

# Outdoor 20x40w LED Zoom Bar

## User Manual



This manual contains important information.  
Please read before operating fixture.

# 1 SECURITY TIPS

**WARNING!!! To reduce the risk of fire, electric shock, or injury to persons, follow these important safety instructions:**

- non-professionals, not to disassemble the light arbitrarily and lighting accessories inside.
- rated voltage range: AC110V-120V/60Hz or AC200V-240V / 50HZ (to be selected).
- not beam irradiate the flammable materials, flammable materials and the lamp should be maintained at least 1M over the distance.
- lamps used in ambient temperature: -15 °C -40 °C , the highest temperature of the surface of the lamp: 60 °C .
- to keep away from the liquid substance and humid environment.
- before using the lights must ensure the good grounding, can not install charging and remove any parts.
- the installation of lamps, must be fixed screw fasteners with additional security cable and regular inspection.
- lamps consecutive working hours is not recommended more than 10 hours.
- should stop using the lights in time when happens unusual conditions during the process
- lamp parts of the rotation, external accessories and paste parts should be regular inspected, such as the emergence of loose and rock, should be reinforced in a timely manner to prevent the accident.
- lamps adopt strong winds to refrigerate, it is easy to accumulate the dust, so you have to clean it weekly especially the cooling air opening, otherwise the dust will plug leading to poor light

## 2 TECHNOLOGY REFERENCE

Input voltage range: 100-240 V, 50/60 Hz

Power consumption: 800W

LED Source: 20x 40W RGBW LED multichip

Zoom: 3°- 60°

Channel: 19CH/34CH/35CH/48CH/49CH/88CH/89CH

Control mode: DMX512, Master-slave, Sound, Auto

LED life expectancy: min. 20.000 hours

Dimmer: 0-100% liner dimmer

Strobe: Max 20Hz

Color mixing mode RGBW

Individual control of each RGBW pixel

Variable CTO: 2.700K - 8.000K

Motorized zoom

Feature: LED point control, two zoom zone control, beam and wash effect

Tilt movement: 205°

16 bit movement resolution

Display: LCD display

Power in/out connector: IP Power CON in/out

DMX in/out: 3-pin/5-pin XLR

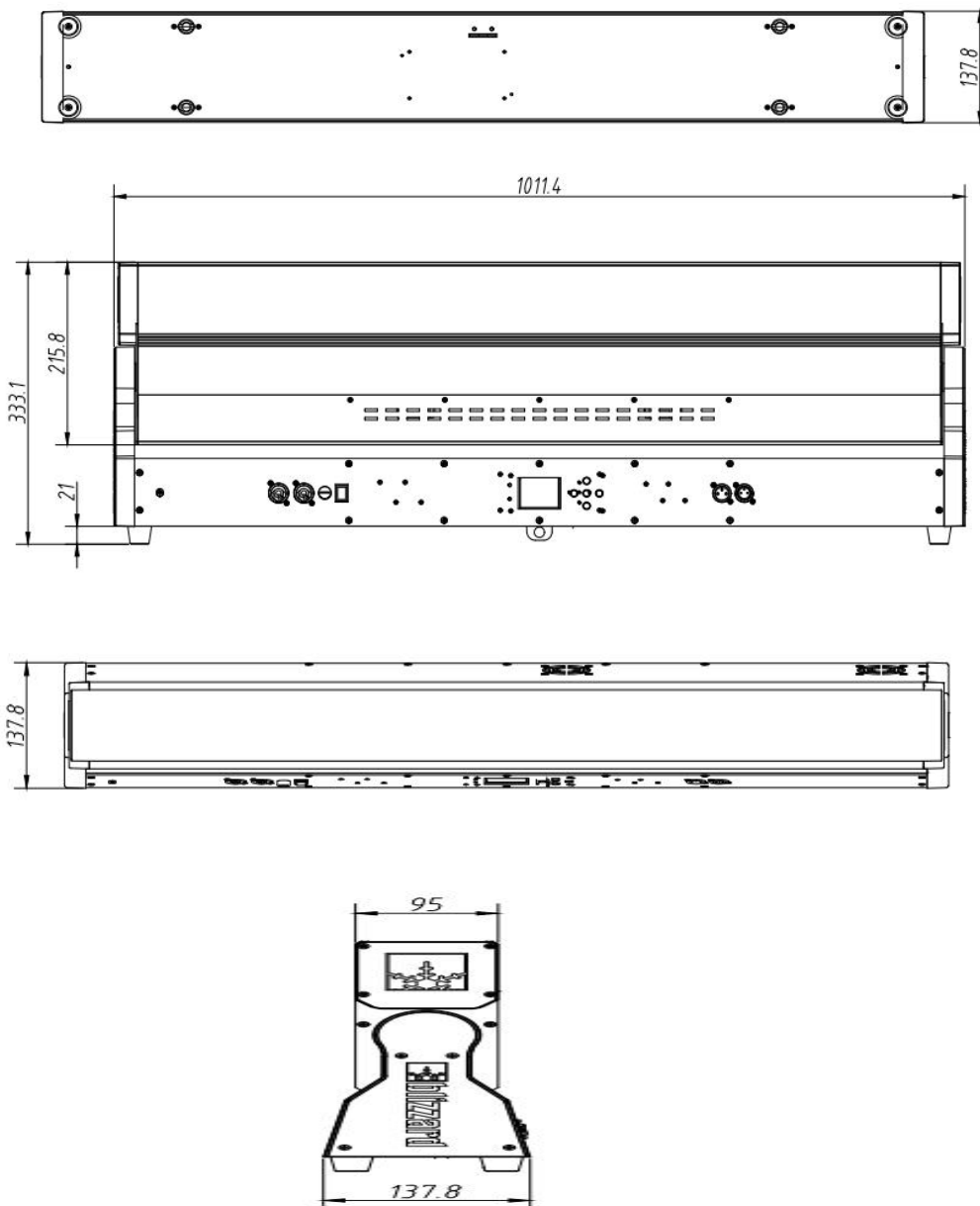
### **MIN ZOOM-3° Beam Diameter**

| Distance(m)    | 1m    | 3m    | 5m   |
|----------------|-------|-------|------|
| Intensity(lux) | lux   | lux   | lux  |
| R              | 7362  | 2671  | 1306 |
| G              | 20740 | 7420  | 4058 |
| B              | 12760 | 6530  | 3290 |
| W              | 25400 | 9310  | 4784 |
| R+G+B+W        | 46000 | 15310 | 8540 |

### **MAX ZOOM-60° Beam Diameter**

| Distance(m)    | 1m   | 3m   | 5m  |
|----------------|------|------|-----|
| Intensity(lux) | lux  | lux  | lux |
| R              | 1806 | 333  | 149 |
| G              | 4432 | 963  | 376 |
| B              | 3930 | 622  | 173 |
| W              | 5765 | 1204 | 485 |
| R+G+B+W        | 9450 | 2060 | 815 |

## Product Dimensions(mm):



### 3 BOARD INSTRUCTION

|          |                        |       |
|----------|------------------------|-------|
| ADDRESS  | 001-512                |       |
| RESET    | Yes                    |       |
|          | No                     |       |
| MANUAL   | ZOOM1                  | 0-255 |
|          | ZOOM2                  | 0-255 |
|          | Tilt                   | 0-255 |
|          | Strobr                 | 0-20  |
|          | White                  | 0-255 |
|          | Blue                   | 0-255 |
|          | Green                  | 0-255 |
|          | Red                    | 0-255 |
| INFO     | Version                | V1.11 |
| SET      | English                | YES   |
|          |                        | NO    |
|          | Slave                  | YES   |
|          |                        | NO    |
|          | Signal Keep            | YES   |
|          |                        | NO    |
|          | Display                | YES   |
|          |                        | NO    |
| TEST     | ALL                    |       |
| DMX MODE | 35/20/34/89/88/49/48CH |       |
| RUN      | AUTO                   |       |
|          | DMX512                 |       |
|          | SOUND                  |       |

## 4 DMX CHANNEL SHEET

## 5.1 Normal mode 34CH

| Channel              | function  | valua                    | DMX  |
|----------------------|---|--------------------------|--|
| 1-Tilt-high          | Tilt coarse   | 0-210°                   | 0-255  |
| 2-Tilt-low           | Tilt fine   |                          | 0-255  |
| 3-Zoom               | Wide(flood)-narrow  | 60-3°                    | 0-255  |
| 4-CTO                | NO CTO<br>Continuous-color-temperature correction   | Applicable for all color | 0-7<br>8-255   |
| 5-Set-1 color(fixed) | No color<br>Color 01-Red<br>Color 02-Amber<br>Color 03-warm white<br>Color 04-yellow<br>Color 05- light green<br>Color 06-light blue<br>Color 07-rose red<br>Color 08-blue<br>Color 09-pink<br>Color 10-warm white<br>Color 11-magenta<br>Color 12-white<br>No function<br>Red<br>No function | Dark to bright           | 0-7<br>8-14<br>15-21<br>22-28<br>29-35<br>36-42<br>43-49<br>50-57<br>58-63<br>64-70<br>71-77<br>78-91<br>92-98<br>99-105<br>106-126<br>127-255 |

|                    |   |   |  |
|--------------------|---|---|--|
| 6-Set 1 red        | Mixing system R   | 0-100%  | 0-255  |
| 7-Set 1 green      | Mixing system G   | 0-100%  | 0-255  |
| 8-Set 1 blue       | Mixing system B   | 0-100%  | 0-255  |
| 9-Set 1 white      | Mixing system W   | 0-100%  | 0-255  |
| 10-Set 1 intensity | intensity   | 0-100%  | 0-255  |
| 11-Shutter         | Shutter closed<br>Shutter pulse random<br>Fade on,snap off<br>Snap on,fade off<br>Fade on,fade off<br>Strobe random<br>Strobe effect<br>slow-fast<br>Shutter closed | Slow-fast<br>Slow-fast<br>Slow-fast<br>Slow-fast<br>5s-0.1s<br>1HZ-10HZ | 0-15<br>16-47<br>48-79<br>80-111<br>112-143<br>144-199<br>200-239<br>240-255 |
| 12 intensity       | intensity   | 0-100%  | 0-255  |
| 13 special         |   | Reset   | 252-255  |
| 14 set 2 color     | Value see channel 5   | ...   | ...  |
| 15 set 2 R         | Mixing system R   | 0-100%  | 0-255  |
| 16 set 2 G         | Mixing system G   | 0-100%  | 0-255  |
| 17 set 2 B         | Mixing system B   | 0-100%  | 0-255  |



|                                 |                     |        |       |
|---------------------------------|---------------------|--------|-------|
| 18 set 2 W                      | Mixing system W     | 0-100% | 0-255 |
| 19 Set 2<br>intensity           | intensity           | 0-100% | 0-255 |
| 20 set 3 color                  | Value see channel 5 | ...    | ...   |
| 21 set 3 R                      | Mixing system R     | 0-100% | 0-255 |
| 22 set 3 G                      | Mixing system G     | 0-100% | 0-255 |
| 23 set 3 B                      | Mixing system B     | 0-100% | 0-255 |
| 24 set 3 W                      | Mixing system W     | 0-100% | 0-255 |
| 25 Set 3<br>intensity           | intensity           | 0-100% | 0-255 |
| 26 crossfade                    | blank               |        | 0-255 |
| 27 star effect                  | blank               |        | 0-255 |
| 28 set 1<br>pattern select      | effect              |        | 0-255 |
| 29 set 1<br>pattern<br>movement | speed               |        | 0-255 |
| 30 set 2<br>pattern select      | blank               |        | 0-255 |
| 31 set 2<br>pattern Move        | blank               |        | 0-255 |
| 32 pixel<br>select 1-8          | blank               |        | 0-255 |

|                          |       |  |       |
|--------------------------|-------|--|-------|
| 33 pixel<br>select 9-16  | blank |  | 0-255 |
| 34 pixel<br>select 17-20 | blank |  | 0-255 |

## 5.2 Compressed mode 20CH

| Channel                 | function  | valua  | DMX  |
|-------------------------|---|--------|--|
| 1-None                  | reserved  |        | -  |
| 2-None                  | reserved  |        | -  |
| 3-Tilt-high             | Tilt coarse   | 0-210° | 0-255  |
| 4-Tilt-low              | Tilt fine   |        | 0-255  |
| 5-Set-1<br>color(fixed) | No color<br>Color 01-Red<br>Color 02-Amber<br>Color 03-warm white<br>Color 04-yellow<br>Color 05- light green<br>Color 06-light blue<br>Color 07-rose red<br>Color 08-blue<br>Color 09-pink<br>Color 10-warm white<br>Color 11-magenta<br>Color 12-white<br>No function |        | 0-7<br>8-14<br>15-21<br>22-28<br>29-35<br>36-42<br>43-49<br>50-57<br>58-63<br>64-70<br>71-77<br>78-91<br>92-98<br>99-105 |



|                      |   |   |  |
|----------------------|---|---|--|
|                      | Red<br>No function  | Dark to bright  | 106-126<br>127-255   |
| 6-Set 1 red          | Mixing system R   | 0-100%  | 0-255  |
| 7-Set 1 green        | Mixing system G   | 0-100%  | 0-255  |
| 8-Set 1 blue         | Mixing system B   | 0-100%  | 0-255  |
| 9-Set 1 white        | Mixing system W   | 0-100%  | 0-255  |
| 10-Shutter           | Shutter closed<br>Shutter pulse random<br>Fade on,snap off<br>Snap on,fade off<br>Fade on,fade off<br>Strobe random<br>Strobe effect<br>slow-fast<br>Shutter closed | Slow-fast<br>Slow-fast<br>Slow-fast<br>Slow-fast<br>5s-0.1s<br>1HZ-10HZ | 0-15<br>16-47<br>48-79<br>80-111<br>112-143<br>144-199<br>200-239<br>240-255 |
| 11 intensity         | intensity   | 0-100%  | 0-255  |
| 12 CTO               | NO CTO<br>Continuous-color-temperature correction   | ...<br>Applicable for all color   | 0-7<br>8-255   |
| 13 -special          |   | reset   | 252-255  |
| 14-background color  |   |   | 0-255  |
| 15-Background dimmer |   |   | 0-255  |

|              |             |       |       |
|--------------|-------------|-------|-------|
| 16 Zoom      | Wide-narrow | 60-3° | 0-255 |
| 17 -auto     |             |       | 0-255 |
| 18 -Speed    |             |       | 0-255 |
| 19 -reserved |             |       | -     |
| 20 -reserved |             |       | -     |

### 5.3 High resolution mode 35CH

| Channel              | function   | valua                    | DMX  |
|----------------------|--|--------------------------|--|
| 1-Tilt-high          | Tilt coarse  | 0-210°                   | 0-255  |
| 2-Tilt-low           | Tilt fine  |                          | 0-255  |
| 3-Zoom               | Wide(flood)-narrow   | 50-7°                    | 0-255  |
| 4-CTO                | NO CTO<br>Continuous-color-temperature correction  | Applicable for all color | 0-7<br>8-255   |
| 5-Set-1 color(fixed) | No color<br>Color 01-Red<br>Color 02-Amber<br>Color 03-warm white<br>Color 04-yellow<br>Color 05- light green<br>Color 06-light blue |                          | 0-7<br>8-14<br>15-21<br>22-28<br>29-35<br>36-42<br>43-49 |

|                    |   |   |  |
|--------------------|---|---|--|
|                    | Color 07-rose red<br>Color 08-blue<br>Color 09-pink<br>Color 10-warm white<br>Color 11-magenta<br>Color 12-white<br>No function<br>Red<br>No function               | Dark to bright  | 50-57<br>58-63<br>64-70<br>71-77<br>78-91<br>92-98<br>99-105<br>106-126<br>127-255 |
| 6-Set 1 red        | Mixing system R   | 0-100%  | 0-255  |
| 7-Set 1 green      | Mixing system G   | 0-100%  | 0-255  |
| 8-Set 1 blue       | Mixing system B   | 0-100%  | 0-255  |
| 9-Set 1 white      | Mixing system W   | 0-100%  | 0-255  |
| 10-Set 1 intensity | intensity   | 0-100%  | 0-255  |
| 11-Shutter         | Shutter closed<br>Shutter pulse random<br>Fade on,snap off<br>Snap on,fade off<br>Fade on,fade off<br>Strobe random<br>Strobe effect<br>slow-fast<br>Shutter closed | Slow-fast<br>Slow-fast<br>Slow-fast<br>Slow-fast<br>5s-0.1s<br>1HZ-10HZ | 0-15<br>16-47<br>48-79<br>80-111<br>112-143<br>144-199<br>200-239<br>240-255       |
| 12 intensity-high  | Intensity-coarse  | 0-100%  | 0-255  |

|                       |                      |   |   |
|-----------------------|----------------------|---|---|
| 13<br>intensity-low   | Intensity-low        | -   | 0-255   |
| 14 special            |                      | reset   | 252-255   |
| 15 set 2 color        | Values see channel 5 |  |  |
| 16 set 2 R            | Mixing system R      | 0-100%  | 0-255   |
| 17 set 2 G            | Mixing system G      | 0-100%  | 0-255   |
| 18 set 2 B            | Mixing system B      | 0-100%  | 0-255   |
| 19 set 2 W            | Mixing system W      | 0-100%  | 0-255   |
| 20 set 2<br>intensity | intensity            | 0-100%  | 0-255   |
| 21 set 3 color        | Values see channel 5 | -   | -   |
| 22 set 3 R            | Mixing system R      | 0-100%  | 0-255   |
| 23 set 3 G            | Mixing system G      | 0-100%  | 0-255   |
| 24 set 3 B            | Mixing system B      | 0-100%  | 0-255   |
| 25 set 3 W            | Mixing system W      | 0-100%  | 0-255   |
| 26 Set 3<br>intensity | intensity            | 0-100%  | 0-255   |
| 27 crossfade          | blank                |   | 0-255   |

|                                 |       |  |       |
|---------------------------------|-------|--|-------|
| 28 star effect                  | blank |  | 0-255 |
| 29 set 1<br>pattern select      | speed |  | 0-255 |
| 30 set 1<br>pattern<br>movement | blank |  | 0-255 |
| 31 set 2<br>pattern select      | blank |  | 0-255 |
| 32 set 2<br>pattern<br>movement | blank |  | 0-255 |
| 33 pixel<br>select 1-8          | blank |  | 0-255 |
| 34 pixel<br>select 9-16         | blank |  | 0-255 |
| 35 pixel<br>select 17-20        | blank |  | 0-255 |

## 5.4 Dual pixel mode 48CH

| Channel     | function                               | valua     | DMX           |
|-------------|--|-----------|---------------|
| 1-Tilt-high | Tilt coarse                            | 0-210°    | 0-255         |
| 2-Tilt-low  | Tilt fine                              |           | 0-255         |
| 3-Shutter   | Shutter closed<br>Shutter pulse random | Slow-fast | 0-15<br>16-47 |

|               |   |  |   |
|---------------|---|--|---|
|               | Fade on,snap off<br>Snap on,fade off<br>Fade on,fade off<br>Strobe random<br>Strobe effect<br>slow-fast<br>Shutter closed | Slow-fast<br>Slow-fast<br>Slow-fast<br>5s-0.1s<br>1HZ-10HZ | 48-79<br>80-111<br>112-143<br>144-199<br>200-239<br>240-255 |
| 4-intensity   | intensity   | 0-100%   | 0-255   |
| 5-CTO         | NO CTO<br>Continuous-color-temperature correction   | Applicable for all color                                   | 0-7<br>8-255  |
| 6-special     |   | reset  | 252-255   |
| 7-crossfade   | blank   |  | 0-255   |
| 8-Zoom        | Wide(flood)-narrow(spot)  | 50-7°  | 0-255   |
| 9-Set 1&2 R   | Mixing system R   | 0-100%   | 0-255   |
| 10-Set 1&2 G  | Mixing system B   | 0-100%   | 0-255   |
| 11 -Set 1&2 B | Mixing system B   | 0-100%   | 0-255   |
| 12 -Set 1&2 W | Mixing system W   | 0-100%   | 0-255   |
| 13 Set 3&4 R  | Mixing system R   | 0-100%   | 0-255   |
| 14 Set 3&4 G  | Mixing system G   | 0-100%   | 0-255   |
| 15 Set 3&4 B  | Mixing system B   | 0-100%   | 0-255   |



|                |                 |        |       |
|----------------|-----------------|--------|-------|
| 16 Set 3&4 W   | Mixing system W | 0-100% | 0-255 |
| 17 Set 5&6 R   | Mixing system R | 0-100% | 0-255 |
| 18 Set 5&6 G   | Mixing system G | 0-100% | 0-255 |
| 19 Set 5&6 B   | Mixing system B | 0-100% | 0-255 |
| 20 Set 5&6 W   | Mixing system W | 0-100% | 0-255 |
| 21 Set 7&8 R   | Mixing system R | 0-100% | 0-255 |
| 22 Set 7&8 G   | Mixing system G | 0-100% | 0-255 |
| 23 Set 7&8 B   | Mixing system B | 0-100% | 0-255 |
| 24 Set 7&8 W   | Mixing system W | 0-100% | 0-255 |
| 25 Set 9&10 R  | Mixing system R | 0-100% | 0-255 |
| 26 Set 9&10 G  | Mixing system G | 0-100% | 0-255 |
| 27 Set 9&10 B  | Mixing system B | 0-100% | 0-255 |
| 28 Set 9&10 W  | Mixing system W | 0-100% | 0-255 |
| 29 Set 11&12 R | Mixing system R | 0-100% | 0-255 |
| 30 Set 11&12 G | Mixing system G | 0-100% | 0-255 |

|                |                 |        |       |
|----------------|-----------------|--------|-------|
| 31 Set 11&12 B | Mixing system B | 0-100% | 0-255 |
| 32 Set 11&12 W | Mixing system W | 0-100% | 0-255 |
| 33 Set 13&14 R | Mixing system R | 0-100% | 0-255 |
| 34 Set 13&14 G | Mixing system G | 0-100% | 0-255 |
| 35 Set 13&14 B | Mixing system B | 0-100% | 0-255 |
| 36 Set 13&14 W | Mixing system W | 0-100% | 0-255 |
| 37 Set 15&16 R | Mixing system R | 0-100% | 0-255 |
| 38 Set 15&16 G | Mixing system G | 0-100% | 0-255 |
| 39 Set 15&16 B | Mixing system B | 0-100% | 0-255 |
| 40 Set 15&16 W | Mixing system W | 0-100% | 0-255 |
| 41 Set 17&18 R | Mixing system R | 0-100% | 0-255 |
| 42 Set 17&18 G | Mixing system G | 0-100% | 0-255 |
| 43 Set 17&18 B | Mixing system B | 0-100% | 0-255 |
| 44 Set 17&18 W | Mixing system W | 0-100% | 0-255 |
| 45 Set 19&20 R | Mixing system R | 0-100% | 0-255 |

|                   |                 |        |       |
|-------------------|-----------------|--------|-------|
| 46 Set 19&20<br>G | Mixing system G | 0-100% | 0-255 |
| 47 Set 19&20<br>B | Mixing system B | 0-100% | 0-255 |
| 48 Set 19&20<br>W | Mixing system W | 0-100% | 0-255 |

## 5.5 Dual pixel high resolution mode 49CH

| Channel          | function  | valua   | DMX  |
|------------------|---|---|--|
| 1-Tilt-high      | Tilt coarse   | 0-210°  | 0-255  |
| 2-Tilt-low       | Tilt fine   |   | 0-255  |
| 3-Shutter        | Shutter closed<br>Shutter pulse random<br>Fade on,snap off<br>Snap on,fade off<br>Fade on,fade off<br>Strobe random<br>Strobe effect<br>slow-fast<br>Shutter closed | Slow-fast<br>Slow-fast<br>Slow-fast<br>Slow-fast<br>5s-0.1s<br>1HZ-10HZ | 0-15<br>16-47<br>48-79<br>80-111<br>112-143<br>144-199<br>200-239<br>240-255 |
| 4-intensity-high | Intensity-coarse  | 0-100%  | 0-255  |
| 5-intensity-low  | Intensity-fine  | -   | 0-255  |
| 6-CTO            | NO CTO<br>Continuous-color-temperature correction   | Applicable for all color  | 0-7<br>8-255   |

|               |                          |        |         |
|---------------|--------------------------|--------|---------|
| 7-special     |                          | reset  | 252-255 |
| 8-crossfade   | blank                    |        | 0-255   |
| 9-Zoom        | Wide(flood)-narrow(spot) | 60-3°  | 0-255   |
| 10-Set 1&2 R  | Mixing system R          | 0-100% | 0-255   |
| 11-Set 1&2 G  | Mixing system B          | 0-100% | 0-255   |
| 12 -Set 1&2 B | Mixing system B          | 0-100% | 0-255   |
| 13 -Set 1&2 W | Mixing system W          | 0-100% | 0-255   |
| 14 Set 3&4 R  | Mixing system R          | 0-100% | 0-255   |
| 15 Set 3&4 G  | Mixing system G          | 0-100% | 0-255   |
| 16 Set 3&4 B  | Mixing system B          | 0-100% | 0-255   |
| 17 Set 3&4 W  | Mixing system W          | 0-100% | 0-255   |
| 18 Set 5&6 R  | Mixing system R          | 0-100% | 0-255   |
| 19 Set 5&6 G  | Mixing system G          | 0-100% | 0-255   |
| 20 Set 5&6 B  | Mixing system B          | 0-100% | 0-255   |
| 21 Set 5&6 W  | Mixing system W          | 0-100% | 0-255   |

|                |                 |        |       |
|----------------|-----------------|--------|-------|
| 22 Set 7&8 R   | Mixing system R | 0-100% | 0-255 |
| 23 Set 7&8 G   | Mixing system G | 0-100% | 0-255 |
| 24 Set 7&8 B   | Mixing system B | 0-100% | 0-255 |
| 25 Set 7&8 W   | Mixing system W | 0-100% | 0-255 |
| 26 Set 9&10 R  | Mixing system R | 0-100% | 0-255 |
| 27 Set 9&10 G  | Mixing system G | 0-100% | 0-255 |
| 28 Set 9&10 B  | Mixing system B | 0-100% | 0-255 |
| 29 Set 9&10 W  | Mixing system W | 0-100% | 0-255 |
| 30 Set 11&12 R | Mixing system R | 0-100% | 0-255 |
| 31 Set 11&12 G | Mixing system G | 0-100% | 0-255 |
| 32 Set 11&12 B | Mixing system B | 0-100% | 0-255 |
| 33 Set 11&12 W | Mixing system W | 0-100% | 0-255 |
| 34 Set 13&14 R | Mixing system R | 0-100% | 0-255 |
| 35 Set 13&14 G | Mixing system G | 0-100% | 0-255 |
| 36 Set 13&14 B | Mixing system B | 0-100% | 0-255 |

|                   |                 |        |       |
|-------------------|-----------------|--------|-------|
| 37 Set 13&14<br>W | Mixing system W | 0-100% | 0-255 |
| 38 Set 15&16<br>R | Mixing system R | 0-100% | 0-255 |
| 39 Set 15&16<br>G | Mixing system G | 0-100% | 0-255 |
| 40 Set 15&16<br>B | Mixing system B | 0-100% | 0-255 |
| 41 Set 15&16<br>W | Mixing system W | 0-100% | 0-255 |
| 42 Set 17&18<br>R | Mixing system R | 0-100% | 0-255 |
| 43 Set 17&18<br>G | Mixing system G | 0-100% | 0-255 |
| 44 Set 17&18<br>B | Mixing system B | 0-100% | 0-255 |
| 45 Set 17&18<br>W | Mixing system W | 0-100% | 0-255 |
| 46 Set 19&20<br>R | Mixing system R | 0-100% | 0-255 |
| 47 Set 19&20<br>G | Mixing system G | 0-100% | 0-255 |
| 48 Set 19&20<br>B | Mixing system B | 0-100% | 0-255 |
| 49 Set 19&20<br>W | Mixing system W | 0-100% | 0-255 |

## 5.6 Single pixel mode 88CH

| Channel     | function  | valua   | DMX  |
|-------------|---|---|--|
| 1-Tilt-high | Tilt coarse   | 0-210°  | 0-255  |
| 2-Tilt-low  | Tilt fine   |   | 0-255  |
| 3-Shutter   | Shutter closed<br>Shutter pulse random<br>Fade on,snap off<br>Snap on,fade off<br>Fade on,fade off<br>Strobe random<br>Strobe effect<br>slow-fast<br>Shutter closed | Slow-fast<br>Slow-fast<br>Slow-fast<br>Slow-fast<br>5s-0.1s<br>1HZ-10HZ | 0-15<br>16-47<br>48-79<br>80-111<br>112-143<br>144-199<br>200-239<br>240-255 |
| 4-intensity | Intensity   | 0-100%  | 0-255  |
| 5-CTO       | NO CTO<br>Continuous-color-te<br>mperature correction   | Applicable for all<br>color   | 0-7<br>8-255   |
| 6-special   |   | reset   | 252-255  |
| 7-crossfade | blank   |   | 0-255  |
| 8-Zoom      | Wide(flood)-narrow(<br>spot)  | 60-3°   | 0-255  |
| 9-Set 1 R   | Mixing system R   | 0-100%  | 0-255  |
| 10-Set 1 G  | Mixing system B   | 0-100%  | 0-255  |

|             |                 |        |       |
|-------------|-----------------|--------|-------|
| 11 -Set 1 B | Mixing system B | 0-100% | 0-255 |
| 12 -Set 1 W | Mixing system W | 0-100% | 0-255 |
| 13 Set 2 R  | Mixing system R | 0-100% | 0-255 |
| 14 Set 2 G  | Mixing system G | 0-100% | 0-255 |
| 15 Set 2 B  | Mixing system B | 0-100% | 0-255 |
| 16 Set 2 W  | Mixing system W | 0-100% | 0-255 |
| 17 Set 3 R  | Mixing system R | 0-100% | 0-255 |
| 18 Set 3 G  | Mixing system G | 0-100% | 0-255 |
| 19 Set 3 B  | Mixing system B | 0-100% | 0-255 |
| 20 Set 3 W  | Mixing system W | 0-100% | 0-255 |
| 21 Set 4 R  | Mixing system R | 0-100% | 0-255 |
| 22 Set 4 G  | Mixing system G | 0-100% | 0-255 |
| 23 Set 4 B  | Mixing system B | 0-100% | 0-255 |
| 24 Set 4 W  | Mixing system W | 0-100% | 0-255 |
| 25 Set 5 R  | Mixing system R | 0-100% | 0-255 |



|            |                 |        |       |
|------------|-----------------|--------|-------|
| 26 Set 5 G | Mixing system G | 0-100% | 0-255 |
| 27 Set 5 B | Mixing system B | 0-100% | 0-255 |
| 28 Set 5 W | Mixing system W | 0-100% | 0-255 |
| 29 Set 6 R | Mixing system R | 0-100% | 0-255 |
| 30 Set 6 G | Mixing system G | 0-100% | 0-255 |
| 31 Set 6 B | Mixing system B | 0-100% | 0-255 |
| 32 Set 6 W | Mixing system W | 0-100% | 0-255 |
| 33 Set 7 R | Mixing system R | 0-100% | 0-255 |
| 34 Set 7 G | Mixing system G | 0-100% | 0-255 |
| 35 Set 7 B | Mixing system B | 0-100% | 0-255 |
| 36 Set 7 W | Mixing system W | 0-100% | 0-255 |
| 37 Set 8 R | Mixing system R | 0-100% | 0-255 |
| 38 Set 8 G | Mixing system G | 0-100% | 0-255 |
| 39 Set 8 B | Mixing system B | 0-100% | 0-255 |
| 40 Set 8 W | Mixing system W | 0-100% | 0-255 |

|             |                 |        |       |
|-------------|-----------------|--------|-------|
| 41 Set 9 R  | Mixing system R | 0-100% | 0-255 |
| 42 Set 9 G  | Mixing system G | 0-100% | 0-255 |
| 43 Set 9 B  | Mixing system B | 0-100% | 0-255 |
| 44 Set 9 W  | Mixing system W | 0-100% | 0-255 |
| 45 Set 10 R | Mixing system R | 0-100% | 0-255 |
| 46 Set 10 G | Mixing system G | 0-100% | 0-255 |
| 47 Set 10 B | Mixing system B | 0-100% | 0-255 |
| 48 Set 10 W | Mixing system W | 0-100% | 0-255 |
| 49 Set 11 R | Mixing system R | 0-100% | 0-255 |
| 50 Set 11 G | Mixing system G | 0-100% | 0-255 |
| 51 Set 11 B | Mixing system B | 0-100% | 0-255 |
| 52 Set 11 W | ixing system W  | 0-100% | 0-255 |
| 53 Set 12 R | Mixing system R | 0-100% | 0-255 |
| 54 Set 12 G | Mixing system G | 0-100% | 0-255 |
| 55 Set 12 B | Mixing system B | 0-100% | 0-255 |

|             |                 |        |       |
|-------------|-----------------|--------|-------|
| 56 Set 12 W | Mixing system W | 0-100% | 0-255 |
| 57 Set 13 R | Mixing system R | 0-100% | 0-255 |
| 58 Set 13 G | Mixing system G | 0-100% | 0-255 |
| 59 Set 13 B | Mixing system B | 0-100% | 0-255 |
| 60 Set 13 W | Mixing system W | 0-100% | 0-255 |
| 61 Set 14 R | Mixing system R | 0-100% | 0-255 |
| 62 Set 14 G | Mixing system G | 0-100% | 0-255 |
| 63 Set 14 B | Mixing system B | 0-100% | 0-255 |
| 64 Set 14 W | Mixing system W | 0-100% | 0-255 |
| 65 Set 15 R | Mixing system R | 0-100% | 0-255 |
| 66 Set 15 G | Mixing system G | 0-100% | 0-255 |
| 67 Set 15 B | Mixing system B | 0-100% | 0-255 |
| 68 Set 15 W | Mixing system W | 0-100% | 0-255 |
| 69 Set 16 R | Mixing system R | 0-100% | 0-255 |
| 70 Set 16 G | Mixing system G | 0-100% | 0-255 |

|             |                 |        |       |
|-------------|-----------------|--------|-------|
| 71 Set 16 B | Mixing system B | 0-100% | 0-255 |
| 72 Set 16 W | Mixing system W | 0-100% | 0-255 |
| 73 Set 17 R | Mixing system R | 0-100% | 0-255 |
| 74 Set 17 G | Mixing system G | 0-100% | 0-255 |
| 75 Set 17 B | Mixing system B | 0-100% | 0-255 |
| 76 Set 17 W | Mixing system W | 0-100% | 0-255 |
| 77 Set 18 R | Mixing system R | 0-100% | 0-255 |
| 78 Set 18 G | Mixing system G | 0-100% | 0-255 |
| 79 Set 18 B | Mixing system B | 0-100% | 0-255 |
| 80 Set 18 W | Mixing system W | 0-100% | 0-255 |
| 81 Set 19 R | Mixing system R | 0-100% | 0-255 |
| 82 Set 19 G | Mixing system G | 0-100% | 0-255 |
| 83 Set 19 B | Mixing system B | 0-100% | 0-255 |
| 84 Set 19 W | Mixing system W | 0-100% | 0-255 |
| 85 Set 20 R | Mixing system R | 0-100% | 0-255 |

|             |                 |        |       |
|-------------|-----------------|--------|-------|
| 86 Set 20 G | Mixing system G | 0-100% | 0-255 |
| 87 Set 20 B | Mixing system B | 0-100% | 0-255 |
| 88 Set 20 W | Mixing system W | 0-100% | 0-255 |

## 5.7 Single pixel resolution mode 89CH

| Channel          | function  | valua   | DMX  |
|------------------|---|---|--|
| 1-Tilt-high      | Tilt coarse   | 0-210°  | 0-255  |
| 2-Tilt-low       | Tilt fine   |   | 0-255  |
| 3-Shutter        | Shutter closed<br>Shutter pulse random<br>Fade on,snap off<br>Snap on,fade off<br>Fade on,fade off<br>Strobe random<br>Strobe effect<br>slow-fast<br>Shutter closed | Slow-fast<br>Slow-fast<br>Slow-fast<br>Slow-fast<br>5s-0.1s<br>1HZ-10HZ | 0-15<br>16-47<br>48-79<br>80-111<br>112-143<br>144-199<br>200-239<br>240-255 |
| 4-intensity-high | Intensity-coarse  | 0-100%  | 0-255  |
| 5-intensity-low  | Intensity fine  | -   | 0-255  |

|             |   |                          |              |
|-------------|---|--------------------------|--------------|
| 6-CTO       | NO CTO<br>Continuous-color-temperature correction | Applicable for all color | 0-7<br>8-255 |
| 7-special   |   | reset                    | 252-255      |
| 8-crossfade | blank   |                          | 0-255        |
| 9-Zoom      | Wide(flood)-narrow(spot)                          | 50-7°                    | 0-255        |
| 10-Set 1 R  | Mixing system R                                   | 0-100%                   | 0-255        |
| 11-Set 1 G  | Mixing system B                                   | 0-100%                   | 0-255        |
| 12-Set 1 B  | Mixing system B                                   | 0-100%                   | 0-255        |
| 13 -Set 1 W | Mixing system W                                   | 0-100%                   | 0-255        |
| 14 Set 2 R  | Mixing system R                                   | 0-100%                   | 0-255        |
| 15 Set 2 G  | Mixing system G                                   | 0-100%                   | 0-255        |
| 16 Set 2 B  | Mixing system B                                   | 0-100%                   | 0-255        |
| 17 Set 2 W  | Mixing system W                                   | 0-100%                   | 0-255        |
| 18 Set 3 R  | Mixing system R                                   | 0-100%                   | 0-255        |
| 19 Set 3 G  | Mixing system G                                   | 0-100%                   | 0-255        |
| 20 Set 3 B  | Mixing system B                                   | 0-100%                   | 0-255        |

|            |                 |        |       |
|------------|-----------------|--------|-------|
| 21 Set 3 W | Mixing system W | 0-100% | 0-255 |
| 22 Set 4 R | Mixing system R | 0-100% | 0-255 |
| 23 Set 4 G | Mixing system G | 0-100% | 0-255 |
| 24 Set 4 B | Mixing system B | 0-100% | 0-255 |
| 25 Set 4 W | Mixing system W | 0-100% | 0-255 |
| 26 Set 5 R | Mixing system R | 0-100% | 0-255 |
| 27 Set 5 G | Mixing system G | 0-100% | 0-255 |
| 28 Set 5 B | Mixing system B | 0-100% | 0-255 |
| 29 Set 5 W | Mixing system W | 0-100% | 0-255 |
| 30 Set 6 R | Mixing system R | 0-100% | 0-255 |
| 31 Set 6 G | Mixing system G | 0-100% | 0-255 |
| 32 Set 6 B | Mixing system B | 0-100% | 0-255 |
| 33 Set 6 W | Mixing system W | 0-100% | 0-255 |
| 34 Set 7 R | Mixing system R | 0-100% | 0-255 |
| 35 Set 7 G | Mixing system G | 0-100% | 0-255 |

|             |                 |        |       |
|-------------|-----------------|--------|-------|
| 36 Set 7 B  | Mixing system B | 0-100% | 0-255 |
| 37 Set 7 W  | Mixing system W | 0-100% | 0-255 |
| 38 Set 8 R  | Mixing system R | 0-100% | 0-255 |
| 39 Set 8 G  | Mixing system G | 0-100% | 0-255 |
| 40 Set 8 B  | Mixing system B | 0-100% | 0-255 |
| 41 Set 8 W  | Mixing system W | 0-100% | 0-255 |
| 42 Set 9 R  | Mixing system R | 0-100% | 0-255 |
| 43 Set 9 G  | Mixing system G | 0-100% | 0-255 |
| 44 Set 9 B  | Mixing system B | 0-100% | 0-255 |
| 45 Set 9 W  | Mixing system W | 0-100% | 0-255 |
| 46 Set 10 R | Mixing system R | 0-100% | 0-255 |
| 47 Set 10 G | Mixing system G | 0-100% | 0-255 |
| 48 Set 10 B | Mixing system B | 0-100% | 0-255 |
| 49 Set 10 W | Mixing system W | 0-100% | 0-255 |
| 50 Set 11 R | Mixing system R | 0-100% | 0-255 |



|             |                 |        |       |
|-------------|-----------------|--------|-------|
| 51 Set 11 G | Mixing system G | 0-100% | 0-255 |
| 52 Set 11 B | Mixing system B | 0-100% | 0-255 |
| 53 Set 11 W | Mixing system W | 0-100% | 0-255 |
| 54 Set 12 R | Mixing system R | 0-100% | 0-255 |
| 55 Set 12 G | Mixing system G | 0-100% | 0-255 |
| 56 Set 12 B | Mixing system B | 0-100% | 0-255 |
| 57 Set 12 W | Mixing system W | 0-100% | 0-255 |
| 58 Set 13 R | Mixing system R | 0-100% | 0-255 |
| 59 Set 13 G | Mixing system G | 0-100% | 0-255 |
| 60 Set 13 B | Mixing system B | 0-100% | 0-255 |
| 61 Set 13 W | Mixing system W | 0-100% | 0-255 |
| 62 Set 14 R | Mixing system R | 0-100% | 0-255 |
| 63 Set 14 G | Mixing system G | 0-100% | 0-255 |
| 64 Set 14 B | Mixing system B | 0-100% | 0-255 |
| 65 Set 14 W | Mixing system W | 0-100% | 0-255 |

|             |                 |        |       |
|-------------|-----------------|--------|-------|
| 66 Set 15 R | Mixing system R | 0-100% | 0-255 |
| 67 Set 15 G | Mixing system G | 0-100% | 0-255 |
| 68 Set 15 B | Mixing system B | 0-100% | 0-255 |
| 69 Set 15 W | Mixing system W | 0-100% | 0-255 |
| 70 Set 16 R | Mixing system R | 0-100% | 0-255 |
| 71 Set 16 G | Mixing system G | 0-100% | 0-255 |
| 72 Set 16 B | Mixing system B | 0-100% | 0-255 |
| 73 Set 16 W | Mixing system W | 0-100% | 0-255 |
| 74 Set 17 R | Mixing system R | 0-100% | 0-255 |
| 75 Set 17 G | Mixing system G | 0-100% | 0-255 |
| 76 Set 17 B | Mixing system B | 0-100% | 0-255 |
| 77 Set 17 W | Mixing system W | 0-100% | 0-255 |
| 78 Set 18 R | Mixing system R | 0-100% | 0-255 |
| 79 Set 18 G | Mixing system G | 0-100% | 0-255 |
| 80 Set 18 B | Mixing system B | 0-100% | 0-255 |

|             |                 |        |       |
|-------------|-----------------|--------|-------|
| 81 Set 18 W | Mixing system W | 0-100% | 0-255 |
| 82 Set 19 R | Mixing system R | 0-100% | 0-255 |
| 83 Set 19 G | Mixing system G | 0-100% | 0-255 |
| 84 Set 19 B | Mixing system B | 0-100% | 0-255 |
| 85 Set 19 W | Mixing system W | 0-100% | 0-255 |
| 86 Set 20 R | Mixing system R | 0-100% | 0-255 |
| 87 Set 20 G | Mixing system G | 0-100% | 0-255 |
| 88 Set 20 B | Mixing system B | 0-100% | 0-255 |
| 89 Set 20 W | Mixing system W | 0-100% | 0-255 |

## 5 FIXED EQUIPMENT

Please fasten the fixture clamp before hanging. The clamp can be fasten by the little hole in the middle of the bracket, then tie with a safety belt. The loading capacity of the safety belt should be 10 times than the weight of the fixture itself.

# 6 CONNECTION OF DMX-512 AND CONNETION WITH THE LIGHT EQUIPMENT

Please connect XLR-XLR control wire with every light from the output of DMX.

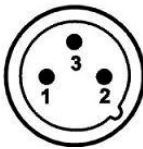
XLR connection :

DMX-OUTPUT



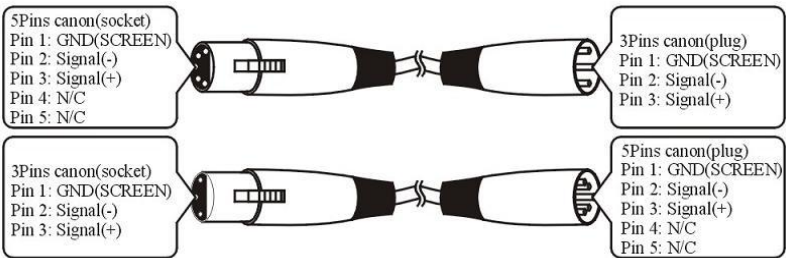
Pin 1: Screen  
Pin 2: Signal -  
Pin 3: Signal +

DMX-INTPUT



Pin 1: Screen  
Pin 2: Signal -  
Pin 3: Signal +

ATTENTION: Please do remember to connect one circle circuit plug on the output signal of last equipment. And this circle circuit plug was connected a 120ohm resistance between terminals 2 and 3 of the CANON plug, connect this circle circuit plug can avoid the signal flash phenomena of signal DMX512 during the transmission.



## 7 Maintenance

| Problems                | Check list  | Trouble Shooting                                       |
|-------------------------|---|--|
| The fixture do not work | 1. If your power as same as the input of the machine.<br>2. If the fuse was broken. | 1. Make sure the voltage.<br>2. Replace the same fuse. |
| LED dimmed              | If your power us same as the input of the machine                                   | Make sure the voltage input.                           |

|                                 |   |   |
|---------------------------------|---|---|
| No DMX input                    | 1. If the polarity is opposed in the DMX controller.<br>2. If it is in DMX mode.<br>3. If there are 2 Master in a loop. | 1. Correct the DMX polarity.<br>2. Change to the DMX mode.<br>3. Set one piece into Slave mode. |
| Par Light Set works abnormality | 1. Check if the serial is correct on the Par Light display  | 1. Set the right serial No on the single Par Light  |

## 8 AFTER SERVICE

1. Our company offer technical consultation to customers for ever.
2. If the machine is wrong and need repairmen, please truthfully fill in the related content and feedback us the problems timely, as well as we have to improve the product.
3. In addition to the lamp, also matching accessories are as follows:  
**accessories:** Power line 1 piece      **Optional parts:** (customers )



## Warranty Card

|      |       |
|------|-------|
| Name | Model |
|------|-------|

|            |          |
|------------|----------|
| Production | Purchase |
|------------|----------|

|               |
|---------------|
| End User      |
| Company Name: |
| Add:          |

|            |       |
|------------|-------|
| Sale Store |       |
| Link man:  |       |
| Tel:       | Stamp |

Description: These must be truthfully fill, seal by the end-user and point-of-sale, or else the warranty will not work (warranty period and terms, see the following)

warranty period: one year since purchase warranty terms: 1、 If fail when using the product in normal state, you can made under the provisions of the warranty, show the warranty card and purchase bills(copy), and enjoy free maintenance service in a specific service center or the manufacturer.

2. The following will be the implementation of paid service:

- (1)Without the effective warranty card
- (2)There's blank, alter and no point-of-sale name
- (3)Fail caused by unresistance
- (4)Fail caused by transportation or unloading
- (5)Fail caused by not operate by manual
- (6)Fail caused by disassemble without unauthorized
- (7)Fail caused by using the unauthorized control system

### Note:

Based on our company continue to improve the product, the statement containing data may have changed, and will not notice the change any more. Company retains its right to change specifications related when product is improved. Thanks for your understanding.