USER MANUAL

LED PAR 18*12W 6IN1

INDOOR LED PAR

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

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.
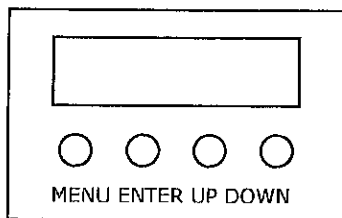
- **Over-temperature Protection**

  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

TEMP → CURR. → 0
          TOP → 085 (20~150)

       STAT → R.000 (0~255)
               G.000 (0~255)
               B.000 (0~255)
               Y.000 (0~255)
               W.000 (0~255)
               U.000 (0~255)
               ST.00 (0~20)

       AUTO → AT.01
                ↓
               AT.10
               PR.01
               ↓
               PR.10

       SOUD → MOD1
               MOD2

       RUN → DMX.
              SLAV

       DMX → D.001 (1~512)

PERS → STAG.
ARC.1
AR1.D
ARC.2
AR2.D
AR2.S
HSV.

ID → ID.01 (1~66)

EDIT → PR.01 → SC.01 → R.000 (0~255)
↓ ↓ G.000 (0~255)
PR.10 SC.30 B.000 (0~255)
Y.000 (0~255)
W.000 (0~255)
ST.00 (0~20)
T.000 (0~255)
F.000 (0~255)

SET → UPLD.
REST.
ID. → OFF.
ON.
POW → HIGH.
NORM.
DIM. → OFF.
DIM1
DIM2.
DIM3
DIM4.

CALI → WT.01 → R.000 (0~255)
↓ G.000 (0~255)
WT.11 B.000 (0~255)
Y.000 (0~255)
W.000 (0~255)

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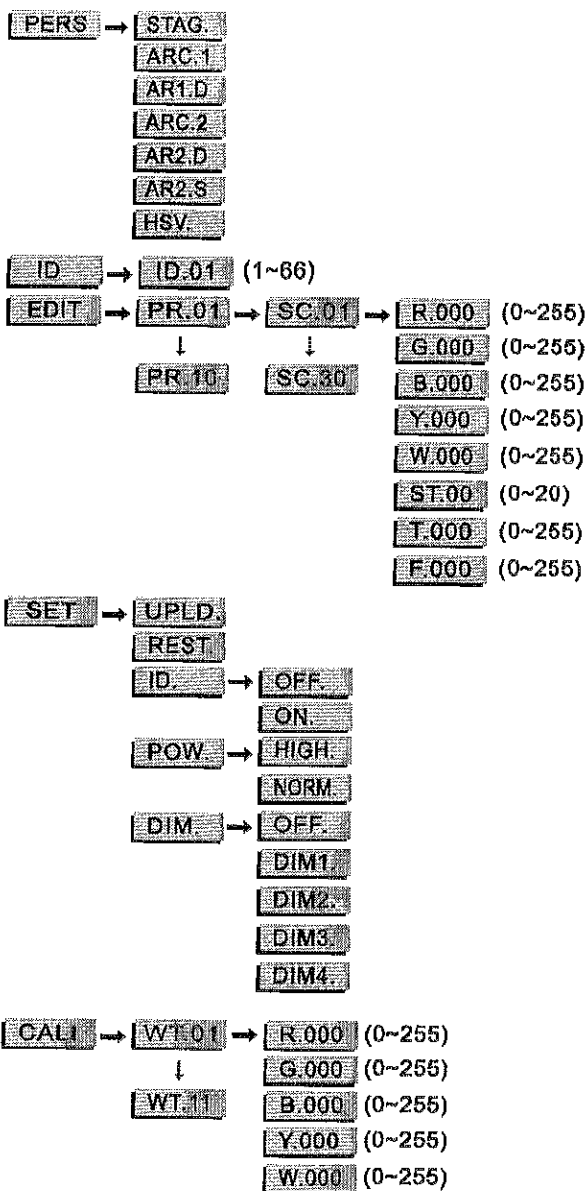
2．3．Menu Description

2．3．1．Static Mode（STAT）

`STAT` → `R.000` (0~255)
`G.000` (0~255)
`B.000` (0~255)
`Y.000` (0~255)
`W.000` (0~255)
`U.000` (0~255)
`ST.00` (0~20)
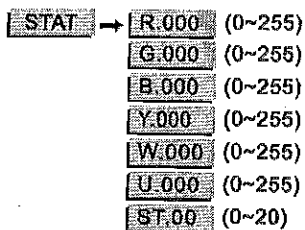
At【STAT】,press【ENTER】to enter static mode, then the light is master light

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

`AUTO` → `AT.01`
↓
`AT.10`
`PR.01`
↓
`PR.10`
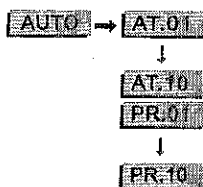
At【AUTO】,press【ENTER】to enter auto mode, then the light is master light

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)

`SOUD` → `MOD1`
`MOD2`

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

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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）

| RUN | → | DMX |
| | | SLAV |

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）

| DMX | → | D.001 | (1~512)

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）

PERS	→	STAG
		ARC.1
		AR1.D
		ARC.2
		AR2.D
		AR2.S
		HSV
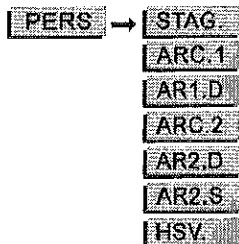
At 【PERS】 , press 【ENTER】 to enter, then it's controlled by an external controller.

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）

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```
┌──────┐   ┌───────┐
│  ID  │ → │ ID.01 │
└──────┘   └───────┘
                ↓
           ┌───────┐
           │ ID.66 │
           └───────┘
```

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)

```
┌──────┐   ┌───────┐   ┌─────┐
│ TEMP │ → │ CURR. │ → │  0  │
└──────┘   └───────┘   └─────┘
           ┌───────┐   ┌───────┐
           │  TOP  │ → │  085  │ (20~150)
           └───────┘   └───────┘
```
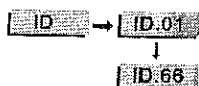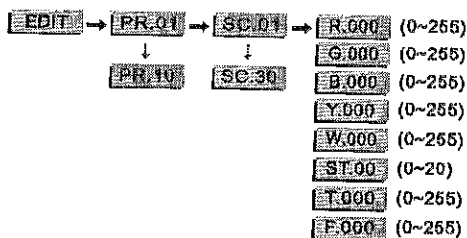
At【TEMP】Press【ENTER】, then the lights can be controlled by an external controller.

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)

```
┌──────┐   ┌───────┐   ┌───────┐   ┌───────┐ (0~255)
│ EDIT │ → │ PR.01 │ → │ SC.01 │ → │ R.000 │
└──────┘   └───────┘   └───────┘   ├───────┤ (0~255)
                ↓           ↓       │ G.000 │
           ┌───────┐   ┌───────┐    ├───────┤ (0~255)
           │ PR.11 │   │ SC.30 │    │ B.000 │
           └───────┘   └───────┘    ├───────┤ (0~255)
                                    │ Y.000 │
                                    ├───────┤ (0~255)
                                    │ W.000 │
                                    ├───────┤ (0~20)
                                    │ ST.00 │
                                    ├───────┤ (0~255)
                                    │ T.000 │
                                    ├───────┤ (0~255)
                                    │ F.000 │
                                    └───────┘
```
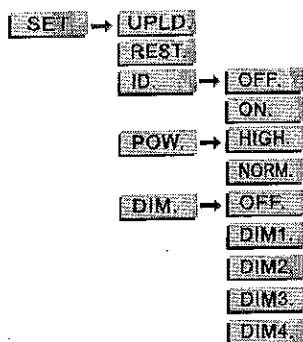
At 【EDIT】 press 【ENTER】 , then it can be edited and becomes the master light.

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 pass word 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.

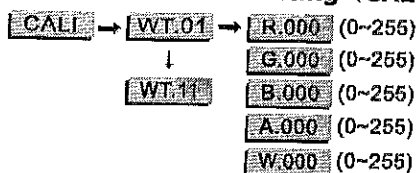【REST】means restore the factory default, press 【ENTER】 to enter, password: 【UP、DOWN、UP、DOWN】 + 【ENTER】

【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.

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

CAL1 → WT.01 → R.000 (0~255)
    ↓   G.000 (0~255)
   WT.11 B.000 (0~255)
      A.000 (0~255)
      W.000 (0~255)

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

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	31~255	Color change(see color list)
9	0~10	No strobe
	11~255	Strobe (from slow to fast)
	0~20	No function
	21~30	Inbuilt program 1
		......(each 10 values for one program)
	110~120	Inbuilt program 10
10	121~130	Editable program 1
		......(each 10 values for one program)
	211~220	Editable program 1
	221~255	No function for ip66 version, sound control for ip22 version
11	0~255	Speed for inbuilt program (CH2,CH3 for editable program)
	0~9	Dimmer speed (0-9 is the speed at menu SET)
	10~29	Off
	30~69	Speed 1 (fast)
12	70~129	Speed 2
	130~189	Speed 3
	190~255	Speed 4 (slow)
	0~9	No function
	10~19	ID1
		......(each 10 values stand for one ID)
13	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
7	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%)