

LED ZOOM MOVING HEAD

19*15w 4in1 LED



User Manual

Professional Entertainment Technology

TABLE OF CONTENTS

1. Safety Instructions	2
2. Technical Specifications	3
3. How To Set The Unit	4
3.1 Control panel	4
3.2 Main Function	5
4. Menu Operation	5
5. DMX Channel	6
6. Troubleshooting	14
7. Fixture Cleaning	14

1. Safety Instructions



WARNING

Please read carefully the instruction, which includes important information about the installation, usage and maintenance.

- Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.
- Unpack and check carefully there is no transportation damage before using the unit.
- Before operating, ensure that the voltage and frequency of power supply match the power requirements of the unit.
- It's important to ground the yellow/green conductor to earth in order to avoid electric shock.
- The unit is for indoor use only. Use only in a dry location.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces. Be sure that no ventilation slots are blocked.
- Disconnect main power before replacement or servicing.
- Make sure there are no flammable materials close to the unit while operating as it is fire hazard.
- Use safety cable when fixes this unit. DO NOT handle the unit by taking its head only, but always by taking its base.
- Maximum ambient temperature is $T_a: 40^{\circ}\text{C}$. DO NOT operate it where the temperature is higher than this.
- Unit surface temperature may reach up to 85°C . DO NOT touch the housing bare-hand during its operation. Turn off the power and allow about 15 minutes for the unit to cool down before replacing or serving.
- In the event of serious operating problem, stop using the unit immediately. Never try to repair the unit 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 touch any wire during operation as high voltage might be causing electric shock.

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.

If using a 230V 50Hz power supply, DO NOT connect in series more than 11 units; use another main supply for the next 11 fixtures.
If using a 120V 60Hz power supply, DO NOT connect in series more than 5 units; use another main supply for the next 5 fixtures.

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

- ◇ Extremely small, fast and powerful LED moving beam.
- ◇ DMX Channels:12/17/25/53/89 channels mode
- ◇ Operation modes: DMX512, Master/Slave
- ◇ Great built-in lighting shows under Master/Slave mode
- ◇ Blue LCD display for easy navigation
- ◇ Perfect for stage, theatre, TV studio, rental and discotheques

DMX input:

For DMX512 link, use 3-pin XLR cable to link the unit together.

DMX output:

For DMX512 link, use 3-pin XLR cable to link the unit together.

Mains input:

Connect to power supply.

Mains output:

Connect to supply power to the next unit.

Fuse(T 6.3A):

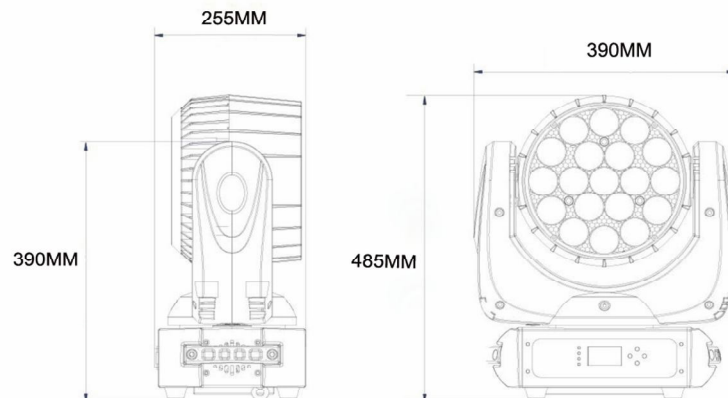
Protect the unit from damage of the over-current.

3.2 Main Function

To select any of the given functions, press the **MENU** button up to when the required one is showing on the display. Select the function by **ENTER** button and the display will blink. Use **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 change press the **MENU** button again. Hold and press the **MENU** button about one second or wait for one minute to exit the menu mode.

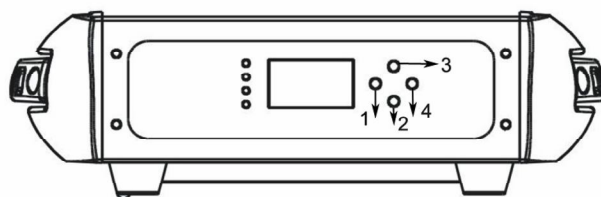
The main functions are showing below:

Voltage: AC 100V~240V, 50/60Hz
Power consumption: 300W
LED: 19 X 15W RGBW 4 in 1 LED
Dimension: 390 X 255 X 485MM
Weight: 9.2Kgs
Beam Angel: 10°~60°



3. How To Set The Unit

3.1 Control panel



- 1 Menu
- 2 DOWN
- 3 UP
- 4 ENTER

Display:

To show the various menus and the selected functions

LED:

POWER	ON	Power On
NULL		No function
NULL		No function
DMX	ON	DMX input present

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

4. Menu Operation

1	DMX-Channel		Press Up/Down to choose Channel
	12CH/17CH/25CH/53CH/89CH		
2	DMX-Add setting		Press Up/Down to change address
	1		
3	LIGHT-TEST	RED-ADJ	Press Up/Down to ADJ RED， Press Enter to save.
		255	
		GREEN-ADJ	Press Up/Down to ADJ Green
		255	
		BLUE-ADJ	Press Up/Down to ADJ Blue， Press Enter to save
		255	
		WHITE-ADJ	Press Up/Down to ADJ White
		255	
4	CHANNEL-TEST		Press Up/Down to plus/minus Channel value。
5	PROGRAM		Press Up/Down to choose program
	1		
6	SPEED		Press Up/Down to choose program speed
	16		
7	TEST		Press Up/Down for sound/auto control
8	LIGHT MODE		Press Up/Down to choose dimming mode
9	X-Motor		Press Up/Down to choose Pan movement
10	Y-Motor		Press Up/Down to choose Tilt movement
11	RESET		Press enter for reset
12	LANGUAGE		Chinese/English

5. DMX Channel

DMX 12 Channels			
Channel	Function	Value	Function
CH1	Pan	0-255	0-255 run clockwise, 255-0 run anti-clockwise
CH2	Tilt	0-255	0-255 run clockwise, 255-0 run anti-clockwise
CH3	Fous	0-255	0-255 run clockwise, 255-0 run anti-clockwise
CH4	Effect Wheel	0-64	Effect wheel location
		65-127	Effect wheel run clockwise from slow to fast
		128-192	Effect wheel run anti-clockwise from slow to fast
		193-255	Effect wheel run limitless , from slow to fast
CH5	Pan/Tilt Speed	0-255	0-255 from fast to slow, 0 is fastest
CH6	General dimmer	0-255	R、G、B、W General dimmer, linear dimmer, From dark-bright
CH7	General strobe	0-255	R、G、B、W General strobe, From slow to fast
CH8	R-dimmer	0-255	R-dimmer, linear dimmer, From dark-bright
CH9	G-dimmer	0-255	G-dimmer, linear dimmer, From dark-bright
CH10	B-dimmer	0-255	B-dimmer, linear dimmer, From dark-bright
CH11	W-dimmer	0-255	W-dimmer, linear dimmer, From dark-bright
CH12	Reset	0-192	no-functionn(Reset Run after DMX value keep unchanged for 10 seconds)
		193-255	

DMX 17 Channels

Channel	Function	Value	Function
CH1	Pan	0-255	0-255 run clockwise, 255-0 run anti-clockwise
CH2	Tilt	0-255	0-255 run clockwise, 255-0 run anti-clockwise
CH3	Fous	0-255	0-255 run clockwise, 255-0 run anti-clockwise
CH4	Effect Wheel	0-64	Effect wheel location
		65-127	Effect wheel run clockwise from slow to fast
		128-192	Effect wheel run anti-clockwise from slow to fast
		193-255	Effect wheel run limitless , from slow to fast
CH5	Pan/Tilt Speed	0-255	0-255 from fast to slow, 0 is fastest
CH6	General dimmer	0-255	R、G、B、W General dimmer, linear dimmer, From dark-bright
CH7	General strobe	0-255	R、G、B、W General strobe, From slow to fast
CH8	R-dimmer	0-255	R-dimmer, linear dimmer, From dark-bright
CH9	G-dimmer	0-255	G-dimmer, linear dimmer, From dark-bright

CH10	B-dimmer	0-255	B-dimmer, linear dimmer, From dark-bright
CH11	W-dimmer	0-255	W-dimmer, linear dimmer, From dark-bright
CH12	Colour	0-255	Colour combination
CH13	Program	0-75	CH1-CH12 Work
		76-255	When DMX Value is than 60,Each program for DMX value increased by 10
CH14	Program speed		0-255 from fast to slow, 0 is fastest
CH15	Pan fine		0-255 run clockwise, 255-0 run anti-clockwise
CH16	Tilt fine		0-255 run clockwise, 255-0 run anti-clockwise
CH17	Rest, Auto and Sound	0-64	no-functionn(Reset Run after DMX value keep unchanged for 10 seconds)
		65-128	Auto
		129-192	Sound
		193-255	Reset

DMX 25 Channels

Channel	Function	Value	Function
CH1	Pan	0-255	0-255 run clockwise, 255-0 run anti-clockwise
CH2	Tilt	0-255	0-255 run clockwise, 255-0 run anti-clockwise
CH3	Fous	0-255	0-255 run clockwise, 255-0 run anti-clockwise
CH4	Effect Wheel	0-64	Effect wheel location
		65-127	Effect wheel run clockwise from slow to fast
		128-192	Effect wheel run anti-clockwise from slow to fast
		193-255	Effect wheel run limitless , from slow to fast
CH5	Pan/Tilt Speed	0-255	0-255 from fast to slow, 0 is fastest
CH6	General dimmer	0-255	R、G、B、W General dimmer, linear dimmer, From dark-bright
CH7	General strobe	0-255	R、G、B、W General strobe, From slow to fast
CH8	R1-dimmer	0-255	R1-dimmer, linear dimmer, From dark-bright
CH9	G1 dimmer	0-255	G1-dimmer, linear dimmer, From dark-bright
CH10	B1 dimmer	0-255	B1-dimmer, linear dimmer, From dark-bright
CH11	W1 dimmer	0-255	W1-dimmer, linear dimmer, From dark-bright
CH12	R2 dimmer	0-255	R2-dimmer, linear dimmer, From dark-bright
CH13	G2 dimmer	0-255	G2-dimmer, linear dimmer, From dark-bright
CH14	B2 dimmer	0-255	B2-dimmer, linear dimmer, From dark-bright
CH15	W2 dimmer	0-255	W2-dimmer, linear dimmer, From dark-bright
CH16	R3 dimmer	0-255	R3 -dimmer, linear dimmer, From dark-bright
CH17	G3 dimmer	0-255	G3-dimmer, linear dimmer, From dark-bright
CH18	B3 dimmer	0-255	B3-dimmer, linear dimmer, From dark-bright
CH19	W3 dimmer	0-255	W3-dimmer, linear dimmer, From dark-bright
CH20	Colour	0-255	Colour combination
CH21	Program	0-75	CH1-CH20 Work (0-75)
		76-255	When DMX Value is than 60,Each program for DMX value increased by 10

CH22	Program speed		0-255 from fast to slow, 0 is fastest
CH23	Pan fine		0-255 run clockwise, 255-0 run anti-clockwise
CH24	Tilt fine		0-255 run clockwise, 255-0 run anti-clockwise
CH25	Rest, Auto and Sound	0-64	no-functionn(Reset Run after DMX value keep unchanged for 10 seconds)
		65-128	Auto
		129-192	Sound
		193-255	Reset
DMX 53 Channels			
Channel	Function	Value	Function
CH1	Pan	0-255	0-255 run clockwise, 255-0 run anti-clockwise
CH2	Tilt	0-255	0-255 run clockwise, 255-0 run anti-clockwise
CH3	Fous	0-255	0-255 run clockwise, 255-0 run anti-clockwise
CH4	Effect Wheel	0-64	Effect wheel location
		65-127	Effect wheel run clockwise from slow to fast
		128-192	Effect wheel run anti-clockwise from slow to fast
		193-255	Effect wheel run limitless , from slow to fast
CH5	Pan/Tilt Speed	0-255	0-255 from fast to slow, 0 is fastest
CH6	General dimmer	0-255	R、G、B、W General dimmer, linear dimmer, From dark-bright
CH7	General strobe	0-255	R、G、B、W General strobe, From slow to fast
CH8	R1-dimmer	0-255	R1-dimmer, linear dimmer, From dark-bright
CH9	G1 dimmer	0-255	G1-dimmer, linear dimmer, From dark-bright
CH10	B1 dimmer	0-255	B1-dimmer, linear dimmer, From dark-bright
CH11	W1 dimmer	0-255	W1-dimmer, linear dimmer, From dark-bright
CH12	R23 dimmer	0-255	R23-dimmer, linear dimmer, From dark-bright
CH13	G23 dimmer	0-255	G23-dimmer, linear dimmer, From dark-bright
CH14	B23 dimmer	0-255	B23-dimmer, linear dimmer, From dark-bright
CH15	W23 dimmer	0-255	W23-dimmer, linear dimmer, From dark-bright
CH16	R45 dimmer	0-255	R45-dimmer, linear dimmer, From dark-bright
CH17	G45 dimmer	0-255	G45-dimmer, linear dimmer, From dark-bright
CH18	B45 dimmer	0-255	B45-dimmer, linear dimmer, From dark-bright
CH19	W45 dimmer	0-255	W45-dimmer, linear dimmer, From dark-bright
CH20	R67 dimmer	0-255	R67-dimmer, linear dimmer, From dark-bright
CH21	G67 dimmer	0-255	G67-dimmer, linear dimmer, From dark-bright
CH22	B67 dimmer	0-255	B67-dimmer, linear dimmer, From dark-bright
CH23	W67 dimmer	0-255	W67-dimmer, linear dimmer, From dark-bright
CH24	R89 dimmer	0-255	R89-dimmer, linear dimmer, From dark-bright
CH25	G89 dimmer	0-255	G89-dimmer, linear dimmer, From dark-bright
CH26	B89 dimmer	0-255	B89-dimmer, linear dimmer, From dark-bright
CH27	W89 dimmer	0-255	W89-dimmer, linear dimmer, From dark-bright
CH28	R1011 dimmer	0-255	R1011-dimmer, linear dimmer, From dark-bright
CH29	G1011 dimmer	0-255	G1011-dimmer, linear dimmer, From dark-bright
CH30	B1011 dimmer	0-255	B1011-dimmer, linear dimmer, From dark-bright

CH31	W1011 dimmer	0-255	W1011-dimmer, linear dimmer, From dark-bright
CH32	R1213 dimmer	0-255	R1213-dimmer, linear dimmer, From dark-bright
CH33	G1213 dimmer	0-255	G1213-dimmer, linear dimmer, From dark-bright
CH34	B1213 dimmer	0-255	B1213-dimmer, linear dimmer, From dark-bright
CH35	W1213 dimmer	0-255	W1213-dimmer, linear dimmer, From dark-bright
CH36	R1415 dimmer	0-255	R1415-dimmer, linear dimmer, From dark-bright
CH37	G1415 dimmer	0-255	G1415-dimmer, linear dimmer, From dark-bright
CH38	B1415 dimmer	0-255	B1415-dimmer, linear dimmer, From dark-bright
CH39	W1415 dimmer	0-255	W1415-dimmer, linear dimmer, From dark-bright
CH40	R1617 dimmer	0-255	R1617-dimmer, linear dimmer, From dark-bright
CH41	G1617 dimmer	0-255	G1617-dimmer, linear dimmer, From dark-bright
CH42	B1617 dimmer	0-255	B1617-dimmer, linear dimmer, From dark-bright
CH43	W1617 dimmer	0-255	W1617-dimmer, linear dimmer, From dark-bright
CH44	R1819 dimmer	0-255	R1819-dimmer, linear dimmer, From dark-bright
CH45	G1819 dimmer	0-255	G1819-dimmer, linear dimmer, From dark-bright
CH46	B1819 dimmer	0-255	B1819-dimmer, linear dimmer, From dark-bright
CH47	W1819 dimmer	0-255	W1819-dimmer, linear dimmer, From dark-bright
CH48	Colour	0-255	Colour combination
CH49	Program	0-75	CH1-CH48 Work
		76-255	When DMX Value is than 60,Each program for DMX value increased by 10
CH50	Program speed	0-255	0-255 from fast to slow, 0 is fastest
CH51	Pan fine	0-255	0-255 run clockwise, 255-0 run anti-clockwise
CH52	Tilt fine	0-255	0-255 run clockwise, 255-0 run anti-clockwise
CH53	Rest, Auto and Sound	0-64	no-functionn(Reset Run after DMX value keep unchanged for 10 seconds)
		65-128	Auto
		129-192	Sound
		193-255	Reset

DMX 89 Channels

Channel	Function	Value	Function
CH1	Pan	0-255	0-255 run clockwise, 255-0 run anti-clockwise
CH2	Tilt	0-255	0-255 run clockwise, 255-0 run anti-clockwise
CH3	Fous	0-255	0-255 run clockwise, 255-0 run anti-clockwise
CH4	Effect Wheel	0-64	Effect wheel location
		65-127	Effect wheel run clockwise from slow to fast
		128-192	Effect wheel run anti-clockwise from slow to fast
		193-255	Effect wheel run limitless , from slow to fast
CH5	Pan/Tilt Speed	0-255	0-255 from fast to slow, 0 is fastest
CH6	General dimmer	0-255	R、G、B、W General dimmer, linear dimmer, From dark-bright
CH7	General strobe	0-255	R、G、B、W General strobe, From slow to fast
CH8	R1-dimmer	0-255	R1-dimmer, linear dimmer, From dark-bright
CH9	G1 dimmer	0-255	G1-dimmer, linear dimmer, From dark-bright
CH10	B1 dimmer	0-255	B1-dimmer, linear dimmer, From dark-bright

CH11	W1 dimmer	0-255	W1-dimmer, linear dimmer, From dark-bright
CH12	R2 dimmer	0-255	R2 -dimmer, linear dimmer, From dark-bright
CH13	G2 dimmer	0-255	G2 -dimmer, linear dimmer, From dark-bright
CH14	B2 dimmer	0-255	B2 -dimmer, linear dimmer, From dark-bright
CH15	W2 dimmer	0-255	W2 -dimmer, linear dimmer, From dark-bright
CH16	R3 dimmer	0-255	R3 -dimmer, linear dimmer, From dark-bright
CH17	G3 dimmer	0-255	G3 -dimmer, linear dimmer, From dark-bright
CH18	B3 dimmer	0-255	B3 -dimmer, linear dimmer, From dark-bright
CH19	W3 dimmer	0-255	W3 -dimmer, linear dimmer, From dark-bright
CH20	R4 dimmer	0-255	R4 -dimmer, linear dimmer, From dark-bright
CH21	G4 dimmer	0-255	G4 -dimmer, linear dimmer, From dark-bright
CH22	B4 dimmer	0-255	B4 -dimmer, linear dimmer, From dark-bright
CH23	W4 dimmer	0-255	W4 -dimmer, linear dimmer, From dark-bright
CH24	R5 dimmer	0-255	R5 -dimmer, linear dimmer, From dark-bright
CH25	G5 dimmer	0-255	G5 -dimmer, linear dimmer, From dark-bright
CH26	B5 dimmer	0-255	B5 -dimmer, linear dimmer, From dark-bright
CH27	W5 dimmer	0-255	W5 -dimmer, linear dimmer, From dark-bright
CH28	R6 dimmer	0-255	R6 -dimmer, linear dimmer, From dark-bright
CH29	G6 dimmer	0-255	G6 -dimmer, linear dimmer, From dark-bright
CH30	B6 dimmer	0-255	B6 -dimmer, linear dimmer, From dark-bright
CH31	W6 dimmer	0-255	W6 -dimmer, linear dimmer, From dark-bright
CH32	R7 dimmer	0-255	R7 -dimmer, linear dimmer, From dark-bright
CH33	G7 dimmer	0-255	G7 -dimmer, linear dimmer, From dark-bright
CH34	B7 dimmer	0-255	B7 -dimmer, linear dimmer, From dark-bright
CH35	W7 dimmer	0-255	W7 -dimmer, linear dimmer, From dark-bright
CH36	R8 dimmer	0-255	R8 -dimmer, linear dimmer, From dark-bright
CH37	G8 dimmer	0-255	G8 -dimmer, linear dimmer, From dark-bright
CH38	B8 dimmer	0-255	B8 -dimmer, linear dimmer, From dark-bright
CH39	W8 dimmer	0-255	W8 -dimmer, linear dimmer, From dark-bright
CH40	R9 dimmer	0-255	R9 -dimmer, linear dimmer, From dark-bright
CH41	G9 dimmer	0-255	G9 -dimmer, linear dimmer, From dark-bright
CH42	B9 dimmer	0-255	B9 -dimmer, linear dimmer, From dark-bright
CH43	W9 dimmer	0-255	W9 -dimmer, linear dimmer, From dark-bright
CH44	R10 dimmer	0-255	R10 -dimmer, linear dimmer, From dark-bright
CH45	G10 dimmer	0-255	G10 -dimmer, linear dimmer, From dark-bright
CH46	B10 dimmer	0-255	B10 -dimmer, linear dimmer, From dark-bright
CH47	W10 dimmer	0-255	W10 -dimmer, linear dimmer, From dark-bright
CH48	R11 dimmer	0-255	R11 -dimmer, linear dimmer, From dark-bright
CH49	G11 dimmer	0-255	G11 -dimmer, linear dimmer, From dark-bright
CH50	B11 dimmer	0-255	B11 -dimmer, linear dimmer, From dark-bright
CH51	W11 dimmer	0-255	W11 -dimmer, linear dimmer, From dark-bright
CH52	R12 dimmer	0-255	R12 -dimmer, linear dimmer, From dark-bright

CH53	G12 dimmer	0-255	G12 -dimmer, linear dimmer, From dark-bright
CH54	B12 dimmer	0-255	B12 -dimmer, linear dimmer, From dark-bright
CH55	W12 dimmer	0-255	W12 -dimmer, linear dimmer, From dark-bright
CH56	R13 dimmer	0-255	R13 -dimmer, linear dimmer, From dark-bright
CH57	G13 dimmer	0-255	G13 -dimmer, linear dimmer, From dark-bright
CH58	B13 dimmer	0-255	B13 -dimmer, linear dimmer, From dark-bright
CH59	W13 dimmer	0-255	W13 -dimmer, linear dimmer, From dark-bright
CH60	R14 dimmer	0-255	R14 -dimmer, linear dimmer, From dark-bright
CH61	G14 dimmer	0-255	G14 -dimmer, linear dimmer, From dark-bright
CH62	B14 dimmer	0-255	B14 -dimmer, linear dimmer, From dark-bright
CH63	W14 dimmer	0-255	W14 -dimmer, linear dimmer, From dark-bright
CH64	R15 dimmer	0-255	R15 -dimmer, linear dimmer, From dark-bright
CH65	G15 dimmer	0-255	G15 -dimmer, linear dimmer, From dark-bright
CH66	B15 dimmer	0-255	B15 -dimmer, linear dimmer, From dark-bright
CH67	W15 dimmer	0-255	W15 -dimmer, linear dimmer, From dark-bright
CH68	R16 dimmer	0-255	R16 -dimmer, linear dimmer, From dark-bright
CH69	G16 dimmer	0-255	G16 -dimmer, linear dimmer, From dark-bright
CH70	B16 dimmer	0-255	B16 -dimmer, linear dimmer, From dark-bright
CH71	W16 dimmer	0-255	W16 -dimmer, linear dimmer, From dark-bright
CH72	R17 dimmer	0-255	R17 -dimmer, linear dimmer, From dark-bright
CH73	G17 dimmer	0-255	G17 -dimmer, linear dimmer, From dark-bright
CH74	B17 dimmer	0-255	B17 -dimmer, linear dimmer, From dark-bright
CH75	W17 dimmer	0-255	W17 -dimmer, linear dimmer, From dark-bright
CH76	R18 dimmer	0-255	R18 -dimmer, linear dimmer, From dark-bright
CH77	G18 dimmer	0-255	G18 -dimmer, linear dimmer, From dark-bright
CH78	B18 dimmer	0-255	B18 -dimmer, linear dimmer, From dark-bright
CH79	W18 dimmer	0-255	W18 -dimmer, linear dimmer, From dark-bright
CH80	R19 dimmer	0-255	R19 -dimmer, linear dimmer, From dark-bright
CH81	G19 dimmer	0-255	G19 -dimmer, linear dimmer, From dark-bright
CH82	B19 dimmer	0-255	B19 -dimmer, linear dimmer, From dark-bright
CH83	W19 dimmer	0-255	W19 -dimmer, linear dimmer, From dark-bright
CH84	Colour	0-255	Colour combination
CH85	Program	0-75	CH1-CH84 Work
		76-255	When DMX Value is than 60,Each program for DMX value increased by 10
CH86	Program speed	0-255	0-255 from fast to slow, 0 is fastest
CH87	Pan fine	0-255	0-255 run clockwise, 255-0 run anti-clockwise
CH88	Tilt fine	0-255	0-255 run clockwise, 255-0 run anti-clockwise
CH89	Rest, Auto and Sound	0-64	no-functionn(Reset Run after DMX value keep unchanged for 10 seconds)
		65-128	Auto
		129-192	Sound
		193-255	Reset

5. Troubleshooting

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

A. The unit does not work, no light and the fan does not work

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

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 unit 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. 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.

6. Fixture Cleaning

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics.

- Clean with soft cloth using normal glass cleaning fluid.
- Always dry the parts carefully.
- Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.