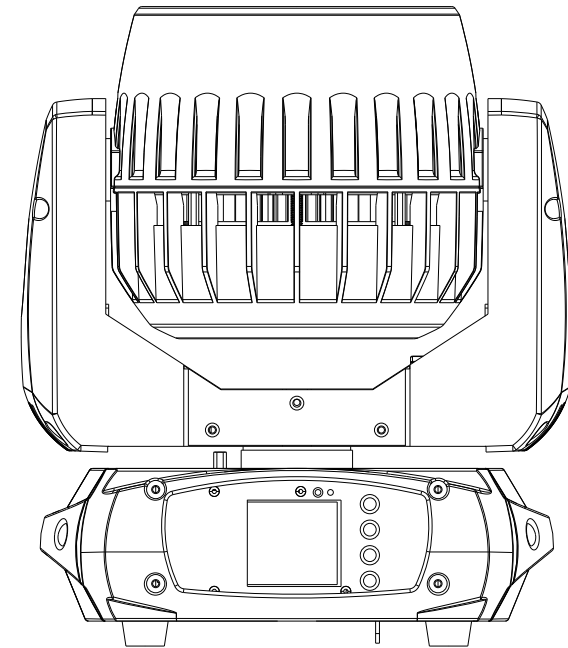




ULTRA WASH ZOOM

LCG-MHW730Z



Version 1.0

USER MANUAL

- Be sure to read the USER MANUAL carefully before using this product.
- Be sure to keep the USER MANUAL properly for future needs.
- Use this product correctly when you can fully understand the User Manual

1.Safety instructions

Thank you for choosing our ULTRA WASH ZOOM . FOR YOUR OWN SAFETY, PLEASE READ THIS USER MANUAL CAREFULLY

BEFORE YOU INITIAL START - UP!

CAUTION!
Be careful with your operations.
With a high voltage you can suffer a dangerous electric shock when touching the wires!

This device has left our premises in absolutely perfect condition. 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.

CAUTION!
Keep this device away from rain and moisture!
Unplug mains lead before opening the housing!

Important:

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.

During the operation the housing becomes hot). Allow the fixture to cool approximately 20 minutes prior to manipulate with it.

Make sure that the available voltage is not higher than stated on the rear panel.

WARNING! This unit does not contain an ON/OFF switch. Always disconnect power input cable to completely remove power from unit when not in use or before cleaning or servicing the fixture.

Make sure that the power-cord is never crimped or damaged by sharp edges. Check the device and the power-cord from time to time.

Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the power-cord by the plug. Never pull out the plug by tugging the power cord.

This device falls under protection class I. Therefore it is essential to connect the yellow/green conductor to earth.

The electric connection, repairs and servicing must be carried out by a qualified employee.

Do not connect this device to a dimmer pack.

Do not switch the fixture on and off in short intervals as this would reduce the lamp's life.

During the initial start-up some smoke or smell may arise. This is a normal process and does not necessarily mean that the device is defective.

Do not touch the device's housing bare hands during its operation (housing becomes hot)!

For replacement use lamps and fuses of same type and rating only.

CAUTION ! EYE DAMAGES !
Avoid looking directly into the light source
(meant especially for epileptics) !

10.Maintenance and cleaning

It is absolutely essential that the fixture is kept clean and that dust, dirt and smoke-fluid residues must not build up on or within the fixture. Otherwise, the fixture's light-output will be significantly reduced. Regular cleaning will not only ensure the maximum light-output, but will also allow the fixture to function reliably throughout its life. A soft lint-free cloth moistened with any good glass cleaning fluid is recommended, under no circumstances should alcohol or solvents be used!

DANGER !
Disconnect from the mains before starting any
maintenance work

The front objective lens will require weekly cleaning as smoke-fluid tends to building up residues, reducing the light-output very quickly. The cooling-fans should be cleaned monthly.

The interior of the fixture should be cleaned at least annually using a vacuum-cleaner or an air-jet. Remove dust and dirt from the fans and cooling vents using a soft brush and vacuum-cleaner.

Important! Check the air filters periodically and clean before they become clogged!

Clean two air filters placed in the fixture's covers and two in the fixture base. Use a vacuum cleaner, compressed air or you can wash them and put back dry.

After replacing the air filters, reset the elapsed time counter in the menu "Information" (Information--->Air Filters--->Elapsed Time).

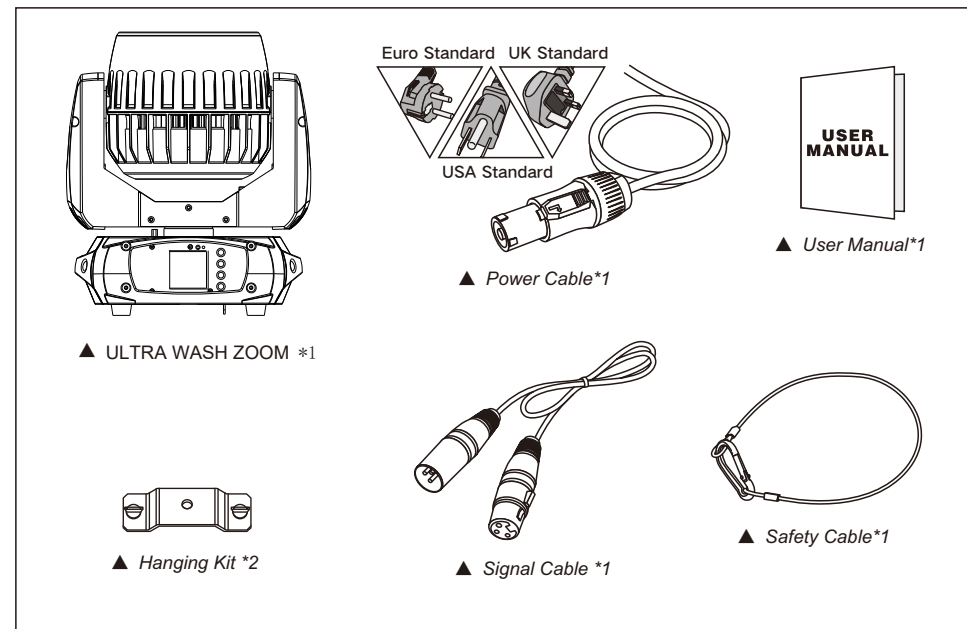
Replacing the fuse. Before replacing the fuse, unplug mains lead.

- 1) Remove the fuse holder on the rear panel of the base with a fitting screwdriver from the housing (anti-clockwise).
- 2) Remove the old fuse from the fuse holder.
- 3) Install the new fuse in the fuse holder (only the same type and rating).
- 4) Replace the fuseholder in the housing and fix it.

| | | | | |
|----------|--------------------------|----|----------|--|
| 35 | | | | Green in pixel 4 |
| | | | 0..255 | Green in pixel 4 saturation control(0-100%) |
| 36 | | | | Blue in pixel 4 |
| | | | 0..255 | Blue in pixel 4 saturation control(0-100%) |
| 37 | | | | White in pixel 4 |
| | | | 0..255 | White in pixel 4 saturation control(0-100%) |
| 38 | | | | Red in Pixel 5 |
| | | | 0..255 | White in pixel 5 saturation control (0-100%) |
| 39 | | | | Green in pixel 5 |
| | | | 0..255 | Green in pixel 5 saturation control(0-100%) |
| 40 | | | | Blue in pixel 5 |
| | | | 0..255 | Blue in pixel 5 saturation control(0-100%) |
| 41 | | | | White in pixel 5 |
| | | | 0..255 | White in pixel 5 saturation control(0-100%) |
| 42 | | | | Red in Pixel 6 |
| | | | 0..255 | White in pixel 6 saturation control (0-100%) |
| 43 | | | | Green in pixel 6 |
| | | | 0..255 | Green in pixel 6 saturation control(0-100%) |
| 44 | | | | Blue in pixel 6 |
| | | | 0..255 | Blue in pixel 6 saturation control(0-100%) |
| 45 | | | | White in pixel 6 |
| | | | 0..255 | White in pixel 6 saturation control(0-100%) |
| 46 | | | | Red in Pixel 7 |
| | | | 0..255 | White in pixel 7 saturation control (0-100%) |
| 47 | | | | Green in pixel 7 |
| | | | 0..255 | Green in pixel 7 saturation control(0-100%) |
| 48 | | | | Blue in pixel 7 |
| | | | 0..255 | Blue in pixel 7 saturation control(0-100%) |
| 49 | | | | White in pixel 7 |
| | | | 0..255 | White in pixel 7 saturation control(0-100%) |
| 50 | 22 | 16 | | Special function |
| | | | 0..19 | No function |
| | | | 20..29 | No function |
| | | | 30..39 | No function |
| | | | 40..79 | No function |
| | | | 80..89 | All Motor reset |
| | | | 90..94 | SCAN Motor Reset |
| | | | 95..99 | ZOOM Motor Reset |
| | | | 100..119 | Internal program 1 |
| | | | 120..139 | Internal program 2 |
| | | | 140..159 | Internal program 3 |
| | | | 160..179 | Internal program 4 |
| | | | 180..199 | Internal program 5 |
| | | | 200..219 | Internal program 6 |
| 220..239 | Internal program 7 | | | |
| 240..255 | Internal Sound program 1 | | | |

2.UNPACKING

The ULTRA WASH ZOOM adopts 7*30W RGBW 4-IN-1 LED lamp which features high brightness and stability. Please carefully unpack it when you receive the fixture and check whether it is damaged during the transportation. And please check whether the following items are included inside the box:



The ULTRA WASH ZOOM is made of a new type of high temperature strength of engineering plastics and cast aluminum casing with nice outlook. The fixture is designed and manufactured strictly following CE standards, complying with international standard DMX512 protocol. It's available independently controlled and linkable with each other for operation. And it is applicable for large-scale live performances, theater, studio, nightclubs and discos.

This manual covers the important information on installation and applications. Meanwhile, please keep this manual well for future needs.

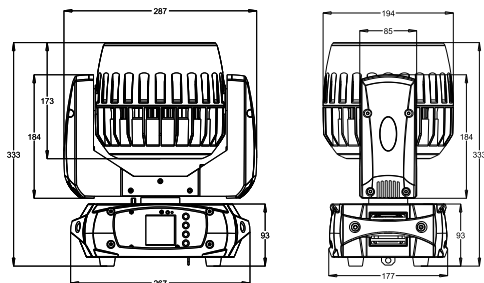
3.TECHNICAL INFORMATION

SPECIFICATIONS:

- > LED Quantities:7*30W 4-IN-1 RGBW LEDs, 50000 hours life span
- > Input Voltage:AC90-260V 50/60Hz
- > Control Signal:DMX512 master-slave and sound activated or auto operation
- > Control Channel: 50/22/16 DMX channels USITT DMX-512
- > Power Consumption: 240W
- > Dimension:287(D)*194(W)*333(H)mm
- > Packing Dimension:380(D)*280(W)*420(H)mm
- > Net Weight: 6.0kgs
- > Gross Weight: 8.8kgs

Features

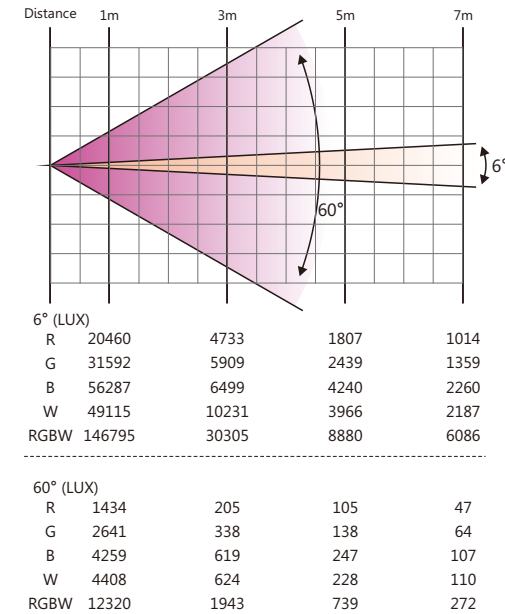
- > Low power consumption
- > Pixel each LED controllable individually
- > 8/16 bit smooth and precise resolution for PAN/TILT movement
- > Scan position memory auto reposition after unexpected movement
- > 6-60°Smooth electronic linear zoom
- > Built-in running programs
- > 0-100% Linear LED dimmer
- > 1.8" TFT LCD display
- > 1-25T/sec high speed LED shutter/strobe effect with variable speed
- > Preset variable/random strobe and dimming pulse effect
- > DMX recorder and edit function integrated
- > High resolution graphic LCD display
- > POWERCON connector IN
- > 3-Pin XLR connectors IN/OUT
- > Constant temperature readout and management function
- > -35°C ~ 45°C max ambient temperature
- > IP20 protection rating



| | | | |
|----------|---|--|--|
| 21 | 21 | 152..159 | static scene20 |
| | | 160..167 | static scene21 |
| | | 168..175 | static scene22 |
| | | 176..183 | static scene23 |
| | | 184..191 | static scene24 |
| | | 192..199 | static scene25 |
| | | 200..207 | static scene26 |
| | | 208..215 | static scene27 |
| | | 216..223 | static scene28 |
| | | 224..231 | static scene29 |
| | | 232..239 | static scene30 |
| | | 240..247 | static scene31 |
| | | 248..255 | static scene32 |
| | | Dynamic Patterns (If channel Patterns is in the interval 032 – 255) | |
| | | 000..023 | No function |
| 024..137 | Forward speed from zero speed to fast speed | | |
| 138..141 | Stop movement | | |
| 142..255 | Reverse speed from zero speed to fast speed | | |
| 22 | | Red in Pixel 1 | |
| | | 0..255 | Red in pixel 1 saturation control (0-100%) |
| 23 | | Green in Pixel 1 | |
| | | 0..255 | Green in pixel 1 saturation control (0-100%) |
| 24 | | Blue in Pixel 1 | |
| | | 0..255 | Blue in pixel 1 saturation control(0-100%) |
| 25 | | White in pixel 1 | |
| | | 0..255 | White in pixel 1 saturation control(0-100%) |
| 26 | | Red in pixel 2 | |
| | | 0..255 | Red in pixel 2 saturation control(0-100%) |
| 27 | | Green in pixel 2 | |
| | | 0..255 | Green in pixel 2 saturation control(0-100%) |
| 28 | | Blue in pixel 2 | |
| | | 0..255 | Blue in pixel 2 saturation control(0-100%) |
| 29 | | White in pixel 2 | |
| | | 0..255 | White in pixel 2 saturation control(0-100%) |
| 30 | | Red in Pixel 3 | |
| | | 0..255 | Red in pixel 3 saturation control (0-100%) |
| 31 | | Green in pixel 3 | |
| | | 0..255 | Green in pixel 3 saturation control(0-100%) |
| 32 | | Blue in pixel 3 | |
| | | 0..255 | Blue in pixel 3 saturation control(0-100%) |
| 33 | | White in pixel 3 | |
| | | 0..255 | White in pixel 3 saturation control(0-100%) |
| 34 | | Red in Pixel 4 | |
| | | 0..255 | Red in pixel 4 saturation control (0-100%) |

| | | | |
|----------|-----------------|--|-----------------|
| 20 | 20 | Patterns | |
| | | 000..015 | No function |
| | | 016..031 | Static patterns |
| | | 032..043 | Dynamic Scene1 |
| | | 44..055 | Dynamic Scene2 |
| | | 056..067 | Dynamic Scene3 |
| | | 068..079 | Dynamic Scene4 |
| | | 080..091 | Dynamic Scene5 |
| | | 092..103 | Dynamic Scene6 |
| | | 104..115 | Dynamic Scene7 |
| | | 116..127 | Dynamic Scene8 |
| | | 128..139 | Dynamic Scene9 |
| | | 140..151 | Dynamic Scene10 |
| | | 152..163 | Dynamic Scene11 |
| | | 164..175 | Dynamic Scene12 |
| | | 176..187 | Dynamic Scene13 |
| | | 188..199 | Dynamic Scene14 |
| | | 200..211 | Dynamic Scene15 |
| | | 212..223 | Dynamic Scene16 |
| 224..235 | Dynamic Scene17 | | |
| 236..247 | Dynamic Scene18 | | |
| 248..255 | Dynamic Scene19 | | |
| 21 | 21 | Static patterns or patterns speed | |
| | | Static Patterns | |
| | | (If channel Patterns is in the interval 016 – 031) | |
| | | 000..007 | static scene1 |
| | | 008..015 | static scene2 |
| | | 016..023 | static scene3 |
| | | 024..031 | static scene4 |
| | | 032..039 | static scene5 |
| | | 040..047 | static scene6 |
| | | 048..055 | static scene7 |
| | | 056..063 | static scene8 |
| | | 064..071 | static scene9 |
| | | 072..079 | static scene10 |
| | | 080..087 | static scene11 |
| | | 088..095 | static scene12 |
| | | 096..103 | static scene13 |
| | | 104..111 | static scene14 |
| | | 112..119 | static scene15 |
| | | 120..127 | static scene16 |
| 128..135 | static scene17 | | |
| 136..143 | static scene18 | | |
| 144..151 | static scene19 | | |

4.PHOTOMETRICS DIAGRAM



5.OPERATION INSTRUCTIONS

- The ULTRA WASH ZOOM is for beam&wash effect for on-site decoration purpose.
- Don't turn on the fixture if it's been through severe temperature difference like after transportation because it might damage the light due to the environment changes. So make sure to operate the fixture until it is in normal temperature.
- This light should be keep away from strong shaking during any transportation or movement.
- Don't pull up the light by only the head, or it might cause damages to the mechanical parts.
- Don't expose the fixture in overheat, moisture or environment with too much dust when installing it. And
- don't lay any power cables on the floor. Or it might cause electronic shock to the people.
- Make sure the installation place is in good safety condition before installing the fixture.
- Make sure to put the safety chain and check whether the screws are screwed properly when installing the fixture.
- Make sure the lens are in good condition. It's recommended to replace the units if there are any damages or severe scratch.
- Make sure the fixture is operated by qualified personnel who knows the fixture before using.
- Keep the original packages if any second shipment is needed.
- Don't try to change the fixtures without any instruction by the manufacturer or the appointed repairing agencies.
- It is not in warranty range if there are any malfunctions from not following the user manual to operate or any illegal operation, like shock short circuit, electronic shock , lamp broke, etc.

6.INSTALLATIONS

Cautions:

For added protection mount the fixtures in areas outside walking paths, seating areas, or in areas where the fixture might be reached by unauthorized personnel.

Before mounting the fixture to any surface, make sure that the installation area can hold a minimum point load of 10 times the device's weight.

Fixture installation must always be secured with a secondary safety attachment, such as an appropriate safety cable.

Never stand directly below the device when mounting, removing, or servicing the fixture.

from a ceiling, or set on a flat level surface (see illustration below). Be sure this fixture is kept at least 0.5m (1.5 f t) away from any flammable materials (decoration etc.).

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.

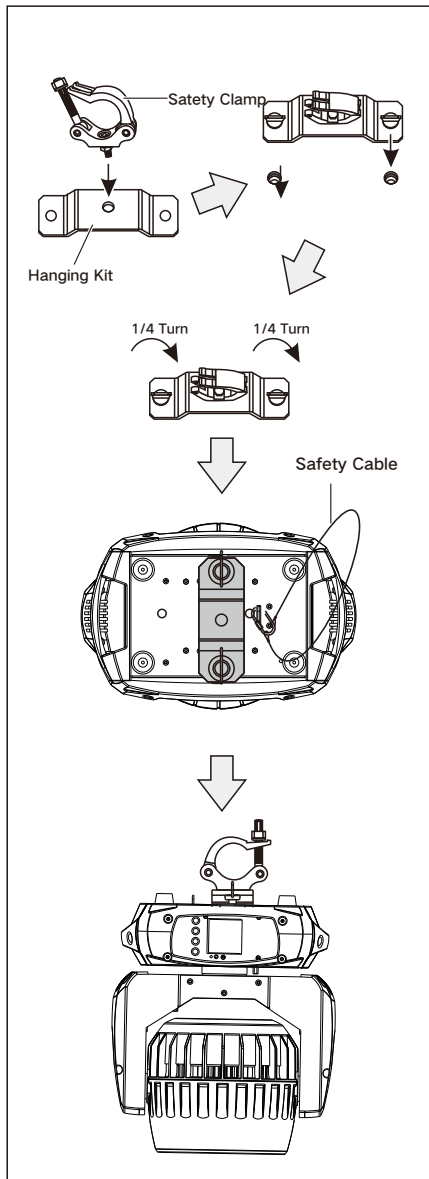
Mounting points:

Overhead mounting requires extensive experience, including amongst others calculating working load limits, a fine knowledge of the installation material being used, and periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.

Be sure to complete all rigging and installation procedures before connecting the main power cord to the appropriate wall outlet.

Clamp Mounting:

ULTRA WASH ZOOM provides a unique mounting bracket assembly that integrates the bottom of the base, and the safety cable rigging point in one unit (see the illustration below). 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 "Hanging Kit". 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 .

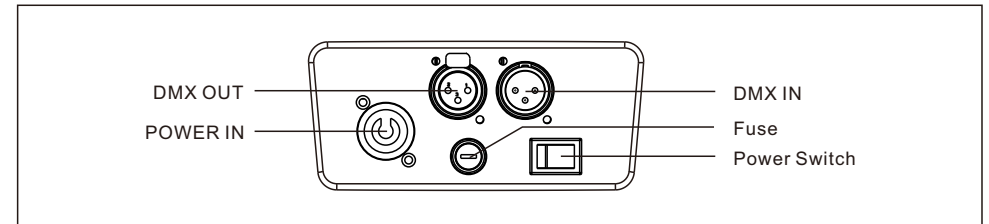


INSTALLATION DIAGRAM

| | | | |
|----------|-------|----------|--------------------------------------|
| 16 | 16 | 154..167 | Red+Blue+White |
| | | 168..181 | Red+Green+White |
| | | 182..195 | Red+Blue+Green+White |
| | | 196..202 | 2700K |
| | | 203..209 | 3200K |
| | | 210..216 | 3500K |
| | | 217..223 | 5000K |
| | | 224..230 | 5500K |
| | | 231..237 | 6000K |
| | | 238..244 | 6500K |
| 245..251 | 7000K | | |
| 252..255 | 8000K | | |
| 17 | 17 | | Foreground dimmer |
| | | 000..255 | Foreground dimmer 0 – 100%. |
| 18 | 18 | | Background color for patterns |
| | | 0..0 | No Function |
| | | 1..13 | Red |
| | | 14..27 | Green |
| | | 28..41 | Blue |
| | | 42..55 | White |
| | | 56..69 | Red+White |
| | | 70..83 | Green+White |
| | | 84..97 | Blue+White |
| | | 98..111 | Green+Blue |
| | | 112..125 | Red+Blue |
| | | 126..139 | Red+Green |
| | | 140..153 | Green+Blue+White |
| | | 154..167 | Red+Blue+White |
| | | 168..181 | Red+Green+White |
| | | 182..195 | Red+Blue+Green+White |
| | | 196..202 | 2700K |
| | | 203..209 | 3200K |
| 210..216 | 3500K | | |
| 217..223 | 5000K | | |
| 224..230 | 5500K | | |
| 231..237 | 6000K | | |
| 238..244 | 6500K | | |
| 245..251 | 7000K | | |
| 252..255 | 8000K | | |
| 19 | 19 | | Background dimmer |
| | | 000..255 | Background dimmer 0 – 100%. |

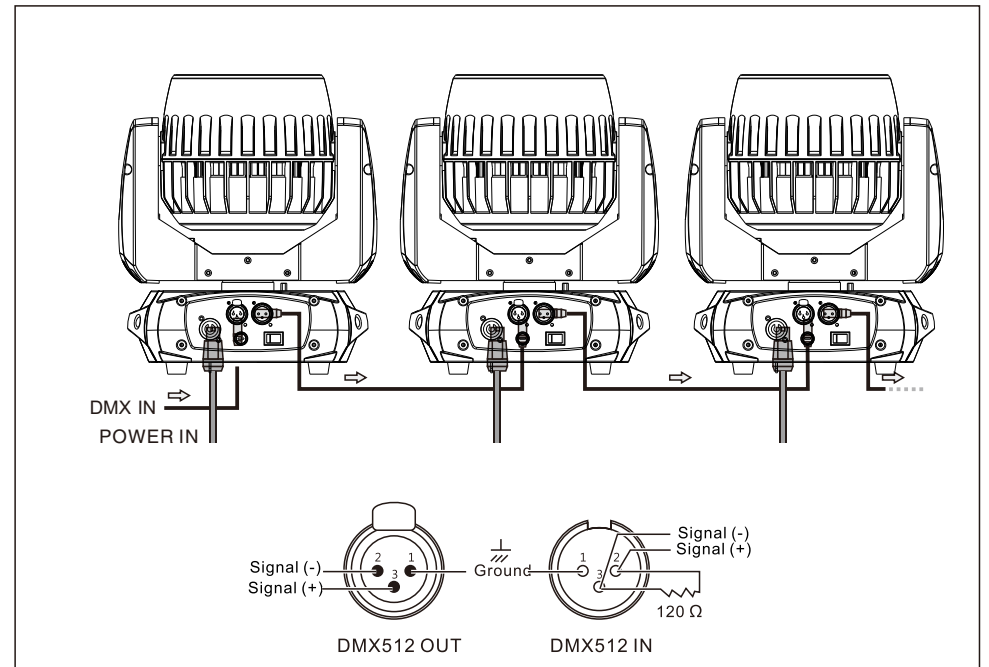
| | | | | |
|----------|---------------|----|--------------------------------------|--|
| 13 | 13 | 13 | 84..97 | Blue+White |
| | | | 98..111 | Green+Blue |
| | | | 112..125 | Red+Blue |
| | | | 126..139 | Red+Green |
| | | | 140..153 | Green+Blue+White |
| | | | 154..167 | Red+Blue+White |
| | | | 168..181 | Red+Green+White |
| | | | 182..195 | Red+Blue+Green+White |
| | | | 196..202 | 2700K |
| | | | 203..209 | 3200K |
| | | | 210..216 | 3500K |
| | | | 217..223 | 5000K |
| | | | 224..230 | 5500K |
| | | | 231..237 | 6000K |
| | | | 238..244 | 6500K |
| | | | 245..251 | 7000K |
| 252..255 | 8000K | | | |
| 14 | 14 | 14 | Color Temp | |
| | | | 0..15 | No Function |
| | | | 16..45 | Below 3200K |
| | | | 46..75 | 3200K - 3500K |
| | | | 76..105 | 3500K - 5000K |
| | | | 106..135 | 5000K - 5500K |
| | | | 136..165 | 5500K - 6000K |
| | | | 166..195 | 6000K - 6500K |
| | | | 196..225 | 6500K - 7000K |
| 226..255 | 7000K - 8000K | | | |
| 15 | 15 | 15 | Visual Tungsten Lamp | |
| | | | 0..15 | No Function |
| | | | 16..255 | Tungsten lamp effect is gradually enhanced |
| 16 | 16 | 16 | Foreground color for patterns | |
| | | | 0..0 | No Function |
| | | | 1..13 | Red |
| | | | 14..27 | Green |
| | | | 28..41 | Blue |
| | | | 42..55 | White |
| | | | 56..69 | Red+White |
| | | | 70..83 | Green+White |
| | | | 84..97 | Blue+White |
| | | | 98..111 | Green+Blue |
| | | | 112..125 | Red+Blue |
| | | | 126..139 | Red+Green |
| | | | 140..153 | Green+Blue+White |

7.CONTROL CONNECTION

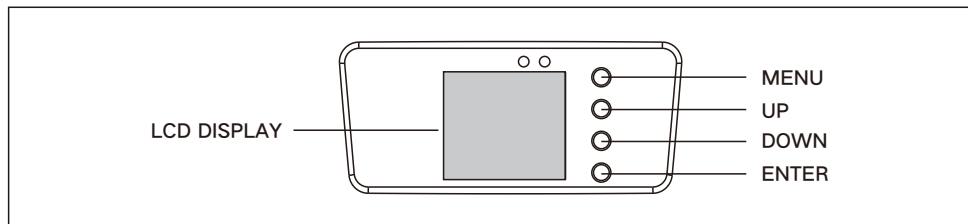


Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the moving head. You can chain multiple Moving head together through serial linking. The cable needed should be two core, screened cable with XLR input and output connectors.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



8.MENU OPERATIONS



| | MENU | | Description |
|--------------------------------------|----------------------------------|--|------------------------------|
| DMX (Fixture) | Dmx Address | A001~AXXX | DMX address setting |
| | Channel Mode | Ch22 | 22 Channel mode |
| | | Ch16 | 16 Channel mode |
| | | Ch50 | 50 Channel mode |
| Auto Run | Internal Program1~9 Master/Alone | Auto run | |
| Music Control | Internal Program1~9 Master/Alone | Sound Control | |
| SET (Fixture Set) | Reset Default | Yes/No | Reset Default |
| | Signal Set | Wire | Wire |
| | | Wireless | Wireless |
| | | WDMX&Out | WDMX&Out |
| | Reverse Pan | (On/Off) | Reverse Pan |
| | Reverse Tilt | (On/Off) | Reverse Tilt |
| | Select Pan | 540 ° /360 ° /630 ° | Pan Degree,default is 540 ° |
| | Select Tilt | 270 ° /90 ° /180 ° | Tilt Degree,default is 270 ° |
| Mic sensitivity | Mic SEN 0~99% | MIC Sensitivity Setting | |
| OFF Signal Mode | OFF Signal Mode (On/Off) | OFF at original status and ON at reset status when no DMX signal | |
| MANU (Manual) | Reset | Total Reset | Total Reset |
| | | Scan Reset | Scan Reset |
| | | Zoom Reset | Zoom Reset |
| | Channel | PAN=XXX..... | Channel Control |
| ADV Advanced (Access Code 088) | Calibration | PAN=XXX..... | Calibration |

9.DMX PROTOCOL

| Mode/Channel | | | Value | Function |
|--------------|--------------|----|----------|---|
| 50 | 22 | 16 | | |
| 1 | 1 | 1 | | Pan |
| | | | 0..255 | PAN Movement |
| 2 | 2 | 2 | | Pan-fine |
| | | | 0..255 | Fine control of Pan movement |
| 3 | 3 | 3 | | Tilt |
| | | | 0..255 | Tilt Movement |
| 4 | 4 | 4 | | Tilt-fine |
| | | | 0..255 | Fine control of Tilt movement |
| 5 | 5 | 5 | | Speed pan/tilt |
| | | | 0..225 | max to min speed |
| | | | 226..235 | blackout by movement |
| | | | 236..255 | no function |
| 6 | 6 | 6 | | Dimmer |
| | | | 0..255 | Dimmer 0%...100% |
| 7 | 7 | 7 | | Shutter |
| | | | 0..31 | Shutter closed |
| | | | 32..63 | shutter open |
| | | | 64..95 | Strobe effect slow to fast |
| | | | 96..127 | shutter open |
| | | | 128..159 | Pulse-effect in sequences slow to fast |
| | | | 160..191 | shutter open |
| | | | 192..223 | Random strobe effect slow to fast |
| 224..255 | shutter open | | | |
| 8 | 8 | 8 | | Red |
| | | | 0..255 | 0-100% Red dimmer from dark to bright |
| 9 | 9 | 9 | | Green |
| | | | 0..255 | 0-100% Green dimmer from dark to bright |
| 10 | 10 | 10 | | Blue |
| | | | 0..255 | 0-100% Blue dimmer from dark to bright |
| 11 | 11 | 11 | | White |
| | | | 0..255 | 0-100% White dimmer from dark to bright |
| 12 | 12 | 12 | | Zoom |
| | | | 0..255 | In(near) to out(far) |
| 13 | 13 | 13 | | Virtual color |
| | | | 0..0 | No Function |
| | | | 1..13 | Red |
| | | | 14..27 | Green |
| | | | 28..41 | Blue |
| | | | 42..55 | White |
| | | | 56..69 | Red+White |
| | | | 70..83 | Green+White |