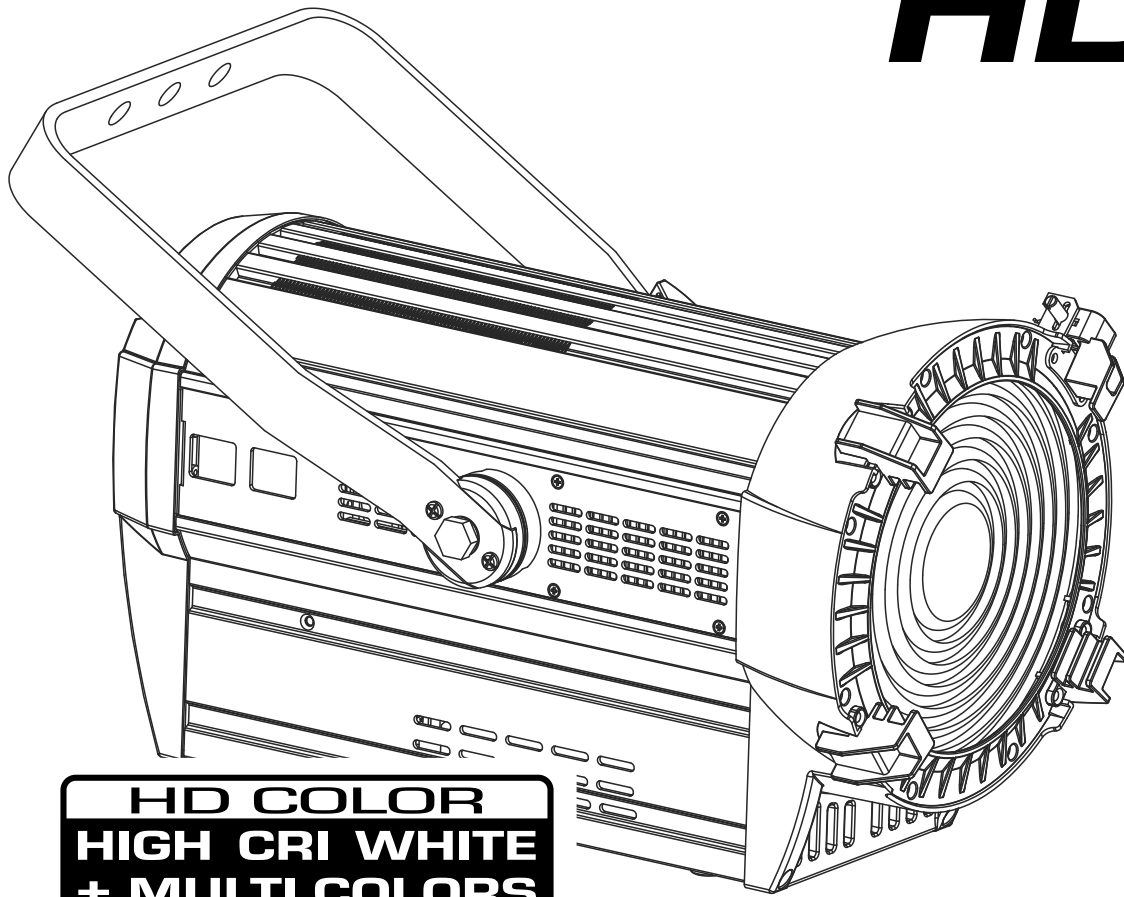


# **BT-THEATRE**

## **HD1**



**HD COLOR  
HIGH CRI WHITE  
+ MULTI COLORS  
RGBAL COLOR SYSTEM**

## **ENGLISH** Operation Manual

**CE**

*Version: 1.0*

**BriteQ**<sup>®</sup>  
LIGHT RESEARCH



### **EN - DISPOSAL OF THE DEVICE**

Dispose of the unit and used batteries in an environment friendly manner according to your country regulations.

### **FR - DÉCLASSER L'APPAREIL**

Débarrassez-vous de l'appareil et des piles usagées de manière écologique Conformément aux dispositions légales de votre pays.

### **NL - VERWIJDEREN VAN HET APPARAAT**

Verwijder het toestel en de gebruikte batterijen op een milieuvriendelijke manier conform de in uw land geldende voorschriften.

### **DU - ENTSORGUNG DES GERÄTS**

Entsorgen Sie das Gerät und die Batterien auf umweltfreundliche Art und Weise gemäß den Vorschriften Ihres Landes.

### **ES - DESHACERSE DEL APARATO**

Reciclar el aparato y pilas usadas de forma ecologica conforme a las disposiciones legales de su país.

### **PT - COMO DESFAZER-SE DA UNIDADE**

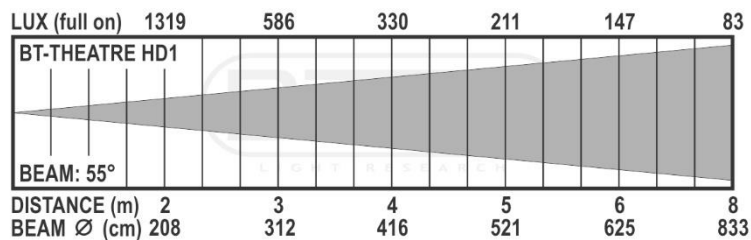
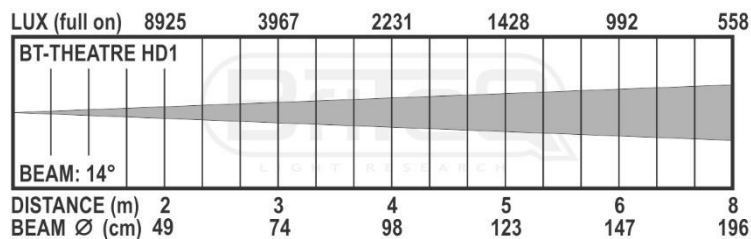
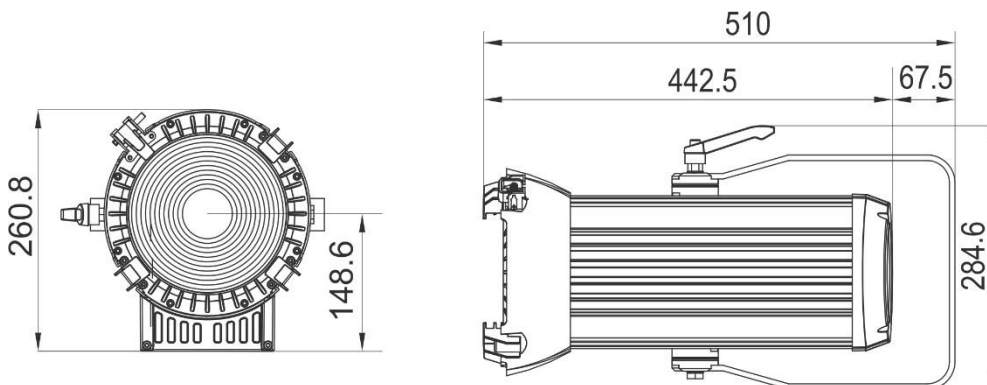
Tente reciclar a unidade e as pilhas usadas respeitando o ambiente e em conformidade com as normas vigentes no seu país.

# 1. PRODUCT SPECIFICATIONS

This unit is radio-interference suppressed. This product meets the requirements of the current European and national guidelines. Conformity has been established and the relevant statements and documents have been deposited by the manufacturer.

## 1.1 SPECIFICATIONS

<b>Mains Input:</b>	AC 100 - 240V, 50/60Hz
<b>Power consumption:</b>	240 Watts
<b>Power connections:</b>	PowerCon input + PowerCon output
<b>DMX connections:</b>	3&5 pin-XLR male / female inputs + outputs
<b>DMX modes:</b>	4 modes (8CH + 10CH + 13CH + 19CH)
<b>Lamp:</b>	LED, 200W RGBAL (Red, Green, Blue, Amber, Lime)
<b>White color presets:</b>	1800K → 8000K
<b>CRI color rendering:</b>	>90 (2700K ~ 4500K) ~ >85 (5600K ~ 8000K)
<b>Beam Angle:</b>	electronic zoom 14° ~ 55°
<b>IP-Rating:</b>	IP20
<b>Cooling:</b>	heat pipe + forced low speed fan cooling
<b>Size:</b>	See drawing
<b>Weight:</b>	7.6 kg



The information might be modified without prior notice  
 You can download the latest version of this user manual on our website: [www.briteq-lighting.com](http://www.briteq-lighting.com)

## 1.2 SAFETY WARNING

### IMPORTANT:

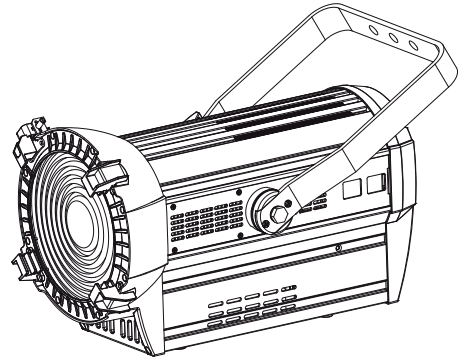
- This product must be installed by a qualified professional.
- All maintenance must be carried out by a qualified electrician.
- A minimum distance of 0.5m must be maintained between the equipment and a combustible surface.
- The product must always be operated in a well ventilated area.
- DO NOT stare 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.

## 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.



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.

### 2.2 POWER CONNECTIONS

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

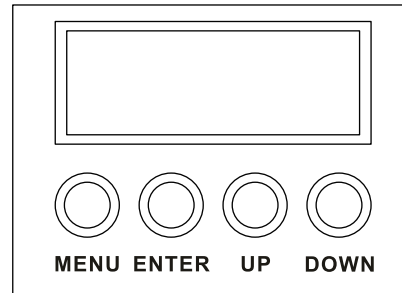
**Note:**

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.

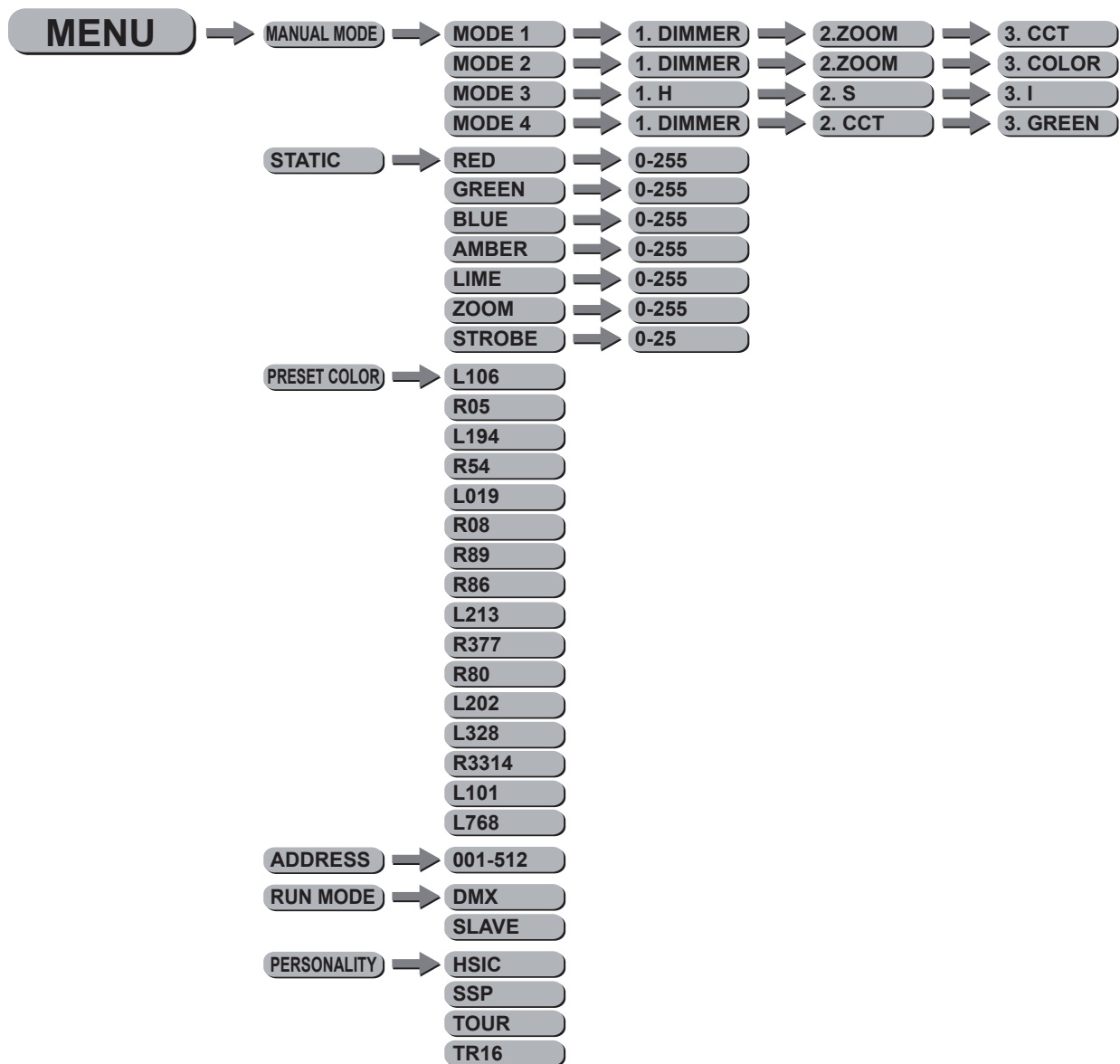
# 3 DISPLAY PANEL OPERATION

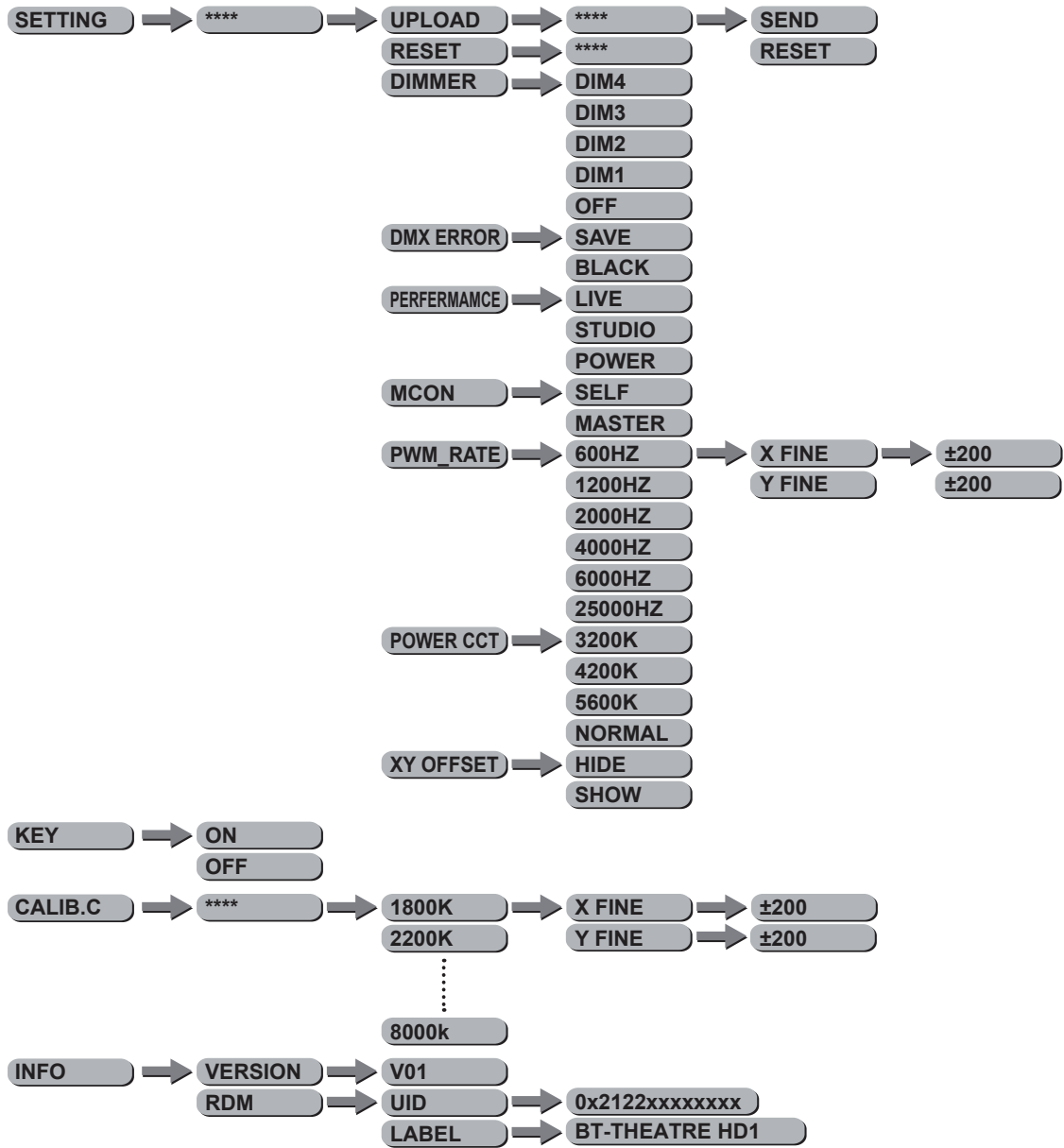
## 3.1 DISPLAY OPERATION

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

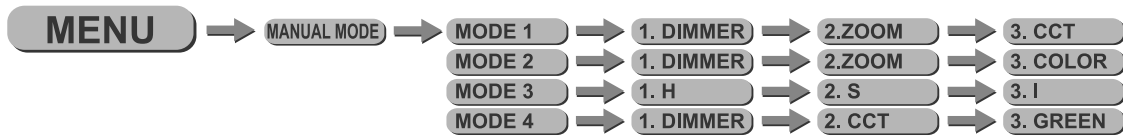


## 3.2 MENU MAP

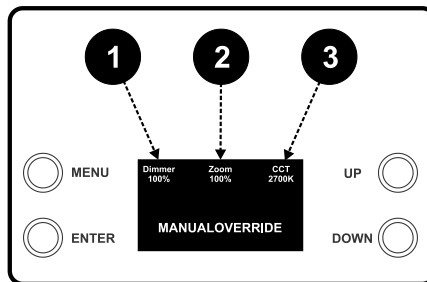




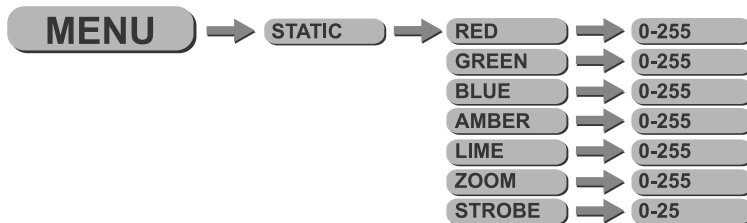
### 3.3 CONTROL KNOB SWITCH SET UP



- **【Manual mode】** ,press **【ENTER】** ,enter into control knob switch set up
- 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】** **【CCT】** , choose **【Mode 3】** ,order from left to right is **【Hue】** **【Saturation】** **【Intersity】** , choose **【Mode 4】** , order from left to right is **【Dimmer】** **【CCT】** **【±Green】**

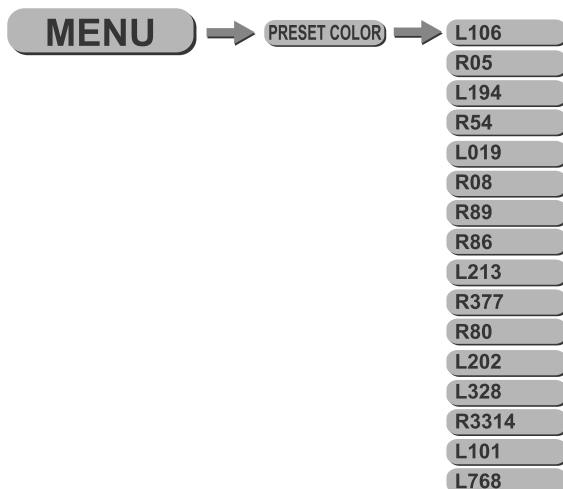


### 3.4 EDIT STATIC COLOUR



- 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\DOMN from the **【PRESET COLOR】** menu to choose different color mixture



### 3.6 DMX512 SETTINGS



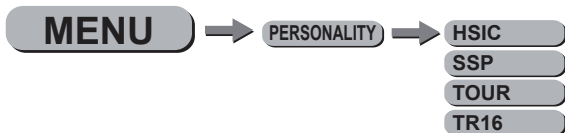
- Enter the **【ADDRESS】** mode to set the DMX ADDRESS.

### 3.7 RUN MODE



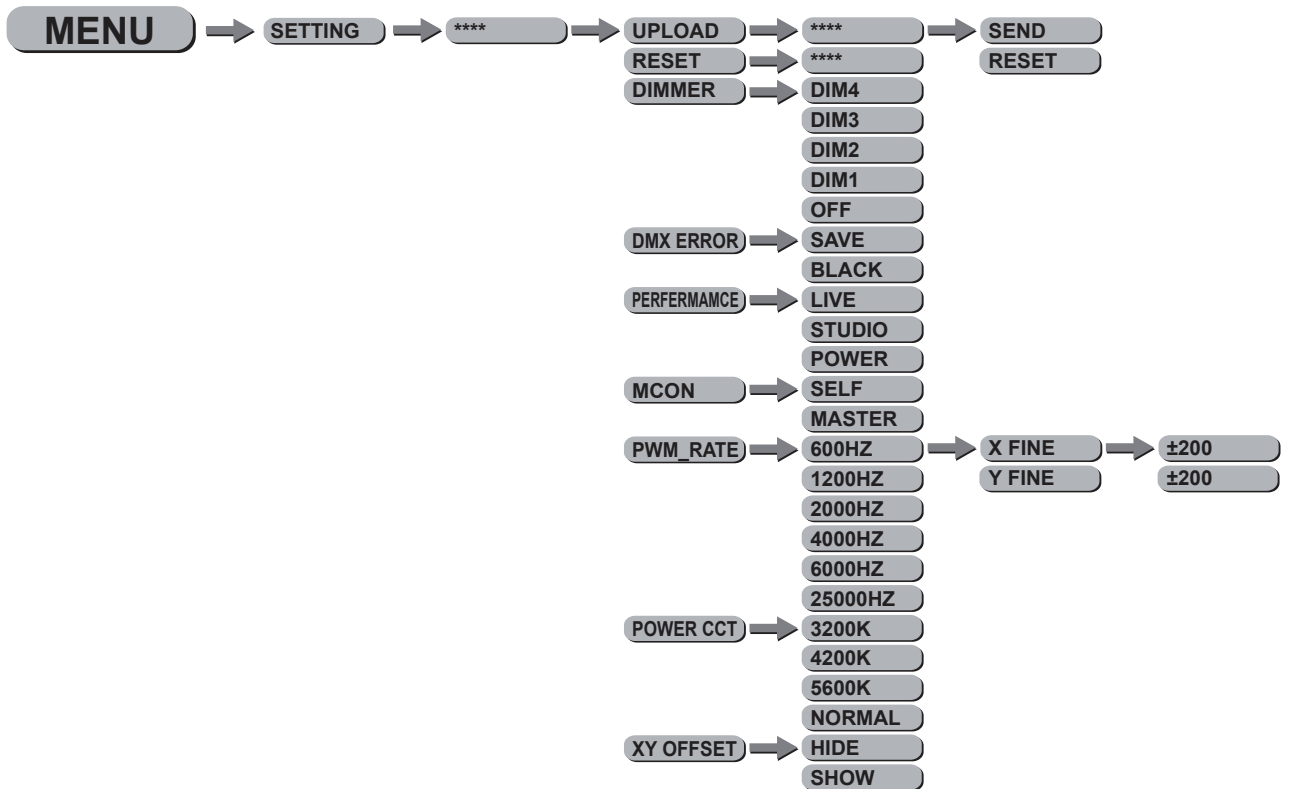
- Enter the **【RUN MODE】** mode to set working mode.
- **【DMX】** mode is for using the DMX512 controller to control the fixtures.
- **【SLAVE】** mode is for Master -- Slave operation.

### 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.
- In order to reset custom modes to default values select [RESET] .  
Note: [UC]\[RGBW]\[CALIB.C] can't reset
- [COLOR] is for activate/unactivate the color calibration functions. When [RGBW] is selected, on RGB = 255,255,255, the color is displayed as calibrated in CALIB.C -- 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.  
Note: [COLOR] work only when choose [NORMAL] at [FULL POWER CCT]
- Select [DIM1], [DIM2], [DIM3] or [DIM4] for different dimming speeds. ([DIM4] is the slowest dimming speed)
- [DMX ERROR] Choose [SAVE] in order to save the last DMX data in case of DMX signal error. Choose [BLACK] in order 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> is PWM refresh rate bottom, press UP/DOWN to choose <600Hz>, <1200Hz>, <2000Hz>, <4000Hz>, <6000Hz>, <25000Hz>  
Note: with refresh rate increased, gray rate of dimmer will be reduced, (that's 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 in necessary.
- <FULL POWER CCT> is the color temperature choose bottom, press UP/DOWN to choose, under full power, <3200K>, <4200K>, <5600K> can be chosen, when choose <COLOR>, <3200K>, <4200K>, <5600K> are not work, but choose <NORMAL>.

### 3.10 ACTIVATE THE PASSWORD



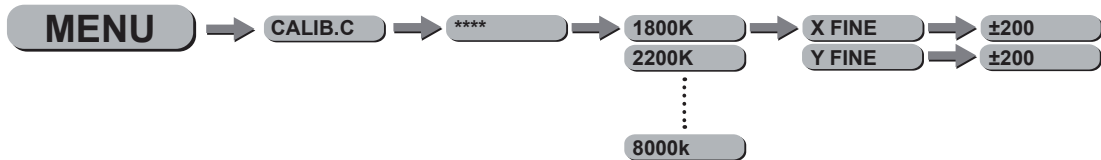
- Enter the **[KEY]** mode to select whether the access password is on or off.
- When the fixture is set as PASS **[ON]** , after 30 seconds or turn on the fixture next time, the fixture will need an access password to enter the display menu control.

**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 >

Key, press the **【MENU】** in, the correct password will enter show submenu



- Enter the **【CALIB.C】** to select white color of different color temperature.

### 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.

# 4 USING A DMX512 CONTROLLER

## 4.1 CHANNEL ASSIGNMENT

- Note: This product have four DMX512 channel configuration: **【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	LIME
6	0 ↔ 255	AMBER
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	LIME
6	0 ↔ 255	AMBER
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		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
	151 ↔ 170	RED DOWN / GREEN DOWN / BLUE 100%
	171 ↔ 195	ALL LED AT FULL OUTPUT

CHANNEL	VALUE	FUNCTION
8	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		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
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	221 ↔ 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	LIME
10	0 ↔ 255	LIME FINE
11	0 ↔ 255	AMBER
12	0 ↔ 255	AMBER FINE
13		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	
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	221 ↔ 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







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