

# USER MANUAL



LED PAR Model: AVS-1812UV  
INDOOR LED PAR

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## 1. Product Details

### 1. 1. Specifications

Input Voltage: AC90-240V 50/60Hz

Power: 216W

LED: 6in1(RGBWA+UV) LED

Beam Angle: 25 degree, 60 degree

Life: min 50,000 hours

Control Mode: DMX, Master/slave, Auto-run, Sound Control

DMX Modes: 7 DMX working modes

DMX channel: 13CH/3CH/4CH/6CH/7CH/8CH/HSV

IP Rating: IP20

Product Size: 280\*220\*320mm

N.W.: 3.5KG

### 1. 2. Features

#### ■ 3 Control Modes

##### ◆ External Control

DMX512 control(7DMX working modes)

Master/slave control

##### ◆ Auto-run

###### Onboard Program

Various fading, pulse color change

Various strobe effects: speed change (slow to fast), mix(strobe colors, strobe color change).....

###### Editable Programs

Functional, useful editable programs. Programs can be edited without external controller. Programs like color change, step change, strobes, can be combined randomly.

Programs can be downloaded from master light

##### ◆ Static Color Mode

A certain color can be set without a controller, and strobe on that color is available.

#### ■ "Light Cut Software"

At "STAG" Mode, if the main dimmer is at value "0" when onboard program or edited program is working, the light will be off, while program is still working.

Difference to "BLACKOUT": it is just for the lights, no effect to the controller.

#### ■ ID Setting

At "STAG" mode, Lights with the same ID(Max 66 ) can be controlled separately. Effects includes: light up one by one, color change, strobe, gradual change, etc.

#### ■ Non-linear and linear dimming

16 bit (60000 steps)

#### ■ White Balance

white color at different color temperature

#### ■ Color Reset

Software for adjusting the current.

#### ■ Display Protection

Display will turn off if no work for 30 seconds, press any keep to exit the protection mode.

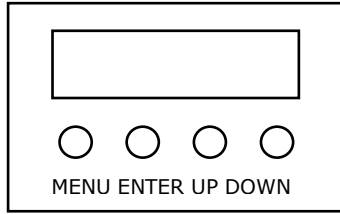
#### ■ Over-temperature Protection

A certain value of temperature can be set to protect the lights

#### ■ Pass word for button operation

## 2. Operating Instructions

### 2. 1. Display information



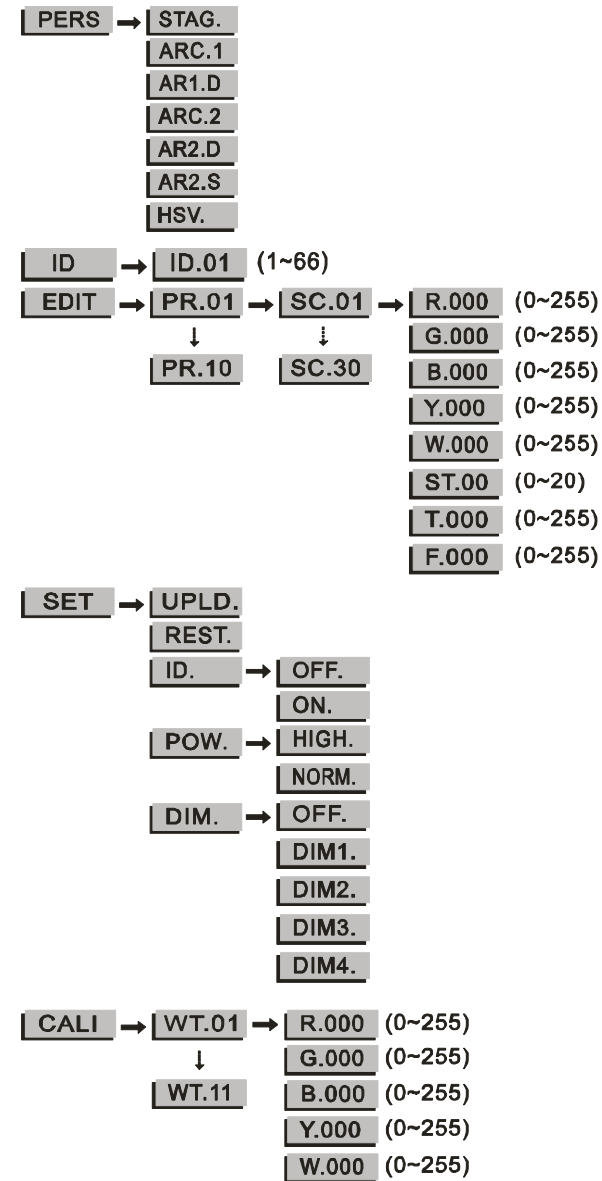
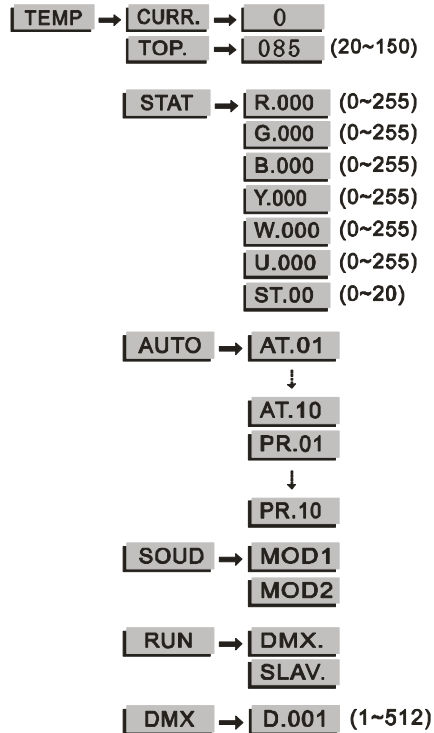
- 【MENU】 Main Menu Select / Exit
- 【ENTER】 Enter/select the Submenu
- 【UP】 Menu Select/ data Increase
- 【DOWN】 Menu Select/data Decrease

### 2. 1. 1. Key Pass Word

【UP、DOWN、UP、DOWN】 + 【ENTER】

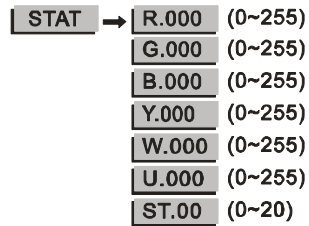
Press 【UP】 ,then press 【DOWN】 ,then press 【UP】 ,then press 【DOWN】 , then press 【ENTER】 to confirm

### 2. 2. Menu Navigation



## 2. 3. Menu Description

### 2. 3. 1. Static Mode (STAT)



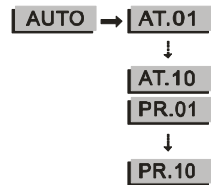
At **【STAT】** ,press **【ENTER】** to enter static mode, then the light is master light

Press**【ENTER】**to choose the submenu: **【Red】**、**【Green】**、**【Blue】**、**【Strobe】**

Press **【UP】** / **【DOWN】** to choose the value

Press **【MENU】** to exit, then it comes to external control mode

### 2. 3. 2. Auto Mode

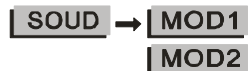


At **【AUTO】** ,press **【ENTER】** to enter auto mode, then the light is master light

Press **【UP】** / **【DOWN】** to choose the onboard program or the edited program

Press **【MENU】** to exit, then it comes to external control mode

### 2. 3. 3 Sound Control(SOUND)



At **【SOUND】** , press **【ENTER】** to enter Sound Control mode. then the light is master light

Press **【UP】** / **【DOWN】** to choose the **【MOD1】** or **【MOD2】**

Press **【MENU】** to exit, then it comes to external control mode.

### 2. 3. 4. DMX and Slave Mode (RUN)



At **【RUN】** ,press **【ENTER】** to enter, then the light is at external control mode

Press **【UP】** / **【DOWN】** to choose **【DMX】** or **【SLAV】** by a controller.

Press **【UP】** / **【DOWN】** to choose **【1~512】** ,press **【MENU】** to exit.

**【DMX】** means the light can only controlled by a controller

**【SLAV】** means it only receives signal from master light

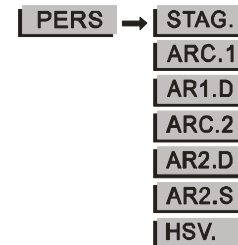
Press **【MENU】** to exit

### 2. 3. 5. DMX Setting (DMX)



At **【DMX】** , press **【ENTER】** to enter, then the light is controlled can be activated by DMX Channel 6.

### 2. 3. 6. DMX512 Mode Select (PERS)

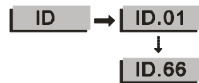


At **【PERS】** , press **【ENTER】** to enter, then it's controlled by an external controller.

Press**【UP】/【DOWN】**to choose the DMX working mode( check the channel list for the specific modes)

Press **【MENU】** to exit

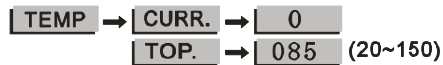
### 2. 3. 7. ID Setting (ID)



At **【ID】** ,press **【ENTER】** to enter, then the lights can be controlled by an external controller.

Press **【UP】 / 【DOWN】** to choose **【1~66】** ,press **【MENU】** to exit.

### 2. 3. 8. Over-temperature Protection (TEMP)



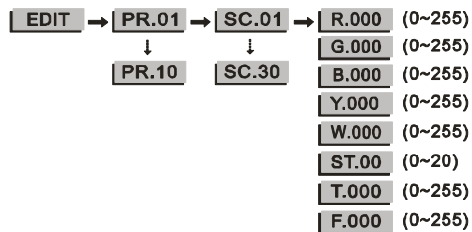
At**【TEMP】**Press**【ENTER】**, then the lights can be controlled by an external controller.

Press **【UP】 / 【DOWN】** to choose **【CURR】** or **【TOP】**

At **【CURR】** press **【ENTER】** , the current temp is shown (Notes: the temperature might not be accurate due to the material and location, it is just for reference. Press **【MENU】** to exit.

At**【TOP】**press**【ENTER】** ,set the temperature. (default 85 degree), press **【UP】 / 【DOWN】** to choose from (20~150) ,Press **【MENU】** to exit.

### 2. 3. 9. Scene Edit (EDIT)

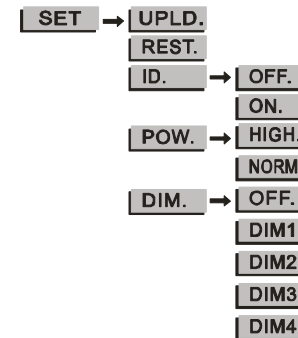


At **【EDIT】** press **【ENTER】** , then it can be edited and becomes the master light.

Press **【ENTER】** to the submenu or data select, Press **【MENU】** to exit.

Press **【UP】 / 【DOWN】** to choose the program, scene or data value.(See detailed information at Edit Instructions)

### 2. 3. 10. Setting (SET)



At **【SET】** Press **【ENTER】** ,then the light exits the external control mode.

**【UPLD】** means sending edited programs, press **【ENTER】** to enter the password confirmation, then press **【UP、DOWN、UP、DOWN】 + 【ENTER】** ,the light turns yellow, it means data is being sending, and it shows the sending process, after sending, the light turns green. Slave light will turn green after receiving. If it stays yellow, it means the data sending is failed. If this happens, power off the slave light and do it again.

**【REST】** means restore the factory default, press **【ENTER】** to enter, password: **【UP、DOWN、UP、DOWN】 + 【ENTER】**

**【ID】** means ID switch setting, press **【ENTER】** to enter, then press **【UP】 /【DOWN】**to choose**【ON】**ID setting is allowed, **【OFF】**ID setting is forbidden.

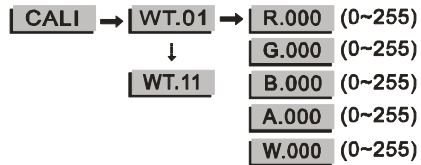
**【RGBW】**means color adjustment, press**【ENTER】**to enter, then press**【UP】 /【DOWN】**to choose**【ON】**color adjustment is allowed, or **【OFF】**forbidden.

RGB ratio can be setting under **【CAL2】**

**【POW】**means power setting, press**【ENTER】**to enter, press**【UP】/【DOWN】** to choose **【Normal】** or **【High】** , **【Normal=33%】** , **【High=100%】**

**【DIM】** means non-linear dimming speed setting, press **【UP】 / 【DOWN】** to select, **【OFF】** means close the function of dimmer speed, **【DIM1】** means speed1(fast), **【DIM2】** means speed 2, **【DIM3】** means speed 3, **【DIM4】** means speed 4(slow),The slower the speed, the smoother the dimmer.

### 2. 3. 11. White Balance Setting (CAL1)



At【CAL1】,press【ENTER】to enter, then the light is at the mode of external control

Press 【UP】 / 【DOWN】 to choose 【White 1~11】 ,press 【ENTER】 to set.

Press 【ENTER】 to choose 【Red】、【Green】、【Blue】、【Yellow】 , 【White】

Press 【UP】 / 【DOWN】 to choose 【0~255】

Note: When it is in DMX mode 【STAG】, These 11 white balance

### 2. 4. Controller Operation

#### 2. 4. 1. DMX Channels

7 DMX working modes: 【STAG】、【ARC.1】、【AR1.d】、【ARC.2】、【AR2.d】、

【AR2.S】、【HSV】

#### STAG Mode

| CH | Value | Function  |
|----|-------|---|
| 1  | 0~255 | Dimmer  |
| 2  | 0~255 | Red(at CH8,if PR01-10 is chosen, CH2 controls TIME)   |
| 3  | 0~255 | Green(at CH8,if PR01-10 is chosen, CH2 controls TIME) |
| 4  | 0~255 | Blue  |
| 5  | 0~255 | Amber   |
| 6  | 0~255 | White   |
| 7  | 0~255 | UV  |
| 8  | 0~5   | No function   |
|    | 6~20  | High power(only in NORMAL POWER mode)                 |
|    | 21~30 | No function   |

|     |         |  |
|-----|---------|--|
|     | 31~255  | Color change(see color list)                                 |
| 9   | 0~10    | No strobe  |
|     | 11~255  | Strobe (from slow to fast)                                   |
| 10  | 0~20    | No function  |
|     | 21~30   | Inbuilt program 1  |
|     |         | .....(each 10 values for one program)                        |
|     | 110~120 | Inbuilt program 10   |
|     | 121~130 | Editable program 1   |
|     |         | .....(each 10 values for one program)                        |
|     | 211~220 | Editable program 1   |
| 11  | 221~255 | No function for ip66 version, sound control for ip22 version |
|     | 0~255   | Speed for inbuilt program (CH2,CH3 for editable program)     |
| 12  | 0~9     | Dimmer speed (0-9 is the speed at menu SET)                  |
|     | 10~29   | Off  |
|     | 30~69   | Speed 1 (fast)   |
|     | 70~129  | Speed 2  |
|     | 130~189 | Speed 3  |
| 13  | 190~255 | Speed 4 (slow)   |
|     | 0~9     | No function  |
|     | 10~19   | ID1  |
|     |         | .....(each 10 values stand for one ID)                       |
|     | 200~209 | ID20   |
|     | 210     | ID21   |
|     |         | .....(each 1value stands for one ID)                         |
| 254 | ID65    |  |
| 255 | ID66    |  |

**ARC.1 Mode**

| CH | Value | Function |
|----|-------|----------|
| 1  | 0~255 | Red      |
| 2  | 0~255 | Green    |
| 3  | 0~255 | Blue     |

**AR1.d Mode**

| CH | Value | Function |
|----|-------|----------|
| 1  | 0~255 | Dimmer   |
| 2  | 0~255 | Red      |
| 3  | 0~255 | Green    |
| 4  | 0~255 | Blue     |

**ARC.2 Mode**

| CH | Value | Function |
|----|-------|----------|
| 1  | 0~255 | Red      |
| 2  | 0~255 | Green    |
| 3  | 0~255 | Blue     |
| 4  | 0~255 | Yellow   |
| 5  | 0~255 | White    |
| 6  | 0~255 | UV       |

**ARC.2 d Mode**

| CH | Value | Function |
|----|-------|----------|
| 1  | 0~255 | Dimmer   |
| 2  | 0~255 | Red      |
| 3  | 0~255 | Green    |
| 4  | 0~255 | Blue     |
| 5  | 0~255 | Yellow   |
| 6  | 0~255 | White    |
| 7  | 0~255 | UV       |

**AR2.S Mode**

| CH | Value  | Function               |
|----|--------|------------------------|
| 1  | 0~255  | Dimmer                 |
| 2  | 0~255  | Red                    |
| 3  | 0~255  | Green                  |
| 4  | 0~255  | Blue                   |
| 5  | 0~255  | Yellow                 |
| 6  | 0~255  | White                  |
| 7  | 0~255  | UV                     |
| 8  | 0~10   | No strobe              |
|    | 11~255 | Strobe speed(255 fast) |

**HSV Mode**

| CH | Value | Function                |
|----|-------|-------------------------|
| 1  | 0~255 | H (hues) (0~100%)       |
| 2  | 0~255 | S (saturation) (0~100%) |
| 3  | 0~255 | V (value) (0~100%)      |