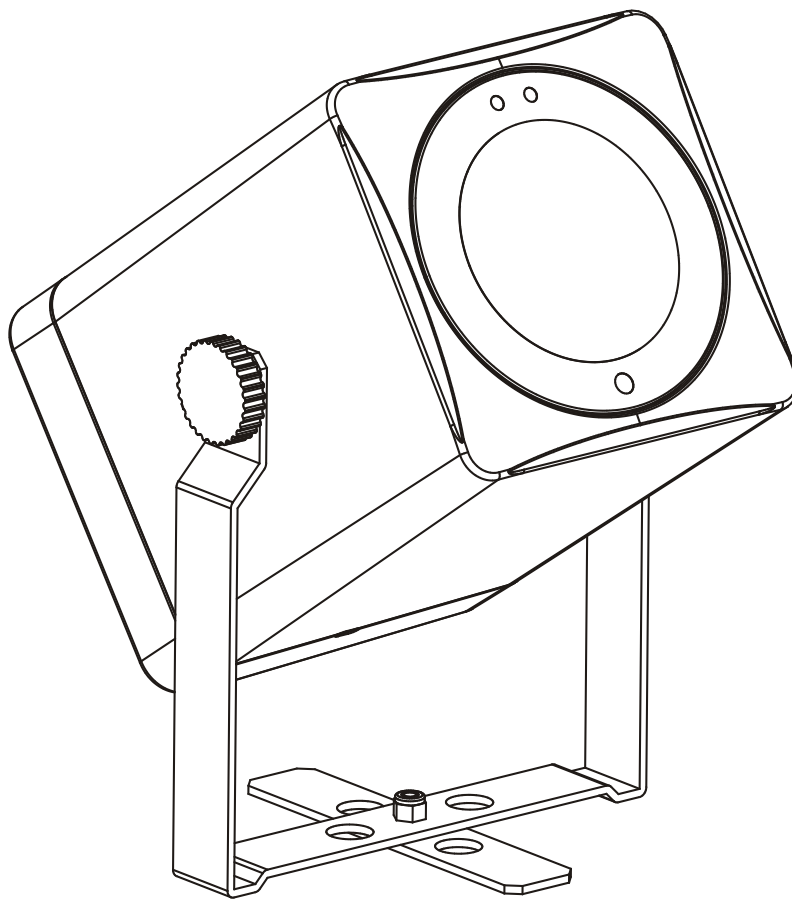


# SMARTB12IP

---

20W BATTERY POWERED ELLIPSODIAL LED



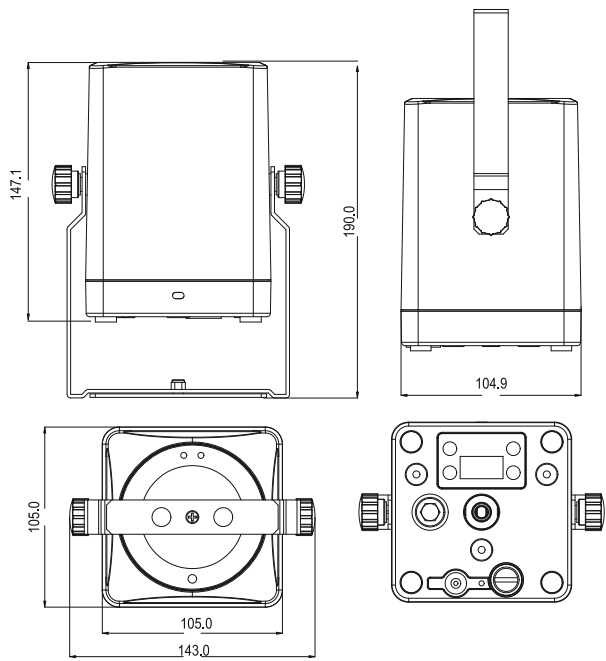
**USER MANUAL**

# 1 PRODUCT SPECIFICATIONS

## 1.1 TECHNICAL SPECIFICATIONS

LED MODULE	
VOLTAGE	18.5VDC
POWER	20W
IP RATING	IP 65
OPERATION TEMPERATURE	0℃~40℃
DIMENSIONS	143X105X190mm
	1Kg

## 1.2 SIZE CHART



## 1.3 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 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**

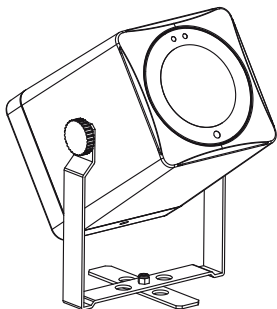
---

- Do not operate in a sealed enclosure with insufficient air flow
- Do not operate in an environment with temperatures in excess of 45deg. C.
- Do not operate store in close proximity to source of fire.
- Always charge with supplied charger
- Do not charge for more than 24 hours
- Always turn off battery storage switch when storing for longer than 7 days
- Always store with full load
- Always charge with flightcase open
- Always carry out one full discharge and charge cycle every 3 months
- Always store in a dry environment away from direct sunlight

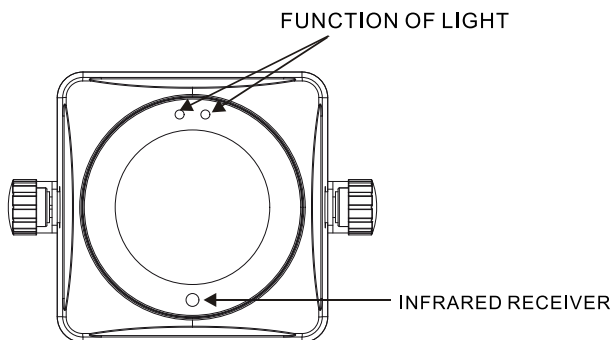
## 2 GETTING STARTED

### 2.1 OPERATING POSITION

Upright operation



### 2.2 GENERAL OPERATION

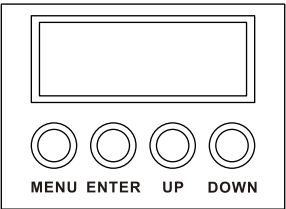


- 1、 When charging, power light is red, when finish charging, power light is green
- 2、 When turn on fixture, it' s static mode, red light is off.
- 3、 If no DMX signal when turn on fixture, green light is flickering
- 4、 If there is DMX signal when turn on fixture, green light is always on
- 5、 When it' s under infrared mode and there is infrared signal, red light is flickering

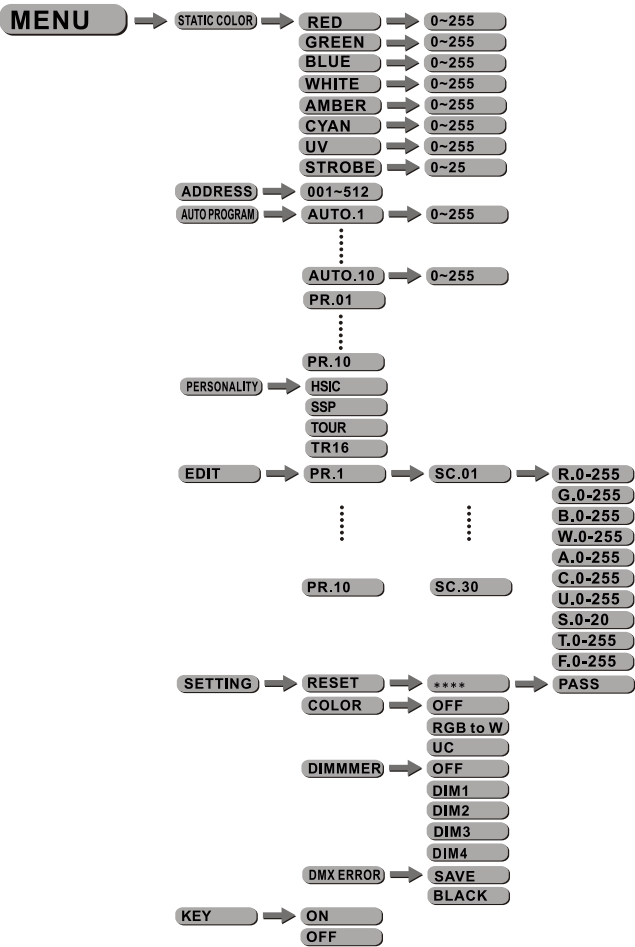
# 3 DISPLAY PANEL OPERATION

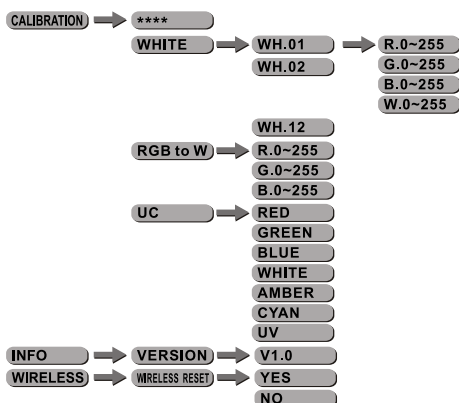
## 3.1 DISPLAY OPERATION

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



## 3.2 MENU MAP





### 3.3 EDIT STATIC COLOUR



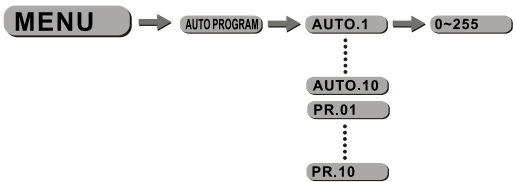
- Combine **【RED】** , **【GREEN】** , **【BLUE】** , **【WHITE】** , **【AMBER】** , **【CYAN】** and **【UV】** to create an infinite range of colors (0-255)
- Set the value of the **【Strobe】** (0-20Hz)

### 3.4 DMX512 SETTINGS



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

### 3.5 ACTIVATING AUTO PROGRAMS



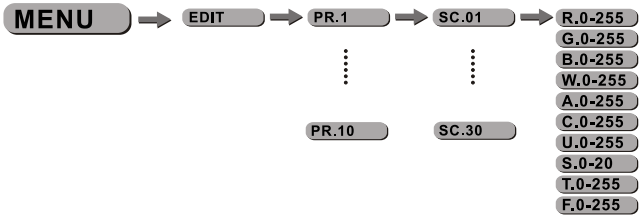
- Select the target **AUTO PROGRAM** program and press **ENTER** .
- Programs **AUTO.01** to **AUTO.10** are fully pre-programmed and will not be altered by changes in **EDIT** mode.
- Programs **PR.01** to **PR.10** are fully pre-programmed and can be edited in **EDIT** mode.

### 3.6 PERSONALITY



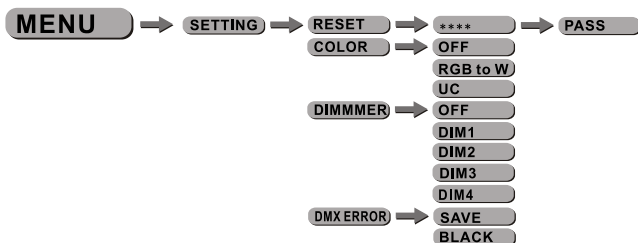
- Enter the **PERSONALITY** mode to select DMX mode: **HSIC** **SSP** **TOUR** , **TR16** .

### 3.7 EDITING CUSTOM PROGRAMS



- Enter the **EDIT** mode to edit the custom programs **PR.01** to **PR.10** .
- Each custom program has 30 steps that can be edited.
- Each step allows the creation of a scene using **RED** , **GREEN** , **BLUE** , **WHITE** , **AMBER** , **CYAN** , **UV** , **STRB** , **TIME** & **FADE** .

## 3.8 SPECIAL SETTINGS



- [SETTING]...this menu allows the user to adjust key operation settings for this fixture.
- In order to reset custom modes to default values select [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.
- 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.

## 3.9 ACTIVATE THE PASSWORD



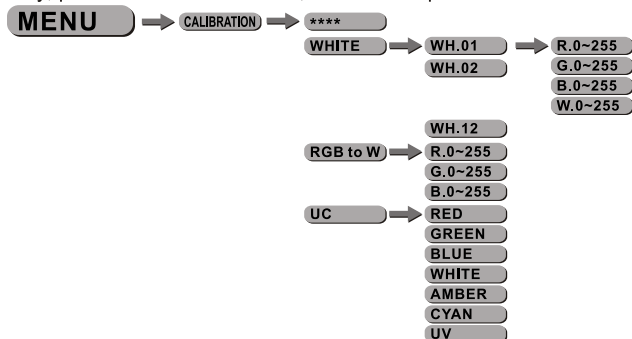
- Enter the **KEY** mode to select whether the access password is on or off.
- When the fixture is set as PASS **ON** , after 30 seconds or turn on the fixture next time, the fixture will need an access password to enter the display menu control.

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



### 3.10 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 **【CALIBRATION】** to select white color of different color temperature.
- There are 12 pre-programmed White colors can be edited by using **【RED】** , **【GREEN】** , **【BLUE】** & **【WHITE】** .

Note: if CCT data is changed in **【WHITE】** from WT.01 to WT.12, CCT of according channel will be changed also

- Enter the **【RGB to W】** 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 **【RGB to W】** .
- under **【UC】** menu, press **【ENTER】** for color correction
- Press **【ENTER】** and choose **【RED】** 、 **【GREN】** **【BLUE】** **【WHITE】** 、 **【AMBER】** **【CYAN】** and **【UV】** for correction.
- Press **【MENU】** and return to menu, and keep value automatically.

### 3.13 INFO



- Press **【ENTER】** and go to **【INFO】** ,you can check **【VERSION】** .

### 3.12 WIRELESS



- Press **【ENTER】** and enter **【WIRELESS】** ,choose **【NO】** means no reset, choose **【YES】** means reset

# 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	INTENSIYT
2	0 ⇄ 255	HUE
3	0 ⇄ 255	HUE FINE
4	0 ⇄ 255	SATURATION
5		CCT
	0 ⇄ 10	NO FUNCTION
	11 ⇄ 30	2700K
	31 ⇄ 50	3000K
	51 ⇄ 70	3200K
	71 ⇄ 90	3500K
	91 ⇄ 110	4000K
	111 ⇄ 130	4200K
	131 ⇄ 150	4500K
	151 ⇄ 170	5600K
	171 ⇄ 190	6000K
	191 ⇄ 210	6500K
	211 ⇄ 230	7200K
	231 ⇄ 255	8000K
6		SPECIAL STROBE
	0 ⇄ 9	NO FUNCTION
	10 ⇄ 50	STROBE FROM (SLOD TO FAST , 0-25Hz)
	51 ⇄ 100	NO FUNCTION
	101 ⇄ 150	LIGHTNING STROBE
	151 ⇄ 200	NO FUNCTION
	201 ⇄ 255	RANDOM SROBE
7		DIMMER SPEED
	0 ⇄ 9	NO FUNCTION
	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	WHITE
6	0 ⇔ 255	AMBER
7	0 ⇔ 255	CYAN
8	0 ⇔ 255	UV
9		SPECIAL STROBE
	0 ⇔ 9	NO FUNCTION
	10 ⇔ 50	STROBE FROM (SLOD TO FAST , 0-25Hz)
	51 ⇔ 100	NO FUNCTION
	101 ⇔ 150	LIGHTNING STROBE
	151 ⇔ 200	NO FUNCTION
	201 ⇔ 255	RANDOM SROBE
10		DIMMER SPEED
	0 ⇔ 9	NO FUNCTION
	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	WHITE
6	0 ⇄ 255	AMBER
7	0 ⇄ 255	CYAN
8	0 ⇄ 255	UV
9		MARCOS
	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
	196 ⇄ 200	2700K
	201 ⇄ 205	3000K
	206 ⇄ 210	3200K
	211 ⇄ 215	3500K
	216 ⇄ 220	4000K
	221 ⇄ 225	4200K
	226 ⇄ 230	4500K
	231 ⇄ 235	5600K
	236 ⇄ 240	6000K
	241 ⇄ 245	6500K
	246 ⇄ 250	7200K
	251 ⇄ 255	8000K
10		SPECIAL STROBE
	0 ⇄ 9	NO FUNCTION
	10 ⇄ 50	STROBE FROM (SLOD TO FAST , 0-25Hz)
	51 ⇄ 100	NO FUNCTION
	101 ⇄ 150	LIGHTNING STROBE
	151 ⇄ 200	NO FUNCTION
	201 ⇄ 255	RANDOM SROBE

CHANNEL	VALUE	FUNCTION
11		AUTO
	0 ⇔ 40	NO FUNCTION
	41 ⇔ 50	ATUO1
	51 ⇔ 60	ATUO2
	61 ⇔ 70	ATUO3
	71 ⇔ 80	ATUO4
	81 ⇔ 90	ATUO5
	91 ⇔ 100	ATUO6
	101 ⇔ 110	ATUO7
	111 ⇔ 120	ATUO8
	121 ⇔ 130	ATUO9
	131 ⇔ 140	ATUO10
	141 ⇔ 150	PROGRAM1
	151 ⇔ 160	PROGRAM2
	161 ⇔ 170	PROGRAM3
	171 ⇔ 180	PROGRAM4
	181 ⇔ 190	PROGRAM5
	191 ⇔ 200	PROGRAM6
	201 ⇔ 210	PROGRAM7
	211 ⇔ 220	PROGRAM8
	221 ⇔ 230	PROGRAM9
	231 ⇔ 255	PROGRAM10
12	0 ⇔ 255	AUTO SPEED ADJUSTMENT
13		DIMMER SPEED
	0 ⇔ 9	NO FUNCTION
	10 ⇔ 29	OFF
	30 ⇔ 69	DIM1
	70 ⇔ 129	DIM2
	130 ⇔ 189	DIM3
	190 ⇔ 255	DIM4

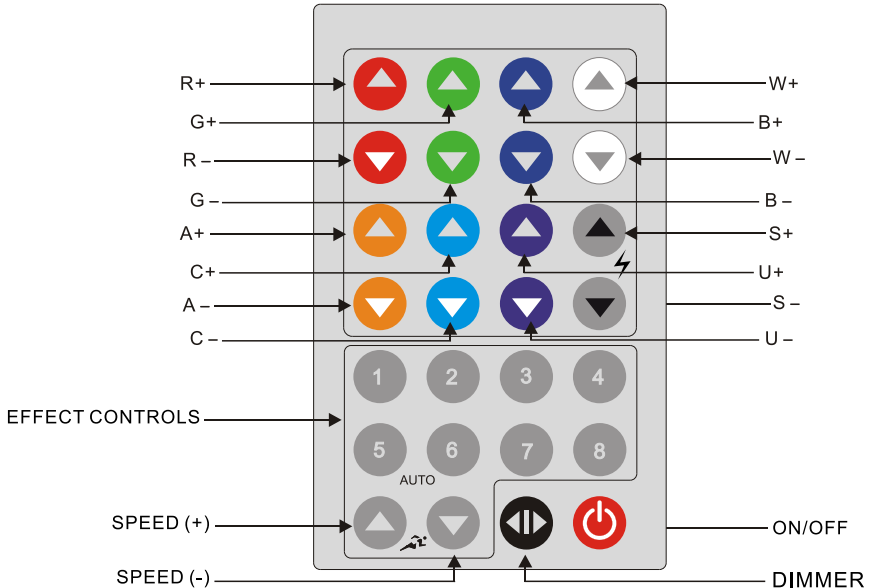
## TOUR

CHANNEL	VALUE	FUNCTION
1	0↔255	MASTER DIMMER
2	0↔255	RED
3	0↔255	RED FINE
4	0↔255	GREEN
5	0↔255	GREEN FINE
6	0↔255	BLUE
7	0↔255	BLUE FINE
8	0↔255	WHITE
9	0↔255	WHITE FINE
10	0↔255	AMBER
11	0↔255	AMBER FINE
12	0↔255	CYAN
13	0↔255	CYAN FINE
14	0↔255	UV
15	0↔255	UV FINE
16		MARCOS
	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
	196↔200	2700K
	201↔205	3000K
	206↔210	3200K
	211↔215	3500K
	216↔220	4000K
	221↔225	4200K
	226↔230	4500K
	231↔235	5600K
	236↔240	6000K
	241↔245	6500K
	246↔250	7200K
	251↔255	8000K

CHANNEL	VALUE	FUNCTION
17		SPECIAL STROBE
	0 ⇔ 9	NO FUNCTION
	10 ⇔ 50	STROBE FROM (SLOD TO FAST , 0-25Hz)
	51 ⇔ 100	NO FUNCTION
	101 ⇔ 150	LIGHTNING STROBE
	151 ⇔ 200	NO FUNCTION
	201 ⇔ 255	RANDOM SROBE
18		AUTO
	0 ⇔ 40	NO FUNCTION
	41⇔ 50	ATUO1
	51⇔ 60	ATUO2
	61⇔ 70	ATUO3
	71⇔ 80	ATUO4
	81⇔ 90	ATUO5
	91⇔ 100	ATUO6
	101⇔ 110	ATUO7
	111⇔ 120	ATUO8
	121⇔ 130	ATUO9
	131⇔ 140	ATUO10
	141⇔ 150	PROGRAM1
	151⇔ 160	PROGRAM2
	161⇔ 170	PROGRAM3
	171⇔ 180	PROGRAM4
	181⇔ 190	PROGRAM5
	191⇔ 200	PROGRAM6
	201⇔ 210	PROGRAM7
	211⇔ 220	PROGRAM8
	221⇔ 230	PROGRAM9
	231⇔ 255	PROGRAM10
19	0 ⇔ 255	AUTO SPEED ADJUSTMENT
20		DIMMER SPEED
	0 ⇔ 9	NO FUNCTION
	10 ⇔ 29	OFF
	30 ⇔ 69	DIM1
	70 ⇔ 129	DIM2
	130 ⇔ 189	DIM3
	190 ⇔ 255	DIM4

# 5 EASYPLAY REMOTE CONTROL

## 5.1 KEY FUNCTIONS



## 5.2 STATIC MODE

- It can be static dimmer, choose static mode and enter into static dimmer
- As instruction, it includes R+, R-, G+, G-, B+, B-, W+, W-, A+, A-, C+, C-, U+, U-, S+, S-, and 【R+, R-】 is for red dimmer, 【G+, G-】 is for green dimmer, 【B+, B-】 is for blue dimmer, 【W+, W-】 is for white dimmer, 【A+, A-】 is for amber dimmer, 【C+, C-】 is for cyan dimmer, 【U+, U-】 is for UV dimmer, please refer to above 【RED】、【GREEN】、【BLUE】、【WHITE】、【AMBR】、【CYAN】 and 【UV】 to adjust

## 5.3 EFFECT CONTROLS

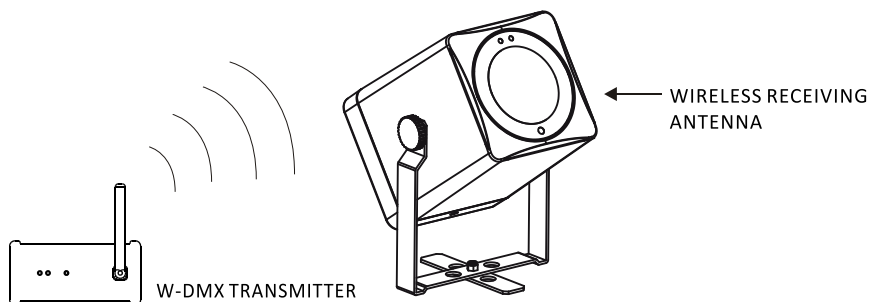
- Select from 【EFFECTKEY 01】 to 【EFFECTKEY 08】 to play required play function (see section 2.3.3 for further information on how to patch 【EFFECTKEY】 )
- Select 【SPEED (+)】 or 【SPEED (-)】 to adjust speed play function.
- It is not possible to adjust the light level of the EFFECT programs using the 【DIMMER】 keys.

## 5.4 DIMMER

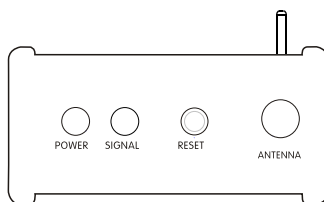
- There is a bottom for all color 【RGBWACU】 dimmer, lower right corner is a on/off bottom for fixture on/off operation.



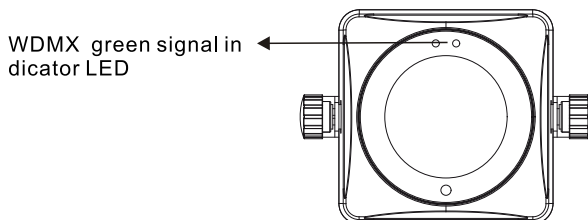
## 6 OPERATION WITH WIRELESS DMX



- 6.1 When using this lighting fixture with W-DMX receiver installed inside, the fixture may be placed at a range of 200m from W-DMX transmitter
- 6.2 Select DMX from the <RUN> menu.
- 6.3 Select ACTI from the <WDMX> menu and proceed to turn ON the WDMX. If the WDMX receiver card is already paired with a WDMX transmitter then the fixture is ready for receiving DMX signal. If the WDMX receiver card needs to be paired with a new WDMX transmitter, select YES from the <WDMX >/<REST> menu. The green signal indicator LED will not show which confirms that WDMX receiver card is unpaired and ready for new pairing..
- 6.4 By pressing the RESET button on W-DMX transmitter, transmitter will search for RESET lighting fixtures. During search transmitter green SIGNAL indicator will flash. After pairing with lighting fixture green SIGNAL indicator will display.



- 6.5 Once a lighting fixture has been paired with a W-DMX transmitter, the green SIGNAL indicator will display. Once a lighting fixture has been paired with a W-DMX transmitter, the lighting fixture cannot be paired with another W-DMX transmitter. If a lighting fixture requires pairing with a new W-DMX transmitter, steps 5.3 and 5.4 must be repeated.



# 7 BATTERY CHARGING

## 7.1 FLIGHTCASE SPECIFICATIONS

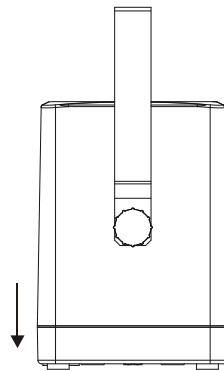
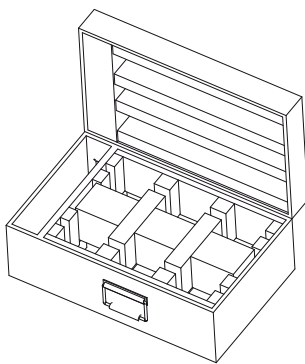
Voltage: AC100-240V, 50,60Hz

Rated Power: 150W

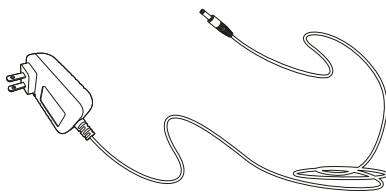
Weight:9.8KG

Dimensions: 572x350x240mm

## 7.2:FLIGHTCASE WITH CHARGER



## 7.3 CHARGER SPECIFICATIONS

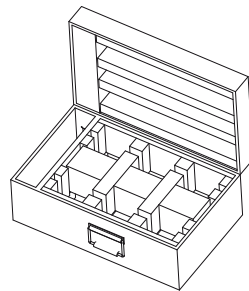


Voltage: AC100-240V, 50/60Hz

Output: DC24V, 1A

LED: ≤200mA

7.4: THE FLIGHTCASE MUST HAVE THE HOOD OPEN WHEN CHARGING.



## 7.5 IMPORTANT FACTS:

### HOW TO CARE FOR YOUR BATTERY!

#### CHARGING

- DO NOT CHARGE FOR MORE THAN 24HRS
- RECHARGE WITHIN 3 DAYS OF USE
- CHARGE WITH FLIGHTCASE OPEN

#### STORING

- STORE WITH FULL LOAD
- TURN OFF AT BASE WHEN STORING FOR MORE THAN 7 DAYS
- STORE IN AN UPRIGHT POSITION

