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OUTBACK180B

Outdoor 180W LED Moving Head Beam

USER MANUAL



For your safety, please read this user manual carefully before use.

Event Lighting reserves the right to revise the manual at any time. Information and specifications within this manual are subject to change without notice. Event Lighting assumes no liability or responsibility for any errors or omissions. Please consult Event Lighting for any clarification or information regarding this item.

Version 1.0 (24/03/2025)

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1. Safety information



Please read the instruction carefully which includes important information about the installation, usage and maintenance.

WARNING

Please keep this user manual for future reference. If you sell or transfer the unit to another user, ensure they receive the manual and understand the instructions.

Important:

Damage resulting from failure to follow this manual is not covered under warranty. The dealer is not liable for any defects or malfunctions caused by improper use.

Safety Precautions:

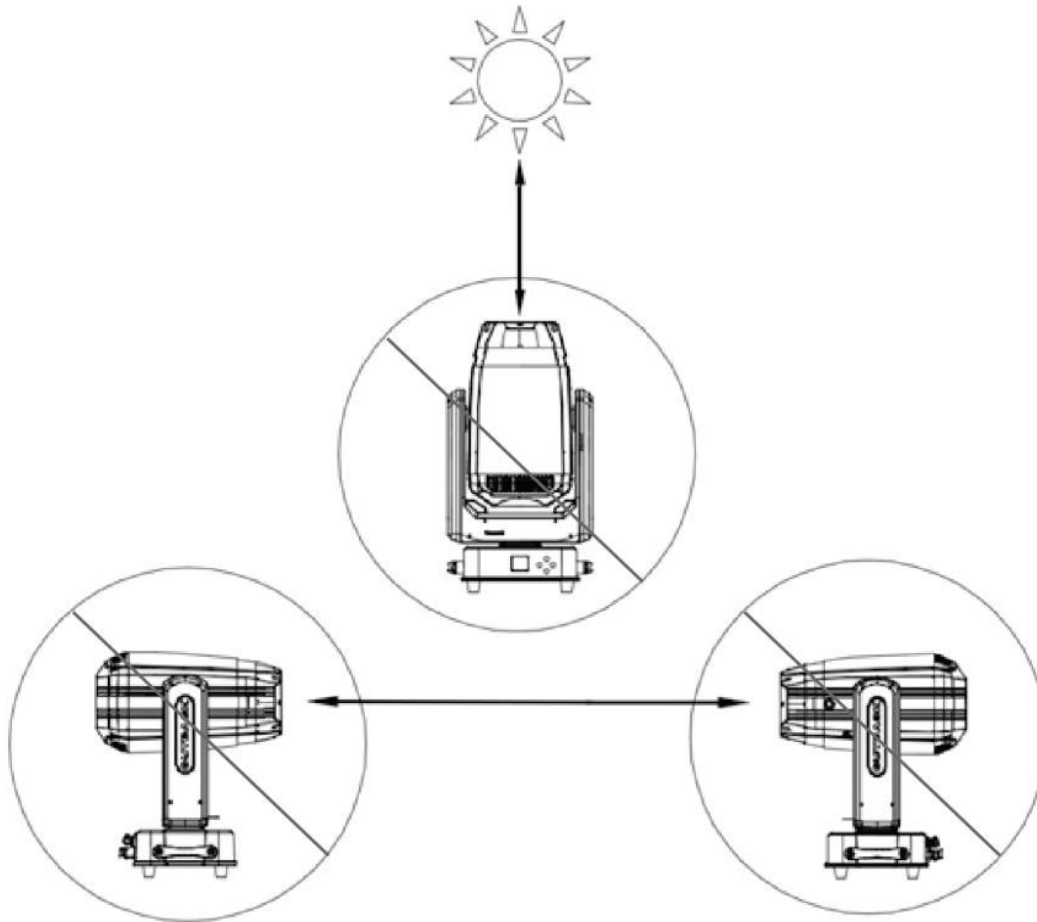
- Carefully unpack and inspect the device for transportation damage before use. If any damage is found, do not use the device—contact your local dealer or manufacturer immediately.
- **Do not** connect the device to a dimmer pack.
- Installation and operation must be performed by a qualified professional.
- The yellow/green conductor must be properly grounded to avoid electric shock.
- Always disconnect the power before servicing, cleaning, or when the device is not in use for an extended period.
- Keep the fixture out of reach of children.
- Use a safety cable when mounting the unit. Always carry the fixture by its base.
- Ensure the device is securely mounted to prevent vibration or accidental movement during operation.
- Install the device in a well-ventilated area, maintaining at least **50 cm clearance** from adjacent surfaces. Do not block ventilation slots, as overheating may occur.
- Verify that the device is connected to the correct voltage, as specified in the manual or on the product label.
- Operating temperature range: **-15°C to 45°C**. Do not operate the device outside this range.
- Before replacing any accessories, ensure the power is disconnected to prevent electric shock.

Operational Safety:

- Keep flammable materials away from the fixture during operation to prevent fire hazards.
- Ensure that the power cable is not crimped or damaged. If damaged, replace it immediately.
- The fixture's surface temperature may reach **up to 65°C** — do not touch the housing with bare hands during operation.
- Prevent flammable liquids, water, or metal from entering the unit. If this occurs, immediately disconnect the power.
- Do not operate the device in excessively dirty or dusty environments. Clean the fixture regularly.
- Avoid touching any internal wires while the fixture is operating, as this poses a risk of electric shock.
- Keep power cables separate from other wires to prevent entanglement.
- Maintain a minimum **5-meter distance** between the fixture and any objects.
- Avoid direct eye exposure to the light source while the fixture is in operation.
- If the housing or lenses become visibly damaged, they must be replaced with original manufacturer parts only.

Maintenance & Handling:

- Do not use the fixture if it becomes damaged. Do not attempt repairs yourself—unskilled repairs can cause further damage or malfunction. Contact an authorized service center for repairs.
- When transporting the device, use the original packaging and ensure **PAN/TILT locks are released before** packing.
- Avoid exposing the front lens of the fixture to direct sunlight or strong light sources during unpacking, installation, operation, or long periods of inactivity outdoors, as this can cause severe internal damage.
- After any contact with water, ensure the fixture is wiped down, dry and has been ventilated before storing.
- To ventilate the unit, run the fixture upright in a dry area for at least 15 minutes and up to 2 hours (depending on exposure to liquids). Ensure the release valve (Item 4 in section 2.3) is not covered so any water inside the unit can evaporate.
- If you notice any water inside the fixture (Behind the lens or the LCD display), do not open the fixture. Contact your purchasing agent and arrange repair.
- No parts in this unit are user serviceable. Do not open the fixture, if there is issues with this fixture please contact your purchasing agent for more advice. **Opening this fixture will void the warranty.**

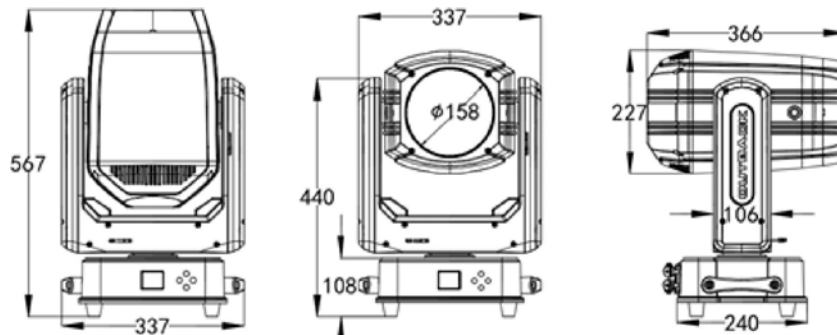


2. Introduction

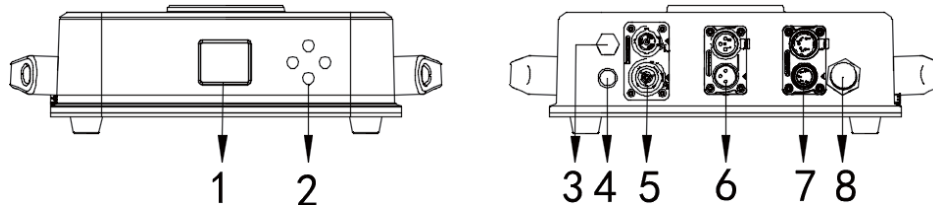
2.1. Package & Transportation :

Do not pack the device into carton or flight case before cooling completely, only 2 flight cases can be allowed to stack.

2.2. Dimensions (mm)



2.3. Overview:



| | | |
|-------------------------------|---|------------------------------------|
| 1.Display | Show menus and functions | |
| 2.Buttons | MENU | To move backward or leave the menu |
| | ^ UP | To go backward to move up |
| | v DOWN | To go forward to move down |
| | ENTER | To confirm the selected function |
| 3.Release Valve | | |
| 4.Fuse | | |
| 5.Power IN/OUT | To connect to supply power and next fixture | |
| 6.DMX IN/OUT | 3-PIN XLR (Firmware optional) | |
| 7.DMX IN/OUT | 5-PIN XLR (Firmware optional) | |
| 8.Waterproof wireless antenna | | |

2.4. Accessories :

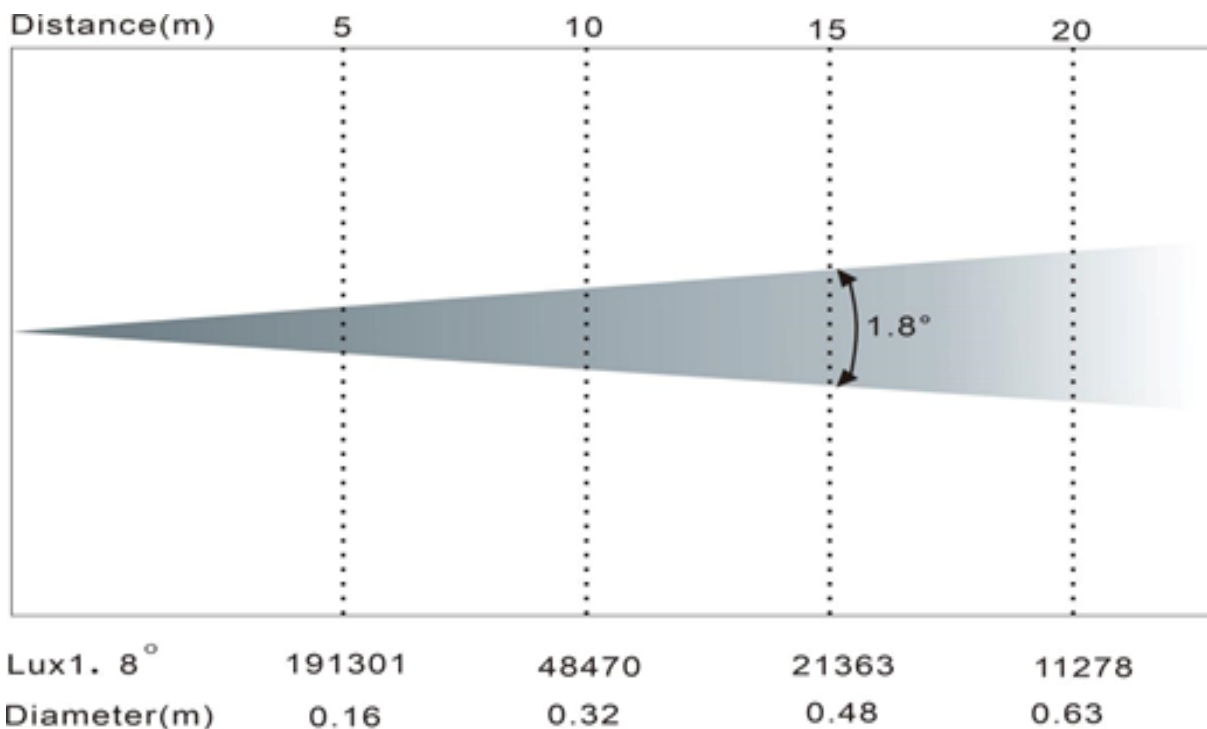
| Item | Qty | |
|---------------|-----|-----|
| Omega bracket | 2 | PCS |
| Safety cable | 1 | PCS |
| Signal cable | 1 | PCS |
| Power cable | 1 | PCS |

3. Technical Specification

3.1. Specification

| | | |
|------------------------------------|---|--|
| AC POWER/ Frequency | 100-264Vac; 50/60Hz | |
| Power Consumption | 230Vac/267W;110Vac/281W | |
| Light Source | 180W LED | |
| Color Temperature | 9000K | |
| Zoom Range | 1.8° | |
| Color System | Color wheel-1 | 14 + open |
| | Color wheel-2 | 8 + open |
| Gobo Wheels | Mixed gobo wheel | 10 fixed + 4 rotated + open (exchangeable) |
| Movement | PAN | 540° |
| | TILT | 270° |
| | Automatic PAN/TILT repositioning | |
| | 16-bit precision scanning | |
| | Mechanical PAN/TILT lock for safe transportation and maintenance | |
| Construction | Display | TFT screen |
| | DMX IN/OUT | 3-PIN/5-PIN XLR(Firmware optional) |
| | Power IN/OUT | Waterproof power connector in/out |
| | Protection rating | IP65 |
| Control and Programming | DMX channels | 22CH |
| | Protocols | DMX 512, RDM, W-DMX.(Art -Net, sACN, optional) |
| | Firmware update | Via DMX |
| Dynamic Effects | 0-100% continuous dimming and strobe effects | |
| | Two indexing/rotating prisms (4-facet circular prism + 4-facet linear prism, overlap) | |
| | Independent frost effect | |
| | Motorized focus system | |
| Dimensions | 337 x 240 x 567 mm | |
| Weight | 17.5 kg | |

32. Photometrics :



4. Operation

*Press [MENU] button to control menus.

*Press [^UP] and [vDOWN] button to navigate the menu structure.

*To select menu option or confirm the selection, press [ENTER]

*Return to upper level or without any change, press [MENU] button














*With battery inside, press one of buttons for 5 seconds to operate the menu if disconnect the power.





















Note: The screen will be automatically locked if without any operation for a long time, and press [MENU] button in 5 seconds to unlock the screen.





















Main functions:

| | | | | |
|----------------|-----------------|--|--|--|
| Address | 001-512 | | | |
| Run Mode | DMX | 22CH | | |
| | AUTO | Master | Master/Alone | |
| | | Run Mode | Continuous/ Step | |
| | | Run Speed | 0-255 | |
| Manual | Pan Tilt | | | |
| Setting | Pan Reverse | On / Off | | |
| | Tilt Reverse | On / Off | | |
| | Screen Reverse | Up / Down /Auto | | |
| | Auto Reposition | On / Off | | |
| | Pan Angle | 540° / 360° / 180° | | |
| | Tilt Angle | Full / 180° / 90° | | |
| | Limit Mode | Off / Up /Down | | |
| | Password | On / Off | | |
| | DMX Loss | Hold / Black | | |
| | Fan Mode | Auto / Full / ECO | | |
| | DMX Backlight | On / Off | | |
| | Dimmer Curve | Line / Square Law / Inv Square / S-Curve | | |
| | Dimmer Freq | 600 / 1200 / 1800 / 3600 / 7200 / 25K | | |
| | WDMX setting | WDMX Off / WDMX On / WDMX Reset | | |
| | Calibrate | Password Pan | | |
| | Factory Set | On / Off | | |
| Reset | Reset All | | | |
| | Reset Scan | | | |
| | Reset Other | | | |
| System Info | Temperature | | | |
| | Error List | | | |
| | SoftwareVersion | | | |
| | System Update | On / Off | | |
| | Sys Info | | | |
| Program | Select Prog | Program 1 — 10 | | |
| | Program Edit | Auto Program 1 Auto Program 10 | Test Step1 = Scene Step8 = Scene | |
| | Scene Edit | Scene Edit: 001-128 | Pan...Pan =.. SceneTime =.. | |

5. DMX Protocol

| CHANNEL | VALUE | FUNCTION |
|---------|-----------|---|
| 22ch | | |
| 1 | 0 - 255 | Pan 0° - 540° |
| 2 | 0 - 255 | Pan fine |
| 3 | 0 - 255 | Tilt 0° - 270° |
| 4 | 0 - 255 | Tilt fine |
| 5 | 0 - 255 | Pan/Tilt speed - fast to slow X/Y |
| 6 | | Shutter |
| | 0 - 3 | Off |
| | 4 - 7 | On |
| | 8 - 76 | Synchronized strobe slow to fast |
| | 77 - 145 | Pulse strobe slow to fast |
| | 146 - 215 | Random strobe slow to fast |
| | 216 - 255 | On |
| 7 | 0 - 255 | Dimmer 0% - 100% |
| 8 | 0 - 255 | Dimmer fine |
| 9 | | Color wheel 1 |
| | 0-3 | Open  |
| | 4-7 | Color 1  |
| | 8-11 | Color 2  |
| | 12-15 | Color 3  |
| | 16-19 | Color 4  |
| | 20-23 | Color 5  |
| | 24-27 | Color 6  |
| | 28-31 | Color 7  |
| | 32-35 | Color 8  |
| | 36-39 | Color 9  |
| | 40-43 | Color 10  |
| | 44-47 | Color 11  |
| | 48-51 | Color 12  |

| | | |
|----|---------|--|
| 9 | 52-55 | Color 13  |
| | 56-59 | Color 14  |
| | 60-219 | Split Colours |
| | 220-235 | Colour wheel continuous rotation CCW fast to slow |
| | 236-239 | Stop |
| | 240-255 | Colour wheel continuous rotation CW slow to fast |
| 10 | | Colour wheel 2 |
| | 0-3 | Open  |
| | 4-7 | Color 1  |
| | 8-11 | Color 2  |
| | 12-15 | Color 3  |
| | 16-19 | Color 4  |
| | 20-23 | Color 5  |
| | 24-24 | Color 6  |
| | 28-31 | Color 7  |
| | 32-35 | Color 8  |
| | 36-219 | Split Colours |
| | 220-235 | Colour wheel continuous rotation CCW fast to slow |
| | 236-239 | Stop |
| | 240-255 | Colour wheel continuous rotation CW slow to fast |
| 11 | | Gobo Wheel |
| | 0-1 | Open  |
| | 2-3 | Gobo 1  |
| | 4-5 | Gobo 2 - Rotating  |
| | 6-7 | Gobo 3  |
| | 8-9 | Gobo 4  |
| | 10-11 | Gobo 5  |
| | 12-13 | Gobo 6 - Rotating  |
| | 14-15 | Gobo 7  |
| | 16-17 | Gobo 8  |

| | | |
|----|---------|--|
| | 18-19 | Gobo 9  |
| | 20-21 | Gobo 10 - Rotating  |
| | 22-23 | Gobo 11  |
| | 24-25 | Gobo 12  |
| | 26-27 | Gobo 13  |
| | 28-29 | Gobo 14 - Rotating  |
| | 30-36 | Gobo 1 - Shaking  |
| | 37-43 | Gobo 2 - Shaking  |
| | 44-50 | Gobo 3 - Shaking  |
| | 51-57 | Gobo 4 - Shaking  |
| | 58-64 | Gobo 5 - Shaking  |
| | 65-71 | Gobo 6 - Shaking  |
| | 72-78 | Gobo 7 - Shaking  |
| | 79-85 | Gobo 8 - Shaking  |
| | 86-92 | Gobo 9 - Shaking  |
| | 93-99 | Gobo 10 - Shaking  |
| | 100-106 | Gobo 11 - Shaking  |
| | 107-113 | Gobo 12 - Shaking  |
| | 114-120 | Gobo 13 - Shaking  |
| | 121-127 | Gobo 14 - Shaking  |
| | 128-187 | Colour wheel continuous rotation CCW fast to slow |
| | 188-195 | Stop |
| | 196-255 | Colour wheel continuous rotation CW slow to fast |
| 12 | | Gobo Rotation |
| | 0-127 | Gobo Index |

| | | |
|----|----------|---|
| | 128-187 | Gobo continuous rotation CCW fast to slow |
| | 188-195 | Stop |
| | 196-255 | Gobo continuous rotation CW slow to fast |
| 13 | 0 - 255 | Focus (0% - 100%) |
| 14 | 0 - 255 | Focus fine |
| 15 | | Prism 1 (24-facet circular) |
| | 0-127 | Off |
| | 128- 255 | On |
| 16 | | Prism 1 rotation |
| | 0-127 | Prism 1 Index |
| | 128-187 | Prism 1 counter- clockwise rotation, fast to slow |
| | 188-195 | Stop |
| | 196-255 | Prism 1 clockwise rotation, slow to fast |
| 17 | | Prism 2 (5-facet linear) |
| | 0-127 | Off |
| | 128 -255 | On |
| 18 | | Prism 2 rotation |
| | 0-127 | Prism 2 Index |
| | 128-187 | Prism 2 counter-clockwise rotation, fast to slow |
| | 188-195 | Stop |
| | 196- 255 | Prism 2 clockwise rotation, slow to fast |
| 19 | | Function |
| | 0-31 | No function |
| | 32-63 | Reset Pan and Tilt Motor (hold 5s) |
| | 64-95 | Reset Other Motor (hold 5s) |
| | 96-127 | Reset All Motor (hold 5s) |
| | 128-137 | Built - in program 1 |
| | 138-147 | Built- in program 2 |

| | | |
|----|----------|---------------------------|
| | 148-157 | Built- in program 3 |
| | 158-167 | Built- in program 4 |
| | 168-177 | Built - in program 5 |
| | 178 -187 | Built- in program 6 |
| | 188 -197 | Built- in program 7 |
| | 198- 207 | Built- in program 8 |
| | 208- 217 | Built- in program 9 |
| | 218-227 | Built- in program 10 |
| | 228-255 | No function |
| 20 | | Frost |
| | 0-127 | Off |
| | 128- 255 | On |
| 21 | | Movement macro |
| | 0-5 | No function |
| | 6-30 | Movement macro 1 |
| | 31-55 | Movement macro 2 |
| | 56-80 | Movement macro 3 |
| | 81-105 | Movement macro 4 |
| | 106-130 | Movement macro 5 |
| | 131-155 | Movement macro 6 |
| | 156-180 | Movement macro 7 |
| | 181-205 | Movement macro 8 |
| | 206-230 | Movement macro 9 |
| | 231-255 | Movement macro 10 |
| 22 | 0-255 | Move speed (Fast to slow) |

6. Connecting Power & Data

6.1 Connecting Power

- Release PAN/TILT locks before connecting power.
- The fixture can be operated on 100 -260Vac, 50/60 Hz AC main power.
- The maximum power consumption is 281W.

The fixture must be grounded/earthed and able to be isolated from AC power. The AC power supply must incorporate a fuse or circuit breaker for fault protection. All wiring and connecting works must be handled by qualified electrician.

Power cables color code as below:

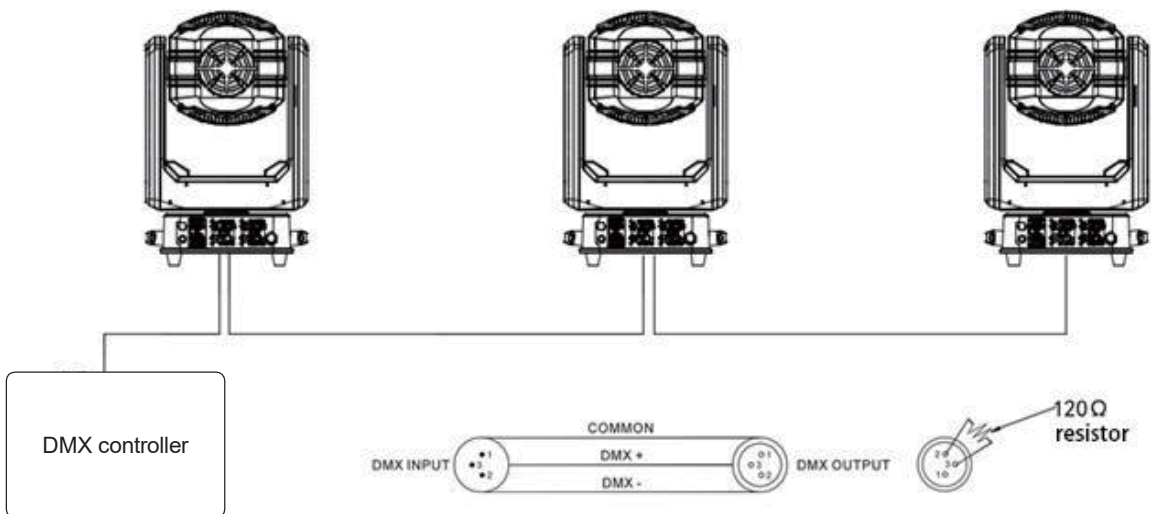
| Cable | Color (US) | Cable | Color (EU) | Symbol | Conductor |
|---|------------|---|--------------|--------|---------------|
|  | Black |  | Brown | L | Live |
|  | White |  | Blue | N | Neutral |
|  | Green |  | Yellow/Green | ⏏ Or ⏚ | Ground(earth) |

6.2 Connecting Data

The fixture is equipped with 3-PIN / 5-PIN XLR sockets for DMX IN/OUT. Normally 150 meters is workable for signal cable, and signal amplifier will be necessary if longer than this distance. Use a IP-rated XLR to connect the controller with the fixture or one fixture with another.

Building a serial DMX chain:

Connect the DMX data output from the controller to the fixture's data input socket. Connect the DMX output of the first fixture in the DMX chain with the DMX input of the next fixture. Always connect one output with the input of the next fixture until all fixtures are connected. Up to 32 fixtures can be connected to the same DMX link. Terminate the DMX out cable of the last fixture in the data link with a 120Ω DMX terminator.



7. Installation

7.1. General Instructions

This fixture is IP65-rated, making it suitable for both indoor and outdoor use. It is designed to be resistant to:

- **Dust** – Prevents dust from entering in amounts that could interfere with operation.
- **Water jets** – Protected against water sprayed from any direction.

Important Safety Notes:

1. Installation and operation must be performed by a qualified professional.
2. The fixture should be installed away from walkways, seating areas, and locations accessible to unauthorized personnel.
3. Never stand directly beneath the fixture during installation, removal, or servicing.

7.2 Installation Process

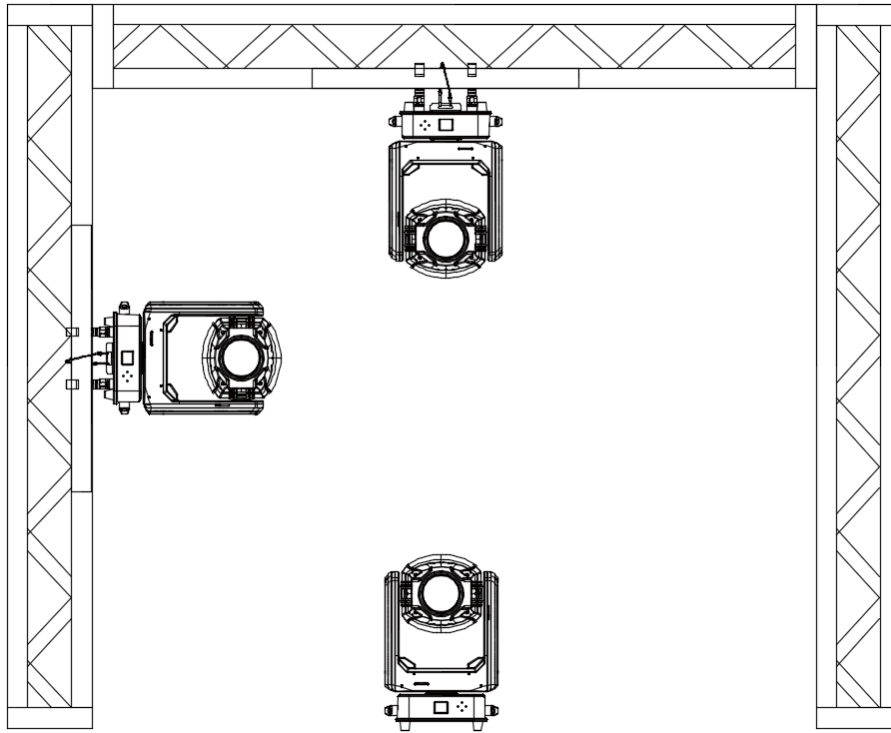
1. Check Equipment Integrity:

- Ensure that all clamps and safety cables are intact before installation.
- The truss or mounting structure must support at least six times the weight of the fixture without deformation.
- An additional safety cable is required and must support at least ten times the fixture's weight to prevent falling in case of clamp failure.
- Do not attach the safety cable to the bracket.

2. Mounting Options:

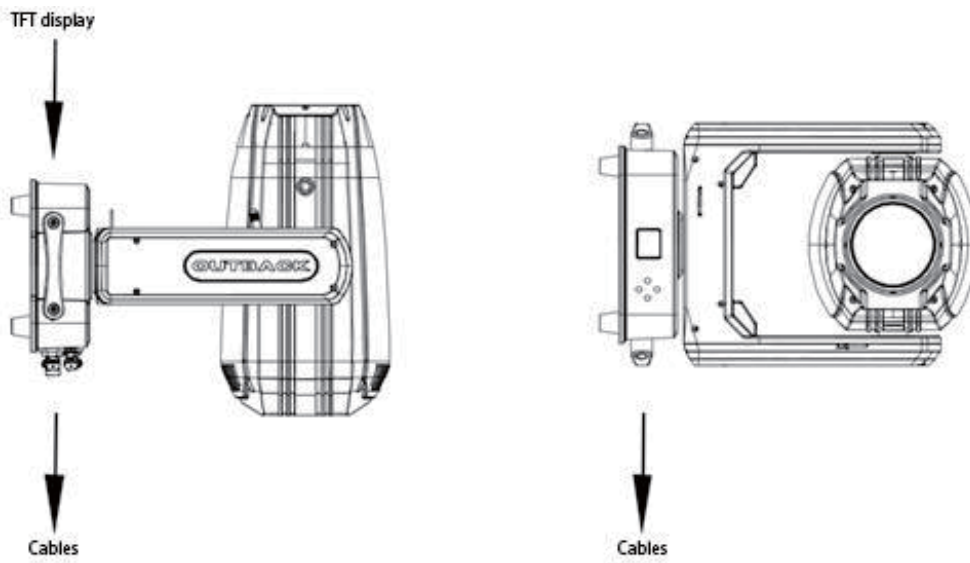
The fixture can be installed in three different positions:

- Hanging upside-down
- Mounted sideways on trussing
- Standing on the floor

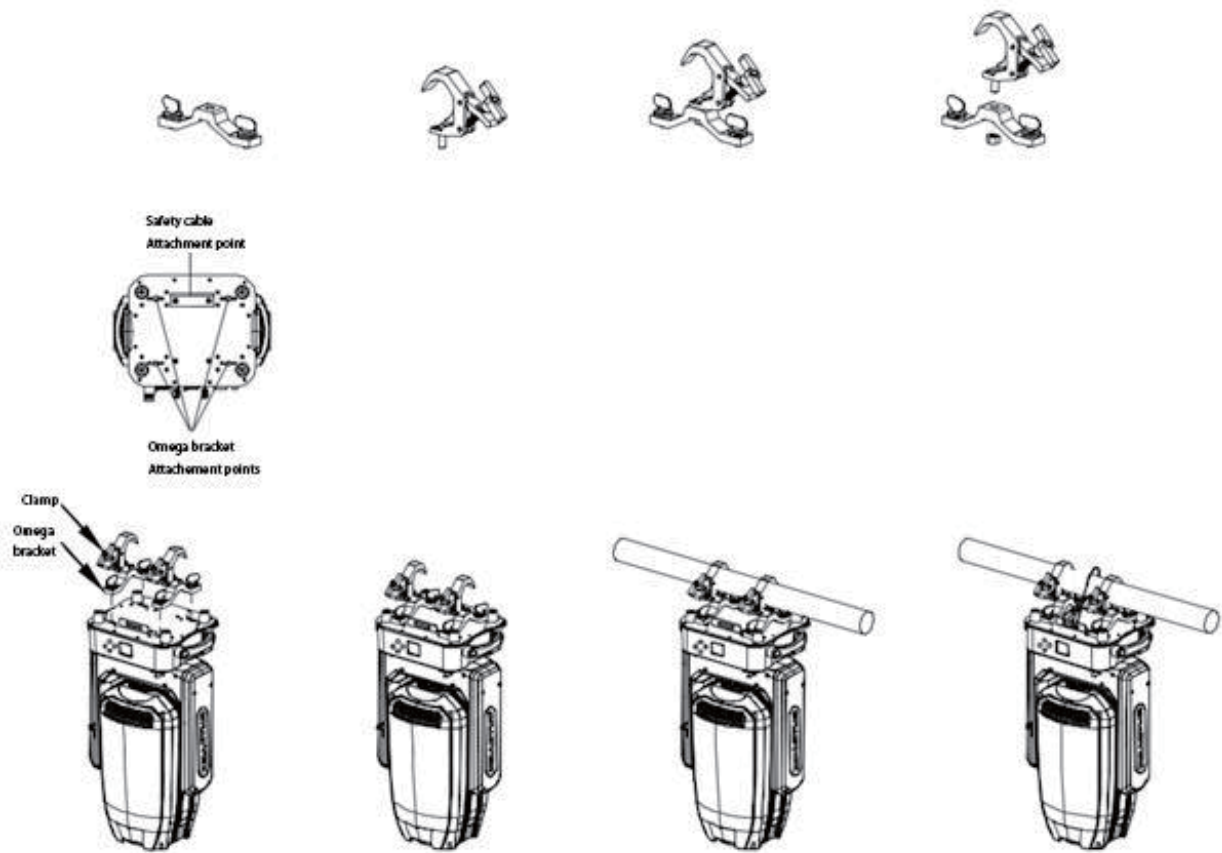


Side Mounting

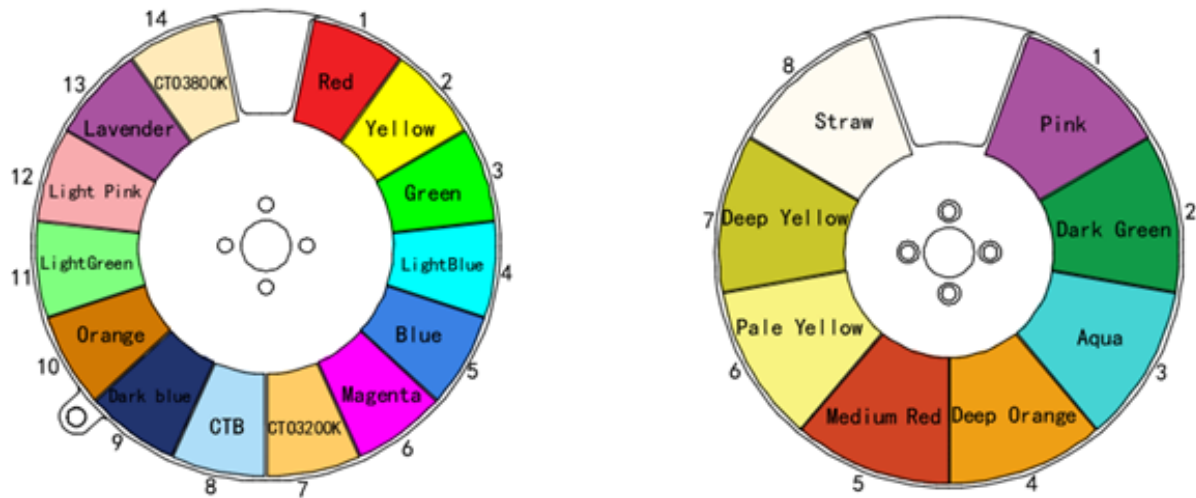
To maintain the IP65 rating integrity of the fixture, all cables must be towards the ground to prevent water accumulation around connectors.



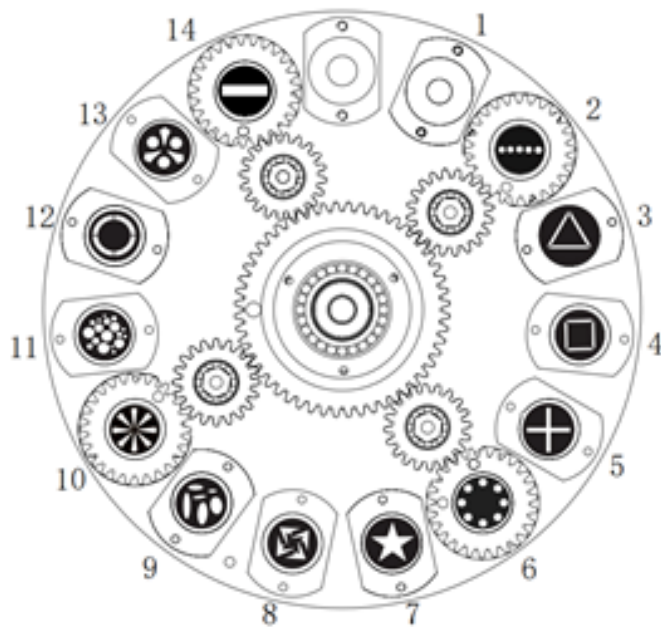
1). Installing steps



2). Color wheels



3). Gobo wheel



Pay attention to exchange gobo as below:

- There is a special coating on original gobo for heat resisting, and high temperature resistance material or high quality glass is asked for customized gobo.
- Customized gobo dimension, structure and material must same as original, it will be damaged if different and out of the range of warranty.
- Do not use the gobo with black coating on both sides, it will be nondurable as to absorb abundant heats.

| No | Gobo wheel | Gobo Diameter | Image Area Diameter | Gobo Thickness |
|----|------------------|---------------|---------------------|----------------|
| 1 | Mixed Gobo Wheel | 12mm | 5mm | 0.5 mm |

8. Troubleshooting

Error warning are mentioned in display when fixture fail and will disappear when it is repaired

| Problem | Potential cause(s) | Remedies |
|-----------------------------------|--|--|
| Fixture not respond when power on | No power | Power on |
| | Fuse damaged | Replace fuse |
| | No power output from PSU | Inspect PSU |
| | Internal circuit in poor contact | Reconnect |
| Fixture out of control | DMX cable is disconnected | Inspect DMX cable |
| | Incorrect DMX address or DMX mode | Inspect and enter into correct DMX address or DMX mode |
| Light output cuts off suddenly | Fixture is too hot | Power off and cool fixture; clean fixture; |
| PAN/TILE reset error | Inspect the position of magnet if fall off or damage | Adjust/Replace |
| | Whether there are obstacles around operating range | Inspect |
| | Weather if hall element on PAN/TILT is damaged | Inspect/Replace |
| | Whether the wire connecting the hall element on PAN/TILT and the PCB board are in poor contact or disconnected | Reconnect |
| | Whether motor is damaged | Inspect/Replace |
| | Whether the related circuit of motor drive PCB is damaged | Inspect/Replace |
| | Whether the encoder is damaged | Inspect/Replace |
| | Whether the wire connecting the encoder and PCB board are in poor contact or disconnected | Reconnect |
| | Inspect the position of magnet if fall off or damage | Inspect/Replace |
| | Whether obstacles around operating range | Inspect |

| | | |
|--------------------------------------|---|-----------------|
| Cyan/Magenta/Yellow /CTO reset error | Whether the hall element on color wheel is damaged | Inspect/Replace |
| | Whether the wire connecting the hall element on color wheel and PCB board in poor contact or disconnected | Reconnect |
| | Whether the related circuit of color wheel motor and drive PCB is damaged | Replace |
| Rotating Gobo wheel reset error | Inspect the position of magnet if fall off or damage | Inspect/Replace |
| | Whether obstacles around operating range | Inspect |
| | Whether the hall element on gobo wheel is damaged | Adjust/Replace |
| | Whether the wire connecting the hall element on color wheel and PCB board in poor contact or disconnected | Reconnect |
| | Whether the related circuit of gobo wheel motor and drive PCB is damaged | Replace |
| Prism reset error | Inspect the position of magnet if fall off or damage | Adjust/Replace |
| | Whether obstacles around operating range | Inspect |
| | Whether the hall element on prism is damaged | Adjust/Replace |
| | Whether the wire connecting the hall element on prism and PCB board in poor contact or disconnected | Reconnect |
| | Whether the related circuit of prism motor and drive PCB is damaged | Replace |
| Focus/Zoom reset error | Inspect the position of magnet if fall off or damage | Adjust/Replace |
| | Whether obstacles around operating range | Inspect |
| | Whether the hall element on focus or zoom is damaged | Adjust/Replace |

| | | |
|---|--|-----------|
| | Whether the wire connecting the hall element and PCB board in poor contact or disconnected | Reconnect |
| | Whether the related circuit of motor and drive PCB is damaged | Replace |
| Impure color | Light output to be feeble | Replace |
| | Dust or spot on color filter | Clean |
| | Color filter fall off or damage | Replace |
| Dim image | Dust or spot on optical lens | Clean |
| | Optical lens damaged | Replace |
| Noted! All these Potential causes for reference only, do not disassemble or maintenance by unqualified personnel | | |

9. Fixture cleaning

Regular cleaning is essential to maintain the fixture's performance and extend its lifespan. The buildup of dust, dirt, smoke particles, and fog fluid residues can reduce light output and impair cooling efficiency.

The required cleaning frequency depends on the operating environment. Factors that may necessitate more frequent cleaning include:

- Use of smoke or fog machines
- High airflow rates (e.g., near air conditioning vents)
- Airborne dust from stage effects, building structures, fittings, or outdoor environments

If any of these factors are present, inspect the fixture before operation and clean it as needed.

Cleaning Guidelines:

- Perform cleaning in a clean, dry, and well-lit area.
- Use only gentle pressure when cleaning optical components.
- For best results, use water with a mild detergent.
- Do not use alcohol, solvents, or abrasive materials, as they can damage optical components.
- Optical components are delicate and easily scratched—handle with care during cleaning.

Warranty

Please refer to your local dealer or contact Event Lighting.

www.event-lighting.com.au