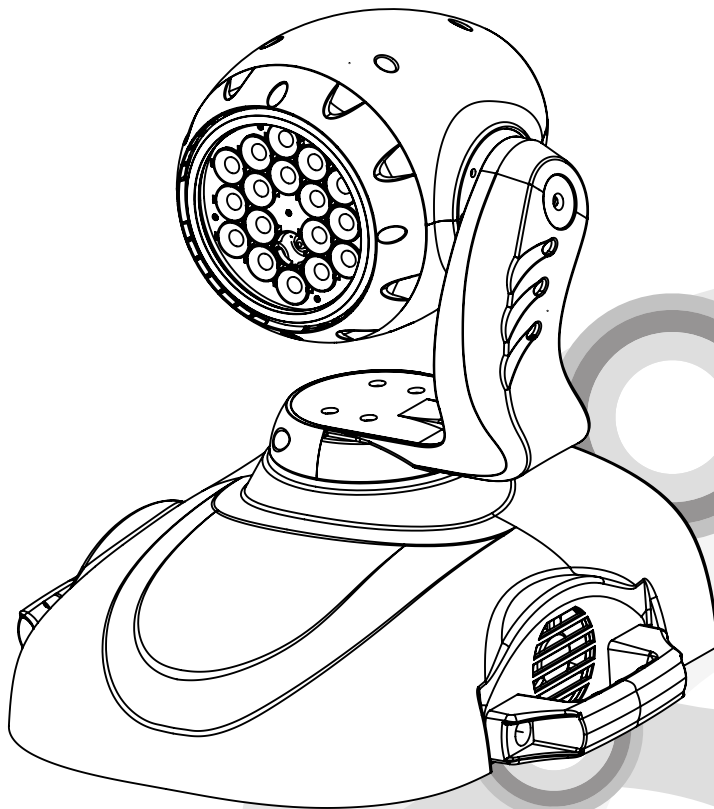


- **USER MANUAL**
- **MX-COLOR**
- **LEDIIO**



# T TABLE OF CONTENTS

<b>PART 1 PRODUCT (GENERAL).....</b>	<b>1</b>
1.1--PRODUCT INTRODUCTION.....	2
1.2--PRODUCT FEATURES.....	2
1.3--TECHNICAL SPECIFICATIONS.....	3
1.4--PHOTOMETRIC DATA.....	4
1.5--SAFETY WARNING.....	4
<b>PART 2 INSTALLATION.....</b>	<b>5</b>
2.1--MOUNTING.....	6
2.2-- SETTING UP (STAND ALONE).....	7
2.3--SETTING UP (MASTER/SLAVE).....	7
2.4--SETTING UP (DMX512 CONTROLLER).....	8
<b>PART 3 DISPLAY PANEL OPERATION.....</b>	<b>9</b>
3.1--BASIC.....	10
3.2--MENU.....	11
3.3--SETTING DMX512 ADDRESS.....	12
3.4--RUN MODE.....	12
3.5--EDIT PROGRAM.....	13
3.6--SPECIAL OPTIONS.....	14
<b>PART 4 OPERATION WITH DMX512.....</b>	<b>15</b>
4.1--BASIC ADDRESSING.....	16
4.2--CHANNEL ASSIGNMENT.....	16
4.3--FUNCTION EXPLANATION.....	18

# ***Part 1***

- 1.1 PRODUCT INTRODUCTION
- 1.2 PRODUCT FEATURES
- 1.3 TECHNICAL SPECIFICATIONS
- 1.4 PHOTOMETRIC DATA
- 1.5 SAFETY WARNING

## **PRODUCT (GENERAL)**

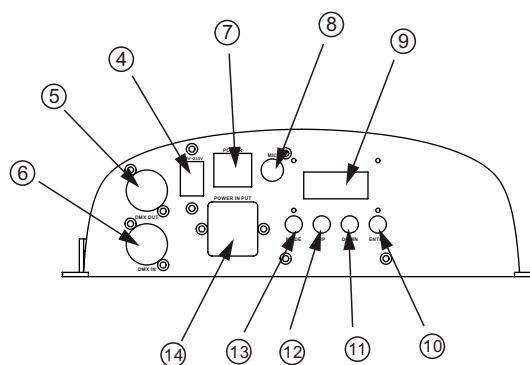
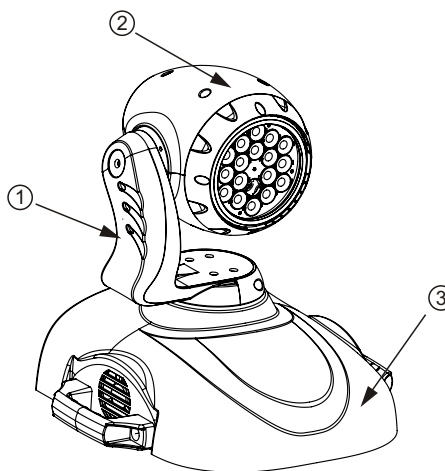
# 1.1 PRODUCT INTRODUCTION

This product is designed for indoor use only. Suitable applications include wash or effect lighting for architectural, stage or nightclub applications. Direct input of DMX512 signal allows the fixtures to be controlled from any DMX512 controller. The fixture is fully programmable with one custom program available and is supplied with two automatic programs and two music-active programs (all accessible from DMX512 controller). This product can be operated as a single unit or with multiple units for large applications.

# 1.2 PRODUCT FEATURES

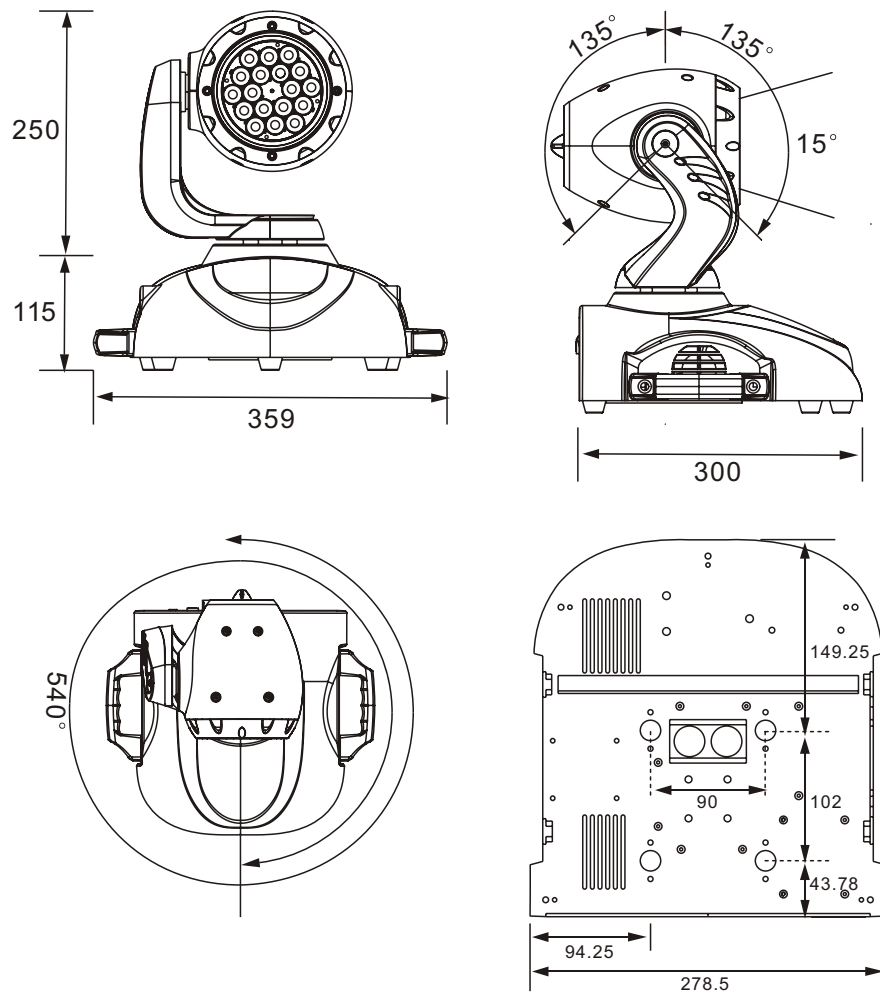
- RGB Dimmer 0-100%
- Strobe
- Automatic programs
- Music-active programs
- Custom program (programmable)
- Auto-color sequence (variable speed)
- LCD display
- Fan speed control
- Direct DMX512 input

No	ITEM
1	Arm
2	Head
3	Base
4	Power selector switch
5	DMX OUT
6	DMX IN
7	Power switch
8	Mic
9	LCD display
10	Enter
11	Down
12	Up
13	Mode
14	Power connector

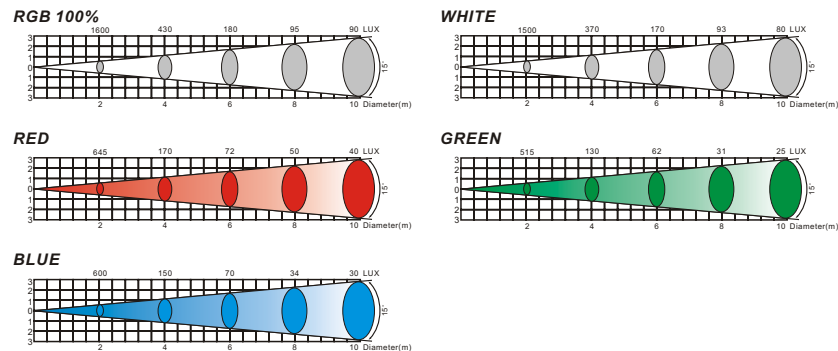


# 1.3 TECHNICAL SPECIFICATIONS

<b>Voltage</b>	100~120V...50/60Hz    220~240V...50/60Hz50W
<b>Rated Power</b>	50W
<b>LED/Unit</b>	18pcs (6 X RED / 6 X GREEN / 6 X BLUE)
<b>Output/LED</b>	1W
<b>LED Beam Angle</b>	15° (30° Optional)
<b>Cooling</b>	Forced air convection
<b>Dimensions</b>	356 x 300 x 356mm
<b>Weight</b>	8.9Kg



## 1.4 PHOTOMETRIC DATA



## 1.5 SAFETY WARNING

### **IMPORTANT**

**[ ALWAYS READ THE USER MANUAL BEFORE OPERATION. ]**  
**[ PLEASE CONFIRM THAT THE POWER SUPPLY STATED ON THE PRODUCT IS THE SAME AS THE MAINS POWER SUPPLY IN YOUR AREA. ]**

- This product must be installed by a qualified professional.
- Always operate the equipment as described in the user manual.
- A minimum distance of 0.5m must be maintained between the equipment and combustible surface.
- The product must always be placed in a well ventilated area.
- Always make sure that the equipment is installed securely.
- DO NOT stand close to the equipment and stare directly into the LED light source.
- Always disconnect the power supply before attempting and maintenance.
- Always make sure that the supporting structure is solid and can support the combined weight of the products.
- The earth wire must always be connected to the ground.
- Do not touch the power cables if your hands are wet.

### **ATTENTION**



- This product left the place of manufacture in perfect condition. In order to maintain this condition and for safe operation, the user must always follow the instructions and safety warnings described in this user manual.
- Avoid shaking or strong impacts to any part of the equipment.
- Make sure that all parts of the equipment are kept clean and free of dust.
- Always make sure that the power connections are connected correct and secure.
- If there is any malfunction of the equipment, contact your distributor immediately.
- When transferring the product, it is advisable to use the original packaging in which the product left the factory.
- Shields, lenses or ultraviolet screens shall be changed if they have become damaged to such an extent that their effectiveness is impaired.
- The lamp (LED) shall be changed if it has become damaged or thermally deformed.

# *Part* **2**

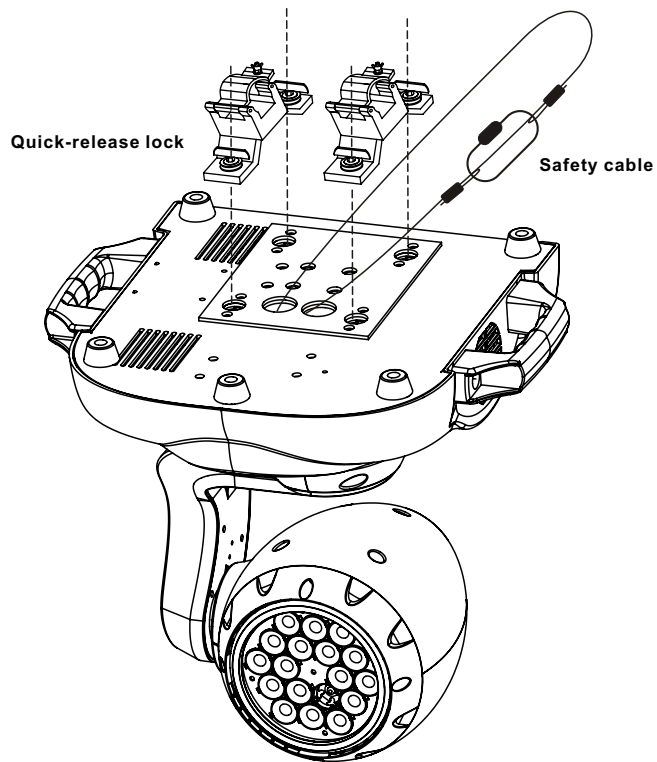
- 2.1 MOUNTING
- 2.2 SETTING UP (STAND ALONE)
- 2.3 SETTING UP (MASTER/SLAVE)
- 2.4 SETTING UP (DMX512 CONTROLLER)

## **INSTALLATION**

## 2.1 MOUNTING

The LED fixture can be operated in any position at any angle. When mounted on a flat surface, the surface must be strong enough to support 10 times the weight of the fixture and stable so that there will be no damage caused to the fixture or surrounding people or objects because of movements of the fixture on the surface.

When the unit is mounted in a hanging position, the fixture is attached using the mounting brackets and a standard truss clamp or other clamping device. The mounting brackets supplied are mounted using quick-release locks allowing simple mounting or removal.



### **IMPORTANT SAFETY NOTE!!**

Always use a safety cable when installing this unit!!

Be sure that the safety cable is connected to a solid load-bearing structure.



## 2.2 SETTING UP (STAND ALONE)

The LED fixture can be used as a stand alone unit. The stand alone functions AUTO 1, AUTO 2, SOUND 1, SOUND 2, CUSTOM 1 can be activated without the need to connect to any controller or connecting to any other equipment.

Simply, access the <RUN> menu from the DISPLAY and select the target program to activate.

## 2.3 SETTING UP (MASTER/SLAVE)

When units are connected in series using DMX512 signal cable connect the units as shown in the diagram below

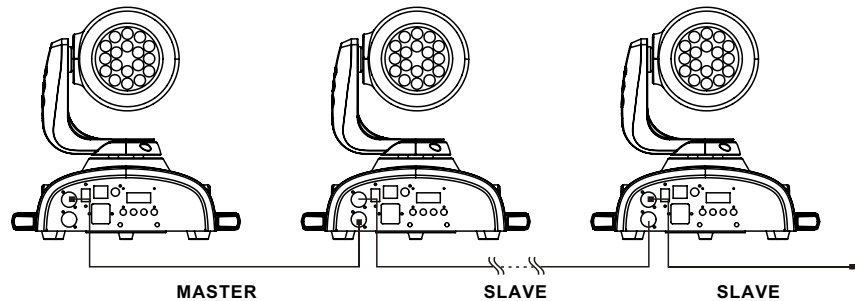
Connect the (male) 3 pin connector side of the DMX cable to the output (female) 3 pin connector of the first (MASTER) fixture.

Connect the end of the cable coming from the MASTER fixture which will have a (female) 3 pin connector to the input connector of the next fixture consisting of a (male) 3 pin connector.

Then proceed to connect from the output as stated above to the input of the following fixture and so on.

Set the first unit in the series to one of the STAND ALONE modes as described in section 2.2

All other units in the series should be set to <SLAVE> from the <RUN> menu.



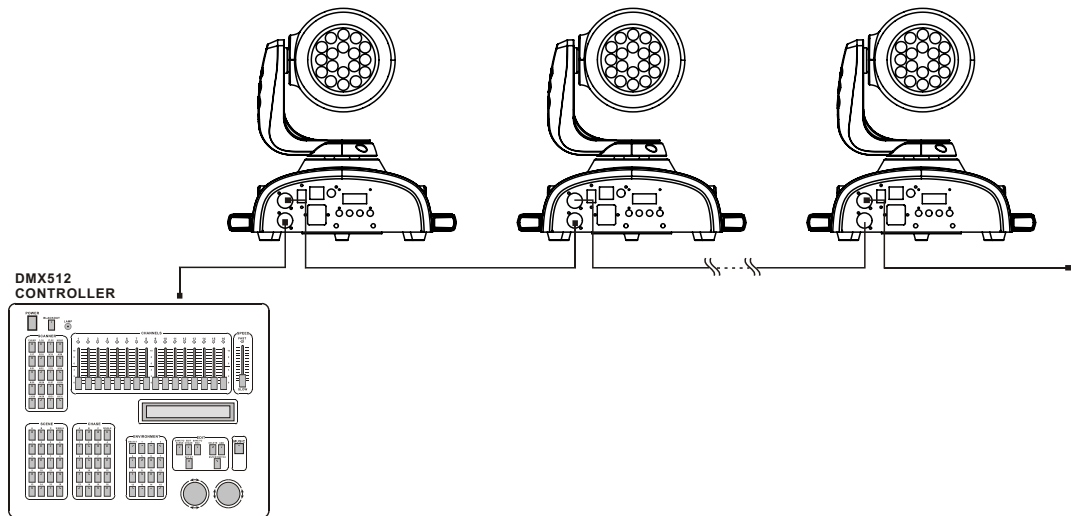
## 2.4 SETTING UP (DMX512 CONTROLLER)

When units are connected in series to a DMX512 controller and other DMX512 equipment, connect the equipment as shown in the diagram below.

Connect the (male) 3 pin connector side of the DMX cable to the output (female) 3 pin connector of the controller.

Connect the end of the cable coming from the controller which will have a (female) 3 pin connector to the input connector of the next fixture consisting of a (male) 3 pin connector.

Then proceed to connect from the output as stated above to the input of the following fixture and so on.



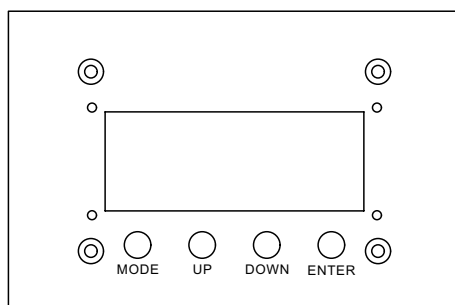
# *Part* **3**

- 3.1 BASIC
- 3.2 MENU
- 3.3 SETTING DMX512 ADDRESS
- 3.4 RUN MODE
- 3.5 EDIT PROGRAM
- 3.6 SPECIAL OPTIONS

## **DISPLAY PANEL OPERATION**

## 3.1 BASIC

The LED fixture is mounted with a LCD display and 4 control buttons.



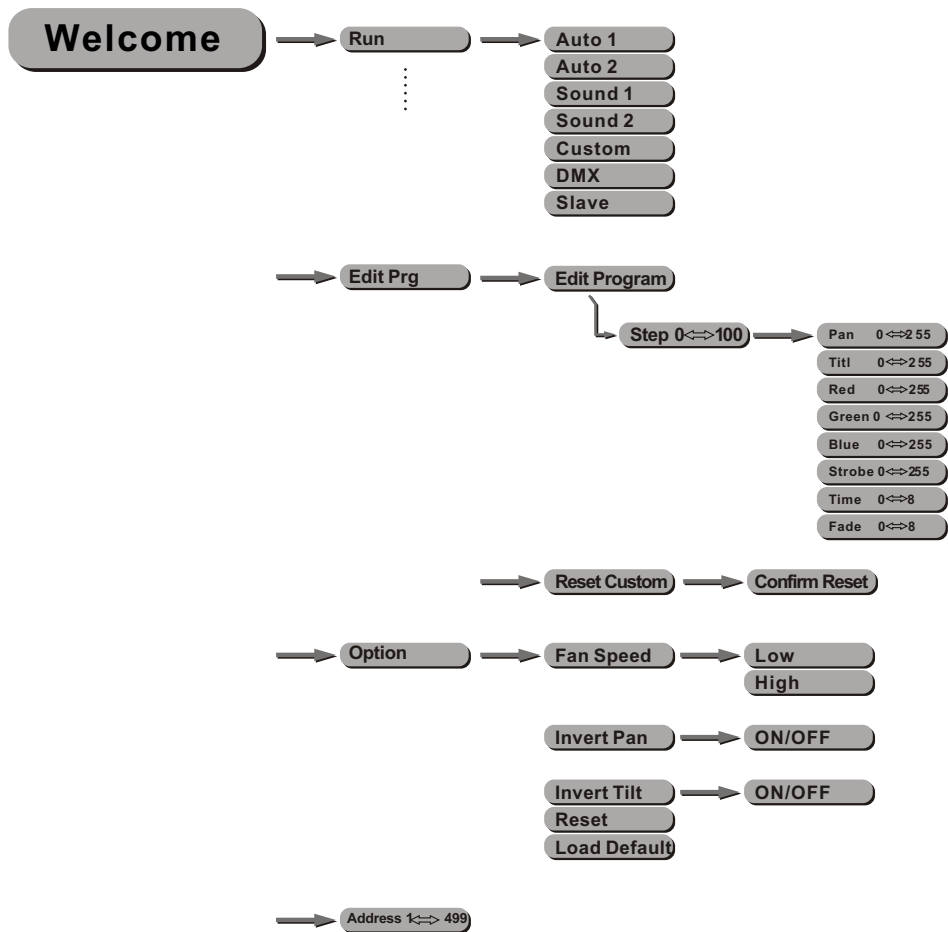
**【MODE】** Scroll through the main menu or exit from the current sub-menu

**【 UP 】** Scroll 'UP' through the menu list or increase the value of the current function

**【DOWN】** Scroll 'DOWN' through the menu list or decrease the value of the current function

**【ENTER】** Enter the currently selected menu or confirm the current function value

## 3.2 MENU



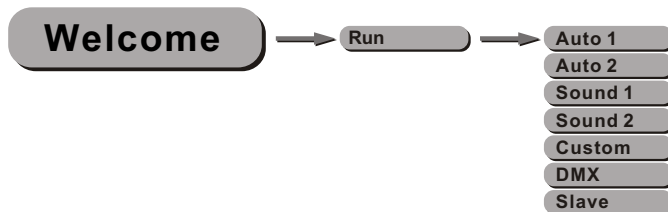
## 3.3 SETTING DMX512 ADDRESS



### **【Address】**

- Enter the **【Address】** mode to set the DMX address

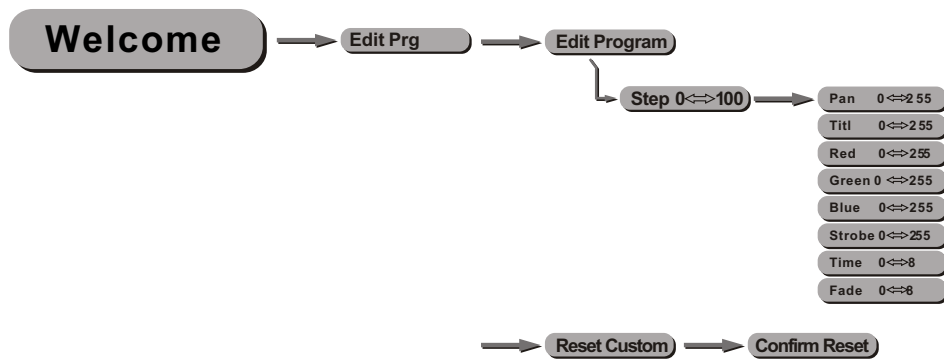
## 3.4 RUN MODE



### **【Run】**

- Enter the **【Run】** menu in order to select the operation mode of the fixture
- For stand alone operation, select from the modes **【AUTO 1】** , **【AUTO 2】** , **【SOUND 1】** , **【SOUND 2】** & **【CUSTOM】**
- For control with a DMX512 controller select **【DMX】**
- To set a unit as a slave select **【Slave】**

## 3.5 EDIT PROGRAM



### 【Step】

- Select from 100 steps to create or edit
- Steps that are not required should have the 【Time】 set as 0

### 【Pan】

- Set the PAN position of the LED fixture (0-255)

### 【Tilt】

- Set the TILT position of the LED fixture (0-255)

### 【Red】 , 【Green】 & 【Blue】

- Combine RED, GREEN & BLUE to create an infinite range of colors (0-255)

### 【Strobe】

- Select the strobe speed from 0-24Hz

### 【Time】

- Set the 【Time】 for the current step (0-8)
- The unit of 【Time】 is 1 seconds

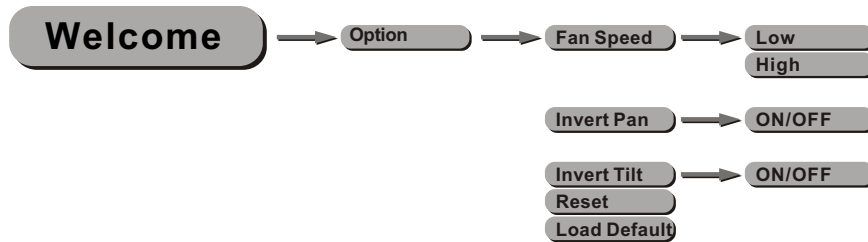
### 【Fade】

- Set the [Fade] time of the current step (0-8)
- The unit of [Fade] time is 1 second

### 【Reset Custom】

- Enter 【Reset Custom】 in order to reset all settings in the CUSTOM mode

## 3.6 SETTING DMX512 ADDRESS



### **【Fan Speed】**

- Set the **【Fan Speed】** as high or low  
*Note that when the fan speed is set to low that any overheating by the unit will automatically change the fan speed to high*

### **【Invert Pan】**

- Select **【On】** in order to invert the PAN values

### **【Invert Tilt】**

- Select **【On】** in order to invert the TILT values

### **【Reset】**

- Select **【Reset】** to reset the fixture

### **【Load Default】**

- Select **【Load Default】** to reset all settings in the fixture (does not include CUSTOM mode)



# ***Part 4***

- 4.1 BASIC ADDRESSING
- 4.2 CHANNEL ASSIGNMENT
- 4.3 FUNCTION EXPLANATION

## **OPERATION WITH DMX512**

# 4.1 BASIC ADDRESSING

It connect all of the units in series using standard DMX512 signal cable  
 It set the DMX512 address in the 'Address' menu  
 It is possible to have the same DMX address or independent addresses for each fixture.

# 4.2 CHANNEL ASSIGNMENT

CHANNEL	FUNCTION
1	PAN
2	TILT
3	PAN/TILT SPEED
4	RED
5	GREEN
6	BLUE / AUTO-MACRO SPEED
7	RGB MACRO, AUTO-MACRO & WHITE
8	DIMMER
9	STROBE
10	CONTROL MODE

CH1	%	Function	CH2	%	Function	CH3	%	Function
255	100	540°	255	100	270°	255	100	FAST
0	0.0		0	0.0		0	0.0	SLOW

CH4	%	Function	CH5	%	Function	CH6	%	Function
255	100	RED	255	100	GREEN	255	100	BLUE FAST
0	0.0	OFF	0	0.0	OFF	0	0.0	OFF SLOW

CH7	%	Function
251 ↔ 255	98.5 ↔ 100	WHITE
241 ↔ 250	94.5 ↔ 98	AUTO-MACRO
216 ↔ 240	84.5 ↔ 94	RED UP/GREEN DOWN /BLUE 100%
186 ↔ 215	73 ↔ 84	RED 100%/GREEN UP/BLUE UP
156 ↔ 185	61 ↔ 72.5	RED 100%/GREEN 0%/BLUE DOWN
126 ↔ 155	49.5 ↔ 60.5	RED DOWN/GREEN 0%/BLUE 100%
96 ↔ 125	37.5 ↔ 49	RED 0%/GREEN DOWN/BLUE 100%
66 ↔ 95	26 ↔ 37	RED 0%/GREEN 100%/BLUE UP
36 ↔ 65	14 ↔ 25.5	RED DOWN / GREEN 100%/BLUE 0%
6 ↔ 35	2.5 ↔ 13.5	RED 100% / GREEN UP / BLUE 0%
0 ↔ 5	0 ↔ 2	NO FUNCTION

CH8	%	Function
255	100	MAXIMUM INTENSITY
0	0.0	MINIMUM INTENSITY

CH9	%	Function
255	100	24Hz
0	0.0	NO FUNCTION

CH10	%	Function
216 ↔ 255	84.5 ↔ 255	CUSTOM (AFTER 3 SECONDS)
176 ↔ 215	69 ↔ 84	SOUND 2 (AFTER 3 SECONDS)
136 ↔ 175	53.5 ↔ 68.5	SOUND 1 (AFTER 3 SECONDS)
96 ↔ 135	37.5 ↔ 53	AUTO 2 (AFTER 3 SECONDS)
56 ↔ 95	22 ↔ 37	AUTO 1 (AFTER 3 SECONDS)
46 ↔ 55	18.2 ↔ 1.5	RESET (AFTER 3 SECONDS)
0 ↔ 45	0 ↔ 17.5	NORMAL OPERATION

## 4.3 FUNCTION EXPLANATION

### **PAN**

- CH1 adjusts the PAN from 0 to 540

### **TILT**

- CH2 adjusts the TILT from 0 to 540

### **PAN/TILT SPEED**

- CH3 adjusts the speed of the PAN and TILT faders

### **RED, GREEN & BLUE**

- CH4, CH5 & CH6 control the intensity of each of the RED, GREEN & BLUE LEDs.
- When the slider is at the highest position (255) the intensity of the color is the maximum
- CH4, CH5 & CH6 can be combined together to create over 16 million colors.

### **COLOR MACRO & WHITE**

- The COLOR MACRO allows the user to select from a linear range of colors
- The range from 241-250 is an AUTO-MACRO.
- When the AUTO-MACRO is selected, CH6 controls the speed of the AUTO-MACRO.
- When the slider is at the top of the slider the color is WHITE

### **DIMMER**

- CH8 is an overall DIMMER for the currently selected / created color

### **STROBE**

- CH9 is the strobe channel and controls the speed of the strobe.
- The strobe is with an adjustable speed with a maximum of 24Hz

### **CONTROL MODE**

- CH10 allows the user to access the internal programs in the fixture
- CH10 also allows the unit to perform a reset.
- Note that all functions from CH10 require a 3 second delay before activation.