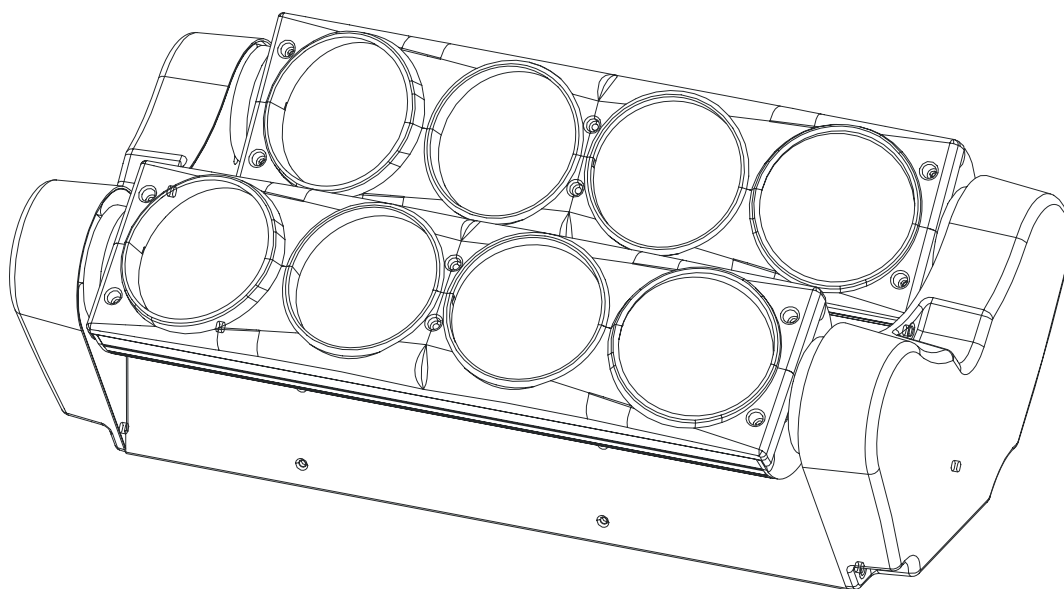




SPIDER FC



LED-FB8FC

User Manual

Please read the instruction carefully before use

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1. Safety Instructions



Please read the instructions carefully which includes important information about the installation, operation and maintenance.

WARNING

- PLEASE keep this User Manual for future consultation. If you sell the fixture to another user, make sure that they also receive this instruction booklet.
- PLEASE unpack and check carefully there is no transportation damage before using the fixture.
- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- PLEASE disconnect main power before servicing and maintenance.
- Maximum ambient temperature is Ta: 40°C. DO NOT operate it where the temperature is higher than this.
- Unit's surface temperature may reach up to 85°C. DO NOT touch the housing bare-handed during its operation.
- In the event of serious operating problem, stop using the fixture immediately. Never try to repair the fixture by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.
- DO NOT connect the device to any dimmer pack.
- DO NOT touch any wire during operation and there might be a hazard of electric shock.
- To prevent or reduce the risk of electrical shock or fire, do not expose the fixture to rain or moisture.
- The housing must be replaced if they are visibly damaged.

Warning

- To prevent or reduce the risk of electrical shock or fire, do not expose the unit to rain or moisture.
- DO NOT open the unit within five minutes after switching off.
- The housing, the lenses, or the ultraviolet filter must be replaced if they are visibly damaged.

Caution:

There are no user serviceable parts inside the unit. DO NOT open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact your nearest dealer.

For 230V 50Hz power supply, maximum fixtures that can be connected together from the same mains outlet is 10;
For 120V 60Hz power supply, maximum fixtures that can be connected together from the same mains outlet is 6;

Installation:

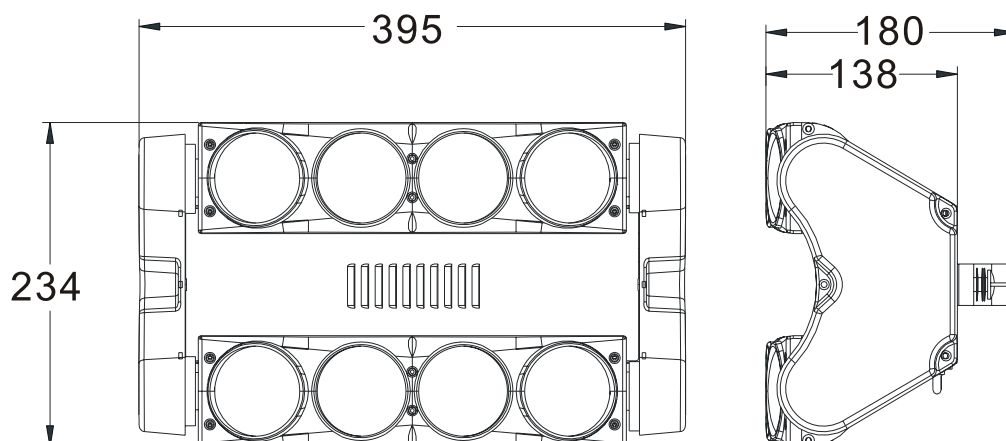
The unit should be mounted via its screw holes on the bracket. Always ensure that the unit is firmly fixed to avoid vibration and slipping while operating. And make sure that the structure to which you are attaching the unit is secure and is able to support a weight of 10 times of the unit's weight. Also always use a safety cable that can hold 12 times of the weight of the unit when installing the fixture.

The equipment must be fixed by professionals. And it must be fixed at a place where is out of the touch of people and has no one pass by or under it.

2. Technical Specifications

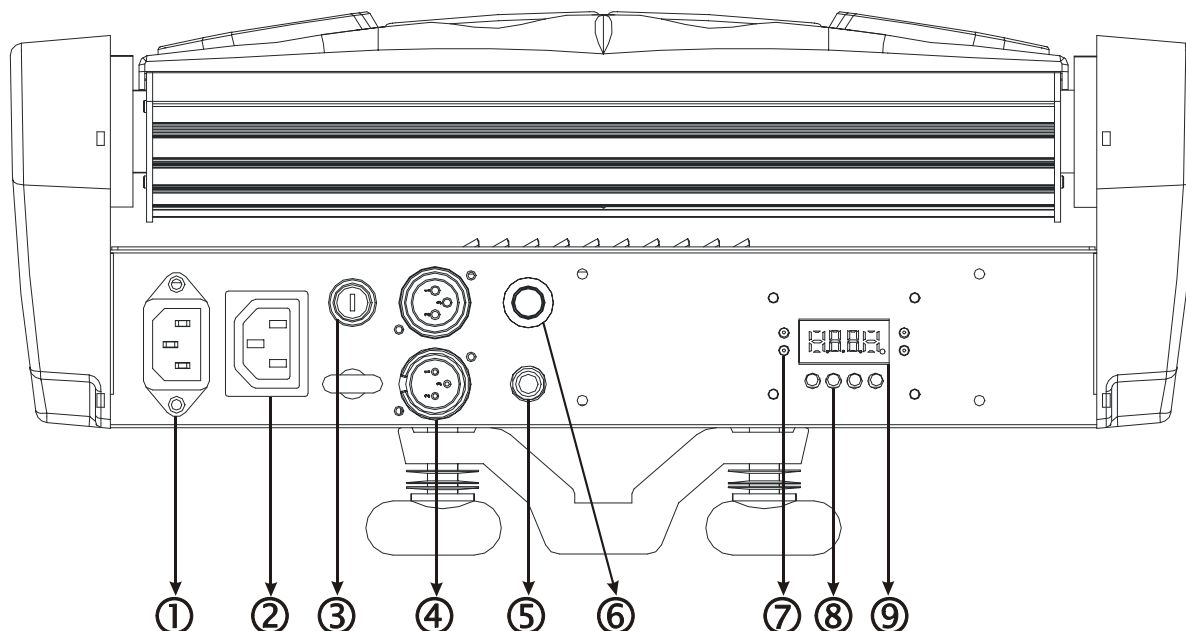
- Spider, an innovative, versatile pixel multi-beam effects, delivering outstanding, sharp and long-throw beams
- Featuring 2 movable LED bars, each with 4 pixel controlled 8W LEDs for the best lighting performance you can ever expect
- 3 Operation Modes: DMX, Master/Slave mode, Sound Activation.
- DMX Channel modes: 1,6,12 and 36 channels
- Optional easy controller CA-8 for instant lighting show.
- Great built-in programs under master/slave operation triggered by music.
- Electronic dimming and various strobe effects.
- Ideal for pubs, clubs, bars, parties, Mobile DJs and more.

- **Power Voltage:** AC 100~240V, 50/60Hz
- **Power Consumption:** 66.5 W
- **LED Sources:** 8 x 8W Quad-color(4 in 1) LEDs
- **Weight:** 5.5kgs
- **Dimension:** 395 x234 x180mm



3. How To Set The Unit

3.1 Rear Panel



1. POWER IN: Used to connect to supply power;

2. POWER OUT: Used to connect to supply power to the next unit;

- 3. Fuse (T 3.15A):** Used to protect the unit from the damage of the over-current;
- 4. DMX IN/OUT:** For DMX512 links, use 3-pin XLR plug cable to link the unit together;
- 5. Only for remote control:** Used to connect to the CA-8 to control the unit for Stand by, Function and Mode function;
- 6. Microphone:** Used to receive music for the sound activation;
- 7. LED:**

DMX	On	DMX input present
MASTER	On	Master Mode
SLAVE	On	Slave Mode
SOUND	Flashing	Sound activation

8. Button:

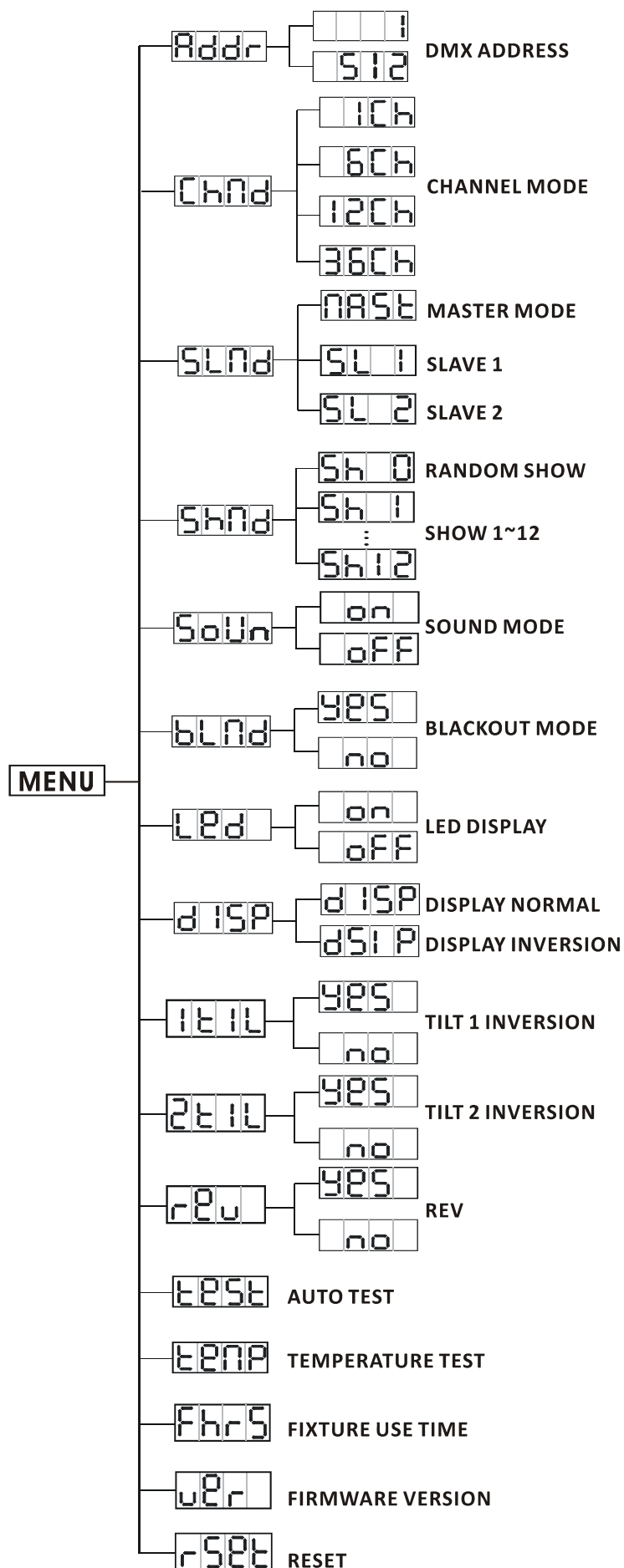
MENU	To select the programming functions
▼ DOWN	To go backward in the selected functions
▲ UP	To go forward in the selected functions
ENTER	To confirm the selected functions

- 9. Function Display:** Used to show the various menus and the selected functions.

3.2 Main Function

To select any functions, press the **MENU** button until the required function is showing on the display. Select the function by pressing the **ENTER** button and the display will blink. Use the **DOWN** and **UP** button to change the mode. Once the required mode has been selected, press the **ENTER** button to setup to go back to the functions without any changes press the **MENU** button again. Hold and press the **MENU** button for one second or wait for one minute to exit the menu mode.

The main functions are shown below:



Addr DMX 512 ADDRESS

To select the **Addr**, press the **ENTER** button to show the **DMX ADDRESS** on the display. Use the **DOWN/UP** button to adjust the address from **1** to **512**. Once the address has been selected, press the **ENTER** button to setup, to go back to the functions without any changes press the **MENU** button again. Hold and press the **MENU** button for one second or wait for one minute to exit the menu mode.

Chnd CHANNEL MODE

To select the **Chnd**, press the **ENTER** button to show the **DMX CHANNEL MODE** on the display. Use the **DOWN/UP** button to select the **1, 6, 12, 36** channel modes. Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any changes press the **MENU** button again. Hold and press the **MENU** button for one second or wait for one minute to exit the menu mode.

SLnd SLAVE MODE

To select the **SLnd**, press the **ENTER** button to show the **SLAVE MODE** on the display. Use the **DOWN/UP** button to select the **MAST** (**MASTER**), **SL 1** (**SLAVE 1**), **SL 2** (**SLAVE 2**) modes. Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any changes press the **MENU** button again. Hold and press the **MENU** button for one second or wait for one minute to exit the menu mode.

Shnd SHOW MODE

To select the **Shnd**, press the **ENTER** button to show the **SHOW MODE** on the display. Use the **DOWN/UP** button to select the **Sh 0** (Random show), **Sh 1** (Show 1) or ... or **Sh 12** (Show 12) mode. Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any changes press the **MENU** button again. Hold and press the **MENU** button for one second or wait for one minute to exit the menu mode.

Soun SOUND MODE

To select the **Soun**, press the **ENTER** button to show the **SOUND MODE** on the display. Use the **DOWN/UP** button to select the **on** (sound on) or **OFF** (sound off) mode. Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any changes press the **MENU** button again. Hold and press the **MENU** button for one second or wait for one minute to exit the menu mode.

blnd BLACKOUT MODE

To select the **blnd**, press the **ENTER** button to show the **BLACKOUT MODE** on the display. Use the **DOWN/UP** button to select the **YES** (blackout) or **no** (normal) mode. Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any changes press the **MENU** button again. Hold and press the **MENU** button for one second or wait for one minute to exit the menu mode.

LED LED DISPLAY

To select the **LED**, press the **ENTER** button to show the **LED DISPLAY** on the display. Use the **DOWN/UP** button to select the **on** (LED on) or **OFF** (LED off) mode. Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any changes press the **MENU** button again. Hold and press the **MENU** button for one second or wait for one minute to exit the menu mode.

disp DISPLAY INVERSE

To select the **disp**, press the **ENTER** button to show the **DISPLAY** on the display. Use the **DOWN/UP** button to select the **disp** (normal) or **DISP** (inversion), press **ENTER** button to setup. Back to the functions without any change press **MENU** button.

1t1L TILT 1 INVERSE

To select the **1t1L**, press the **ENTER** button to show the **TILT 1 INVERSE** on the display. Use the

DOWN/UP button to select the  (tilt 1 inversion) or  (normal) mode. Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any changes press the **MENU** button again. Hold and press the **MENU** button for one second or wait for one minute to exit the menu mode.

TILT 2 INVERSE

To select the , press the **ENTER** button to show the **TILT 2 INVERSE** on the display. Use the **DOWN/UP** button to select the  (tilt 2 inversion) or  (normal) mode. Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any changes press the **MENU** button again. Hold and press the **MENU** button for one second or wait for one minute to exit the menu mode.

REV MODE

To select the , press the **ENTER** button to show the **REV** on the display. Use the **DOWN/UP** button to select the  (the projector lenses will light up right to left) or  (normal, the projector lenses will light up right to left) mode. Once the mode has been selected, press the **ENTER** button to setup, to go back to the functions without any changes press the **MENU** button again. Hold and press the **MENU** button for one second or wait for one minute to exit the menu mode.

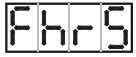
AUTO TEST

To select the , press the **ENTER** button to show the **TEST** on the display and the unit will run a self-test . To go back to the functions without any changes press the **MENU** button again. Hold and press the **MENU** button for one second or wait for one minute to exit the menu mode.

TEMPERATURE

To select the , press the **ENTER** button to show the **TEMPERATURE** on the display and the display will show the temperature of the unit. To go back to the functions without any changes

press the **MENU** button again. Hold and press the **MENU** button for one second or wait for one minute to exit the menu mode.



FIXTURE USE HOURS

To select the , press the **ENTER** button to show the **FIXTURE USE HOURS** on the display and the display will show the number of working hours of the unit . To go back to the functions without any changes press the **MENU** button again. Hold and press the **MENU** button for one second or wait for one minute to exit the menu mode.



SOFTWARE VERSION

To select the , press the **ENTER** button to show the **SOFTWARE VERSION** on the display and the display will show the version of software of the unit . To go back to the functions without any changes press the **MENU** button again. Hold and press the **MENU** button for one second or wait for one minute to exit the menu mode.



RESET

To select the , press the **ENTER** button to show the **RESET** on the display. Press the **ENTER** button and all channels of the unit will return to their standard position.

4. How to Control the Unit

You can operate the unit in three ways:

1. By master/slave built-in preprogram function
2. By easy controller
3. By DMX controller

No need to turn the unit off when you change the DMX address, as new DMX address setting will be affected at once. Each time you turn the unit on, it will show “” on the display. After that the unit will be ready to receive DMX signal or run the built in programs.

4.1 Master/Slave Built In Preprogrammed Function

By linking the units in master/slave connection, the first unit will control the other units to give an automatic, sound activated, synchronized light show. This function is good when you want an instant show. You have to set the first unit in master mode **MRSE** and select **Sh 0**(random show), **Sh 1** (show 1) or ...or **Sh 12** (show 12). Its DMX input jack will have nothing plugged into it, and its master LED will be constantly on and sound LED will flash to the music. The other units will have to select **SL 1** (normal) or **SL 2** (2 light show) mode, Their DMX cables plugged into the DMX input jacks (daisy chain) and the slave LED lights will be constantly on.

2-light show

In slave mode, **MRSE** means the unit works as the master unit and **SL 2** means 2-light show.

In order to create a great light show, you can set **SL 2** on the second unit to get contrast movement to each other, even if you have two units only.

4.2 Easy Controller

The easy remote control is used only in master/slave mode. By connecting to the 1/4" microphone jack of the first unit, you will find that the remote controller on the first unit will control all the other units for Stand by, Function and Mode selection.



Blackout	Blackout the unit	
Function	1. Sound Strobe (Full On) 2. Auto Strobe (Full On)	Select Show Show 1-12
Mode	Random Show (LED OFF)	Show (LED ON)

4.3 DMX Controller

Using a universal DMX controller to control the units, you have to set DMX address from 1 to 512 channel so that the units can receive DMX signal.

Press the **MENU** button up to when the **Addr** is showing on the display. Press **ENTER** button and

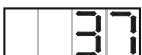
the display will blink. Use **DOWN** and **UP** button to change the DMX512 address. Once the address has been selected, press and keep **ENTER** button pressed up to when the display stops blinking or storing automatically 7 seconds later. To go back to the functions without any change press the **MENU** button again.

Please refer to the following diagram to address your DMX512 channel for the first 4 units.

1 CHANNEL MODE:    

6 CHANNEL MODE:    

12 CHANNEL MODE:    

36 CHANNEL MODE:    

5. DMX512 Configuration

1/6 Channels Mode:

1 Channel Mode		6 Channel Mode				
Ch 1	Ch 1	Ch2	Ch3	Ch4	Ch5	Ch6
SHOW	TILT1 MOVEMENT	TILT2 MOVEMENT	MASTER DIMMER	STROBE	CHASE	CHASE SPEED
248-255 Random Show	255 150°	255 150°	255 100%	248-255 Open	248-255 Full On	255 Fast
228-247 Show 12				240-247 Strobe by sound	233-247 Chase 16	
208-227 Show 11				232-239 Open	218-232 Chase 15	
188-207 Show 10				190-231 Fast open Slow close	203-217 Chase 14	
168-187 Show 9				182-189 Open	188-202 Chase 13	
148-167 Show 8				140-181 Slow open Fast close	173-187 Chase 12	
128-147 Show 7				132-139 Open	158-172 Chase 11	
108-127 Show 6				008-131 ⚡⚡⚡	143-157 Chase10	
088-107 Show 5				000-007 Open	128-142 Chase 9	
068-087 Show 4					113-127 Chase 8	
048-067 Show 3					098-112 Chase 7	
028-047 Show 2					083-097 Chase 6	
008-027 Show 1					068-082 Chase 5	
000-007 Blackout	0 60°	0 60°	0 0%		053-067 Chase 4	
					038-052 Chase 3	
					023-037 Chase 2	
					008-022 Chase 1	
					000-007 Blackout	0 Slow

12 Channels Mode:

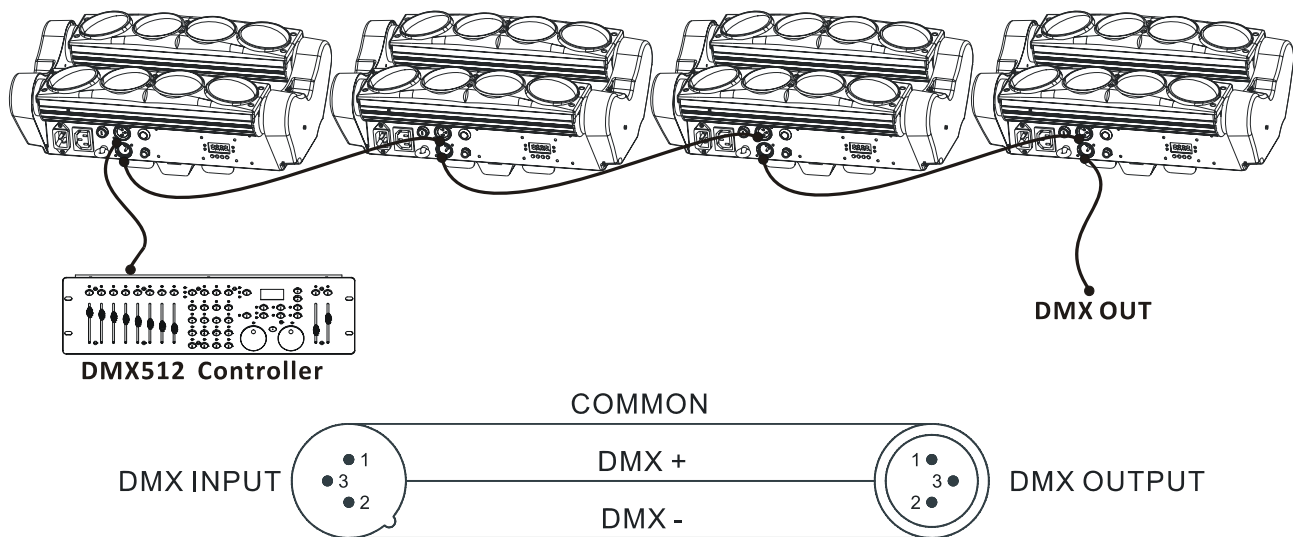
12 Channel Mode					
Ch 1	Ch2	Ch3	Ch4	Ch5	Ch6
TILT1 MOVEMENT	TILT2 MOVEMENT	MASTER DIMMER	STROBE	COLOR LED1	COLOR LED2
255 150° 0 60°	255 150° 0 60°	255 100% 0 0%	248-255 240-247 232-239 190-231 182-189 140-181 132-139 008-131 000-007 Open Strobe by sound Open Fast open Slow close Open Slow open Fast close Open ⚡⚡⚡ ⚡⚡ ⚡ Open	248-255 Color change by sound 128-247 Color change slow to fast 120-127 R + G + B + W 112-119 G + B + W 104-111 R + B + W 096-103 R + G + W 088-095 R + G + B 080-087 B + W 072-079 G + W 064-071 G + B 056-063 R + W 048-055 R + B 040-047 R + G 032-039 W (White) 024-031 B (Blue) 016-023 G (Green) 008-015 R (Red) 000-007 All Off	248-255 Color change by sound 128-247 Color change slow to fast 120-127 R + G + B + W 112-119 G + B + W 104-111 R + B + W 096-103 R + G + W 088-095 R + G + B 080-087 B + W 072-079 G + W 064-071 G + B 056-063 R + W 048-055 R + B 040-047 R + G 032-039 W (White) 024-031 B (Blue) 016-023 G (Green) 008-015 R (Red) 000-007 All Off
Ch 7	Ch8	Ch9	Ch10	Ch11	Ch12
COLOR LED3	COLOR LED4	COLOR LED5	COLOR LED6	COLOR LED7	COLOR LED8
248-255 Color change by sound 128-247 Color change slow to fast 120-127 R + G + B + W 112-119 G + B + W 104-111 R + B + W 096-103 R + G + W 088-095 R + G + B 080-087 B + W 072-079 G + W 064-071 G + B 056-063 R + W 048-055 R + B 040-047 R + G 032-039 W (White) 024-031 B (Blue) 016-023 G (Green) 008-015 R (Red) 000-007 All Off	248-255 Color change by sound 128-247 Color change slow to fast 120-127 R + G + B + W 112-119 G + B + W 104-111 R + B + W 096-103 R + G + W 088-095 R + G + B 080-087 B + W 072-079 G + W 064-071 G + B 056-063 R + W 048-055 R + B 040-047 R + G 032-039 W (White) 024-031 B (Blue) 016-023 G (Green) 008-015 R (Red) 000-007 All Off	248-255 Color change by sound 128-247 Color change slow to fast 120-127 R + G + B + W 112-119 G + B + W 104-111 R + B + W 096-103 R + G + W 088-095 R + G + B 080-087 B + W 072-079 G + W 064-071 G + B 056-063 R + W 048-055 R + B 040-047 R + G 032-039 W (White) 024-031 B (Blue) 016-023 G (Green) 008-015 R (Red) 000-007 All Off	248-255 Color change by sound 128-247 Color change slow to fast 120-127 R + G + B + W 112-119 G + B + W 104-111 R + B + W 096-103 R + G + W 088-095 R + G + B 080-087 B + W 072-079 G + W 064-071 G + B 056-063 R + W 048-055 R + B 040-047 R + G 032-039 W (White) 024-031 B (Blue) 016-023 G (Green) 008-015 R (Red) 000-007 All Off	248-255 Color change by sound 128-247 Color change slow to fast 120-127 R + G + B + W 112-119 G + B + W 104-111 R + B + W 096-103 R + G + W 088-095 R + G + B 080-087 B + W 072-079 G + W 064-071 G + B 056-063 R + W 048-055 R + B 040-047 R + G 032-039 W (White) 024-031 B (Blue) 016-023 G (Green) 008-015 R (Red) 000-007 All Off	248-255 Color change by sound 128-247 Color change slow to fast 120-127 R + G + B + W 112-119 G + B + W 104-111 R + B + W 096-103 R + G + W 088-095 R + G + B 080-087 B + W 072-079 G + W 064-071 G + B 056-063 R + W 048-055 R + B 040-047 R + G 032-039 W (White) 024-031 B (Blue) 016-023 G (Green) 008-015 R (Red) 000-007 All Off

36 Channels Mode:

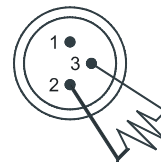
36 Channels Mode (1)					
Ch1	Ch2	Ch3	Ch4	Ch5	
TILT1 MOVEMENT	TILT2 MOVEMENT	MASTER DIMMER	STROBE	RED LED 1	
			248-255 Open 240-247 Strobe by sound 232-239 Open 190-231 Fast open Slow close 182-189 Open 140-181 Slow open Fast close 132-139 Open 008-131 ⚡⚡⚡⚡ 000-007 ⚡⚡ 000-007 ⚡ 000-007 Open		
Ch6	Ch7	Ch8	Ch9	Ch10	Ch11
GREEN LED 1	BLUE LED 1	WHITE LED 1	RED LED 2	GREEN LED 2	BLUE LED 2

36 Channels Mode (2)					
Ch12	Ch13	Ch14	Ch15	Ch16	...
WHITE LED 2	RED LED 3	GREEN LED 3	BLUE LED 3	WHITE LED 3	...
255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	...
...	Ch32	Ch33	Ch34	Ch35	Ch36
...	WHITE LED 7	RED LED 8	GREEN LED 8	BLUE LED 8	WHITE LED 8
...	255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	255 100% 0 0%	255 100% 0 0%

6. DMX Connection



Termination reduces signal errors and to avoid signal transmission problems and interference. It is always advisable to connect a DMX terminal.
(Resistance 120 ohm 1/4W) between pin2(DMX-) and pin3(DMX+) of the last fixture.



1. Connect the fixture together in a “daisy chain” by XLR plug cable from the output of the fixture to the input of the next fixture. The cable cannot be branched or split to a “Y” cable. Inadequate or damaged cables, soldered joints or corroded connectors can easily distort the signal and shut down the system
2. The DMX output and input connectors are pass-through to maintain the DMX circuit when one of the units’ power is disconnected.
3. At last fixture, the DMX cable has to be terminated with a terminator to reduce signal errors. Solder a 120-ohm 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-output of the last fixture.
4. Each lighting fixture needs to have an address set to receive the data sent by the controller. The address number is between 0-511 (usually 0 & 1 are equal to 1).
5. 3 pin XLR connectors are more popular than 5 pins XLR.
3 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)

7. Troubleshooting

Following are a few common problems that may occur during operation. Here are some suggestions for easy troubleshooting:

A. The fixture does not work, no light

1. Check the connection of power and main fuse.
2. Measure the mains voltage on the main connector.

B. Not responding to DMX controller

1. DMX LED should be on. If not, check DMX connectors, cables to see if link properly.
2. If the DMX LED is on and no response to the channel, check the address settings and DMX polarity.
3. If you have intermittent DMX signal problems, check the pins on connectors or on PCB of the fixture or the previous one.
4. Try to use another DMX controller.
5. Check if the DMX cables run near or run alongside to high voltage cables that may cause damage or interference to DMX interface circuit.

C. Some fixtures don't respond to the easy controller

1. You may have a break in the DMX cabling.
2. Check the LED for the response of the master/ slave mode signal.

D. No response to the sound

1. Make sure the fixture does not receive DMX signal.
2. Check microphone to see if it is good by tapping the microphone.

E. One of the channels is not working well

1. The stepper motor might be damaged or the cable connected to the PCB is broken.
2. The motor's drive IC on the PCB might be out of condition.

8. Fixture Cleaning

The cleaning must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: moist, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the fixture.

- Clean with soft cloth using normal glass cleaning fluid.
- Always dry the parts carefully.
- Clean the external optics at least every 30 days.

Declaration of Conformity

We declare that our products (lighting equipments) comply with the following specification and bears CE mark in accordance with the provision of the Electromagnetic Compatibility (EMC) Directive 89/336/EEC.

EN55103-1: 2009 ; EN55103-2: 2009; EN62471: 2008;
EN61000-3-2: 2006 + A1:2009 + A2:2009; EN61000-3-3: 2008.

&

Harmonized Standard

EN 60598-1:2008 + All:2009; EN 60598-2-17:1989 + A2:1991; EN 62471:2008; EN 62493: 2010

Safety of household and similar electrical appliances
Part 1: General requirements

Innovation, Quality, Performance