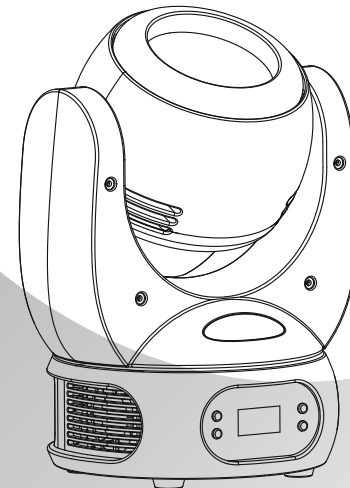


# ***GEMINI 100XE***

## **USER MANUAL**



**SS649**

**SILVER STAR**  
Professional Lighting

[www.yajiang.cn](http://www.yajiang.cn)

RD-SS649-SM-00(SS-1)

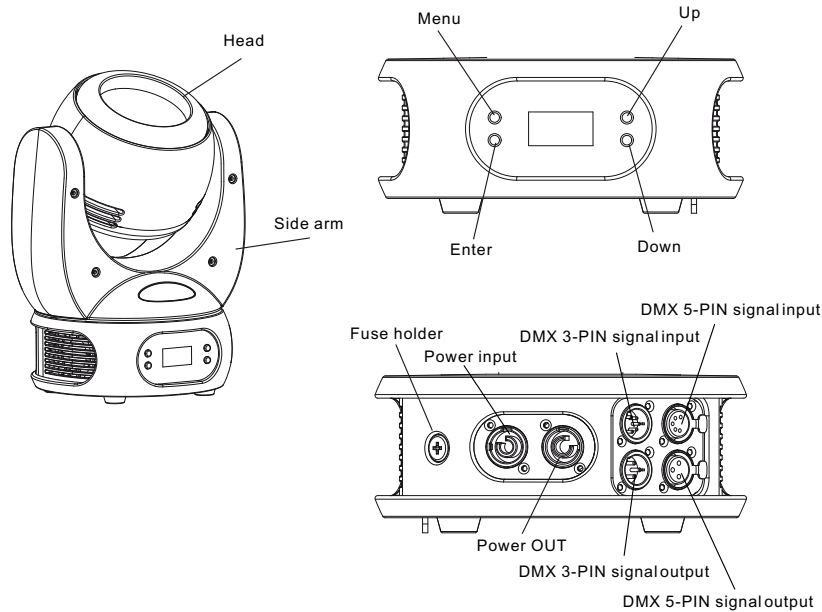
# 1 PRODUCT SPECIFICATIONS

## 1.1 PRODUCT SPECIFICATIONS

### Electrical

- ◆ Voltage: AC100~240V, 50/60Hz
- ◆ Max Power: 95W
- ◆ Size: 250x210x340mm
- ◆ Weight: 6.5kg

## 1.2 PRODUCT FEATURES



CHANNEL	VALUE	FUNCTION
		STROBE
	0 ↔ 9	NO FUNCTION
	10 ↔ 99	STROBE FROM ( SLOD TO FAST , 0-25Hz )
	100 ↔ 109	NO FUNCTION
	110 ↔ 179	LIGHTNING STROBE
	180 ↔ 189	NO FUNCTION
	190 ↔ 255	RANDOM SROBE
12	0 ↔ 255	ZOOM
		CONTROL
	0 ↔ 9	NO FUNCTION
	10 ↔ 19	PAN/TILTBLACK ACTIVATED
	20 ↔ 29	PAN/TILTBLACK DEACTIVATED
	30 ↔ 39	FAN SLOW
	40 ↔ 49	FAN NORMAL
	50 ↔ 59	FAN FAST
	60 ↔ 69	FAN AUTO
	70 ↔ 79	AUTO1
	80 ↔ 89	AUTO2
14	90 ↔ 99	CUSTOM
	100 ↔ 109	TEST
	110 ↔ 119	RESET
	120 ↔ 129	NO FUNCTION
	130 ↔ 139	DIM0
	140 ↔ 149	DIM1
	150 ↔ 159	DIM2
	160 ↔ 169	DIM3
	170 ↔ 179	DIM4
	180 ↔ 255	NO FUNCTION

CMY		
CHANNEL	VALUE	FUNCTION
1	0 ↔ 255	PAN
2	0 ↔ 255	PAN FINE
3	0 ↔ 255	TITL
4	0 ↔ 255	TITL FINE
5	0 ↔ 255	PT SPEED
6		CONTINUOUS PAN
	0	STOP
	1 ↔ 127	CLOCKWISE ROTATION SLOW TO FAST
	128 ↔ 254	COUNTERCLOCKWISE ROTATION FAST TO SLOW
	255	STOP
7	0 ↔ 255	CYAN
8	0 ↔ 255	MAGENTA
9	0 ↔ 255	YELLOW
10	0 ↔ 255	DIMMER
11		MARCOS
	0 ↔ 9	NO FUNCTION
	10 ↔ 29	RED 100% /GREEN UP /BLUE 0%
	30 ↔ 49	RED DOWN /GREEN 100% /BLUE 0%
	50 ↔ 69	RED 0% /GREEN 100% /BLUE UP
	70 ↔ 89	RED 0% /GREEN DOWN /BLUE 100%
	90 ↔ 109	RED UP /GREEN 0% /BLUE 100%
	110 ↔ 129	RED 100% /GREEN 0% /BLUEDOWN
	130 ↔ 149	RED 100%/GREEN UP/BLUE UP
	150 ↔ 169	RED DOWN/GREEN DOWN/BLUE 100%
	170 ↔ 189	ALL LEDAT FULLOUTPUT
	190 ↔ 199	2700K
	200 ↔ 209	3200K
	210 ↔ 219	4200K
	220 ↔ 229	5600K
	230 ↔ 239	6500K
240 ↔ 255	8000K	

### 1.3 SAFETY WARNING

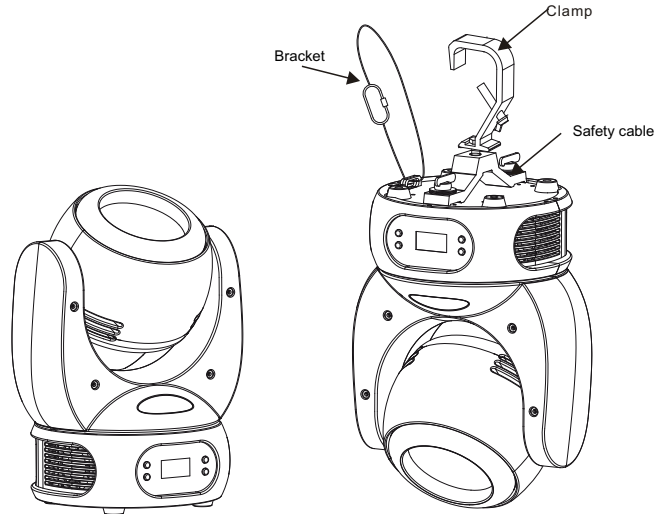
#### IMPORTANT:

- This product must be installed by a qualified professional.
- All maintenance must be carried out by a qualified electrician.
- A minimum distance of 0.5m must be maintained between the equipment and a combustible surface.
- The product must always be operated in a well ventilated area.
- DO NOT stare directly into the LED light source.
- Always disconnect the power before carrying out any maintenance.
- The earth must always be connected to the ground.
- Ensure that all parts of the equipment are kept clean and free of dust.

## 2 INSTALLATION

### 2.1 MOUNTING:

- The fixture can be mounted in any position.
- Always ensure that mounting surface can withstand 10 times the weight of the fixture.
- Always use a safety cable when mounting the fixture in any elevated position.



#### **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.

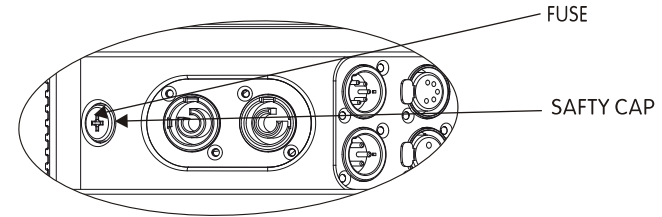
CHANNEL	VALUE	FUNCTION
		STROBE
	0 ↔ 9	NO FUNCTION
	10 ↔ 99	STROBE FROM ( SLOD TO FAST , 0-25Hz )
18	100 ↔ 109	NO FUNCTION
	110 ↔ 179	LIGHTNING STROBE
	180 ↔ 189	NO FUNCTION
	190 ↔ 255	RANDOM SROBE
19	0 ↔ 255	ZOOM
		CONTROL
	0 ↔ 9	NO FUNCTION
	10 ↔ 19	PAN/TILTBLACK ACTIVATED
	20 ↔ 29	PAN/TILTBLACK DEACTIVATED
	30 ↔ 39	FAN SLOW
	40 ↔ 49	FAN NORMAL
	50 ↔ 59	FAN FAST
	60 ↔ 69	FAN AUTO
	70 ↔ 79	AUTO1
20	80 ↔ 89	AUTO2
	90 ↔ 99	CUSTOM
	100 ↔ 109	TEST
	110 ↔ 119	RESET
	120 ↔ 129	NO FUNCTION
	130 ↔ 139	DIM0
	140 ↔ 149	DIM1
	150 ↔ 159	DIM2
	160 ↔ 169	DIM3
	170 ↔ 179	DIM4
	180 ↔ 255	NO FUNCTION

PERSON2

CHANNEL	VALUE	FUNCTION
1	0 ↔ 255	PAN
2	0 ↔ 255	PAN FINE
3	0 ↔ 255	TITL
4	0 ↔ 255	TITL FINE
5	0 ↔ 255	PT SPEED
6		CONTINUOUS PAN
	0	STOP
	1 ↔ 127	CLOCKWISE ROTATION SLOW TO FAST
	128 ↔ 254	COUNTERCLOCKWISE ROTATION FAST TO SLOW
	255	STOP
7	0 ↔ 255	RED
8	0 ↔ 255	RED FINE
9	0 ↔ 255	GREEN
10	0 ↔ 255	GREEN FINE
11	0 ↔ 255	BLUE
12	0 ↔ 255	BLUE FINE
13	0 ↔ 255	WHTIE
14	0 ↔ 255	WHTIE FINE
15	0 ↔ 255	DIMMER
16	0 ↔ 255	DIMMER FINE
17		MARCOS
	0 ↔ 9	NO FUNCTION
	10 ↔ 29	RED 100% /GREEN UP /BLUE 0%
	30 ↔ 49	RED DOWN /GREEN 100% /BLUE 0%
	50 ↔ 69	RED 0% /GREEN 100% /BLUE UP
	70 ↔ 89	RED 0% /GREEN DOWN /BLUE 100%
	90 ↔ 109	RED UP /GREEN 0% /BLUE 100%
	110 ↔ 129	RED 100% /GREEN 0%/BLUEDOWN
	130 ↔ 149	RED 100%/GREEN UP/BLUE UP
	150 ↔ 169	RED DOWN/GREEN DOWN/BLUE 100%
	170 ↔ 189	ALL LEDAT FULLOUTPUT
	190 ↔ 199	2700K
	200 ↔ 209	3200K
	210 ↔ 219	4200K
	220 ↔ 229	5600K
	230 ↔ 239	6500K
	240 ↔ 255	8000K

## 2.2 FUSE REPLACEMENT

- Remove the safety cap by a screwdriver.
- Fetch the old fuse from safety cap.
- Install a new fuse.
- Install the safety cap.



## 2.3 POWER CONNECTIONS

- 220~240V: 18 units may be connected in series
- 110~120V: 9 units may be connected in series

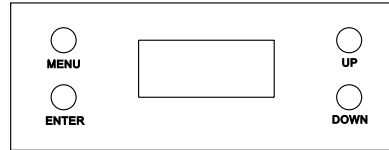
**Note:**

If the signal cable is over 60m between the DMX512 controller and fixture or between two fixtures, then a DMX signal amplifier is needed as well.

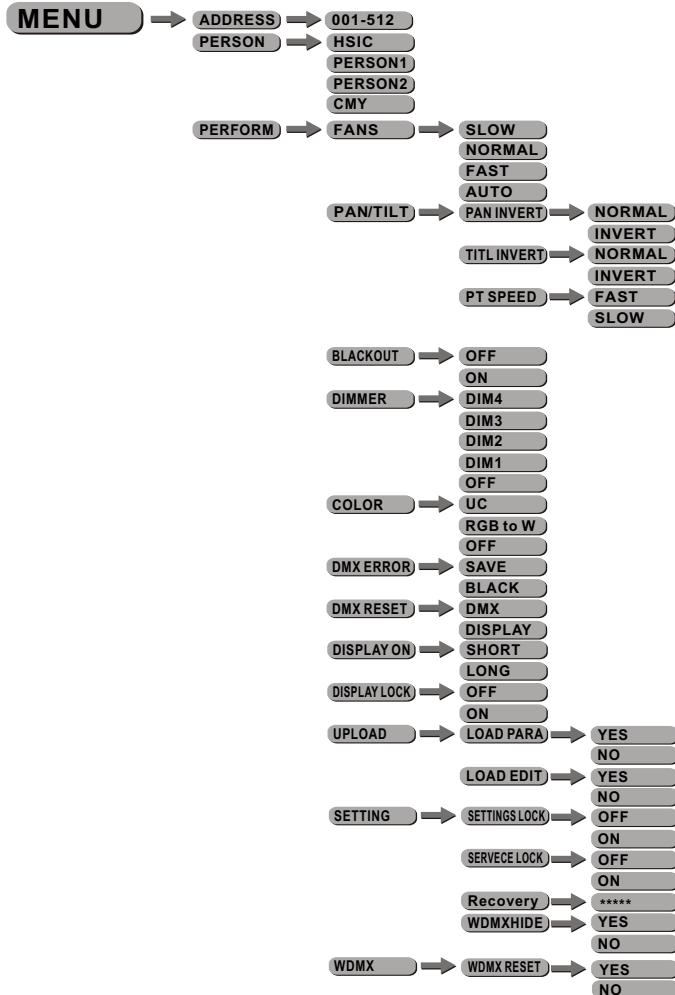
# 3 DISPLAY PANEL OPERATION

## 3.1 DISPLAY OPERATION

- ◆ MENU: BACK;
- ◆ ENTER: ENTER OR SAVE;
- ◆ DOWN: DOWN;
- ◆ UP: UP;



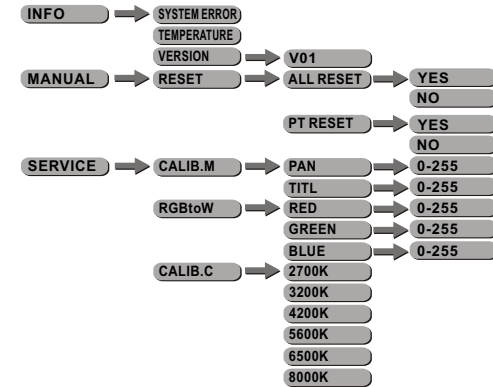
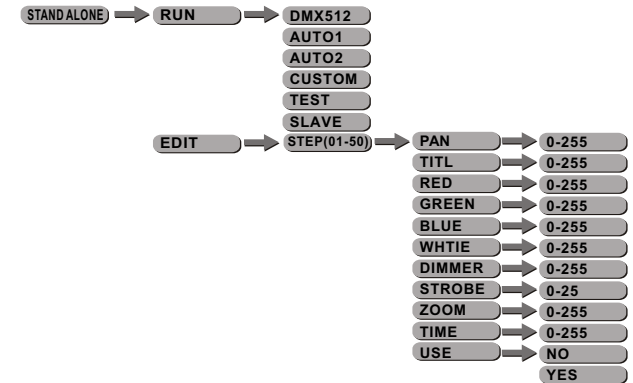
## 3.2 MENU MAP



CHANNEL	VALUE	FUNCTION
		CONTROL
	0 ↔ 9	NO FUNCTION
	10 ↔ 19	PAN/TILTBLACK ACTIVATED
	20 ↔ 29	PAN/TILTBLACK DEACTIVATED
	30 ↔ 39	FAN SLOW
	40 ↔ 49	FAN NORMAL
	50 ↔ 59	FAN FAST
	60 ↔ 69	FAN AUTO
	70 ↔ 79	AUTO1
	80 ↔ 89	AUTO2
15	90 ↔ 99	CUSTOM
	100 ↔ 109	TEST
	110 ↔ 119	RESET
	120 ↔ 129	NO FUNCTION
	130 ↔ 139	DIM0
	140 ↔ 149	DIM1
	150 ↔ 159	DIM2
	160 ↔ 169	DIM3
	170 ↔ 179	DIM4
	180 ↔ 255	NO FUNCTION

PERSON1

CHANNEL	VALUE	FUNCTION
1	0 ↔ 255	PAN
2	0 ↔ 255	PAN FINE
3	0 ↔ 255	TITL
4	0 ↔ 255	TITL FINE
5	0 ↔ 255	PT SPEED
6		CONTINUOUS PAN
	0	STOP
	1 ↔ 127	CLOCKWISE ROTATION SLOW TO FAST
	128 ↔ 254	COUNTERCLOCKWISE ROTATION FAST TO SLOW
	255	STOP
7	0 ↔ 255	RED
8	0 ↔ 255	GREEN
9	0 ↔ 255	BLUE
10	0 ↔ 255	WHTIE
11	0 ↔ 255	DIMMER
12		MARCOS
	0 ↔ 9	NO FUNCTION
	10 ↔ 29	RED 100% /GREEN UP /BLUE 0%
	30 ↔ 49	RED DOWN /GREEN 100% /BLUE 0%
	50 ↔ 69	RED 0% /GREEN 100% /BLUE UP
	70 ↔ 89	RED 0% /GREEN DOWN /BLUE 100%
	90 ↔ 109	RED UP /GREEN 0% /BLUE 100%
	110 ↔ 129	RED 100%/GREEN 0%/BLUEDOWN
	130 ↔ 149	RED 100%/GREEN UP/BLUEUP
	150 ↔ 169	RED DOWN/GREEN DOWN/BLUE 100%
	170 ↔ 189	ALL LEDAT FULLOUTPUT
	190 ↔ 199	2700K
	200 ↔ 209	3200K
	210 ↔ 219	4200K
	220 ↔ 229	5600K
230 ↔ 239	6500K	
240 ↔ 255	8000K	
13		STROBE
	0 ↔ 9	NO FUNCTION
	10 ↔ 99	STROBE FROM ( SLOD TO FAST , 0-25Hz )
	100 ↔ 109	NO FUNCTION
	110 ↔ 179	LIGHTNING STROBE
	180 ↔ 189	NO FUNCTION
190 ↔ 255	RANDOM SROBE	
14	0 ↔ 255	ZOOM

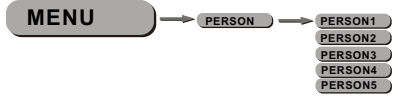


### 3.3 DMX512 SETTINGS



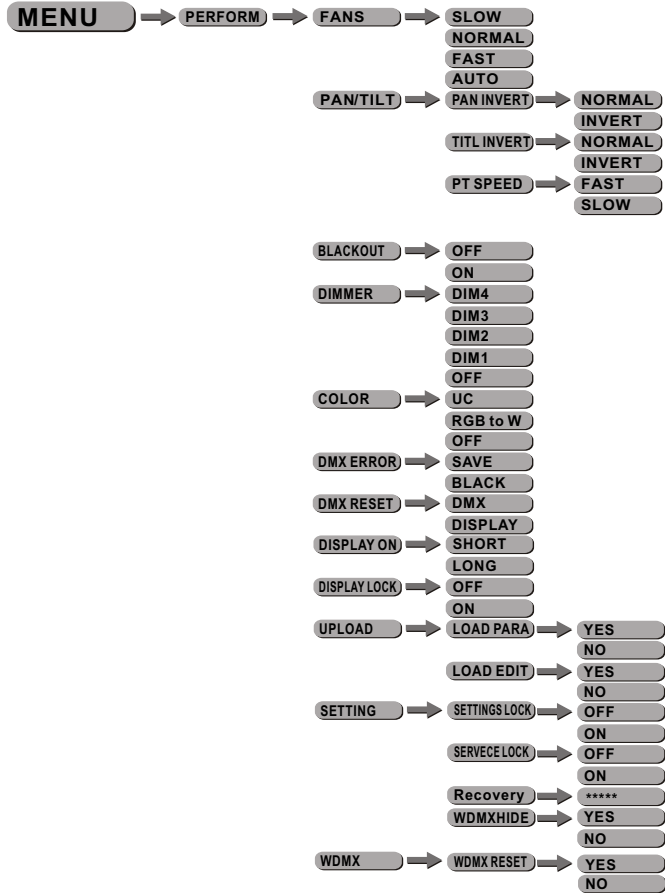
- Enter the **DMX** mode to set the DMX ADDRESS.

### 3.4 PERSONALITY



- Enter the **PERSONALITY** mode to select DMX mode: **HSIC** , **PERSON1** , **PERSON2** , **CMY** ,

### 3.5 PERFORM



CHANNEL	VALUE	FUNCTION
		CONTROL
	0 ↔ 9	NO FUNCTION
	10 ↔ 19	PAN/TILTBLACK ACTIVATED
	20 ↔ 29	PAN/TILTBLACK DEACTIVATED
	30 ↔ 39	FAN SLOW
	40 ↔ 49	FAN NORMAL
	50 ↔ 59	FAN FAST
	60 ↔ 69	FAN AUTO
	70 ↔ 79	AUTO1
	80 ↔ 89	AUTO2
	90 ↔ 99	CUSTOM
	100 ↔ 109	TEST
	110 ↔ 119	RESET
	120 ↔ 129	NO FUNCTION
	130 ↔ 139	DIM0
	140 ↔ 149	DIM1
	150 ↔ 159	DIM2
	160 ↔ 169	DIM3
	170 ↔ 179	DIM4
	180 ↔ 255	NO FUNCTION

13



## 4 USING A DMX512 CONTROLLER

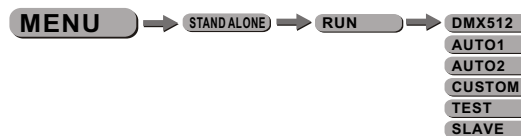
### 4.1 CHANNEL ASSIGNMENT

- Note: This product have four DMX512 channel configuration: **【HSIC】** , **【PERSON1】** , **【PERSON2】** , **【CMY】** .

HSIC		
CHANNEL	VALUE	FUNCTION
1	0 ↔ 255	PAN
2	0 ↔ 255	PAN FINE
3	0 ↔ 255	TITL
4	0 ↔ 255	TITL FINE
5	0 ↔ 255	PT SPEED
6		CONTINUOUS PAN
	0	STOP
	1 ↔ 127	CLOCKWISE ROTATION SLOW TO FAST
	128 ↔ 254	COUNTERCLOCKWISE ROTATION FAST TO SLOW
	255	STOP
7	0 ↔ 255	INTENSIYT
8	0 ↔ 255	HUE
9	0 ↔ 255	HUE FINE
10	0 ↔ 255	SATURATION
11		CCT
	0 ↔ 9	NO FUNCTION
	10 ↔ 40	2700K
	41 ↔ 80	3200K
	81 ↔ 120	4200K
	121 ↔ 160	5600K
	161 ↔ 200	6500K
201 ↔ 255	8000K	
12		STROBE
	0 ↔ 9	NO FUNCTION
	10 ↔ 99	STROBE FROM ( SLOD TO FAST , 0-25Hz )
	100 ↔ 109	NO FUNCTION
	110 ↔ 179	LIGHTNING STROBE
	180 ↔ 189	NO FUNCTION
190 ↔ 255	RANDOM SROBE	
13	0 ↔ 255	ZOOM

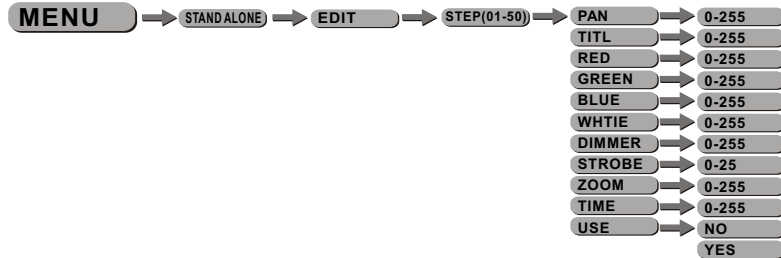
- Select **【PERFORM】** from the **【SETTINGS】** menu.
- **【FANS】** menu, select **【Slow/Norm/Fast/Auto】** as required fan speed.
- **【PANINVERT】** menu, select **【NORM/INVERT】** for normal/inverted control of the PAN function
- **【TILTINVERT】** menu, select **【NORM/INVERT】** for normal/inverted control of the TILT function
- **【PT SPEED】** menu, select **【Slow/Fast】** as required PAN/TILT movement speed.
- **【BLACKD】** menu, select **【OFF】** for immediate activation of PAN/TILT blackout when selected using the control channel or **【ON】** for 3 second delay before activation.
- **【DIMMER】** menu for selection of **【DIM1/DIM2/DIM3/DIM4/OFF】** special dimming curves
- **【COLOR】** is for activate/unactivate the color calibration functions. When **[RGBtoW]** is selected, on RGB = 255,255,255, the color is displayed as calibrated in CAL2 -- RGBW. When **[COLOR]** is set **[OFF]** , on RGB = 255,255,255, the RGB values are not adjusted and the output is most powerful. When **[UC]** is selected, the RGB output are adjusted to a standard preset universal color which balances fixtures from different generations.
- **【DMXERROR】** menu, select **【SAVE】** to maintain last command in case of DMX error or **【BLACK】** for blackout
- **【DMXRESET】** menu, select **【DMX】** to allow remote reset using DMX controller or **【DISPLAY】** for reset only available at on-fixture display
- **【DISPLAYON】** menu, select **【LONG/SHORT/DISPLAYLOCK】** for length of time for display backlight
- **【UPLOAD】** upload data setting, choose **【LOAD PARA】** to upload data, choose **【NO】** means do not upload data choose **【YES】** means upload data, choose **【LOAD EDIT】** to program, choose **【NO】** means do not upload, choose **【YES】** means upload
- **【SERVICE】** is a protect bottom, **【SETTINGS LOCK】** is the menu lock bottom, choose **【OFF】** means the menu lock bottom is off, choose **【ON】** means the menu lock bottom is on **【RECOVERY】** is the recover to default value. Press **【ENTER】** to password setting, press correct password **【UP+DOWN+UP+DOWN】** , and press **【ENTER】** , if password is correct, display will show **【OK】** ,
- **【WDMXHIDE】** is the wireless DMX hidden setting, choose **【NO】** means display, choose **【YES】** means hide. **【WDMX】** is the data setting, **【WDMX RESET】** is the wireless recover, choose **【NO】** means do not recover, choose **【YES】** means recover.

### 3.6 RUN



- Enter the **【STANDALONE】** menu to select from **【DMX512/AUTO 1/AUTO 2/CUSTOM/TEST/SLAVE】** run modes

### 3.7 EDIT



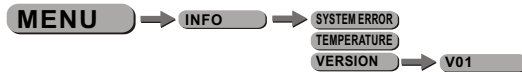
- Enter the **EDIT** mode to edit the custom programs by adjusting the value of **PAN** , **TILT** , **RED** , **GREEN** , **BLUE** , **WHITE** , **DIMMER** , **STROBE** , **ZOOM** , **TIME**
- Enter **USE** and select **YES** to run the steps user need.

**Note:** if user want to circulate the created steps, please set the last step 's **Time** as 0

For example, there are 3 steps, the setting should be like belowed:

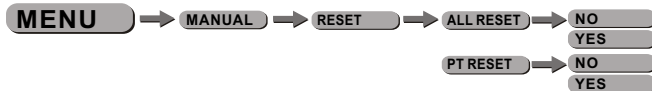
- Step 1 **Time** = 4 **Use** = Yes
- Step 2 **Time** = 5 **Use** = Yes
- Step 3 **Time** = 0 **Use** = Yes

### 3.8 INFO



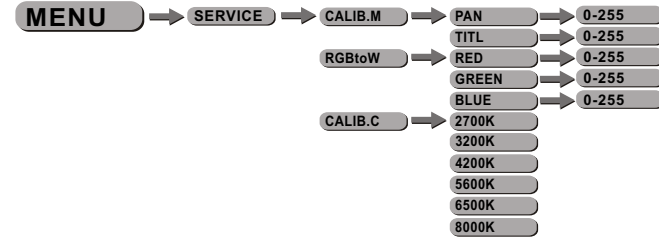
- push **OK** button into the information search mode in menu **INFO** , push **up/down** to choose item.
- **SYSTEM ERROR** is the SYSTEMERROR information setting, in **TEMPERATURE** mode could check the fixture temperature, in **VERSION** could check the version of the software

### 3.9 MANUAL



- Select **RESET** from the **MANUAL** menu
- **ALL RESET** menu, select **YES/NO** to carry out full fixture reset
- **PT RESET** menu, select **YES/NO** to carry out PAN/TILT reset

### 3.10 SERVICE



- Select **CALIB.M** from the **SERVICE** menu in order to calibrate the motors
- Adjust the values of the **PAN/TILT** motors in order to calibrate the start motor position
- Enter the **RGBtoW** to adjust the RGB parameter to make different whites.
- When the new setting is activated, the DMX controller choose RGB = 255,255,255 the white color will be made by the actual RGB values on the **RGBtoW** .
- Enter the **CALIB** to select white color of different color temperature.
- There are 11 pre-programmed White colors plus RGB TO WHITE and can be edited by using **RED** , **GREEN** , **BLUE** & **WHITE** .