

## USER MANUAL

### X-BEAM IP



## USER MANUAL

This product manual contains important information about the safe installation and use of this projector. Please read and follow these instructions carefully and keep this manual in a safe place for future reference.

**Please read the instructions carefully before use!**

## 1. SAFETY PRECAUTIONS

This fixture is a sophisticated piece of electronic equipment. To guarantee a smooth operation, it is important to follow all instructions and guidelines in this manual. Manufacturer is not responsible for injuries and damages resulting from the misuse of this fixture due to the disregard of the information printed in this manual. Only qualified or certified personnel should perform installation of this fixture and only the original rigging parts included with this fixture should be used for installation. Any modifications to the fixture and the included mounting hardware will void the original manufacturer's warranty and increase the risk of damage personal injury.

- **PROTECTION CLASS 1 - FIXTURE MUST BE PROPERLY GROUNDED**
- **THERE ARE NO USER SERVICEABLE PARTS INSIDE THIS UNIT. DO NOT ATTEMPT ANY REPAIRS YOURSELF, AS DOING SO WILL VOID YOUR MANUFACTURER'S WARRANTY. DAMAGES RESULTING FROM MODIFICATIONS TO THIS FIXTURE AND/OR THE DISREGARD OF SAFETY INSTRUCTIONS AND GUIDELINES IN THIS MANUAL VOID THE MANUFACTURER'S WARRANTY AND ARE NOT SUBJECT TO ANY WARRANTY CLAIMS AND/OR REPAIRS**
- **DO NOT PLUG FIXTURE INTO A DIMMER PACK**
- **NEVER OPEN THIS FIXTURE WHILE IN USE**
- **UNPLUG POWER BEFORE SERVICING FIXTURE**
- **NEVER TOUCH FIXTURE DURING OPERATION, AS IT MAY BE HOT! KEEP FLAMMABLE MATERIALS AWAY FROM FIXTURE**
- **CLASS 1 LASER PRODUCTS (IEC 60825-1:2014)**
- **RG3 (IEC 62471:2006).**
- **NEVER LOOK DIRECTLY INTO THE LIGHT SOURCE AT WORK**
- **THE EXPOSURE DISTANCE OF LIGHTING FIXTURES TO THE EYES AND SKIN SHOULD BE GREATER THAN 30 METERS.**
- **DUE TO THE RISK OF SKIN OR CORNEAL BURNS, DO NOT OPERATE OR USE THE LIGHT IN AREAS WHERE PEOPLE ARE EXPOSED.**
- **FOR SAFETY REASONS, OPERATORS SHOULD AVOID DIRECT IRRADIATION OF THE LIGHT SOURCE OF THE LAMP INTO AREAS, WITH HUMAN ACCESS BEFORE STARTING TO CONTROL THE LAMP.**
- **RETINA INJURY RISK - MAY INDUCE BLINDNESS**
- **SENSITIVE PERSONS MAY SUFFER AN EPILEPTIC SHOCK**
- **ENSURE THAT ALL CONNECTIONS AND END CAPS ARE PROPERLY SEALED WITH A DIELECTRIC GREASE (AVAILABLE AT MOST ELECTRICAL SUPPLIERS) TO PREVENT WATER CORROSION AND/OR ELECTRICAL SHORT CIRCUIT**
- **KEEP APPROPRIATE DISTANCE FROM OBJECTS/SURFACES 1 METER**
- **MAXIMUM TEMP OF EXTERNAL SURFACE 185° F (85°C)**



Laser radiation

- DO NOT TOUCH THE FIXTURE HOUSING DURNING OPERATION. TURN OFF THE POWER AND ALLOW APPROXIMATELY 15 MINUTES FOR THE FIXTURE TO COOL DOWN BEFORE SERVICING
- DO NOT SHAKE FIXTURE , AND AVOID BRUTE FORCE WHEN INSTALLING OPERATING
- DO NOT OPERATE FIXTURE IF THE POWER CORD IS FRAYED, CRIMPED, DAMAGED OR IF ANY OF THE POWER CORD CONNECTORS ARE DAMAGED AND DO NOT INSERT INTO THE FIXTURE SECURELY WITH EASEY
- NEVER FORCE A POWER CORD CONNECTOR INTO THE FIXTURE. IF THE POWER CORD OR ANY OF ITS CONNECTORS ARE DAMAGED, REPLACE IT IMMEDIATELY WITH A NEW ONE OF THE SAME POWER RATING
- DO NOT BLOCK ANY AIR VENTILATION SLOTS
- ALL FAN AND AIR INLETS MUST REMAIN CLEAN AND NEVER BLOCKED
- ALLOW APPROX. 6" (15CM) BETWEEN FIXTURE AND OTHER DEVICES OR A WALL FOR PROPER COOLING
- ALWAYS DISCONNECT FIXTURE FROM MAIN POWER SOURCE BEFORE PERFORMING ANY TYPE OF CLEANING PROCEDURE
- ONLY HANDLE THE POWER CORD BY THE PLUG END. NEVER PULL OUT THE PLUG BY TUGGING THE WIRE PORTION OF THE CORD
- DURING THE INITIAL OPERATION OF THIS FIXTURE, A LIGHT SMOKE OR SMELL MAY EMIT FROM THE INTERIOR OF THE FIXTURE. THIS IS A NORMAL PROCESS AND IS CAUSED BY EXCESS PAINT IN THE INTERIOR OF THE CASING BURNING OFF FROM THE HEAT ASSOCIATED WITH THE LAMP AND WILL DECREASE GRADUALLY OVER TIME
- CONSISTENT OPERATIONAL BREAKS WILL ENSURE FIXTURE WILL FUNCTION PROPERLY FOR MANY YEARS
- ONLY USE THE ORIGINAL PACKAGING AND MATERIALS TO TRANSPORT THE FIXTURE IN FOR SERVICE
- DO NOT ALLOW CHILDREN TO OPERATE THE FIXTURE
- IN THE EVENT OF SERIOUS OPERATING PROBLEM, STOP USING THE UNIT IMMEDIATELY
- NEVER TURN ON AND OFF THE UNIT TIME AFTER TIME
- DO NOT OPERATE THIS PRODUCT IF YOU SEE DAMAGE ON THE HOUSING, SHIELDS, OR CABLES. HAVE THE DAMAGED PARTS REPLACED BY AN AUTHORIZED TECHNICIAN AT ONCE.
- IN CASE OF DOUBT CONTACT WITH BRIGHTER LIGHTING

## 2. MAINTENANCE GUIDELINES

### **DISCONNECT POWER BEFORE PERFORMING ANY MAINTENANCE!**

#### 2.1. CLEANING

Frequent cleaning is recommended to ensure proper function, optimized light output, and an extended life. The frequency of cleaning depends on the environment in which the fixture operates: damp, smoky or particularly dirty environments can cause greater accumulation of dirt on the fixture's optics. Periodically clean the external lens surface with a soft cloth to avoid dirt/debris accumulation. NEVER use alcohol, solvents, or ammonia-based cleaners .

#### 2.2. MAINTENANCE

Regular inspections are recommended to ensure proper function and extended life. There are no user serviceable parts inside this fixture. Please refer all other service issues to an authorized our service technician. Should you need any spare parts, please order genuine parts from your local dealer.

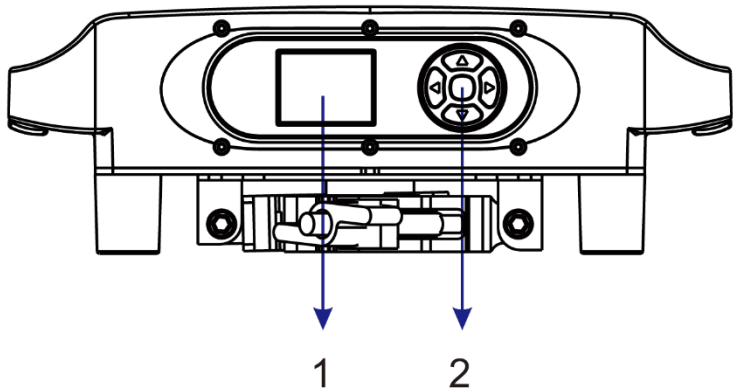
Please refer to the following points during routine inspections:

- A detailed electric check by an approved electrical engineer every three months, to make sure the circuit contacts are in good condition and prevent overheating
- Be sure all screws and fasteners are securely tightened at all times. Loose screws may fall out during normal operation, resulting in damage or injury as larger parts could fall
- Check for any deformations on the housing, color lenses, rigging hardware, and rigging points (ceiling, suspension, trussing). Deformations in the housing could allow for dust to enter into the fixture. Damaged rigging points or unsecured rigging could cause the fixture to fall and seriously injure a person(s)
- Electric power supply cables must not show any damage, material fatigue or sediments. NEVER remove the ground prong from the power cable

3. INSTALLATION GUIDELINES

The fixture should be fixed on the clamp. Always ensure that the unit is firmly fixed to avoid vibration and slipping off during operation. Ensure that the trussing or area of installation must be able to hold 10 times the weight without any deformation. Always install a safety cable that can hold at least 12 times the weight of the fixture when installing. Do install and operate by qualified operator. It must be installed in a place where there is out of the reach of people.

4.SYSTEM MENU



1. Display

2. Button:

UP  
LEFT      OK      RIGHT  
DOWN

| Main Menu   | Sub Menu    | Option/Value     | Option/Value |
|-------------|-------------|------------------|--------------|
| DMX Address | Address     | 1-512            |              |
|             | Channel     | 14CH/17CH/19CH   |              |
|             | State       | Black            |              |
|             |             | Hold             |              |
|             | Input Mode  | DMX              |              |
|             |             | Art-Net          |              |
|             |             | sACN             |              |
| Information | Time        | Total Power Time |              |
|             |             | Power Time       |              |
|             |             | Total Light Time |              |
|             |             | Light Time       |              |
|             | Temperature | Head Temp        |              |
|             | Fan info    | HeadFanVol       |              |
|             |             | FocusFanVol      |              |
|             |             | HeadFan1Sp       |              |
|             |             | HeadFan2Sp       |              |
|             |             | BaseFanVol       |              |

|          |                    |                     |          |
|----------|--------------------|---------------------|----------|
|          | Fixture state      | BaseFan1Sp          |          |
|          |                    | 1.MCU(XY)***        |          |
|          |                    | 2.MCU(LED)***       |          |
|          |                    | 3.MCU(CMY)***       |          |
|          |                    | 4.Pan***            |          |
|          |                    | 5.Tilt***           |          |
|          |                    | 6.Cyan***           |          |
|          |                    | 7.Magenta***        |          |
|          |                    | 8.Yellow***         |          |
|          |                    | 9.FixGobo***        |          |
|          |                    | 10.Laser***         |          |
|          |                    | 11.HeadFan1***      |          |
|          |                    | 12.HeadFan2***      |          |
|          |                    | 13.BaseFan1***      |          |
|          | RDM UID            | 09A4: xxxxxxxx      |          |
|          | DMX Live           | DMX                 |          |
|          | Software           | 1.Display Ver. Vxxx |          |
|          |                    | 2.XY Ver. Vxxx      |          |
|          |                    | 3.LED Ver. Vxxx     |          |
|          |                    | 4.CMY Ver. Vxxx     |          |
| Personal | PanTilt Setting    | Pan Invert          | Off      |
|          |                    |                     | On       |
|          |                    | Tilt Invert         | Off      |
|          |                    |                     | On       |
|          |                    | P/T Rectify         | Off      |
|          |                    |                     | On       |
|          | Display Setting    | Language            | En       |
|          |                    |                     | Zh       |
|          |                    | Disp. Backlight     | Off      |
|          |                    |                     | On       |
|          |                    | Disp. Direction     | Forward  |
|          |                    |                     | Reverse  |
|          |                    | Dis.Blink           | Off      |
|          |                    |                     | On       |
|          | Dimmer&Fan Setting | Frequency           | 1800Hz   |
|          |                    |                     | 3600Hz   |
|          |                    |                     | 7200Hz   |
|          |                    |                     | 25000Hz  |
|          |                    | Dimmer Curve        | Linear   |
|          |                    |                     | Square   |
|          |                    |                     | I-Square |

|                |                  |                      |                 |
|----------------|------------------|----------------------|-----------------|
|                | Ethernet Setting |                      | S-Shape         |
|                |                  | Dimmer Speed         | Snqp            |
|                |                  |                      | Fade            |
|                |                  | Fan Mode             | HighOutput      |
|                |                  |                      | Standard        |
|                |                  |                      | Silent          |
|                |                  | IP Address           | ***,***,***,*** |
|                |                  | Mask Address         | ***,***,***,*** |
|                |                  | Net Address          | 0-127           |
|                |                  | Sub Net Address      | 0-15            |
|                |                  | Universe Address     | 0-15            |
|                |                  | sAN Universe Address | 1-255           |
|                |                  | DHCP                 | Off             |
|                |                  |                      | On              |
| Manual Control | Channel control  | Pan                  | 0-255           |
|                |                  | Pan Fine             | 0-255           |
|                |                  | Tilt                 | 0-255           |
|                |                  | Tilt Fine            | 0-255           |
|                |                  | PTSpeed              | 0-255           |
|                |                  | Function             | 0-255           |
|                |                  | Dimmer               | 0-255           |
|                |                  | Dimmer Fine          | 0-255           |
|                |                  | Strobe               | 0-255           |
|                |                  | Cyan                 | 0-255           |
|                |                  | Magenta              | 0-255           |
|                |                  | Yellow               | 0-255           |
|                |                  | Color                | 0-255           |
|                |                  | Fixgobo              | 0-255           |
|                |                  | Prism                | 0-255           |
|                |                  | PrismRot             | 0-255           |
|                |                  | Frost                | 0-255           |
|                |                  | Focus                | 0-255           |
|                |                  | FocusFine            | 0-255           |
|                | Reset            | PanTilt              |                 |
|                |                  | Head Module          |                 |
|                |                  | All                  |                 |
| Service        | Calibration      | 1.Pan                | 0-255           |
|                |                  | 2.Tilt               | 0-255           |
|                |                  | 3.Cyan               | 0-255           |
|                |                  | 4.Magenta            | 0-255           |
|                |                  | 5.Yellow             | 0-255           |

|                |                  |                  |       |
|----------------|------------------|------------------|-------|
|                |                  | 6.FixGobo        | 0-255 |
|                |                  | 7.Focus          | 0-255 |
|                |                  | 8.Prism1         | 0-255 |
|                |                  | 9.Prism1Rot      | 0-255 |
|                |                  | 10.Prism2        | 0-255 |
|                |                  | 11.Frost         | 0-255 |
|                |                  | 12.Color         | 0-255 |
|                | Factory Reset    | No               |       |
|                |                  | Yes              |       |
|                | Reset Timers     | Total Power Time | No    |
|                |                  |                  | Yes   |
|                |                  | Total Light Time | No    |
|                |                  |                  | Yes   |
|                |                  | Power Time       | No    |
|                |                  |                  | Yes   |
|                |                  | Light Time       | No    |
|                |                  |                  | Yes   |
|                | Developer        |                  |       |
|                | Firmware update  |                  |       |
| Language       | English          |                  |       |
|                | Chinese          |                  |       |
| Test           | Test PanTilt     |                  |       |
|                | Test Head Module |                  |       |
|                | Test All         |                  |       |
| Rotate Display |                  |                  |       |

## 5.DMX CHART

### 14Ch Mode

| CH  | Value | Function           | Description                        |
|-----|-------|--------------------|------------------------------------|
| 1CH | 0-255 | Pan                | -270°- 270°                        |
| 2CH | 0-255 | Tilt               | -135°- 135°                        |
| 3CH | 0-255 | Dimmer             | Dark to light                      |
|     | 0-255 | Strobe             |                                    |
|     | 0-5   | Open               |                                    |
|     | 6-55  | Synchronous strobe | The larger value, the faster speed |



|     |         |                   |                                                  |
|-----|---------|-------------------|--------------------------------------------------|
| 4CH | 56-105  | Pulse strobe      | The larger value, the faster speed               |
|     | 106-155 | Random strobe     | The larger value, the faster speed               |
|     | 156-205 | Pulse open        | The larger value, the faster speed Dark to light |
|     | 206-255 | Pulse close       | The larger value, the faster speed Light to dark |
| 5CH | 0-255   | Cyan              |                                                  |
| 6CH | 0-255   | Magenta           |                                                  |
| 7CH | 0-255   | Yellow            |                                                  |
| 8CH | 0-255   | Color Wheel       |                                                  |
|     | 0-5     | White             |                                                  |
|     | 6-15    | White+Red         |                                                  |
|     | 16-25   | Red               |                                                  |
|     | 26-35   | Red+Cyan          |                                                  |
|     | 36-45   | Cyan              |                                                  |
|     | 46-55   | Cyan+Green        |                                                  |
|     | 56-65   | Green             |                                                  |
|     | 66-75   | Green+Lavender    |                                                  |
|     | 76-85   | Lavender          |                                                  |
|     | 86-95   | Lavender+Yellow   |                                                  |
|     | 96-105  | Yellow            |                                                  |
|     | 106-115 | Yellow+Magenta    |                                                  |
|     | 116-125 | Magenta           |                                                  |
|     | 126-135 | Magenta+Amber     |                                                  |
|     | 136-145 | Amber             |                                                  |
|     | 146-155 | Amber+CTO         |                                                  |
|     | 156-165 | CTO               |                                                  |
|     | 166-175 | CTO+CTB           |                                                  |
|     | 176-185 | CTB               |                                                  |
|     | 186-195 | CTB+Pink          |                                                  |
|     | 196-205 | Pink              |                                                  |
|     | 206-215 | Pink+Blue         |                                                  |
|     | 216-225 | Blue              |                                                  |
|     | 226-235 | Blue+UV Blue      |                                                  |
|     | 236-245 | UV Blue           |                                                  |
|     | 246-255 | Color wheel spin  | Slow to Fast                                     |
| 9CH | 0-255   | Static Gobo Wheel |                                                  |
|     | 0-8     | Open              |                                                  |
|     | 9-11    | Gobo 1            |                                                  |

|      |         |                                |  |
|------|---------|--------------------------------|--|
|      | 12-14   | Gobo 2                         |  |
|      | 15-17   | Gobo 3                         |  |
|      | 18-20   | Gobo 4                         |  |
|      | 21-23   | Gobo 5                         |  |
|      | 24-26   | Gobo 6                         |  |
|      | 27-29   | Gobo 7                         |  |
|      | 30-32   | Gobo 8                         |  |
|      | 33-35   | Gobo 9                         |  |
|      | 36-38   | Gobo 10                        |  |
|      | 39-41   | Gobo 11                        |  |
|      | 42-44   | Gobo 12                        |  |
|      | 45-47   | Gobo 13                        |  |
|      | 48-50   | Gobo 14                        |  |
|      | 51-53   | Gobo 15                        |  |
|      | 54-56   | Gobo 16                        |  |
|      | 57-59   | Gobo 17                        |  |
|      | 60-63   | Gobo 1 Shake                   |  |
|      | 64-67   | Gobo 2 Shake                   |  |
|      | 68-71   | Gobo 3 Shake                   |  |
|      | 72-75   | Gobo 4 Shake                   |  |
|      | 76-79   | Gobo 5 Shake                   |  |
|      | 80-83   | Gobo 6 Shake                   |  |
|      | 84-87   | Gobo 7 Shake                   |  |
|      | 88-91   | Gobo 8 Shake                   |  |
|      | 92-95   | Gobo 9 Shake                   |  |
|      | 96-99   | Gobo 10 Shake                  |  |
|      | 100-103 | Gobo 11 Shake                  |  |
|      | 104-107 | Gobo 12 Shake                  |  |
|      | 108-111 | Gobo 13 Shake                  |  |
|      | 112-115 | Gobo 14 Shake                  |  |
|      | 116-119 | Gobo 15 Shake                  |  |
|      | 120-123 | Gobo 16 Shake                  |  |
|      | 124-127 | Gobo 17 Shake                  |  |
|      | 128-190 | Forward flow from fast to slow |  |
|      | 191-192 | Stop                           |  |
|      | 193-255 | Reverse flow from slow to fast |  |
| 10CH | 0-255   | Prism                          |  |

|      |         |                                |                   |
|------|---------|--------------------------------|-------------------|
|      | 0-63    | Prism off                      |                   |
|      | 64-127  | Prism 1                        | 8-facet circular  |
|      | 128-191 | Prism 2                        | 24-facet circular |
|      | 192-255 | Both prisms                    |                   |
| 11CH | 0-255   | Prism Pos                      |                   |
|      | 0-127   | 0-360 degrees                  |                   |
|      | 128-190 | Forward flow from fast to slow |                   |
|      | 191-192 | Stop                           |                   |
|      | 193-255 | Reverse flow from slow to fast |                   |
| 12CH | 0-255   | Frost                          |                   |
|      | 0-127   | Off                            |                   |
|      | 128-255 | On                             |                   |
| 13CH | 0-255   | Focus                          |                   |
| 14CH | 0-255   | Control                        |                   |
|      | 0-25    | No function                    |                   |
|      | 26-30   | Reset Effect                   |                   |
|      | 31-35   | Reset P/T                      |                   |
|      | 36-40   | Reset All                      |                   |
|      | 41-49   | No function                    |                   |
|      | 50-59   | Fan Full                       |                   |
|      | 60-69   | Fan Auto                       |                   |
|      | 70-79   | Fan Slow                       |                   |
|      | 80-129  | No function                    |                   |
|      | 130-139 | Pan Invert On                  |                   |
|      | 140-149 | Pan Invert Off                 |                   |
|      | 150-159 | Tilt Invert On                 |                   |
|      | 160-169 | Tilt Invert Off                |                   |
|      | 170-177 | Source FREQ                    | 1000Hz            |
|      | 178-185 |                                | 3600Hz            |
|      | 186-193 |                                | 7200Hz            |
|      | 194-199 |                                | 25000Hz           |
|      | 200-204 | Dimmer Curve                   | Linear            |
|      | 205-209 |                                | Square            |
|      | 210-214 |                                | I-Square          |
|      | 215-219 |                                | S-Shape           |
|      | 220-229 | Dimmer Fast                    |                   |
|      | 230-239 | Dimmer Smooth                  |                   |

|  |         |             |  |
|--|---------|-------------|--|
|  | 240-255 | No Function |  |
|--|---------|-------------|--|

## 17Ch Mode

| CH   | Value   | Function           | Description                                      |
|------|---------|--------------------|--------------------------------------------------|
| 1CH  | 0-255   | Pan                | -270°- 270°                                      |
| 2CH  | 0-255   | Pan Fine           | 16 bit adjustable                                |
| 3CH  | 0-255   | Tilt               | -135°- 135°                                      |
| 4CH  | 0-255   | Tilt Fine          | 16 bit adjustable                                |
| 5CH  | 0-255   | Dimmer             | Dark to light                                    |
| 6CH  | 0-255   | Dimmer Fine        | 16 bit adjustable                                |
| 7CH  | 0-255   | Strobe             |                                                  |
|      | 0-5     | Open               |                                                  |
|      | 6-55    | Synchronous strobe | The larger value, the faster speed               |
|      | 56-105  | Pulse strobe       | The larger value, the faster speed               |
|      | 106-155 | Random strobe      | The larger value, the faster speed               |
|      | 156-205 | Pulse open         | The larger value, the faster speed Dark to light |
|      | 206-255 | Pulse close        | The larger value, the faster speed Light to dark |
| 8CH  | 0-255   | Cyan               |                                                  |
| 9CH  | 0-255   | Magenta            |                                                  |
| 10CH | 0-255   | Yellow             |                                                  |
| 11CH | 0-255   | Color Wheel        |                                                  |
|      | 0-5     | White              |                                                  |
|      | 6-15    | White+Red          |                                                  |
|      | 16-25   | Red                |                                                  |
|      | 26-35   | Red+Cyan           |                                                  |
|      | 36-45   | Cyan               |                                                  |
|      | 46-55   | Cyan+Green         |                                                  |
|      | 56-65   | Green              |                                                  |
|      | 66-75   | Green+Lavender     |                                                  |
|      | 76-85   | Lavender           |                                                  |
|      | 86-95   | Lavender+Yellow    |                                                  |
|      | 96-105  | Yellow             |                                                  |

|      |         |                   |              |
|------|---------|-------------------|--------------|
|      | 106-115 | Yellow+Magenta    |              |
|      | 116-125 | Magenta           |              |
|      | 126-135 | Magenta+Amber     |              |
|      | 136-145 | Amber             |              |
|      | 146-155 | Amber+CTO         |              |
|      | 156-165 | CTO               |              |
|      | 166-175 | CTO+CTB           |              |
|      | 176-185 | CTB               |              |
|      | 186-195 | CTB+Pink          |              |
|      | 196-205 | Pink              |              |
|      | 206-215 | Pink+Blue         |              |
|      | 216-225 | Blue              |              |
|      | 226-235 | Blue+UV Blue      |              |
|      | 236-245 | UV Blue           |              |
|      | 246-255 | Color wheel spin  | Slow to Fast |
| 12CH | 0-255   | Static Gobo Wheel |              |
|      | 0-8     | Open              |              |
|      | 9-11    | Gobo 1            |              |
|      | 12-14   | Gobo 2            |              |
|      | 15-17   | Gobo 3            |              |
|      | 18-20   | Gobo 4            |              |
|      | 21-23   | Gobo 5            |              |
|      | 24-26   | Gobo 6            |              |
|      | 27-29   | Gobo 7            |              |
|      | 30-32   | Gobo 8            |              |
|      | 33-35   | Gobo 9            |              |
|      | 36-38   | Gobo 10           |              |
|      | 39-41   | Gobo 11           |              |
|      | 42-44   | Gobo 12           |              |
|      | 45-47   | Gobo 13           |              |
|      | 48-50   | Gobo 14           |              |
|      | 51-53   | Gobo 15           |              |
|      | 54-56   | Gobo 16           |              |
|      | 57-59   | Gobo 17           |              |
|      | 60-63   | Gobo 1 Shake      |              |
|      | 64-67   | Gobo 2 Shake      |              |
|      | 68-71   | Gobo 3 Shake      |              |

|      |         |                                |                   |
|------|---------|--------------------------------|-------------------|
|      | 72-75   | Gobo 4 Shake                   |                   |
|      | 76-79   | Gobo 5 Shake                   |                   |
|      | 80-83   | Gobo 6 Shake                   |                   |
|      | 84-87   | Gobo 7 Shake                   |                   |
|      | 88-91   | Gobo 8 Shake                   |                   |
|      | 92-95   | Gobo 9 Shake                   |                   |
|      | 96-99   | Gobo 10 Shake                  |                   |
|      | 100-103 | Gobo 11 Shake                  |                   |
|      | 104-107 | Gobo 12 Shake                  |                   |
|      | 108-111 | Gobo 13 Shake                  |                   |
|      | 112-115 | Gobo 14 Shake                  |                   |
|      | 116-119 | Gobo 15 Shake                  |                   |
|      | 120-123 | Gobo 16 Shake                  |                   |
|      | 124-127 | Gobo 17 Shake                  |                   |
|      | 128-190 | Forward flow from fast to slow |                   |
|      | 191-192 | Stop                           |                   |
|      | 193-255 | Reverse flow from slow to fast |                   |
| 13CH | 0-255   | Prism                          |                   |
|      | 0-63    | Prism off                      |                   |
|      | 64-127  | Prism 1                        | 8-facet circular  |
|      | 128-191 | Prism 2                        | 24-facet circular |
|      | 192-255 | Both prisms                    |                   |
| 14CH | 0-255   | Prism Pos                      |                   |
|      | 0-127   | 0-360 degrees                  |                   |
|      | 128-190 | Forward flow from fast to slow |                   |
|      | 191-192 | Stop                           |                   |
|      | 193-255 | Reverse flow from slow to fast |                   |
| 15CH | 0-255   | Frost                          |                   |
|      | 0-127   | Off                            |                   |
|      | 128-255 | On                             |                   |
| 16CH | 0-255   | Focus                          |                   |
| 17CH | 0-255   | Control                        |                   |
|      | 0-25    | No function                    |                   |
|      | 26-30   | Reset Effect                   |                   |
|      | 31-35   | Reset P/T                      |                   |
|      | 36-40   | Reset All                      |                   |
|      | 41-49   | No function                    |                   |

|  |         |                 |          |
|--|---------|-----------------|----------|
|  | 50-59   | Fan Full        |          |
|  | 60-69   | Fan Auto        |          |
|  | 70-79   | Fan Slow        |          |
|  | 80-129  | No function     |          |
|  | 130-139 | Pan Invert On   |          |
|  | 140-149 | Pan Invert Off  |          |
|  | 150-159 | Tilt Invert On  |          |
|  | 160-169 | Tilt Invert Off |          |
|  | 170-177 | Source FREQ     | 1000Hz   |
|  | 178-185 |                 | 3600Hz   |
|  | 186-193 |                 | 7200Hz   |
|  | 194-199 |                 | 25000Hz  |
|  | 200-204 | Dimmer Curve    | Linear   |
|  | 205-209 |                 | Square   |
|  | 210-214 |                 | I-Square |
|  | 215-219 |                 | S-Shape  |
|  | 220-229 | Dimmer Fast     |          |
|  | 230-239 | Dimmer Smooth   |          |
|  | 240-255 | No Function     |          |

## 19Ch Mode

| CH  | Value   | Function           | Description                                      |
|-----|---------|--------------------|--------------------------------------------------|
| 1CH | 0-255   | Pan                | -270°- 270°                                      |
| 2CH | 0-255   | Pan Fine           | 16 bit adjustable                                |
| 3CH | 0-255   | Tilt               | -135°- 135°                                      |
| 4CH | 0-255   | Tilt Fine          | 16 bit adjustable                                |
| 5CH | 0-255   | Pan/Tilt speed     | fast to slow                                     |
| 6CH | 0-255   | Dimmer             | Dark to light                                    |
| 7CH | 0-255   | Dimmer Fine        | 16 bit adjustable                                |
| 8CH | 0-255   | Strobe             |                                                  |
|     | 0-5     | Open               |                                                  |
|     | 6-55    | Synchronous strobe | The larger value, the faster speed               |
|     | 56-105  | Pulse strobe       | The larger value, the faster speed               |
|     | 106-155 | Random strobe      | The larger value, the faster speed               |
|     | 156-205 | Pulse open         | The larger value, the faster speed Dark to light |

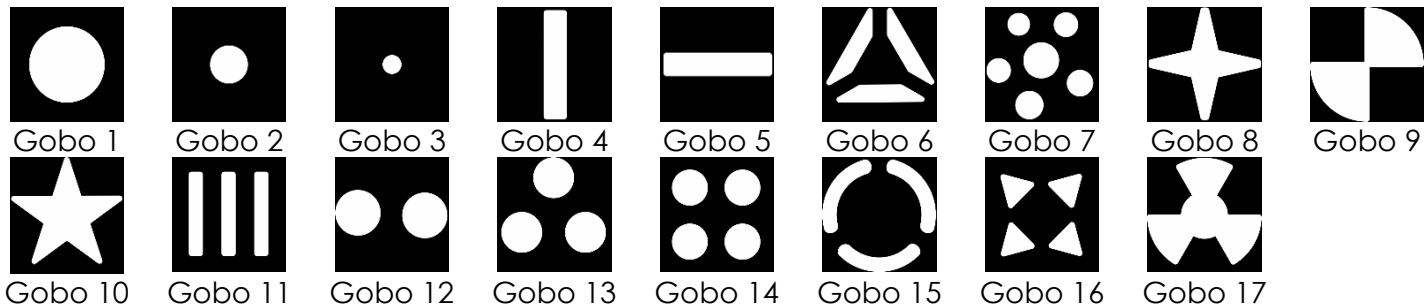
|      |         |                   |                                                  |
|------|---------|-------------------|--------------------------------------------------|
|      | 206-255 | Pulse close       | The larger value, the faster speed Light to dark |
| 9CH  | 0-255   | Cyan              |                                                  |
| 10CH | 0-255   | Magenta           |                                                  |
| 11CH | 0-255   | Yellow            |                                                  |
| 12CH | 0-255   | Color Wheel       |                                                  |
|      | 0-5     | White             |                                                  |
|      | 6-15    | White+Red         |                                                  |
|      | 16-25   | Red               |                                                  |
|      | 26-35   | Red+Cyan          |                                                  |
|      | 36-45   | Cyan              |                                                  |
|      | 46-55   | Cyan+Green        |                                                  |
|      | 56-65   | Green             |                                                  |
|      | 66-75   | Green+Lavender    |                                                  |
|      | 76-85   | Lavender          |                                                  |
|      | 86-95   | Lavender+Yellow   |                                                  |
|      | 96-105  | Yellow            |                                                  |
|      | 106-115 | Yellow+Magenta    |                                                  |
|      | 116-125 | Magenta           |                                                  |
|      | 126-135 | Magenta+Amber     |                                                  |
|      | 136-145 | Amber             |                                                  |
|      | 146-155 | Amber+CTO         |                                                  |
|      | 156-165 | CTO               |                                                  |
|      | 166-175 | CTO+CTB           |                                                  |
|      | 176-185 | CTB               |                                                  |
|      | 186-195 | CTB+Pink          |                                                  |
|      | 196-205 | Pink              |                                                  |
|      | 206-215 | Pink+Blue         |                                                  |
|      | 216-225 | Blue              |                                                  |
|      | 226-235 | Blue+UV Blue      |                                                  |
|      | 236-245 | UV Blue           |                                                  |
|      | 246-255 | Color wheel spin  | Slow to Fast                                     |
| 13CH | 0-255   | Static Gobo Wheel |                                                  |
|      | 0-8     | Open              |                                                  |
|      | 9-11    | Gobo 1            |                                                  |
|      | 12-14   | Gobo 2            |                                                  |
|      | 15-17   | Gobo 3            |                                                  |
|      | 18-20   | Gobo 4            |                                                  |



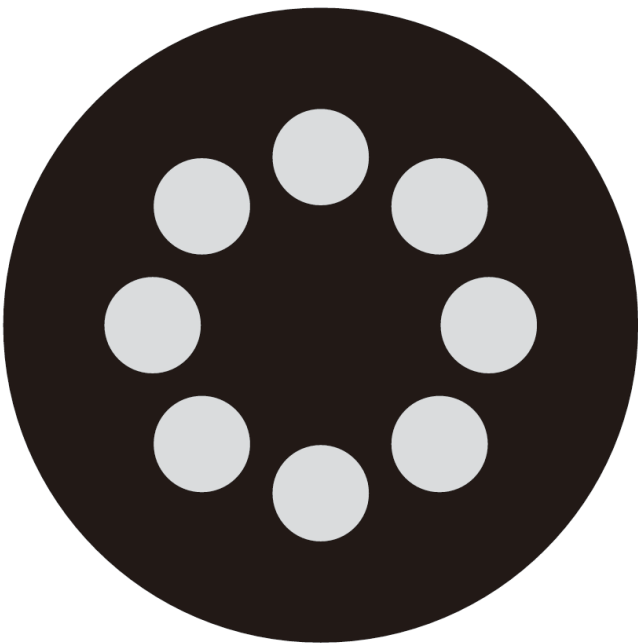
|      |         |                                |                   |
|------|---------|--------------------------------|-------------------|
|      | 21-23   | Gobo 5                         |                   |
|      | 24-26   | Gobo 6                         |                   |
|      | 27-29   | Gobo 7                         |                   |
|      | 30-32   | Gobo 8                         |                   |
|      | 33-35   | Gobo 9                         |                   |
|      | 36-38   | Gobo 10                        |                   |
|      | 39-41   | Gobo 11                        |                   |
|      | 42-44   | Gobo 12                        |                   |
|      | 45-47   | Gobo 13                        |                   |
|      | 48-50   | Gobo 14                        |                   |
|      | 51-53   | Gobo 15                        |                   |
|      | 54-56   | Gobo 16                        |                   |
|      | 57-59   | Gobo 17                        |                   |
|      | 60-63   | Gobo 1 Shake                   |                   |
|      | 64-67   | Gobo 2 Shake                   |                   |
|      | 68-71   | Gobo 3 Shake                   |                   |
|      | 72-75   | Gobo 4 Shake                   |                   |
|      | 76-79   | Gobo 5 Shake                   |                   |
|      | 80-83   | Gobo 6 Shake                   |                   |
|      | 84-87   | Gobo 7 Shake                   |                   |
|      | 88-91   | Gobo 8 Shake                   |                   |
|      | 92-95   | Gobo 9 Shake                   |                   |
|      | 96-99   | Gobo 10 Shake                  |                   |
|      | 100-103 | Gobo 11 Shake                  |                   |
|      | 104-107 | Gobo 12 Shake                  |                   |
|      | 108-111 | Gobo 13 Shake                  |                   |
|      | 112-115 | Gobo 14 Shake                  |                   |
|      | 116-119 | Gobo 15 Shake                  |                   |
|      | 120-123 | Gobo 16 Shake                  |                   |
|      | 124-127 | Gobo 17 Shake                  |                   |
|      | 128-190 | Forward flow from fast to slow |                   |
|      | 191-192 | Stop                           |                   |
|      | 193-255 | Reverse flow from slow to fast |                   |
| 14CH | 0-255   | Prism                          |                   |
|      | 0-63    | Prism off                      |                   |
|      | 64-127  | Prism 1                        | 8-facet circular  |
|      | 128-191 | Prism 2                        | 24-facet circular |

|      |         |                                |                   |
|------|---------|--------------------------------|-------------------|
|      | 192-255 | Both prisms                    |                   |
| 15CH | 0-255   | Prism Pos                      |                   |
|      | 0-127   | 0-360 degrees                  |                   |
|      | 128-190 | Forward flow from fast to slow |                   |
|      | 191-192 | Stop                           |                   |
|      | 193-255 | Reverse flow from slow to fast |                   |
| 16CH | 0-255   | Frost                          |                   |
|      | 0-127   | Off                            |                   |
|      | 128-255 | On                             |                   |
| 17CH | 0-255   | Focus                          |                   |
| 18CH | 0-255   | Focus Fine                     | 16 bit adjustable |
| 19CH | 0-255   | Control                        |                   |
|      | 0-25    | No function                    |                   |
|      | 26-30   | Reset Effect                   |                   |
|      | 31-35   | Reset P/T                      |                   |
|      | 36-40   | Reset All                      |                   |
|      | 41-49   | No function                    |                   |
|      | 50-59   | Fan Full                       |                   |
|      | 60-69   | Fan Auto                       |                   |
|      | 70-79   | Fan Slow                       |                   |
|      | 80-129  | No function                    |                   |
|      | 130-139 | Pan Invert On                  |                   |
|      | 140-149 | Pan Invert Off                 |                   |
|      | 150-159 | Tilt Invert On                 |                   |
|      | 160-169 | Tilt Invert Off                |                   |
|      | 170-177 | Source FREQ                    | 1000Hz            |
|      | 178-185 |                                | 3600Hz            |
|      | 186-193 |                                | 7200Hz            |
|      | 194-199 |                                | 25000Hz           |
|      | 200-204 | Dimmer Curve                   | Linear            |
|      | 205-209 |                                | Square            |
|      | 210-214 |                                | I-Square          |
|      | 215-219 |                                | S-Shape           |
|      | 220-229 | Dimmer Fast                    |                   |
|      | 230-239 | Dimmer Smooth                  |                   |
|      | 240-255 | No Function                    |                   |

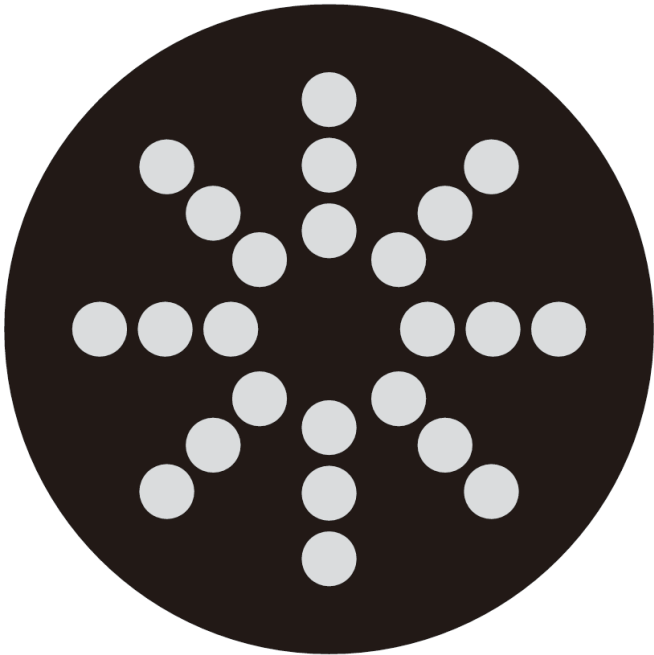
Static gobo wheel in order:



Prism



Prism 1: 8-facet circular



Prism 2: 24-facet circular

## 6.SPECIFICATIONS

### CONSTRUCTION/PHYSICAL

Dimensions: 516x329x222mm

Weight: 13,7 Kg

Exterior Color: Black

Housing Material: Magnesium-aluminum die-casting +aluminum profile+  
high-quality plastic

Protection rating: IP66

### DYNAMIC EFFECTS

Dimmer: Electronic, 16 bit

Strobe: Electronic

Strobe Rate: 1-25Hz

Standalone: Yes

Colour Mixing: CMY

Colour wheel: 12 colors + white

CRI: >70Ra

Lux: 87500@20m (White, 1°)

Laser source total lumen output: 6800lm

Light Source temperature: 9200K

Gobo wheels: 17 static effects

Prism: 8-facet circular and 24-facet circular with  
possibility of using both at the same time

Frost: Yes

Pan movement: 540°, 16 bit

Tilt movement: 270°, 16 bit

### CONNECTIONS

Power Connection: PowerCon True1

DMX Connection: XLR 5-pin

Art-Net Connection: RJ-45

## CONTROL

Control Protocols: DMX/ArtNet/sACN/RDM

DMX Channels: 14CH/17CH/19CH

Build-in Effects: Yes

## ELECTRICAL

Power Supply Voltage: 100-240V 50/60Hz

Maximum Power Consumption: 190W

Light Source: 120W phosphor laser

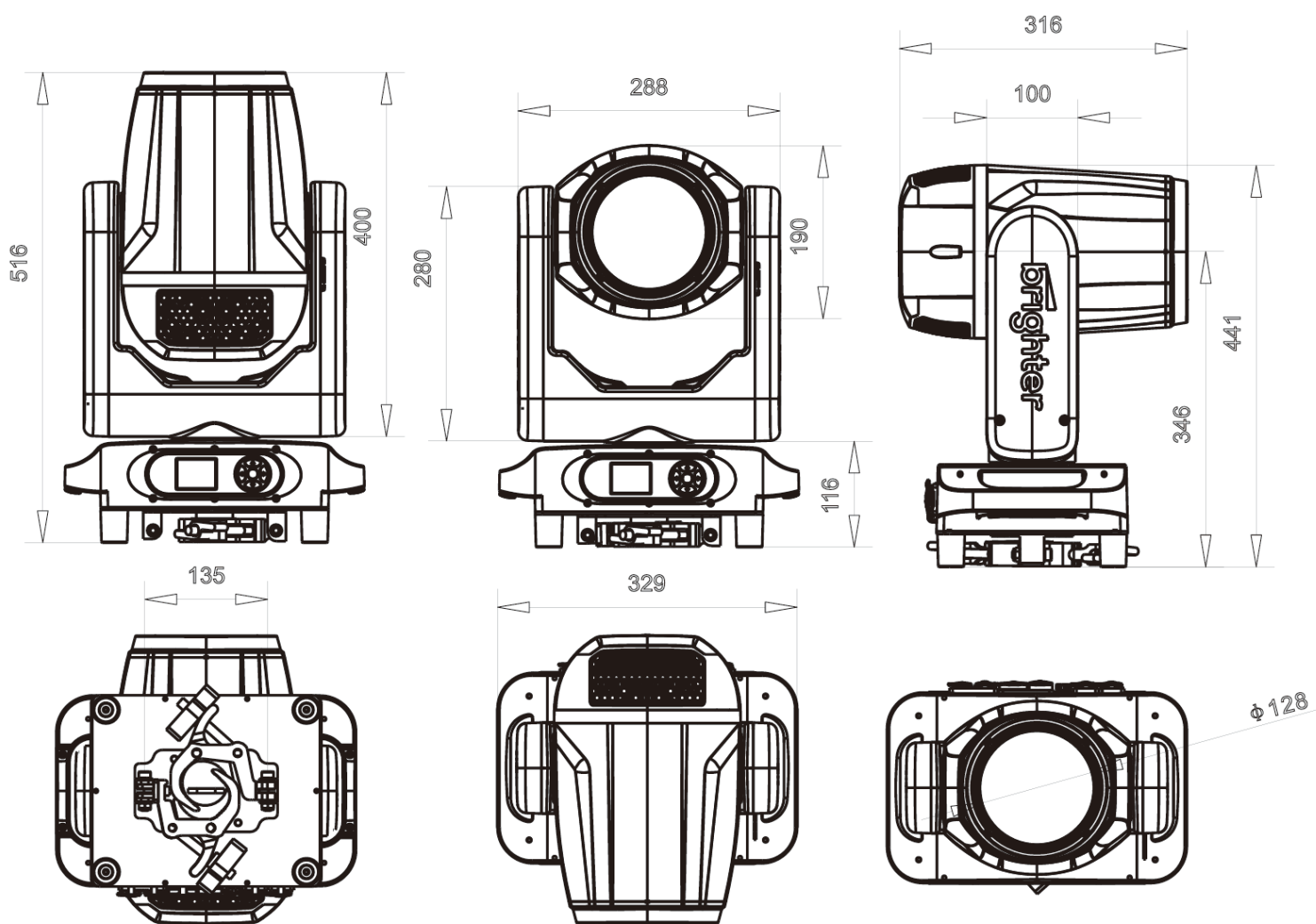
Estimated Light Source Lifespan: 12 000h

## OPTIC

Beam angle: 1°

Focus: Electronic, 16 bit

## 7.DIMENSIONAL DRAWINGS





**BRIGHTER LIGHTING SP. Z O.O.**

ul. Warszawska 111

32-087 Bibice

POLAND

NIP: 9442248196

REGON: 361197164

The manufacturer reserves the right to make changes to technical parameters

