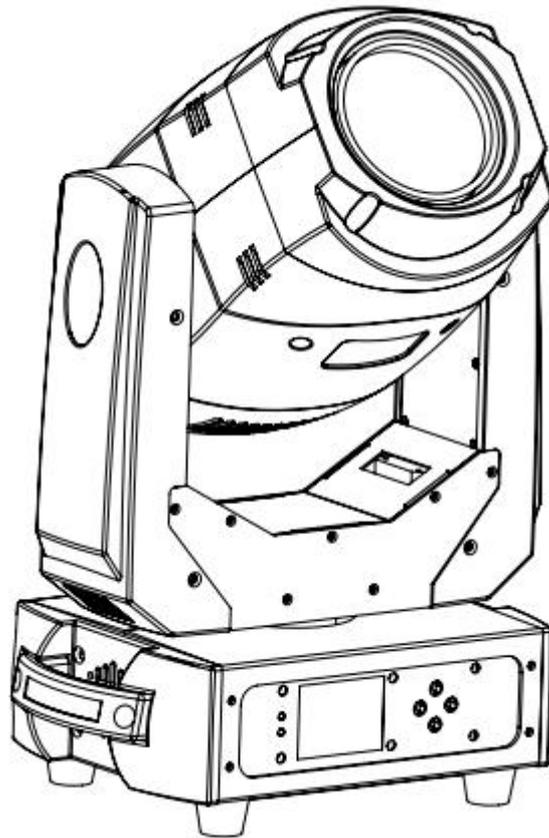


# **GY-Q4 200W LED SPOT+BEAM MOVING HEAD LIGHT**



## **USER MANUAL**



**KEEP THIS MANUAL FOR FUTURE NEEDS**

## Operational Manual

Thank you for purchasing this product. To take full advantage of all possibilities and for your own safety, please read this operating instructions very carefully before you start using this unit.

### BEFORE USE

- Before you start using this unit, please check if there is no transportation damage. Should there be any, do not use the device and consult your dealer first.
- This device has left our factory in absolutely perfect condition and well packed. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this manual.
- The manufacturer will not accept liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to the device.
- Please consider that damages caused by manual modifications to the device are not subject to warranty.

### SAFETY INSTRUCTIONS

**DANGEROUS VOLTAGE CONSTITUTING A RISK OF ELECTRIC SHOCK IS PRESENT WITHIN THIS UNIT!**

**Caution:** To reduce the risk of electric shock, do not remove the top cover. No user-serviceable parts inside. Refer servicing to qualified service personnel only.



Risk of electric shot!



Keep this device away from rain and moisture!



Read the manual



Unplug the mains power before remove the housing



Indoor use ONLY

**Caution:** Do not stare at operating lamp. May be harmful to the eye.

- To protect the environment, please try to recycle the packing material as much as possible.
- To prevent fire or shock hazard, do not expose this appliance to rain or moisture.
- This unit is for indoor use only.
- Don't place metal objects or spill liquid inside the unit. Electric shock or malfunction may result. If a foreign object enters the unit, immediately disconnect the mains power.
- Locate the fixture in a well ventilated spot, away from any flammable materials and/or liquids. The fixture must be fixed at least 50cm from surrounding walls.
- Don't cover any ventilation openings as this may result in overheating.
- Prevent use in dusty environments and clean the unit regularly.
- Keep the unit away from children.
- Inexperienced persons should not operate this device.
- Maximum safe ambient temperature is 40°C. Don't use this unit at higher ambient temperatures.
- Make sure the area below the installation place is free from unwanted persons during rigging, de-rigging and servicing.
- Allow the device about 10 minutes to cool down before servicing.
- The electrical installation should be carried out by qualified person only, according to the regulations for electric and mechanical safety in your country.
- Check that the available voltage is not higher than the one stated in the unit.
- The power cord should always be in perfect condition. Switch the unit immediately off when the power cord is squashed or damaged. It must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.
- Never let the power-cord come into contact with other cables!

- Don't connect the unit to any dimer pack.
- In order to prevent electric shock, do not open the cover. There are no user serviceable parts inside.
- The housing and lenses must be replaced if they are visibly damaged.
- Never repair a fuse or bypass the fuse holder. Always replace a damaged fuse with a fuse of the same type and electrical specifications!
- Due to safety reasons, it is prohibited to make unauthorized modifications to the unit.

**Important: Never look directly into the light source! Don't use the effect in the presence of persons suffering from epilepsy.**

## **Mounting and Installation**

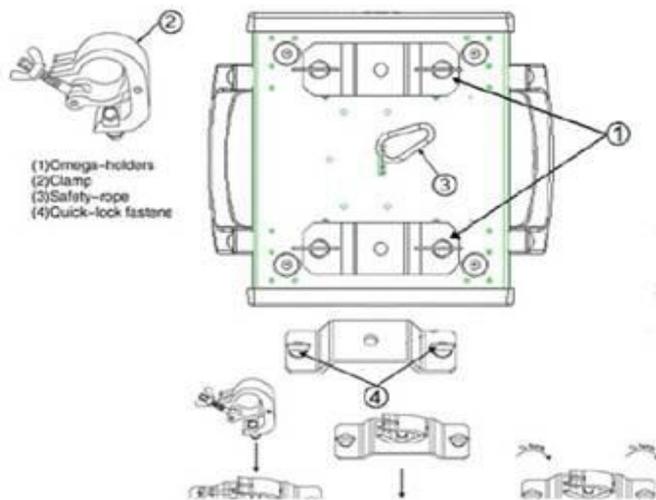
**Important: Fixtures must be installed by a Qualified electrician in accordance with all national and local electrical and construction codes and regulations.**

## **Overhead Rigging**

- For overhead installation, the fixture must be always secured with a safety wire that can bear at least 10 times the weight of the fixture.
- Make sure the area below the installation is free from unwanted persons during rigging, de-rigging and servicing.
- Locate the fixture in a well ventilated spot, far away from any flammable materials and/or liquids. The fixture must be fixed at least 50cm from surrounding walls.
- The device must be installed out of reach of people in outside areas where persons may walk by or be seated.
- Fixture installation must always be secured with a secondary safety attachment, such as an appropriate safety cable.
- Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.
- The fixture should be well fixed, a free-swinging mounting is dangerous and may not be considered!

## Clamp Mounting :

The LED moving head provides a unique mounting bracket assembly that integrates the bottom of the base, the included 'omega bracket' (see the following pic) and the safety cable rigging point in one unit. When mounting this fixture to truss be sure to secure an appropriately rated clamp to the included omega bracket using a M10 screw fitted through the center hole of the 'omega bracket'. As an added safety measure be sure to attached at least one properly rated safety cable to the fixture using on of the safety cable rigging point integrated in the base assembly.



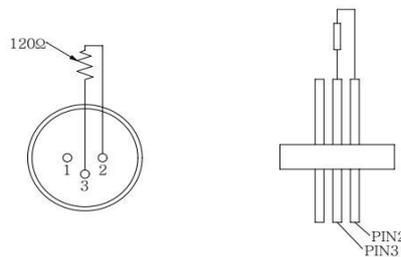
## DMX-512 Control Connection

Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the moving head. You can chain multiple Moving head together through serial linking. The cable needed should be two core, screened cable with XLR input and output connectors. Please refer to the diagram below.



## DMX-512 Connection with DMX Terminator

For installations where the DMX cable has to run a long distance or is in an electrically noisy environment, such as in a discotheque, it is recommended to use a DMX terminator. This helps in preventing corruption of the digital control signal by electrical noise. The DMX terminator is simply an XLR plug with a 120 resistor connected between pins 2 and 3, which is then plugged into the output XLR socket of the last fixture in the chain. Please see illustrations below.



## Technical Specifications

Input power: AC100-240V 50/60 Hz

Power consumption :240W

LED: 200W high power LED

DMX channel: 6/18 channels

Pan scan: 540°(16bit) Electric correction

Tilt scan: 270° (16bit) Electric correction

Color wheel: one color wheel, 7 kinds of color chips in one color wheel

Static Gobo wheel: 8 gobo+open

Rotating Gobo Wheel: 6 gobo+open

Effect Wheel: Rotation Triple prism

Lens optical system achanical focus .beam Zoom angle 5°/13°

Control mode: DMX512/Master-Slave/Auto run

Display: LCD display

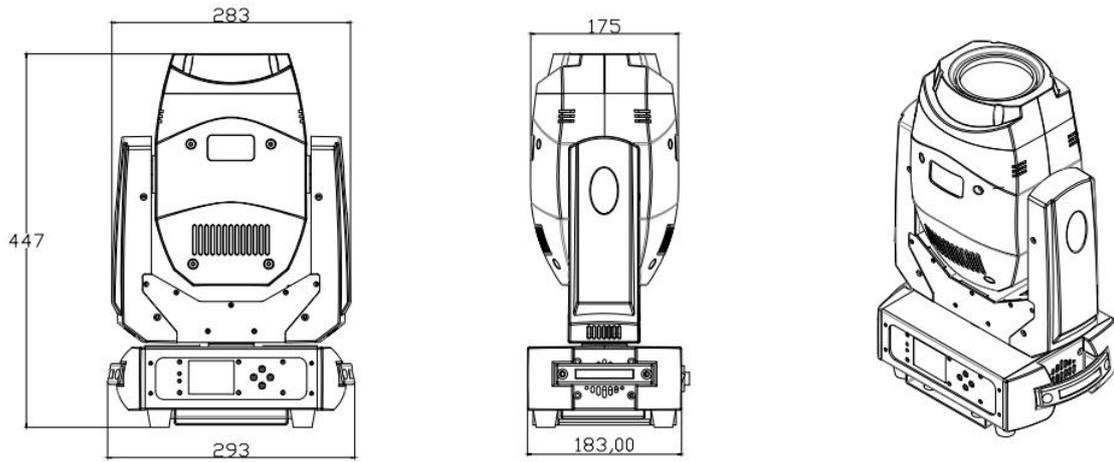
## WEIGHT&SIZE

N.W: 11.25 KG

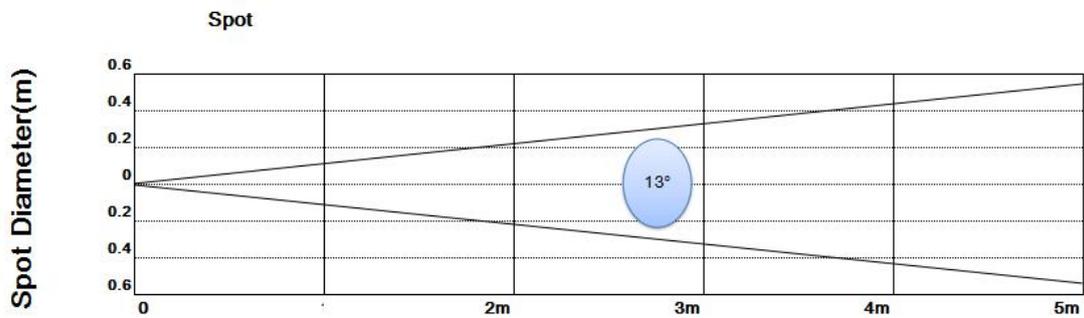
G.W: 13.25 KG

Packing size: 47.5\*35.5\*38cm

## Dimensions

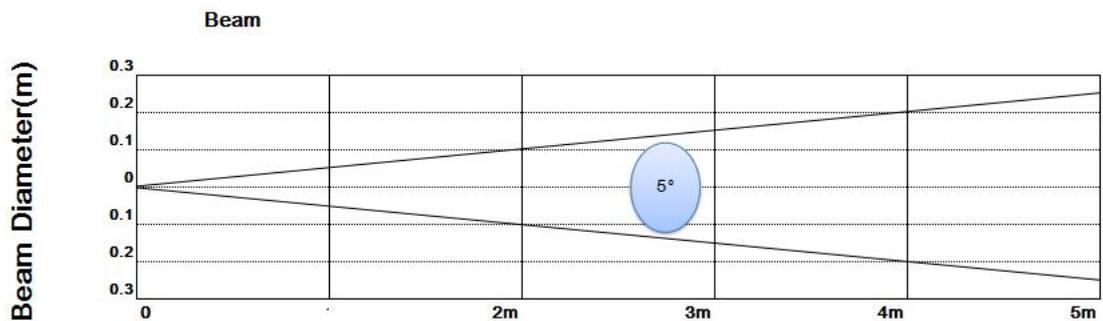


## Lumen Chart



### Lumen Chart

| Distance (m)    | 2m    | 3m    | 5m   |
|-----------------|-------|-------|------|
| Spot White(Lux) | 43900 | 17900 | 8490 |



## Lumen Chart

| Distance (m)    | 2m    | 3m    | 5m    |
|-----------------|-------|-------|-------|
| Beam White(Lux) | 86400 | 37400 | 13400 |

## Menu Function

| MENU (Color Display 2.4'TFT) |                 |                |                |  |
|------------------------------|-----------------|----------------|----------------|--|
| <b>DMX Address</b>           | 001~512         |                |                |  |
| <b>Operating Mode</b>        | DMX 6 Ch        |                |                |  |
|                              | DMX 18 Ch       |                |                |  |
|                              | Auto            |                | Perform Mode 1 |  |
|                              |                 |                | Perform Mode 2 |  |
|                              |                 |                | Perform Mode 3 |  |
|                              |                 |                | Perform Mode 4 |  |
|                              |                 |                | Perform Mode 5 |  |
|                              |                 |                | Perform Mode 6 |  |
|                              |                 |                | Perform Mode 7 |  |
|                              |                 |                | Perform Mode 8 |  |
|                              | Sound           |                |                |  |
|                              | Master Auto     |                | Perform Mode 1 |  |
|                              |                 |                | Perform Mode 2 |  |
|                              |                 |                | Perform Mode 3 |  |
|                              |                 |                | Perform Mode 4 |  |
|                              |                 |                | Perform Mode 5 |  |
|                              |                 |                | Perform Mode 6 |  |
|                              |                 | Perform Mode 7 |                |  |
|                              |                 | Perform Mode 8 |                |  |
| Master Sound                 |                 |                |                |  |
| Slave                        |                 |                |                |  |
| <b>Language Setting</b>      | 简体中文            |                |                |  |
|                              | English         |                |                |  |
| <b>Advanced Setting</b>      | Pan Reverse     |                |                |  |
|                              | Tilt Reverse    |                |                |  |
|                              | Display Reverse |                |                |  |
|                              | Mic Sensitive   | = 000          |                |  |
|                              | Reset Motor     |                |                |  |
|                              | Factory Reset   |                |                |  |
|                              | Home Position   | Password       | Code           |  |

|                       |                     |   |      |
|-----------------------|---------------------|---|------|
|                       |                     |   | =018 |
|                       | PAN                 | . | =000 |
|                       | TILT                | . | =000 |
|                       | Dimmer              | . | =255 |
|                       | Color               | . | =000 |
|                       | fixed Gobo          | . | =000 |
|                       | Rotation Gobo       | . | =000 |
|                       | Focus               | . | =000 |
|                       | Zoom                | . | =000 |
|                       | Pan/Tilt Speed      | . | =000 |
| <b>System Info</b>    | Current Time        |   |      |
|                       | Total Time          |   |      |
|                       | Current Mode        |   |      |
|                       | Temperature         |   |      |
|                       | Software Version    |   |      |
| <b>Manual Control</b> | PAN                 | . | =000 |
|                       | PAN-FINE            | . | =000 |
|                       | TILT                | . | =000 |
|                       | TILT-FINE           | . | =000 |
|                       | Pan/Tilt Speed      | . | =000 |
|                       | Dimmer              | . | =000 |
|                       | Strobe              | . | =000 |
|                       | Color               | . | =000 |
|                       | fixed Gobo          | . | =000 |
|                       | Rotation Gobo       | . | =000 |
|                       | Rotation Gobo Wheel | . | =000 |
|                       | Focus               | . | =000 |
|                       | Prism               | . | =000 |
|                       | Prism Wheel         | . | =000 |
|                       | Zoom                | . | =000 |

## DMX-Configuration

### 6 Channel Mode:

| Channel | DMX Value | Function |
|---------|-----------|----------|
| 1       | 000 - 255 | X        |
| 2       | 000 - 255 | Y        |

|   |         |                            |
|---|---------|----------------------------|
| 3 | 000-255 | Dimmer(0-100%)             |
| 4 | 000-004 | Shutter closed             |
|   | 005-250 | Strobe effect slow to fast |
|   | 251-255 | Shutter open               |
| 5 | 000-007 | Empty                      |
|   | 008-047 | Auto Play 1                |
|   | 048-087 | Auto Play 2                |
|   | 088-127 | Auto Play 3                |
|   | 128-167 | Auto Play 4                |
|   | 168-207 | Auto Play 5                |
|   | 208-247 | Auto Play 6                |
|   | 248-255 | Color Gobo Sound Control   |
| 6 | 000-007 | Empty                      |
|   | 008-032 | X/Y auto run 1             |
|   | 033-058 | X/Y auto run 2             |
|   | 059-084 | X/Y auto run 3             |
|   | 085-110 | X/Y auto run 4             |
|   | 111-136 | X/Y auto run 5             |
|   | 137-162 | X/Y auto run 6             |
|   | 163-188 | X/Y auto run 7             |
|   | 189-214 | X/Y auto run 8             |
|   | 215-240 | X/Y auto run 9             |
|   | 241-255 | X/Y Sound Control          |

### 18 Channel Mode:

| Channel | DMX Value | Function                   |
|---------|-----------|----------------------------|
| 1       | 000 - 255 | X                          |
| 2       | 000-255   | X-Fine                     |
| 3       | 000 - 255 | Y                          |
| 4       | 000-255   | Y-Fine                     |
| 5       | 000 - 255 | XY SPEED                   |
| 6       | 000-255   | Dimmer(0-100%)             |
| 7       | 000-004   | Shutter closed             |
|         | 005-250   | Strobe effect slow to fast |
|         | 251-255   | Shutter open               |
| 8       | 000-004   | Open(White)                |
|         | 005-013   | White/Color1               |
|         | 014-022   | Color1                     |
|         | 023-031   | Color1/Color2              |

|    |         |   |
|----|---------|---|
|    | 032-040 | Color2                                    |
|    | 041-049 | Color2/Color3                             |
|    | 050-058 | Color3                                    |
|    | 059-067 | Color3/Color4                             |
|    | 068-076 | Color4                                    |
|    | 077-085 | Color4/Color5                             |
|    | 086-094 | Color5                                    |
|    | 095-103 | Color5/Color6                             |
|    | 104-112 | Color6                                    |
|    | 113-121 | Color6/Color7                             |
|    | 122-130 | Color7                                    |
|    | 131-139 | Open(White)                               |
|    | 140-195 | Forward rainbow effect from fast to slow  |
|    | 196-199 | Rotation stop                             |
|    | 200-255 | Backward rainbow effect from slow to fast |
| 9  | 000-005 | Open(White)                               |
|    | 006-014 | Gobo1                                     |
|    | 015-023 | Gobo2                                     |
|    | 024-032 | Gobo3                                     |
|    | 033-041 | Gobo4                                     |
|    | 042-050 | Gobo5                                     |
|    | 051-059 | Gobo6                                     |
|    | 060-068 | Gobo7                                     |
|    | 069-077 | Gobo8                                     |
|    | 078-084 | Gobo1 Shake                               |
|    | 085-091 | Gobo2 Shake                               |
|    | 092-098 | Gobo3 Shake                               |
|    | 099-105 | Gobo4 Shake                               |
|    | 106-112 | Gobo5 Shake                               |
|    | 113-119 | Gobo6 Shake                               |
|    | 120-126 | Gobo7 Shake                               |
|    | 127-133 | Gobo8 Shake                               |
|    | 134-194 | Forward rainbow effect from fast to slow  |
|    | 195-255 | Backward rainbow effect from slow to fast |
| 10 | 000-007 | Open(White)                               |
|    | 008-019 | Gobo1                                     |
|    | 020-031 | Gobo2                                     |
|    | 032-043 | Gobo3                                     |
|    | 044-055 | Gobo4                                     |

|    |         |   |
|----|---------|---|
|    | 056-067 | Gobo5                                     |
|    | 068-079 | Gobo6                                     |
|    | 080-088 | Gobo1 Shake                               |
|    | 089-097 | Gobo2 Shake                               |
|    | 098-106 | Gobo3 Shake                               |
|    | 107-115 | Gobo4 Shake                               |
|    | 116-124 | Gobo5 Shake                               |
|    | 125-133 | Gobo6 Shake                               |
|    | 134-194 | Forward rainbow effect from fast to slow  |
|    | 195-255 | Backward rainbow effect from slow to fast |
| 11 | 000-009 | Stop                                      |
|    | 010-129 | Forward Gobo2 Rotation from fast to slow  |
|    | 130-134 | Stop                                      |
|    | 135-255 | Backward Gobo2 Rotation from slow to fast |
| 12 | 000-255 | Focus                                     |
| 13 | 000-015 | Open(White)                               |
|    | 016-255 | Prism                                     |
| 14 | 000-005 | Stop                                      |
|    | 006-129 | Forward Prism Rotation from fast to slow  |
|    | 130-134 | Stop                                      |
|    | 135-255 | Backward Prism Rotation from slow to fast |
| 15 | 000-127 | Open                                      |
|    | 128-255 | Zoom                                      |
| 16 | 000-007 | Empty                                     |
|    | 008-047 | Auto Play 1                               |
|    | 048-087 | Auto Play 2                               |
|    | 088-127 | Auto Play 3                               |
|    | 128-167 | Auto Play 4                               |
|    | 168-207 | Auto Play 5                               |
|    | 208-247 | Auto Play 6                               |
|    | 248-255 | Color Gobo Sound Control                  |
| 17 | 000-007 | Empty                                     |
|    | 008-032 | X/Y auto run 1                            |
|    | 033-058 | X/Y auto run 2                            |
|    | 059-084 | X/Y auto run 3                            |
|    | 085-110 | X/Y auto run 4                            |
|    | 111-136 | X/Y auto run 5                            |
|    | 137-162 | X/Y auto run 6                            |
|    | 163-188 | X/Y auto run 7                            |

|    |         |                   |
|----|---------|-------------------|
|    | 189-214 | X/Y auto run 8    |
|    | 215-240 | X/Y auto run 9    |
|    | 241-255 | X/Y Sound Control |
| 18 | 250-255 | RESET(10S)        |

## Maintenance

### **DANGER !**

**Disconnect from the mains before starting any maintenance work.**

- Make sure the area below is free from any unwanted persons during servicing.
- Switch off the unit, unplug the mains cable and wait until the unit is cool down.

### **During inspection the following points should be checked:**

- All screws used for installing the device and any of its parts should be tightly fastened and may not be corroded.
- Housing, fixations and installations spots (ceiling, truss, suspensions) should be totally free from any deformation.
- When an optical lens is visibly damaged due to cracks or deep scratches, it must be replaced.
- The mains cables must be in impeccable condition and should be replaced immediately when even a small problem is detected.
- In order to protect the device from overheating the cooling fans (if any) and ventilation opening should be cleaned monthly.
- The interior of the device should be cleaned annually using a vacuum cleaner or air-jet.
- The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment which the fixture operates: damp, smoky or particularly dirty surroundings can cause greater accumulation of dirt on the unit's optics.
- Clean with a soft cloth using normal glass cleaning products.
- Always dry the parts carefully.
- Clean the external optics at least every 30 days.
- Clean the internal optics at least every 90 days.

**Important: we strongly recommend internal cleaning to be carried out by qualified personnel!**





