |

# MAINTENANCE

## MAINTENANCE AND CLEANING THE UNIT

-Make sure the area below the installation place is free from unwanted persons during setup.

-Switch off the unit and unplug the main cable.  Wait until the unit has cooled down.

-All screws used for installing the device and any of its parts should be tightly fastened and should be free of any signs of corrosion.

-Housings, fixations and installation spots (ceiling, trusses, suspensions) should not show and signs of deformation.

-The main cables must be in impeccable condition. The cable should be replaced immediately if any damage is detected.

-It is recommended to clean the lens at regular intervals to remove impurities caused by dust, smoke, or any other particles. This is to ensure best performance and maximum brightness. To clean, disconnect the main plug from the socket. Use a clean and soft cloth moistened with a mild detergent. Then carefully wipe the part dry. For cleaning other housing parts, used a clean and soft cloth. Never use liquid. Using liquid could penetrate the unit and cause damage.

## REPLACING THE FUSE

1.Disconnect the fixture 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 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 | • No mains supply<br>• Dimmer fader set to 0<br>• All colour faders set to 0<br>• Faulty LED<br>• Faulty LED board | • Check the power supply voltage<br>• Increase value of the dimmer<br>• Increase value of colour channel<br>• Replace the LED board<br>• Replace the LED board |
| General low light intensity | • Dirty lens assembly<br>• Misaligned lens assembly | • Clean the lens regularly<br>• Install lens assembly properly |
| Fixture does not power up | • No power<br>• Loose or damaged power cord<br>• Faulty internal power supply | • Check for power on power outlet<br>• Check power cord<br>• Replace internal power supply |
| Fixture does not respond to DMX | • Wrong DMX addressing<br>• Damaged DMX cables<br>• Bouncing signals | • Check DMX address and mode<br>• Check DMX cables<br>• Install terminator as suggested |

Contact an authorised service centre in the case of technical problems that are not reported in the table, or problems which cannot be resolved by the procedure given in the table

## EK INC.

Address: NO.55  Zhongzhun Road, Cuiheng New District, Zhongshan City, Guangdong Province

Phone: 0086 (0760) 88280099

www.eklights.com