# USER MANUAL

## KMLWSH36W10

**KANDOlite®**

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# Summarize

Thank you for purchasing our Moving head LED lighting. Please read these instructions carefully before begin and operate the fixtures according to these instructions to avoid any possible damages and accidents causes by misusage.

# Products introduce

This led KMLWSH36W10 light is uses aluminum shell, designed in a fashion of hydrodynamic form. Appearance shows: long can, short can or short can with color filter. It takes uses high power R, G, B, W 5 4 in 1 LED. It uses power switch, performs low weight and consumption, stable capability and long life. The built-in program includes dimmer, strobe, eotic, gradual change, fading and so on. International standard DMX 512 signal is requested.

# Packing list

- KMLWSH36W10 light        1PC
- Bracket                  1PC
- DMX cable                1PC
- Power Cable              1PC
- The use manual
- Warranty Card

## Safety Information

! Enquire the skilled people before any repair;

! Always make sure disconnect from the power source before setting up, serving and moving;.

**!** Avoid direct eye exposure to the fixture when it is on;

# Safety instruction

● Make sure the power supply voltages are consistent with this lights，Ensure the use of voltage is in the range of the request technical parameter.

●before the installation, please check the light's fasteners and mechanical structure have been received in good condition and appear no damage.

●This light is designed for indoor use, working temperature is lower than 50 degree.

●The fixtures maybe mounted in any position provided there is adequate room for ventilation. Make sure there are no inflammable and explosive items (ornaments) in 0.5 meters away.

●Yellow / green cabling earthling safety; no flicker when the fixture is working on.

## Outside Size Picture

# Main Function

- Use high quality LED lighting source, low power consumption, high brightness, stable performance and long life.
- Each color of LED with 256 dimming. RGB can make over 16.7 million colors. The color mixing is better with White LEDs
- linear dimming 0%-100%, Strobe、gradual change、jumping change
- DMX512 Controller，4 button set DMX ID address with LCD display
- master slave/interconnected multi-machine control
- lens degree: 25º、45º optional
- using switching power supply to protect the LED to work well
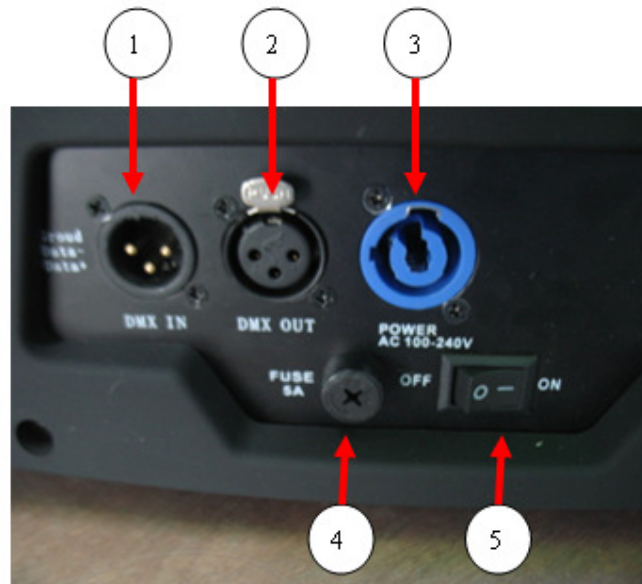- Pan 540 degrees, Tilt 270 degrees, reset
- DMX channels optional

# DMX Control Function

14CH

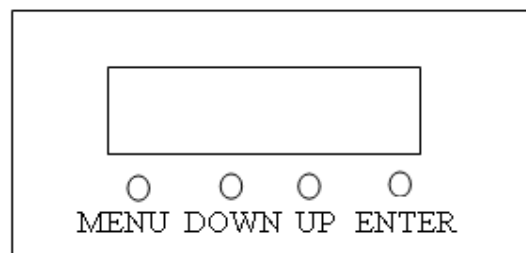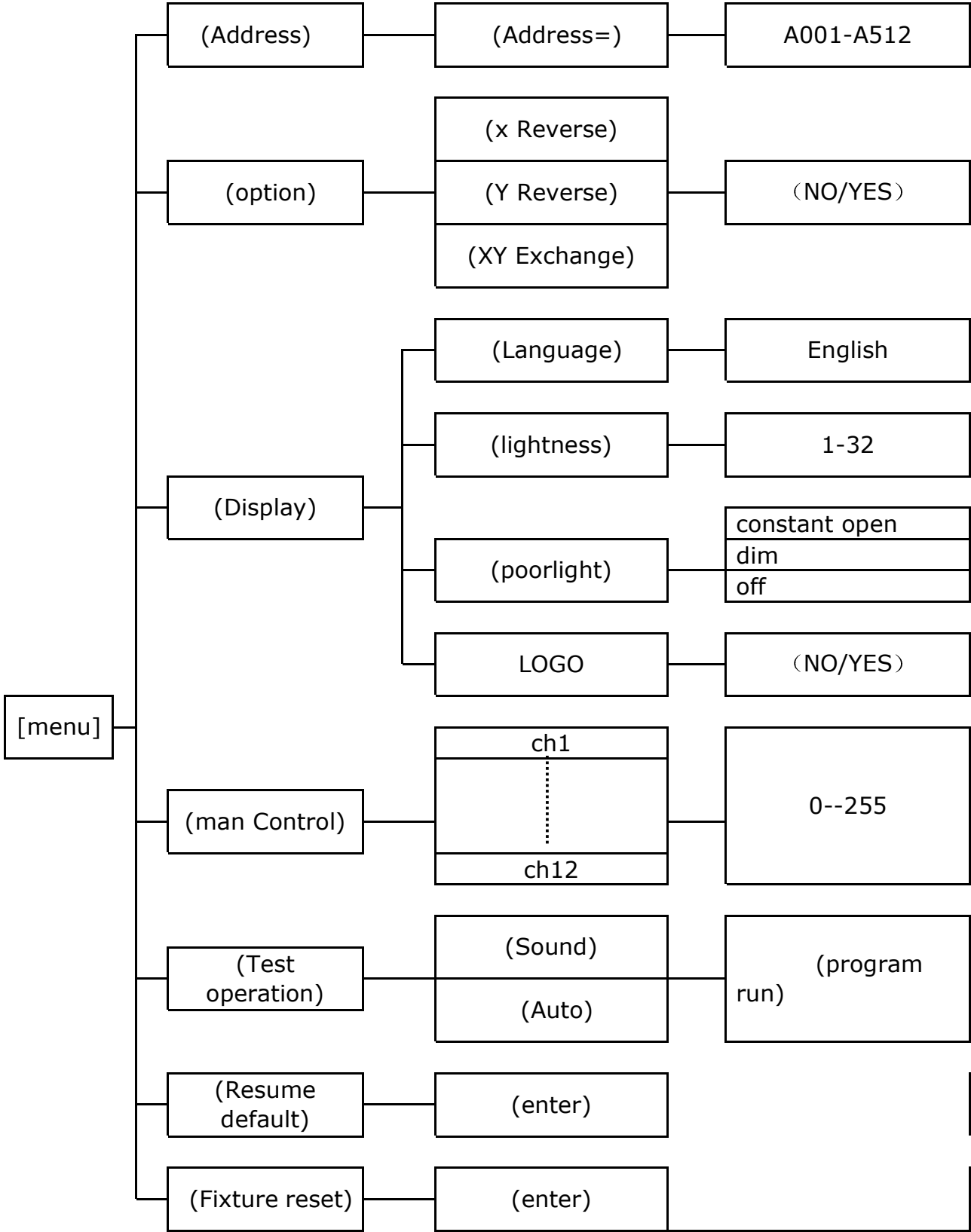| Channel | DMX Value | Function |
|---|---|---|
| 1CH | 0—255 | General dimming |
| 2CH | 0—255 | Red dimming |
| 3CH | 0—255 | Green dimming |
| 4CH | 0—255 | Blue dimming |
| 5CH | 0—255 | White |
| 6CH | 0—10 | Strobe off |
| | 11—255 | Strobe speed |
| 7CH | 0—20 | Invalid |
| | 21—30 | AUTO 1 |
| | 31—40 | AUTO 2 |
| | 41—50 | AUTO 3 |
| | 51—60 | AUTO 4 |
| | 61—70 | AUTO 5 |
| | 71—80 | AUTO 6 |
| | 81—90 | AUTO 7 |
| | 91—100 | AUTO 8 |
| | 101—110 | AUTO 9 |
| | 111—120 | AUTO 10 |
| | 121—130 | CUSTOM 1 |
| | 131—140 | CUSTOM 2 |
| | 141—150 | CUSTOM 3 |
| | 151—160 | CUSTOM 4 |
| | 161—170 | CUSTOM 5 |
| | 171—180 | CUSTOM 6 |
| | 181—190 | CUSTOM 7 |
| | 191—200 | CUSTOM 8 |
| | 201—210 | CUSTOM 9 |
| | 211—220 | CUSTOM 10 |
| | 221—255 | keep |
| CH8 | 0—255 | Automatic speed （fast-slow） |
| CH9 | 0-255 | Pan 0--450° |
| CH10 | 0-255 | Tilt 0--270° |
| CH11 | 0-255 | Pan fine 0—2.1 degrees |
| CH12 | 0-255 | Tilt fine 0—1.0 degree |
| CH13 | 0-255 | X/Y speed （fast-slow） |
| CH14 | 0-254 | invalid |
| | 255-255 | reset |

# Display Operation

Back side



1：DMX512 DMX-IN XLR socket

2：DMX512 DMX-OUT XLR socket

3：AC POWER-IN socket（AC100-240V，50-60Hz）

4：FUSE：5A

5：power switch（ON/OFF）

Front side：（LCD display+4 button input）



- MENU   : access the menu or return to a previous menu option
- ENTER  : select the current menu option
- UP       : menu selection or parameter increments
- DOWN  : menu selection or parameters decrease

# Manual Instruction

```
[menu] ─┬─ (Address) ──── (Address=) ──── A001-A512
        │
        ├─ (option) ──┬─ (x Reverse)
        │             ├─ (Y Reverse) ──── （NO/YES）
        │             └─ (XY Exchange)
        │
        ├─ (Display) ─┬─ (Language) ──── English
        │             ├─ (lightness) ──── 1-32
        │             ├─ (poorlight) ──── constant open
        │             │                   dim
        │             │                   off
        │             └─ LOGO ──── （NO/YES）
        │
        ├─ (man Control) ── ch1 ┊ ch12 ──── 0--255
        │
        ├─ (Test operation) ─┬─ (Sound) ──── (program run)
        │                    └─ (Auto)
        │
        ├─ (Resume default) ──── (enter)
        │
        └─ (Fixture reset) ──── (enter)
```

1：Press [menu] or [enter] to main menu
2：Press [up] or [down] to select options
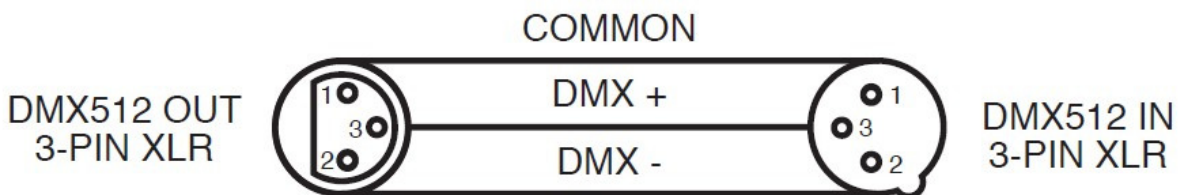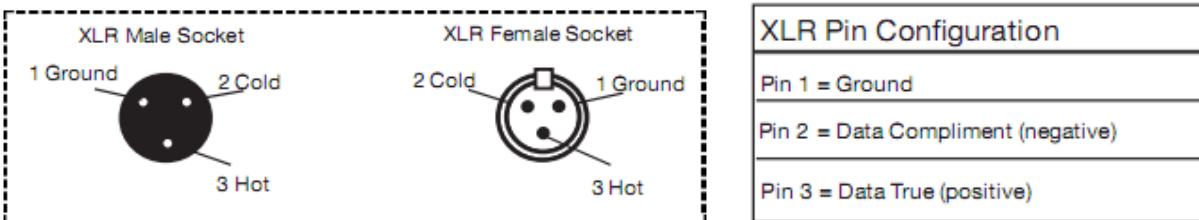
# Operating Control Instruction

## Master/Slave

Master：The master should set as built-in program and shows" P - X – X" send out synchronization signals. To avoid the host signal and DMX512 signals interfere with each other, should cut off the DMX512 signals. The signal lines are longer than 60 meters should increase a signal amplifier.

Slave：It must be in the SLAV mode and the address code should be A001 to assure receive the master's signals correctly. Only one light can be set as a Master and others are slaves.

# XLR cable connecting

## XRL cable：

The stand connection way of the XRL is: one end connects to the male plug, and the other connects to the female.





Noted In order to avoid failures and interference signal transmission we connect

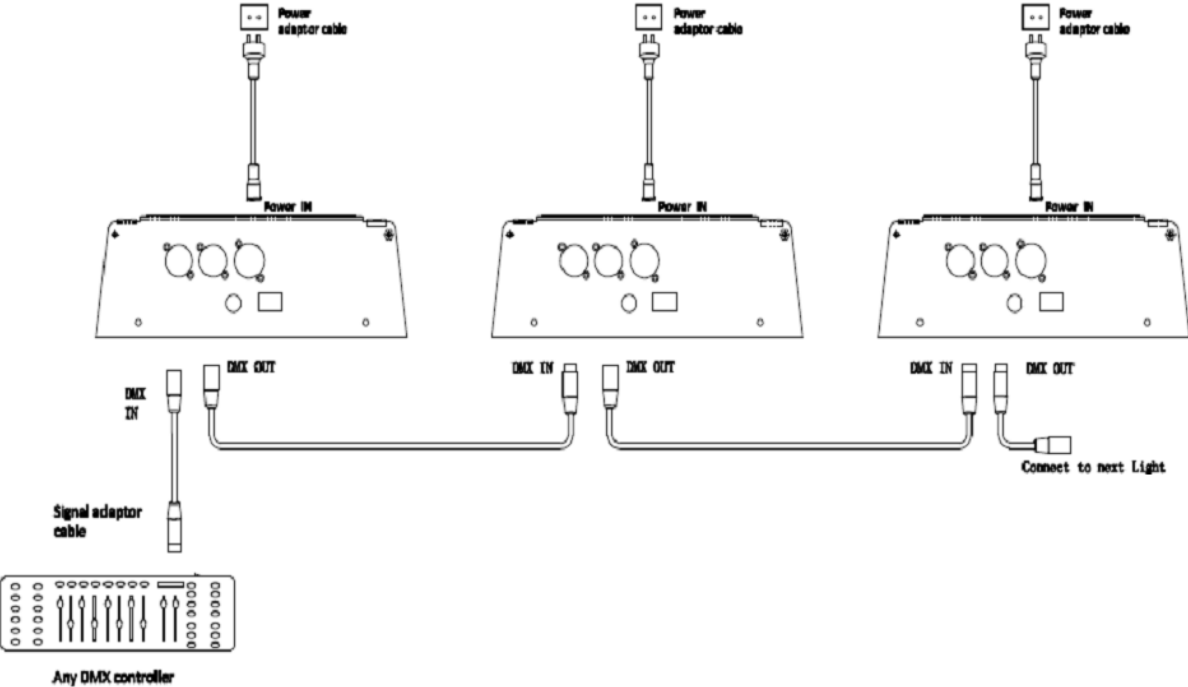a resistance120Ω 1/4W at the end of the DMX connecting as below:

Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

The Conversion between 3pin and 5 pin XLR

If the output cable of DMX512 controller is the 5PIN, please use 1pc 5PIN to 3PIN cable

| 3-Pin XLR to 5-Pin XLR Conversion | | |
|---|---|---|
| Conductor | 3-Pin XLR Female (Out) | 5-Pin XLR Male (In) |
| Ground/Shield | Pin 1 | Pin 1 |
| Data Compliment (- signal) | Pin 2 | Pin 2 |
| Data True (+ signal) | Pin 3 | Pin 3 |
| Not Used | | Do Not Use |
| Not Used | | Do Not Use |

# Connecting picture

Power adaptor cable

Power adaptor cable

Power adaptor cable

Power IN

Power IN

Power IN

DMX IN

DMX OUT

DMX IN

DMX OUT

DMX IN

DMX OUT

Connect to next Light

Signal adaptor cable

Any DMX controller

# Problem Analyze

| Problem | Checking way |
|---|---|
| Can not turn on the light | ◆ Check the power source plug is in normal or not<br>◆ Check the switch of the lights is off or on<br>◆ Check it the fuse if in normal |
| DMX can not control it | ◆ Check the DMX cable is connect to the lights or not<br>◆ Check the DMX512 controller work in normal or not<br>◆ Check the DMX cable is normal or not<br>◆ Check if the lights is in DMX mode（A001） |
| Display not bright | ◆ When connect to the electricity did the led flash one time? If so the power source is normal; If not please check if the switch and the transformer has power out<br>◆ Check if the power input of the IC board is normal<br>◆ Check if the cable connect to the display loose<br>◆ Change the main board to see if it is normal.<br>◆ Chang the display |
| LED not light | ◆ When connect to the electricity did the led flash one time? If so the power source is normal; If not please check if the switch and the transformer has power out<br>◆ Check if the power input of the IC board is normal<br>◆ Check if the cable connect to the display loose<br>◆ Change the main board to see if it is normal.<br>◆ Chang the display |
|  | ◆ LED is connect by leds in series first, then connect parallel, so please check if the leds is loose |

| Some of the LED not light | ◆ Use the multimeter to check if the led is bright or not, of not, please change the led<br>◆ check whether current limiting resistor is normal or not<br>◆ Check constant current IC is normal or not (compared with the normal IC) |
|---|---|
| Single color leds always bright/not bright | ◆ Check the switch of this color is normal or not<br>◆ Change the IC control board |

Noted: only professional persons can do as above！

# Technical Specification

- Input voltage：AC 100V-240V/47-63HZ

- Output voltage：DC24V

- Consume：260W

- Lamp Type：High Power LED(10w)

- Lamp Spec：RGBW 4-in-1 LED(36 pcs)

- Constant current drive: 500Ma(single color drive)

- Refresh Rate: above 400HZ

- Life Span: above 50000 hours

- Control Signal：DMX512, master and slaver, sound activated
- Control mode：stand alone/ DMX/ master and slaver
- Channel：14CH,10CH

- Color effect: R,G,B,W color mixing

- Function Effect：dimmer, strobe, eotic, fade, sound activated
- Pan 540 degrees, Tilt 270 degrees, reset b
- Pan fine 2.1 degrees, Tilt fine 1.0 degree
- Beam Angle: 25° or 45°

- Cooling mode: Fan cooling

- Protection rate:IP20

- Anti-electricity intension：1.5KV

- Insulation Resistance：$> 2$ MΩ

- Size:：320*242*385mm

- Net Weight：9.5KG

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