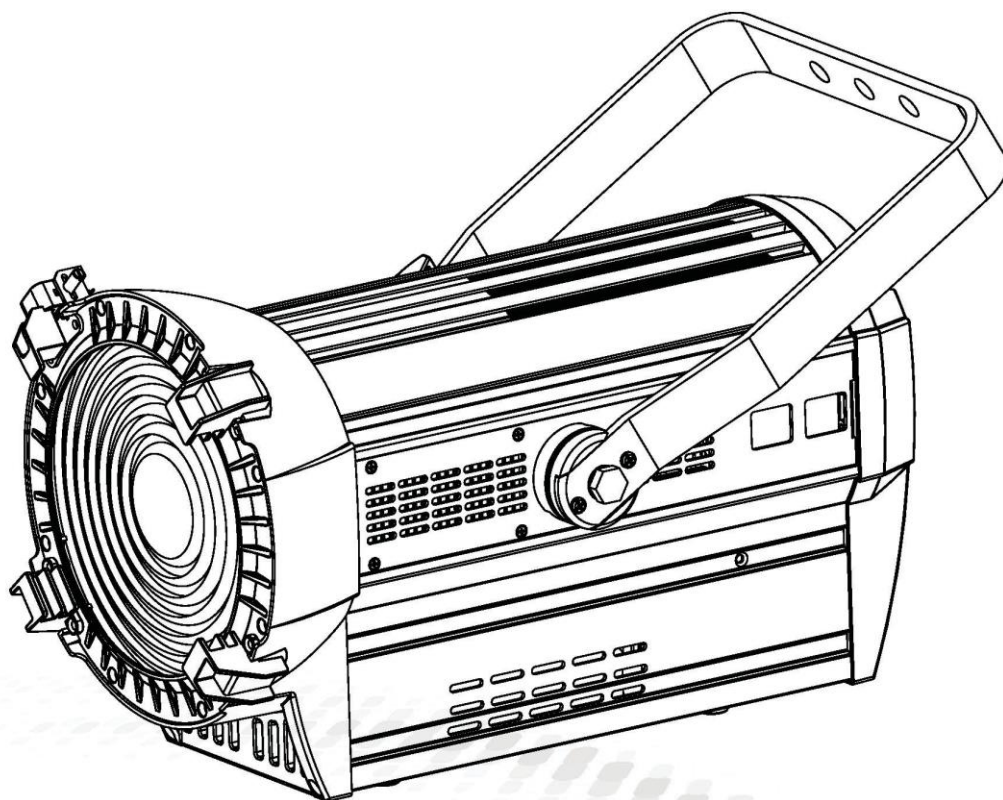


# SHOWPRO

## LED Fresnel RGBAL DMX ZOOM USER MANUAL

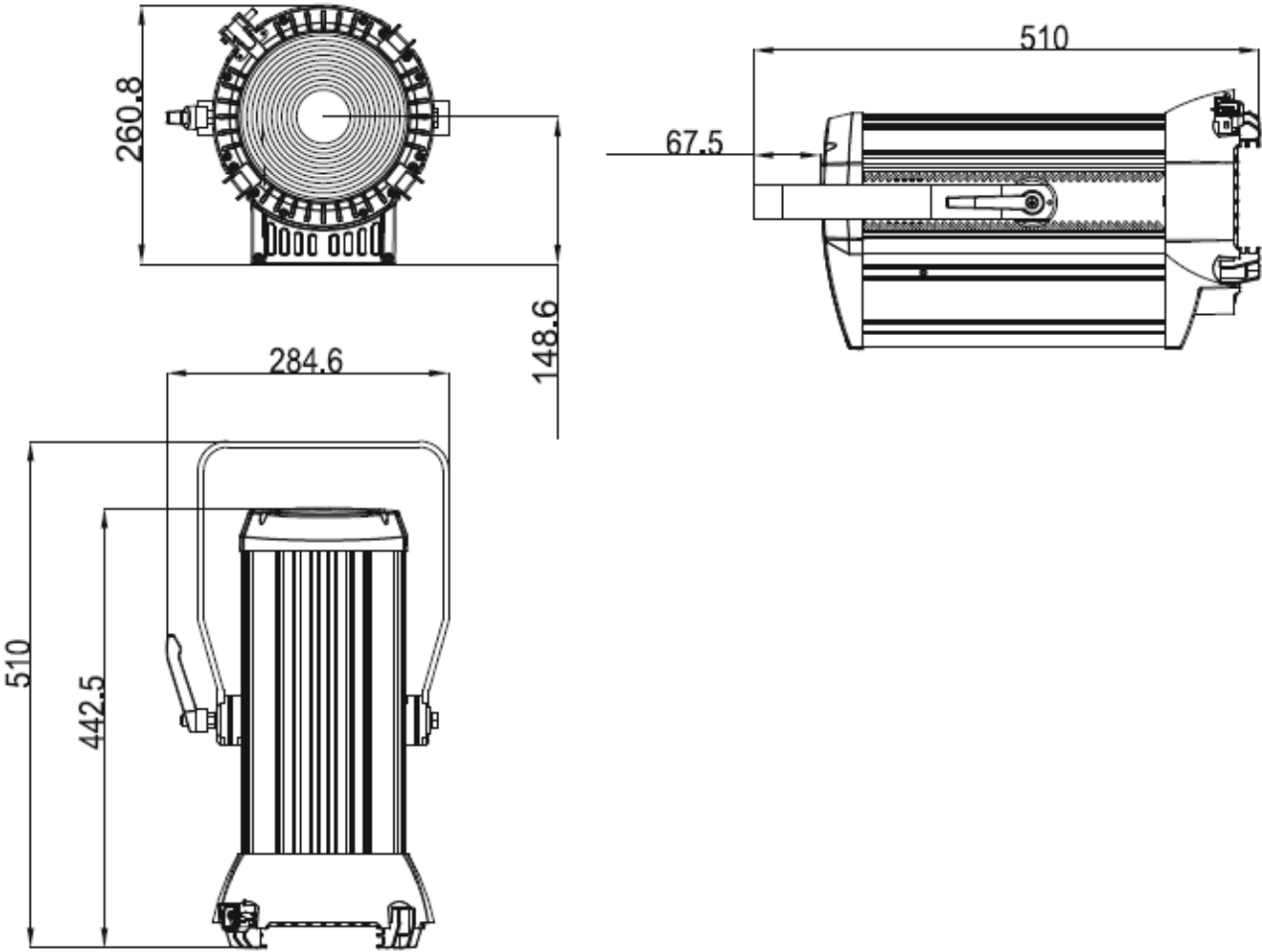
LEDFRE116



# 1 PRODUCT SPECIFICATIONS

## 1.1 PRODUCT SPECIFICATIONS

- ◆ Voltage: AC100~240V, 50/60Hz
- ◆ Max Power: 240W
- ◆ Size: 510X285X261mm
- ◆ Weight: 7.6kg



## 1.2 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.
- Do not open the fixture or remove any cover. Refer any service operation not described in this manual to an authorized Show Technology Service Centre

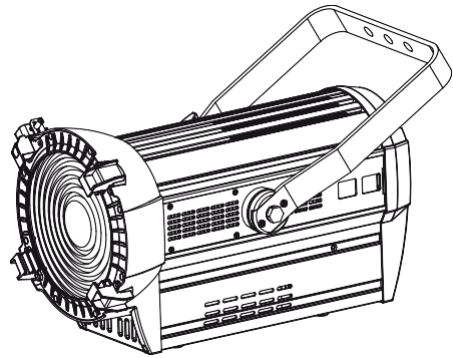
# 2 INSTALLATION


## 2.1 MOUNTING

### HANGING

The LED fixture can be mounted in a hanging position using the supporting bracket. The bracket should be secured to the mounting truss or structure using a standard mounting clamp. Please note that when hanging the unit a safety cable should also be used.

Contact your ShowPRO supplier for assistance if you have any questions about how to install this product safely.



 <b>NOTE</b>	The LED MODULE can be mounted at any angle and in any position. It is possible to further adjust the angle of the LED MODULE using the two adjustment knobs located on the side of the fixture.
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## 2.2 POWER CONNECTIONS

- 220~240V: 8 units may be connected in series
- 110~120V: 4 units may be connected in series

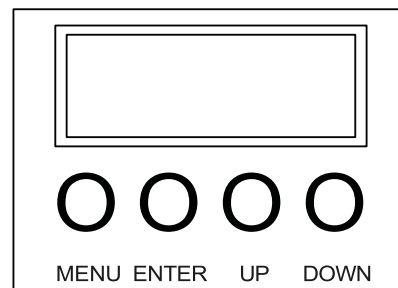
**Note:**

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.

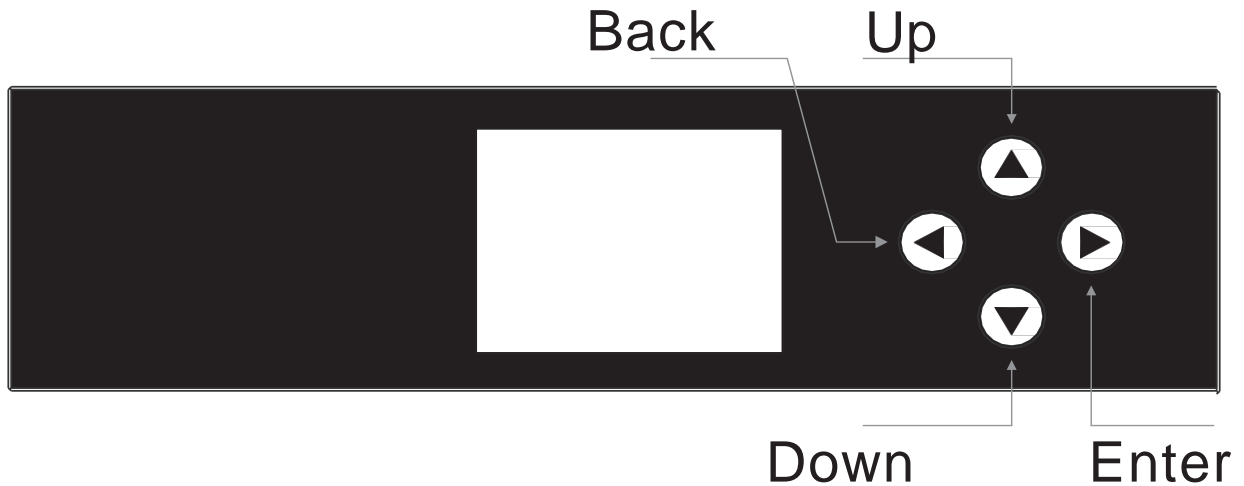
# 3 DISPLAY PANEL OPERATION

## 3.1 DISPLAY OPERATION

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

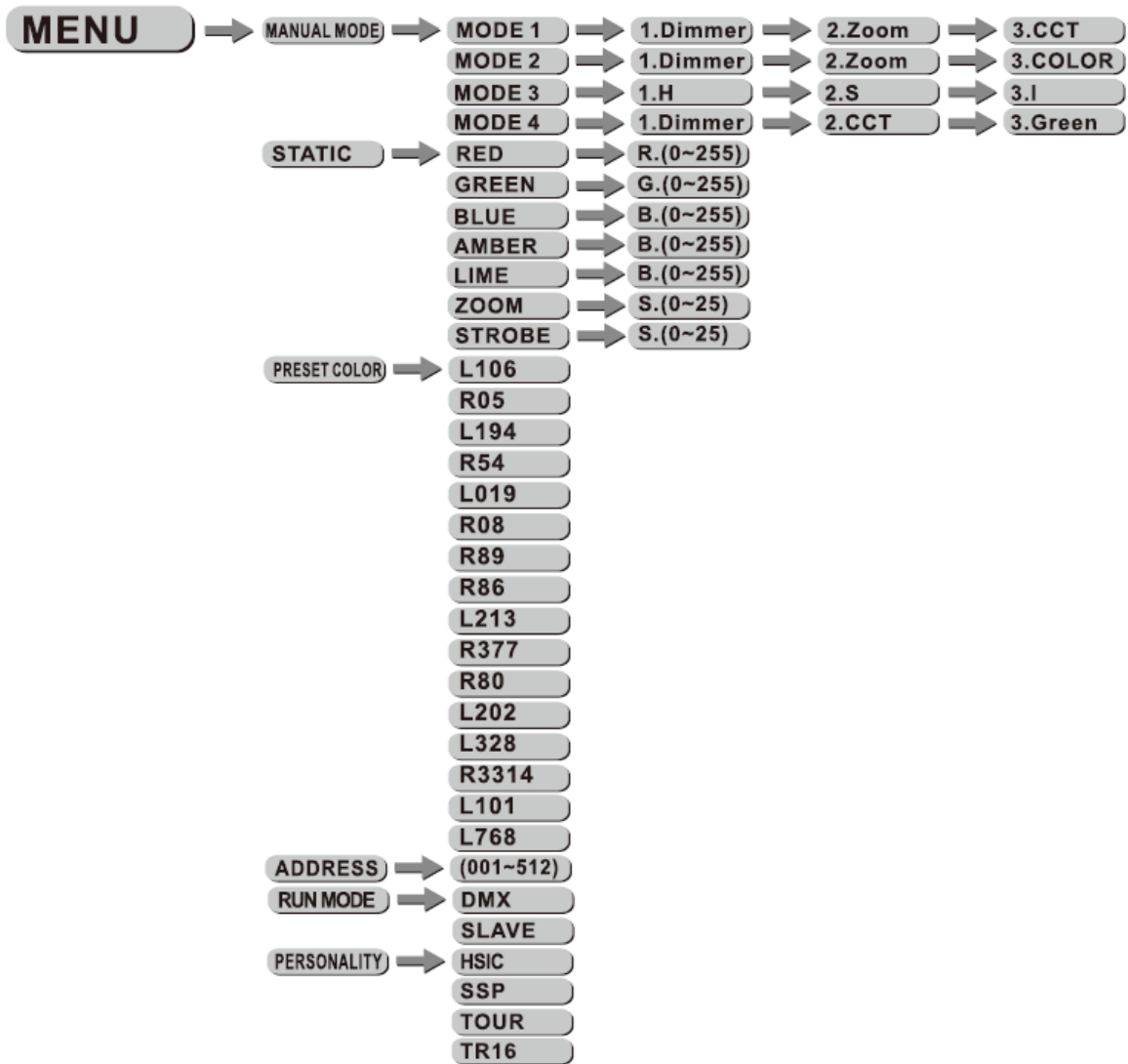


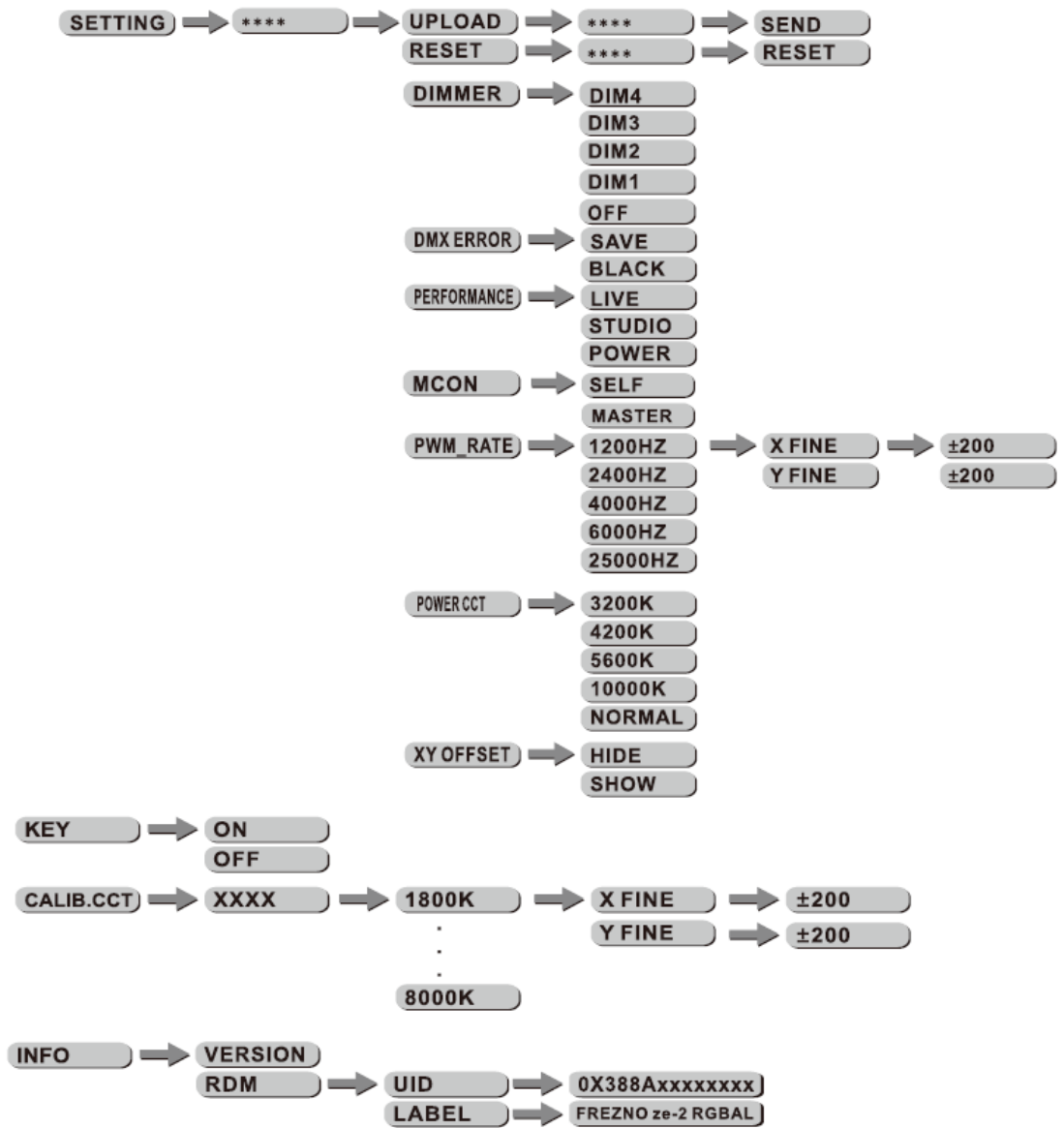
## DISPLAY OPERATION



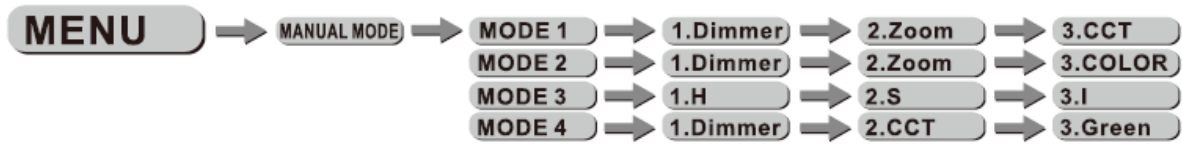
- <UP> Scroll 'UP' through the menu list or increase the value of the current function.
- <DOWN> Scroll 'DOWN' through the menu list or decrease the value of the current function.
- <BACK> Scroll through the main menu or exit current function.
- <ENTER> Enter the currently selected menu or confirm the current function value.
- To Unlock (Wake) the display:
  1. Keep pressing BACK for 5 seconds, until the display shows password prompt
  2. Press "<UP> <DOWN><UP><DOWN><ENTER>" to unlock.

### 3.2 MENU MAP



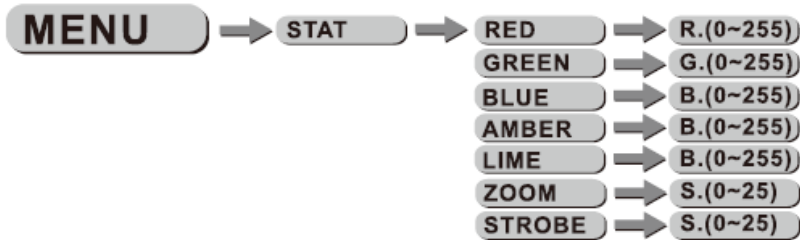


### 3.3 CONTROL KNOB SWITCH SET UP



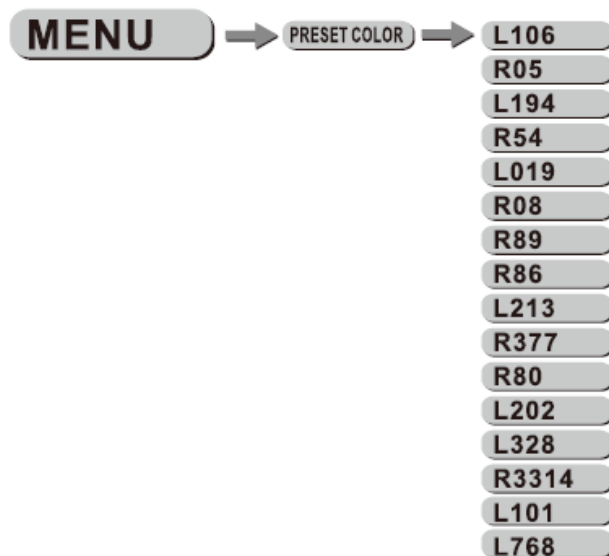
- [Manual mode], press [ENTER], enter the function you wish to use
- Press [ENTER], choose [Mode 1], order from left to right is [Dimmer] [Zoom] [CCT], choose [Mode 2], order from left to right is [Dimmer] [Zoom] [COLOR], choose [Mode 3], order from left to right is [Hue] [Saturation] [intensity], choose [Mode 4], order from left to right is [Dimmer] [CCT] [ ±Green]

### 3.4 EDIT STATIC COLOUR



- Combine [RED], [GREEN], [BLUE], [AMBER], [LIME] and [ZOOM] to create an infinite range of colors (0-255)
- Set the value of the [STROBE] (0-25Hz)

### 3.5 MIX-COLOR SETTING



- Select [ENTER] UP\DOWN from the [PRESET COLOR] menu to choose a different color mixture.



### 3.6 DMX512 SETTINGS



- Enter the [ADDRESS] mode to set the DMX ADDRESS.

### 3.7 RUN MODE



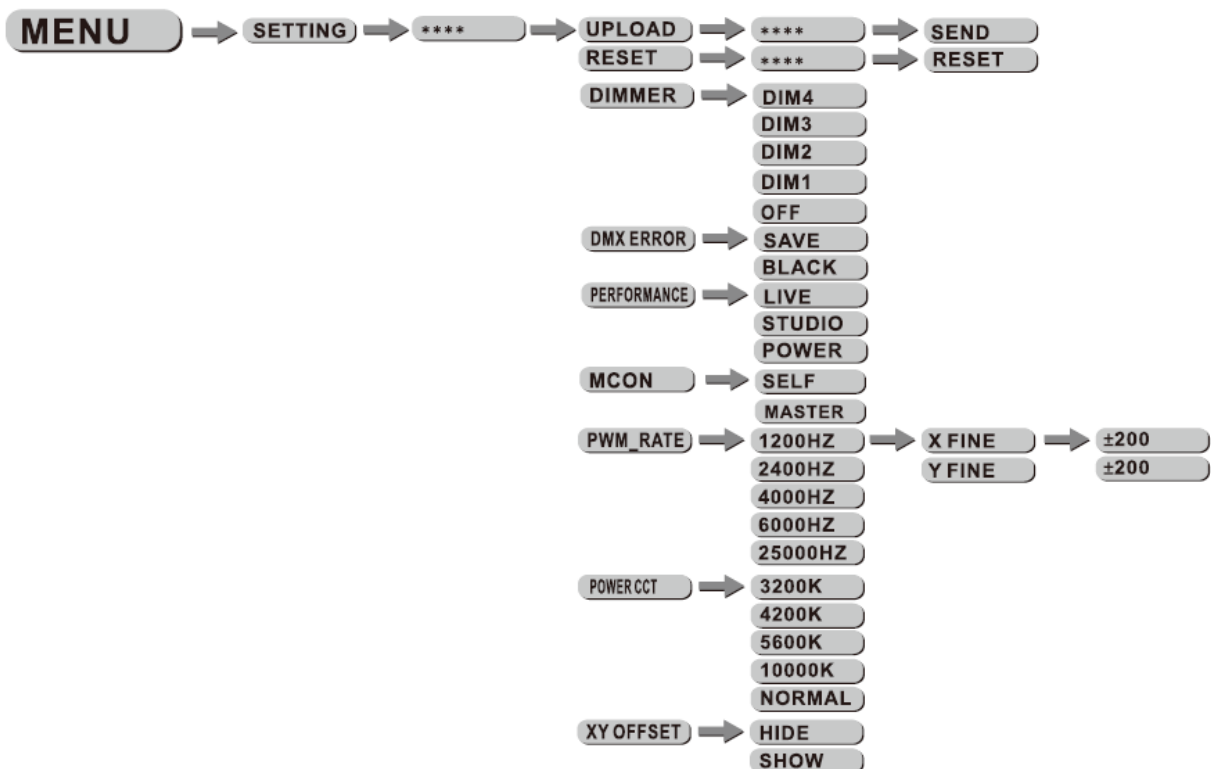
- Enter the [RUN MODE] mode to set working mode.
- [DMX] mode is for using the DMX512 controller to control the fixtures.
- [SLAVE] mode is for Master - Slave operation.

### 3.8 PERSONALITY



- Enter the [PERSONALITY] mode to select DMX mode: [HSIC], [SSP], [TOUR], [TR16].

### 3.9 SPECIAL SETTINGS



- [SETTING] This menu allows the user to adjust key operation settings for this fixture.
- Select [UPLOAD] to upload the custom programs from the current MASTER unit to the SLAVE units.
- To reset custom modes to default values, select [RESET].  
Note: [UC]/[RGBW]/[CALIB.C] can't reset
- [COLOR] is used to activate/deactivate the color calibration functions. When [RGBW] is selected, RGB = 255,255,255, the color is displayed as calibrated in CALIB.C -- RGBW. When [COLOR] is set [OFF], RGB = 255,255,255, the RGB values are not adjusted, and the output is most powerful. When [UC] is selected, the RGB output is adjusted to a standard preset universal color which balances fixtures from different generations.  
Note: [COLOR] works only when [NORMAL] is chosen at [FULL POWER CCT]
- Select [DIM1], [DIM2], [DIM3] or [DIM4] for different dimming speeds. ([DIM4] is the slowest dimming speed)
- [DMX ERROR] Choose [SAVE] to save the last DMX data in case of DMX signal error. Choose [BLACK] to blackout in case of DMX signal error.
- <PERFORMANCE> This setting allows the user to select the performance characteristics of the fixture.
- [MCON] This function allows the user to select whether the fixture will send DMX data to other fixtures during stand-alone operation. The [MAST] setting allows data to be sent to other fixtures. The [SELF] setting is default and will not send DMX data to other fixtures.
- <PWM\_RATE> sets the PWM refresh rate, press UP/DOWN to choose <600Hz>, <1200Hz>, <2000Hz>, <4000Hz>, <6000Hz>, <25000Hz>  
Note: with refresh rate increased, gray rate of dimmer will be reduced, (that means high refresh rate, low gray rate), when it's <4000Hz>, CV3 is invalid, when it's <25000Hz>, CV1, CV2, CV3 are invalid, so please lower PWM rate to increase gray rate as necessary.
- <FULL POWER CCT> is the color temperature choose bottom, press UP/DOWN to choose, under full power, <3200K>, <4200K>, <5600K>, <10000K> can be chosen, when <COLOR> is chosen, <3200K>, <4200K>, <5600K>, <10000K> will not work.

### 3.10 ACTIVATE THE PASSWORD

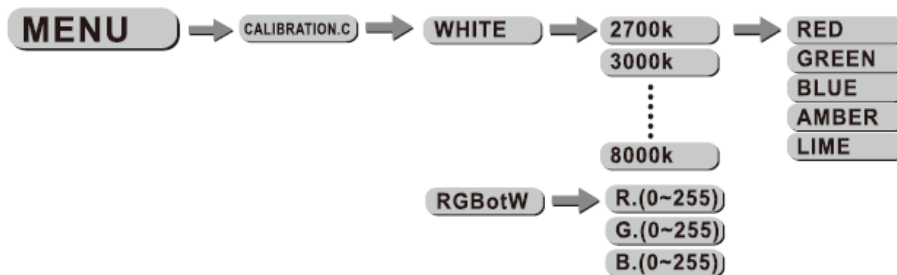


- Enter the [KEY] mode to select whether the access password is on or off.
- When the fixture is set as PASS [ON], after 30 seconds or when the fixture is next turned off, the fixture will need an access password to enter the display menu control.

**Note:** The factory access password is [ UP ] + [ DOWN ] + [ UP ] + [ DOWN ], then press [ENTER] to confirm the access.

### 3.11 BALANCE PARAMETERS AND CORRECTION MENU DISPLAY

Press [MENU] button to enter the password confirmation, to enter the correct password <UP+ DOWN+ UP+ DOWN>  
The correct password will enter show submenu



- Use [CALIB.C] to select different color temperatures.
- There are pre-programmed White colors that can be edited by using [RED], [GREEN], [BLUE], [AMBER]. & [LIME].
- Enter the [RGBtoW] to adjust the RGB parameter to make different whites.
- When the new setting is activated, When the DMX controller outputs RGB = 255,255,255, the white color will be made by the actual RGB values in the [RGBtoW] setting.

### 3.12 INFO



- Press [ENTER] and go to [INFO], you can check [VERSION], press [DOWN]/[UP] to check [RDM], [LABEL], [MAC], press [MENU] and back.

### 3.13 CALIB.CCT



- Enter the [CCT] to select different color temperatures: <1800K>....<8000K>.

# 4 USING A DMX512 CONTROLLER

## 4.1 CHANNEL ASSIGNMENT

- Note: This product has four DMX512 channel configurations: [HSIC], [SSP], [TOUR], [TR16].

HSIC		
CHANNEL	VALUE	FUNCTION
1	0 <=> 255	INTENSITY
2	0 <=> 255	HUE
3	0 <=> 255	HUE FINE
4	0 <=> 255	SATURATION
5		CCT
	0 <=> 10	NO FUNCTION
	11 <=> 28	1800K
	29 <=> 46	2200K
	47 <=> 64	2700K
	65 <=> 82	3000K
	83 <=> 100	3200K
	101 <=> 118	3500K
	119 <=> 136	4000K
	137 <=> 154	4200K
	155 <=> 172	4500K
	173 <=> 190	5600K
	191 <=> 208	6000K
	209 <=> 226	6500K
	227 <=> 244	7200K
245 <=> 255	8000K	
6		STROBE
	0 <=> 9	NO FUNCTION
	10 <=> 99	STROBE FROM (SLOW TO FAST, 0-25Hz)
	100 <=> 109	NO FUNCTION
	110 <=> 179	LIGHTNING STROBE
	180 <=> 189	NO FUNCTION
	190 <=> 255	RANDOM SROBE
7	0 <=> 255	ZOOM
8		DIMMER SPEED
	0 <=> 9	PRESET DIMMER SPEED FROM DISPLAY MENU
	10 <=> 29	OFF
	30 <=> 69	DIM1
	70 <=> 129	DIM2
	130 <=> 189	DIM3
	190 <=> 255	DIM4

## SSP

CHANNEL	VALUE	FUNCTION
1	0 <=> 255	MASTER DIMMER
2	0 <=> 255	RED
3	0 <=> 255	GREEN
4	0 <=> 255	BLUE
5	0 <=> 255	AMBER
6	0 <=> 255	LIME
7		PRESET COLOR
	0 <=> 10	NO FUNCTION
	11 <=> 20	L106
	21 <=> 30	R05
	31 <=> 40	L194
	41 <=> 50	R54
	51 <=> 60	L019
	61 <=> 70	R08
	71 <=> 80	R89
	81 <=> 90	R86
	91 <=> 100	L213
	101 <=> 110	R377
	111 <=> 120	R80
	121 <=> 130	L202
	131 <=> 140	L328
	141 <=> 150	R3314
	151 <=> 160	L101
	161 <=> 170	L768
	171 <=> 255	NO FUNCTION
8		STROBE
	0 <=> 9	NO FUNCTION
	10 <=> 99	STROBE FROM (SLOW TO FAST, 0-25Hz)
	100 <=> 109	NO FUNCTION
	110 <=> 179	LIGHTNING STROBE
	180 <=> 189	NO FUNCTION
	190 <=> 255	RANDOM SROBE
9	0 <=> 255	ZOOM
10		DIMMER SPEED
	0 <=> 9	PRESET DIMMER SPEED FROM DISPLAY MENU
	10 <=> 29	OFF
	30 <=> 69	DIM1
	70 <=> 129	DIM2
	130 <=> 189	DIM3
	190 <=> 255	DIM4

## TOUR

CHANNEL	VALUE	FUNCTION
1	0 <=> 255	MASTER DIMMER
2	0 <=> 255	RED
3	0 <=> 255	GREEN
4	0 <=> 255	BLUE
5	0 <=> 255	AMBER
6	0 <=> 255	LIME
7		PRESET COLOR
	0 <=> 10	NO FUNCTION
	11 <=> 20	L106
	21 <=> 30	ROS
	31 <=> 40	L194
	41 <=> 50	R54
	51 <=> 60	L019
	61 <=> 70	ROS
	71 <=> 80	R89
	81 <=> 90	R86
	91 <=> 100	L213
	101 <=> 110	R377
	111 <=> 120	R80
	121 <=> 130	L202
	131 <=> 140	L328
	141 <=> 150	R3314
	151 <=> 160	L101
	161 <=> 170	L768
	171 <=> 255	NO FUNCTION
	8	
0 <=> 10		NO FUNCTION
11 <=> 30		RED 100% / GREEN UP / BLUE 0%
31 <=> 50		RED DOWN / GREEN 100% / BLUE 0%
51 <=> 70		RED 0% / GREEN 100% / BLUE UP
71 <=> 90		RED 0% / GREEN DOWN / BLUE 100%
91 <=> 110		RED UP / GREEN 0% / BLUE 100%
111 <=> 130		RED 100% / GREEN 0% / BLUE DOWN
131 <=> 150		RED 100% / GREEN UP / BLUE UP
151 <=> 170		RED DOWN / GREEN DOWN / BLUE 100%
171 <=> 195		ALL LED AT FULL OUTPUT

CHANNEL	VALUE	FUNCTION
	196 <=> 199	1800K
	200 <=> 203	2200K
	204 <=> 207	2700K
	208 <=> 211	3000K
	212 <=> 215	3200K
	216 <=> 219	3500K
	220 <=> 223	4000K
	224 <=> 227	4200K
	228 <=> 231	4500K
	232 <=> 235	5600K
	236 <=> 239	6000K
	240 <=> 243	6500K
	244 <=> 247	7200K
	248 <=> 255	8000K
	9	
0 <=> 9		NO FUNCTION
10 <=> 99		STROBE FROM (SLOW TO FAST, 0-25Hz)
100 <=> 109		NO FUNCTION
110 <=> 179		LIGHTNING STROBE
180 <=> 189		NO FUNCTION
190 <=> 255		RANDOM SROBE
10	0 <=> 255	ZOOM
11	0 <=> 40	NO FUNCTION
	41 <=> 60	AUTO 1
	61 <=> 80	AUTO 2
	81 <=> 100	AUTO 3
	101 <=> 120	AUTO 4
	121 <=> 140	AUTO 5
	141 <=> 160	AUTO 6
	161 <=> 180	AUTO 7
	181 <=> 200	AUTO 8
	201 <=> 220	AUTO 9
221 <=> 255	AUTO 10	
12	0 <=> 255	AUTO SPEED ADJUSTMENT
13		DIMMER SPEED
	0 <=> 9	PRESET DIMMER SPEED FROM DISPLAY MENU
	10 <=> 29	OFF
	30 <=> 69	DIM1
	70 <=> 129	DIM2
	130 <=> 189	DIM3
	190 <=> 255	DIM4

## TR16

CHANNEL	VALUE	FUNCTION
1	0 <=> 255	MASTER DIMMER
2	0 <=> 255	MASTER DIMMER FINE
3	0 <=> 255	RED
4	0 <=> 255	RED FINE
5	0 <=> 255	GREEN
6	0 <=> 255	GREEN FINE
7	0 <=> 255	BLUE
8	0 <=> 255	BLUE FINE
9	0 <=> 255	AMBER
10	0 <=> 255	AMBER FINE
11	0 <=> 255	LIME
12	0 <=> 255	LIME FINE
13		PRESET COLOR
	0 <=> 10	NO FUNCTION
	11 <=> 20	L106
	21 <=> 30	ROS
	31 <=> 40	L194
	41 <=> 50	R54
	51 <=> 60	L019
	61 <=> 70	ROS
	71 <=> 80	R89
	81 <=> 90	R86
	91 <=> 100	L213
	101 <=> 110	R377
	111 <=> 120	R80
	121 <=> 130	L202
	131 <=> 140	L328
	141 <=> 150	R3314
	151 <=> 160	L101
161 <=> 170	L768	
171 <=> 255	NO FUNCTION	
14		COLOR MACRO
	0 <=> 10	NO FUNCTION
	11 <=> 30	RED 100% / GREEN UP / BLUE 0%
	31 <=> 50	RED DOWN / GREEN 100% / BLUE 0%
	51 <=> 70	RED 0% / GREEN 100% / BLUE UP
	71 <=> 90	RED 0% / GREEN DOWN / BLUE 100%
	91 <=> 110	RED UP / GREEN 0% / BLUE 100%
	111 <=> 130	RED 100% / GREEN 0% / BLUE DOWN
	131 <=> 150	RED 100% / GREEN UP / BLUE UP



CHANNEL	VALUE	FUNCTION
14	151 <=> 170	RED DOWN / GREEN DOWN / BLUE 100%
	171 <=> 195	ALL LED AT FULL OUTPUT
	196 <=> 199	1800K
	200 <=> 203	2200K
	204 <=> 207	2700K
	208 <=> 211	3000K
	212 <=> 215	3200K
	216 <=> 219	3500K
	220 <=> 223	4000K
	224 <=> 227	4200K
	228 <=> 231	4500K
	232 <=> 235	5600K
	236 <=> 239	6000K
	240 <=> 243	6500K
	244 <=> 247	7200K
	248 <=> 255	8000K
15		STROBE
	0 <=> 9	NO FUNCTION
	10 <=> 99	STROBE FROM (SLOW TO FAST, 0-25Hz)
	100 <=> 109	NO FUNCTION
	110 <=> 179	LIGHTNING STROBE
	180 <=> 189	NO FUNCTION
	190 <=> 255	RANDOM SROBE
16	0 <=> 255	ZOOM
17	0 <=> 40	NO FUNCTION
	41 <=> 60	AUTO 1
	61 <=> 80	AUTO 2
	81 <=> 100	AUTO 3
	101 <=> 120	AUTO 4
	121 <=> 140	AUTO 5
	141 <=> 160	AUTO 6
	161 <=> 180	AUTO 7
	181 <=> 200	AUTO 8
	201 <=> 220	AUTO 9
	221 <=> 255	AUTO 10
18	0 <=> 255	AUTO SPEED ADJUSTMENT
19		DIMMER SPEED
	0 <=> 9	PRESET DIMMER SPEED FROM DISPLAY MENU
	10 <=> 29	OFF
	30 <=> 69	DIM1
	70 <=> 129	DIM2
	130 <=> 189	DIM3
	190 <=> 255	DIM4