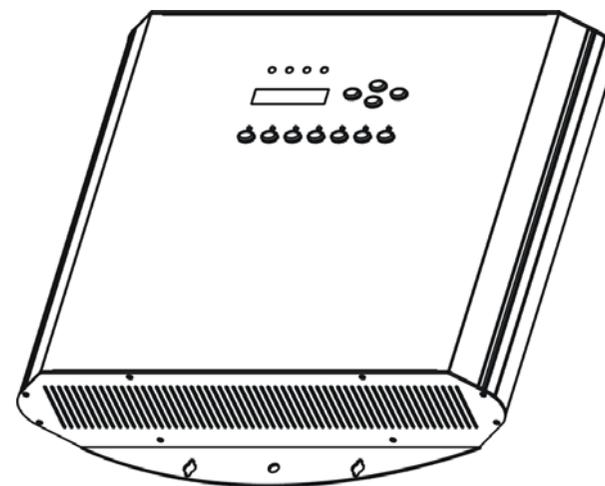


NO.007



V Power



VP-240 VP-600

User Manual

Please read the instructions carefully before use



[Http://www.visio-led.com](http://www.visio-led.com)

Specifications are subject to change without prior notice.



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1. Safety Introductions

Please read the User Manual carefully as it includes important information regarding details of operation, maintenance and technical data. Keep this manual with unit for future consultation.

WARNING !

- Avoiding any flammable liquids, water or metal objects enter into the unit.
- If any liquid spill on the unit, disconnect the power supply immediately.
- When serious operation problem happen, stop using the unit immediately and contact your local dealer for service.
- Do not open the unit because there are no user serviceable parts inside.
- Never try to repair the unit yourself. Repairs by unqualified people may cause damage or faulty operation. Please contact your nearest dealer for any service.

CAUTION !

- After removed the package, make sure the unit is not damaged in any way. Don't use it with doubt and contact an authorized dealer.
- Never use the unit under the excessive humidity and a temperature over 40°C.
- Do not try to dismantle or modify the unit.

2. Features

- 7 Channel modes (Mode 1 & Mode 2 for RGBW; Mode 3 & Mode 4 for RGB; Mode 5 & Mode 6 for CW and WW colors; Mode 7 for single color) enables V Power to control passive lighting fixtures that fitted with different LED emitters.
- Comes with 3 chase groups, each group has 8 chases (3 editable chases); and each chase can have up to 42 scenes. For editing the chases, Visio has developed a software (option) that enables you to edit the chases easily.

EC - Declaration of Conformity

We declare that our products (lighting equipments) comply with the following specification and bears CE mark in accordance with the provision of the Electromagnetic Compatibility (EMC) Directive 89/336/EEC.

EN55014-2: 1997 A1: 2001, EN61000-4-2: 1995; EN61000-4-3: 2002;

EN61000-4-4: 1995; EN61000-4-5: 1995, EN61000-4-6: 1996,

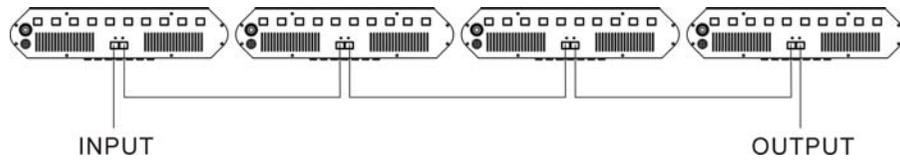
EN61000-4-11: 1994.

&

Harmonized Standard

EN60598-1: 2000+ALL: 2000+A12: 2002

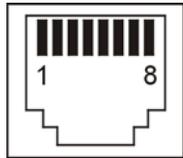
9.2 RJ45 Connection



DMX Input, Output

RJ45 Connector

Front view of the Connector

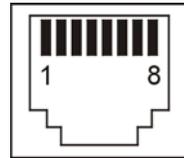


- Pin 1: Not connected
- Pin 2: Not connected
- Pin 3: Not connected
- Pin 4: Not connected
- Pin 5: Not connected
- Pin 6: Data +
- Pin 7: Data -
- Pin 8: GND

LED module Input

RJ45 Connector

Front view of the Connector



- Pin 1: Red LED +
- Pin 2: Green LED +
- Pin 3: Blue LED +
- Pin 4: White LED +
- Pin 5: Red LED -
- Pin 6: Green LED -
- Pin 7: Blue LED -
- Pin 8: White LED -

- It comes with the built-in clock for editing your shows. You can edit max. 30 shows (choose from the chases) in one week, and different time period per day.
- User can run the chase manually step by step by pressing the manual button.
- Excellent fade effect, and auto running function.
- LCD display for easy navigation.

3. Technical Specifications

DMX Input

Control: DMX 512
 DMX connection: RJ45 or 3 pin XLR

DMX Output

Max. Power Output: 240W (VP-240)
 600W (VP-600)

Output Voltage: DC 48V

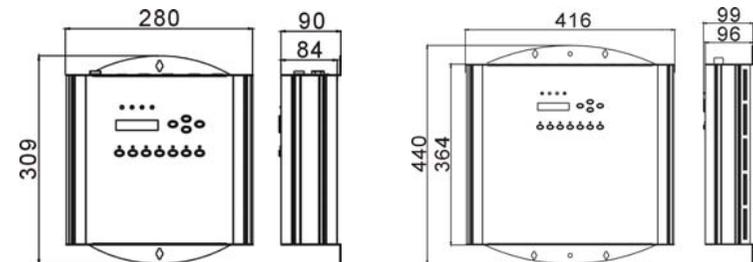
Max. Output Current: 350mA per color

Max. Load per zone: RGB & RGBW mode-Each color 12 LEDs max.

White mode(warm white & cool white)-Each white 24 LEDs max.

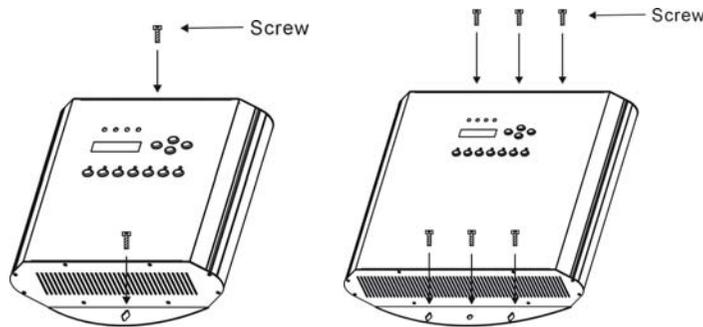
Single mode - Total LED 48 max.

- **Input Voltage:** 100V-240V~50-60Hz
- **Fuse:** T 3.15A (VP-240)
 T 6.3A (VP-600)
- **Dimension:** 280×309×90 mm (VP-240)
 440 x 416 x 99 mm (VP-600)
- **Weight:** 4kgs (VP-240)
 5.6kgs (VP-600)



4. Installing instructions

The VP-240/600 should be placed on a non-flammable flat surface in any orientation and fixed by screws. There are mounting holes on the housing. Ensure that installation place is enough ventilated.



WARNING!

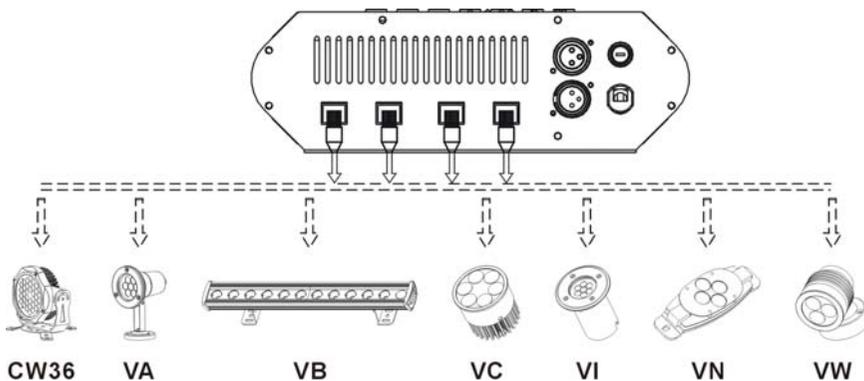
Ensure the mains power supply is off before installation or connect the LED fixture!

Max. Load per Zone: RGB & RGBW mode - Each color 12 LEDs max!

White mode - Each white 24 LEDs max! Single mode - Total LED 48 max!

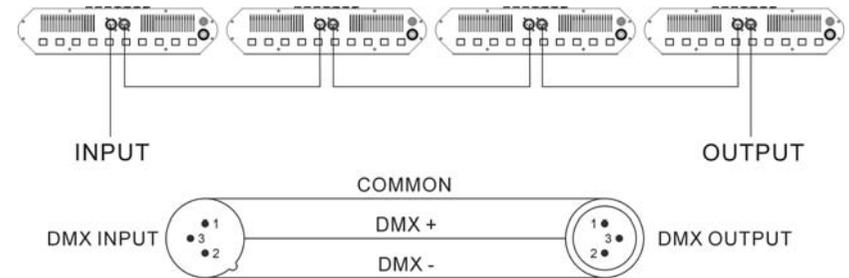
Maximum total cable length between V Power and all connected LED fixtures is 80 metres!

V Power could control the LED fixtures such as V Aqua, V Bar, V Ceiling, V Inground, V Net, V Wall and CW36, the VP-240 power output is 240 watt (4×60W) and the VP-600 power output is 600 watt (10 x 60W).



9. DMX512 Connection

9.1 XLR Connection



Termination reduces signal errors and to avoid signal transmission problems and interference. It is always advisable to connect a DMX terminal. (Resistance 120 ohm 1/4W) between pin2(DMX-) and pin3(DMX+) of the last fixture.

1. If you using a controller with 5 pins DMX output, you need to use a 5 to 3 pin adapter-cable.
2. At last unit, the DMX cable has to be terminated with a terminator. Solder a 120 ohm 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-output of the last unit.
3. Connect the unit together in a `daisy chain` by XLR plug from the output of the unit to the input of the next unit. The cable can not branched or split to a `Y` cable. DMX 512 is a very high-speed signal. Inadequate or damaged cables, soldered joints or corroded connectors can easily distort the signal and shut down the system.
4. The DMX output and input connectors are pass-through to maintain the DMX circuit, when one of the units' power is disconnected.
5. Each unit needs to have an address set to receive the data sent by the controller. The address number is between 0-511 (usually 0 & 1 are equal to 1).
6. The end of the DMX 512 system should be terminated to reduce signal errors.
7. 3 pin XLR connectors are more popular than 5 pin XLR.
3 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)
5 pin XLR: Pin 1: GND, Pin 2: Negative signal (-), Pin 3: Positive signal (+)
Pin 4/Pin 5: not used.

4 Channels:

Channel	Value	Function
1	0-255	Red 0%~100%
2	0-255	Green 0%~100%
3	0-255	Blue 0%~100%
4		Dimmer/Strobe
	0-189	Dimmer 0%~100%
	190-199	Open
	200-247	Strobe from slow to fast
	248-255	Open

20 Channels:

Channel	Value	Function
1	0-255	Cool White 0%~100%
2	0-255	Warm White 0%~100%
3	0-255	Cool White 0%~100%
4	0-255	Warm White 0%~100%
5	0-255	Cool White 0%~100%
6	0-255	Warm White 0%~100%
7	0-255	Cool White 0%~100%
8	0-255	Warm White 0%~100%
9	0-255	Cool White 0%~100%
10	0-255	Warm White 0%~100%

Channel	Value	Function
11	0-255	Cool White 0%~100%
12	0-255	Warm White 0%~100%
13	0-255	Cool White 0%~100%
14	0-255	Warm White 0%~100%
15	0-255	Cool White 0%~100%
16	0-255	Warm White 0%~100%
17	0-255	Cool White 0%~100%
18	0-255	Warm White 0%~100%
19	0-255	Cool White 0%~100%
20	0-255	Warm White 0%~100%

11 Channels:

Channel	Value	Function
1	0-255	Mixing ratio Change from cool white to warm white
2	0-255	Mixing ratio Change from cool white to warm white
3	0-255	Mixing ratio Change from cool white to warm white
4	0-255	Mixing ratio Change from cool white to warm white
5	0-255	Mixing ratio Change from cool white to warm white
6	0-255	Mixing ratio Change from cool white to warm white
7	0-255	Mixing ratio Change from cool white to warm white
8	0-255	Mixing ratio Change from cool white to warm white
9	0-255	Mixing ratio Change from cool white to warm white
10	0-255	Mixing ratio Change from cool white to warm white
11	0-255	Dimmer 0%~100%

10 Channels:

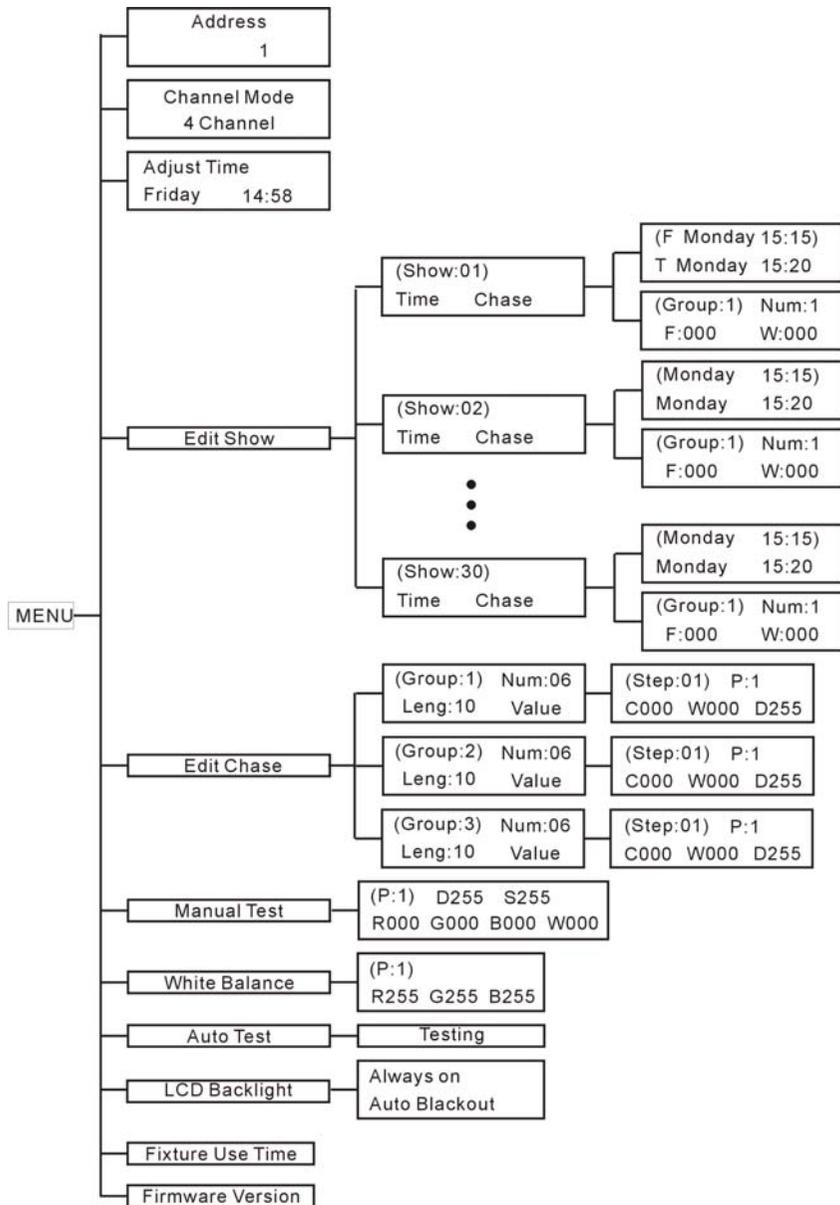
Channel	Value	Function
1	0-255	Dimmer 0%~100%
2	0-255	Dimmer 0%~100%
3	0-255	Dimmer 0%~100%
4	0-255	Dimmer 0%~100%
5	0-255	Dimmer 0%~100%
6	0-255	Dimmer 0%~100%
7	0-255	Dimmer 0%~100%
8	0-255	Dimmer 0%~100%
9	0-255	Dimmer 0%~100%
10	0-255	Dimmer 0%~100%

5. Main Function

To select any function, press **MENU** button until the required one is shown on the display. Select the function by **ENTER** button and the display will blink. Use **DOWN** and **UP** button to change the mode. Once the required mode has been selected, press **ENTER** button to setup. Back to the functions without any change press **MENU** button.

Press **MENU** button for 3 seconds to exit the functions, press “Chase Group 1”, “Chase Group 2” or “Chase Group 3” button to run the built-in chase or you have programmed. Enter chase group, the LED on, then press the chase group button again to choose the chase. Once the chase has been selected, press “Manual” button into manual mode, the LED on, you can choose the step one by one; press “Fade” button into fade mode, the LED on, the unit will run all steps of the chase automatically, at this time, you can press **UP/DOWN** button to adjust the fade time; press the “Auto” button into auto mode, the LED on, the unit will also run all steps automatically, and you can press **UP/DOWN** button to adjust the wait time; press the “Blackout” button, the LED on and the unit into blackout mode.

The main functions are shown below:



40 Channels:

Channel	Value	Function
1	0-255	Red 0%~100%
2	0-255	Green 0%~100%
3	0-255	Blue 0%~100%
4	0-255	White 0%~100%
5	0-255	Red 0%~100%
6	0-255	Green 0%~100%
7	0-255	Blue 0%~100%
8	0-255	White 0%~100%
9	0-255	Red 0%~100%
10	0-255	Green 0%~100%
11	0-255	Blue 0%~100%
12	0-255	White 0%~100%
13	0-255	Red 0%~100%
14	0-255	Green 0%~100%
15	0-255	Blue 0%~100%
16	0-255	White 0%~100%
17	0-255	Red 0%~100%
18	0-255	Green 0%~100%
19	0-255	Blue 0%~100%
20	0-255	White 0%~100%

Channel	Value	Function
21	0-255	Red 0%~100%
22	0-255	Green 0%~100%
23	0-255	Blue 0%~100%
24	0-255	White 0%~100%
25	0-255	Red 0%~100%
26	0-255	Green 0%~100%
27	0-255	Blue 0%~100%
28	0-255	White 0%~100%
29	0-255	Red 0%~100%
30	0-255	Green 0%~100%
31	0-255	Blue 0%~100%
32	0-255	White 0%~100%
33	0-255	Red 0%~100%
34	0-255	Green 0%~100%
35	0-255	Blue 0%~100%
36	0-255	White 0%~100%
37	0-255	Red 0%~100%
38	0-255	Green 0%~100%
39	0-255	Blue 0%~100%
40	0-255	White 0%~100%

30 Channels:

Channel	Value	Function
1	0-255	Red 0%~100%
2	0-255	Green 0%~100%
3	0-255	Blue 0%~100%
4	0-255	Red 0%~100%
5	0-255	Green 0%~100%
6	0-255	Blue 0%~100%
7	0-255	Red 0%~100%
8	0-255	Green 0%~100%
9	0-255	Blue 0%~100%
10	0-255	Red 0%~100%
11	0-255	Green 0%~100%
12	0-255	Blue 0%~100%
13	0-255	Red 0%~100%
14	0-255	Green 0%~100%
15	0-255	Blue 0%~100%

Channel	Value	Function
16	0-255	Red 0%~100%
17	0-255	Green 0%~100%
18	0-255	Blue 0%~100%
19	0-255	Red 0%~100%
20	0-255	Green 0%~100%
21	0-255	Blue 0%~100%
22	0-255	Red 0%~100%
23	0-255	Green 0%~100%
24	0-255	Blue 0%~100%
25	0-255	Red 0%~100%
26	0-255	Green 0%~100%
27	0-255	Blue 0%~100%
28	0-255	Red 0%~100%
29	0-255	Green 0%~100%
30	0-255	Blue 0%~100%

VP-600:

43 Channels:

Channel	Value	Function
1	0-255	Red 0%~100%
2	0-255	Green 0%~100%
3	0-255	Blue 0%~100%
4	0-255	White 0%~100%
5	0-255	Red 0%~100%
6	0-255	Green 0%~100%
7	0-255	Blue 0%~100%
8	0-255	White 0%~100%
9	0-255	Red 0%~100%
10	0-255	Green 0%~100%
11	0-255	Blue 0%~100%
12	0-255	White 0%~100%
13	0-255	Red 0%~100%
14	0-255	Green 0%~100%
15	0-255	Blue 0%~100%
16	0-255	White 0%~100%
17	0-255	Red 0%~100%
18	0-255	Green 0%~100%
19	0-255	Blue 0%~100%
20	0-255	White 0%~100%
21	0-255	Red 0%~100%
22	0-255	Green 0%~100%
23	0-255	Blue 0%~100%
24	0-255	White 0%~100%
25	0-255	Red 0%~100%
26	0-255	Green 0%~100%
27	0-255	Blue 0%~100%
28	0-255	White 0%~100%

Channel	Value	Function
29	0-255	Red 0%~100%
30	0-255	Green 0%~100%
31	0-255	Blue 0%~100%
32	0-255	White 0%~100%
33	0-255	Red 0%~100%
34	0-255	Green 0%~100%
35	0-255	Blue 0%~100%
36	0-255	White 0%~100%
37	0-255	Red 0%~100%
38	0-255	Green 0%~100%
39	0-255	Blue 0%~100%
40	0-255	White 0%~100%
41	0-255	Color 33 colors
42	0-255	Dimmer 0%~100%
43	0-7 8-15 16-131 132-139 140-181 182-189 190-231 232-239 240-247 248-255	Strobe OFF Open Strobe from slow to fast Open Slow Open Fast Close Open Slow Close Fast Open Open Random Strobe Open

Address

Press the **MENU** button up to when the **Address** is shown on the display. Pressing **ENTER** button and **1** will blink. Use **DOWN** and **UP** button to change the DMX 512 address (1-512). Once the address has been selected, press **ENTER** button to setup (or automatically return to the main functions without any change after idling one minute). Back to the previous function without any change, press **MENU** button.

Channel Mode

Press the **MENU** button up to when the **Channel Mode** is shown on the display. Pressing **ENTER** button and **19/43 Channel** will blink. Use **DOWN** and **UP** button to select **19/43 channel** or **16/40 Channel** or **4/10 Channel** mode. Once the mode has been selected, press **ENTER** button to setup. Back to the previous function without any change, please press the **MENU** button.

Adjust Time

Press the **MENU** button up to when the **Adjust Time** is showing on the display. Press **ENTER** button and **Friday** will blink. Use **DOWN** and **UP** button to select **Monday** or **Tues** or **Sunday**. Press the **ENTER** button to setup hour and **14** will blink, use **DOWN** and **UP** button to select hour, press the **ENTER** button to setup minute and **58** will blink, use **DOWN** and **UP** button to select minute, press **MENU** to store and back to the main functions.

Edit Show

Press the **MENU** button up to when the **Edit Show** is showing on the display. Press **ENTER** button and **01** will blink. Use **UP/DOWN** button to select show (1-30), press **ENTER** button to setup and use **UP/DOWN** to edit **Time** (for example: set the unit on F (from) Monday15:15 T (to) Monday 15:20) and **Chase** (choose **Group 1-3**, **Num 1-8** and edit **F-fade time** and **W-wait time**), Press **MENU** button to store and back to the main functions.

Edit Chase (only chase number 6~8 are editable)

Press the **MENU** button up to when the **Edit Chase** is showing on the display. Press

ENTER button and **1** will blink, use **UP/DOWN** button to choose group 1, 2 or 3, press **ENTER** button to setup and use **UP/DOWN** to set **Num-number** (06-08), **Leng-length** (01-42, the steps, you choose from the total amount of steps, you want to run, for example, if the total amount of steps you set is 42, you can choose only first 1-10 steps to run) and **Value** (to set **step**, **P-A** (output all) or 1-4/10, **C-Color**, **W-White**, **D-Dimmer**), press **ENTER** button to setup. Back to the previous function without any change please press the **MENU** button.

Manual Test

Press the **MENU** button up to when the **Manual Test** is showing on the display. Press **ENTER** button and **1** will blink, use **UP/DOWN** button to choose **P-A** (output all) or 1-4/10, press **ENTER** button to store, use **UP/DOWN** to set **D-Dimmer**, **S-Strobe**, **R-Red**, **G-Green**, **B-Blue**, **W-White**, press **ENTER** button to setup. Back to the previous function without any change please press the **MENU** button.

White Balance

Press the **MENU** button up to when the **White Balance** is showing on the display. Press **ENTER** button and **1** will blink, use **DOWN/UP** button to choose **P-output all** or 1-4/10, press **ENTER** button to store, use **DOWN/UP** to set **R-Red**, **G-Green**, **B-Blue**, press **ENTER** button to setup. Back to the main functions without any change please press the **MENU** button.

Auto Test

Press the **MENU** button up to when the **Auto Test** is showing on the display. Press **ENTER** button **Testing** will blink on the display and the unit will run self-test by built-in program. To go back to the previous function please press the **MENU** button.

LCD Backlight

Press the **MENU** button up to when the **LCD Backlight** is showing on the display. Press **ENTER** button to choose **Always On** or **Auto Blackout**. To go back to the previous function please press the **MENU** button.

12 Channels:

Channel	Value	Function
1	0-255	Red 0%~100%
2	0-255	Green 0%~100%
3	0-255	Blue 0%~100%
4	0-255	Red 0%~100%
5	0-255	Green 0%~100%
6	0-255	Blue 0%~100%

Channel	Value	Function
7	0-255	Red 0%~100%
8	0-255	Green 0%~100%
9	0-255	Blue 0%~100%
10	0-255	Red 0%~100%
11	0-255	Green 0%~100%
12	0-255	Blue 0%~100%

4 Channels:

Channel	Value	Function
1	0-255	Red 0%~100%
2	0-255	Green 0%~100%
3	0-255	Blue
4	0-189 190-199 200-247 248-255	Shutter/Dimmer Dimmer 0%~100% Open Strobe from slow to fast Open

8 Channels:

Channel	Value	Function
1	0-255	Cool White 0%~100%
2	0-255	Warm White 0%~100%
3	0-255	Cool White 0%~100%
4	0-255	Warm White 0%~100%
5	0-255	Cool White 0%~100%
6	0-255	Warm White 0%~100%
7	0-255	Cool White 0%~100%
8	0-255	Warm White 0%~100%

5 Channels:

Channel	Value	Function
1	0-255	Mixing ratio Change from cool white to warm white
2	0-255	Mixing ratio Change from cool white to warm white
3	0-255	Mixing ratio Change from cool white to warm white
4	0-255	Mixing ratio Change from cool white to warm white
5	0-255	Dimmer 0%~100%

4 Channels:

Channel	Value	Function
1	0-255	Dimmer 0%~100%
2	0-255	Dimmer 0%~100%
3	0-255	Dimmer 0%~100%
4	0-255	Dimmer 0%~100%

4 Channels: | 5 9 13

8. DMX512 Configuration

VP-240:

19 Channels:

Channel	Value	Function
1	0-255	Red 0%~100%
2	0-255	Green 0%~100%
3	0-255	Blue 0%~100%
4	0-255	White 0%~100%
5	0-255	Red 0%~100%
6	0-255	Green 0%~100%
7	0-255	Blue 0%~100%
8	0-255	White 0%~100%
9	0-255	Red 0%~100%
10	0-255	Green 0%~100%
11	0-255	Blue 0%~100%
12	0-255	White 0%~100%
13	0-255	Red 0%~100%
14	0-255	Green 0%~100%

Channel	Value	Function
15	0-255	Blue 0%~100%
16	0-255	White 0%~100%
17	0-255	Color 0%~100%
18	0-255	Dimmer 0%~100%
19	0-7 8-15 16-131 132-139 140-181 182-189 190-231 232-239 240-247 248-255	Strobe OFF Open Strobe from slow to fast Open Slow Open Fast Close Open Slow Close Fast Open Open Random Strobe Open

16 Channels

Channel	Value	Function
1	0-255	Red 0%~100%
2	0-255	Green 0%~100%
3	0-255	Blue 0%~100%
4	0-255	White 0%~100%
5	0-255	Red 0%~100%
6	0-255	Green 0%~100%
7	0-255	Blue 0%~100%
8	0-255	White 0%~100%

Channel	Value	Function
9	0-255	Red 0%~100%
10	0-255	Green 0%~100%
11	0-255	Blue 0%~100%
12	0-255	White 0%~100%
13	0-255	Red 0%~100%
14	0-255	Green 0%~100%
15	0-255	Blue 0%~100%
16	0-255	White 0%~100%

Fixture Use Time

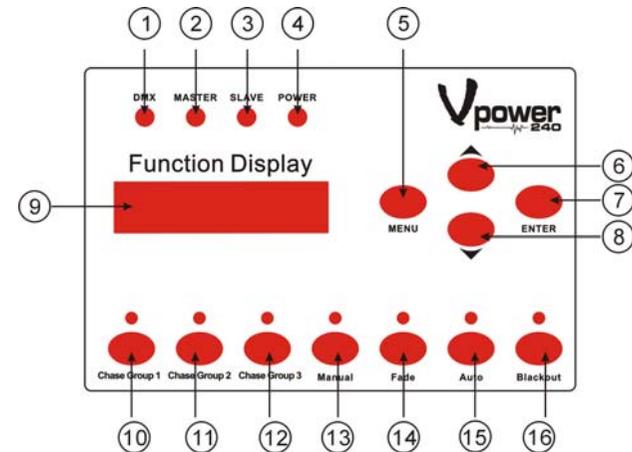
Press the **MENU** button up to **Fixture Use Time**, it will show the number of working hours of the unit. To go back to the previous function please press the **MENU** button.

Software Version

Press the **MENU** button up to **Software Version**, It will show the version of software of the unit. To go back to the previous function please press the **MENU** button.

6. Overview

6.1 Front View



LED	1. DMX	On	DMX Input
	2. MASTER	On	Master Mode
	3. SLAVE	On	Slave Mode
	4. POWER	On	Power on
5. Menu	Press the button to select the programming functions.		
6. Up	Press the button to go forward for the desired functions.		
7. Enter	Press the button to confirm the selected functions.		
8. Down	Press the button to go backward for the desired functions.		
9. Display	To show the various menu and selected function		

10.Chase Group 1	Press the button to run chase group 1, the LED will be on.
11.Chase Group 2	Press the button to run chase group 2, the LED will be on.
12.Chase Group 3	Press the button to run chase group 3, the LED will be on.
13.Manual	Press the button into manual mode, the LED will be on.
14.Fade	Press the button into fade mode, the LED will be on.
15.Auto	Press the button into auto mode, the LED will be on.
16.Blackout	Press the button to blackout the unit, the LED will be on.

7. DMX Controller

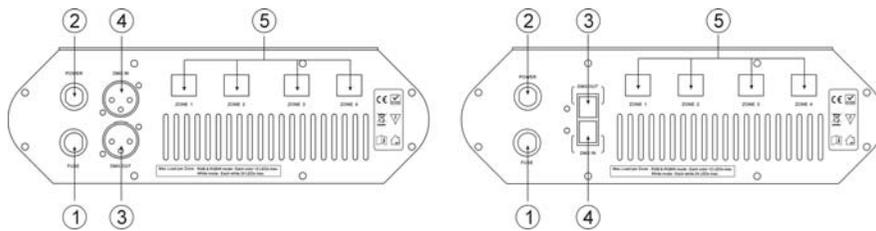
Using universal DMX controller to control the units, you have to set DMX address from 1 to 512 channel so that the units can receive DMX signal.

Press the **MENU** button up to when the **Address** is showing on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to change the DMX512 address. Once the address has been selected, press **ENTER** button to setup (or automatically return to the main functions without any change after idling one minute). Back to the previous function without any change, press **MENU** button. Please refer to the following diagram to address your DMX512 channel for the first 4 units.

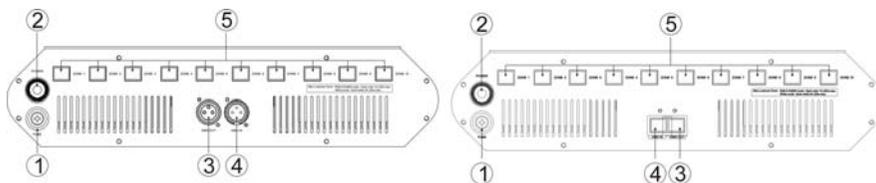
43 Channels:	<input type="text" value="0001"/> <input type="text" value="44"/> <input type="text" value="87"/> <input type="text" value="130"/>
40 Channels:	<input type="text" value="0001"/> <input type="text" value="41"/> <input type="text" value="81"/> <input type="text" value="121"/>
30 Channels:	<input type="text" value="0001"/> <input type="text" value="31"/> <input type="text" value="61"/> <input type="text" value="91"/>
20 Channels:	<input type="text" value="0001"/> <input type="text" value="21"/> <input type="text" value="41"/> <input type="text" value="61"/>
19 Channels:	<input type="text" value="0001"/> <input type="text" value="20"/> <input type="text" value="39"/> <input type="text" value="58"/>
16 Channels:	<input type="text" value="0001"/> <input type="text" value="17"/> <input type="text" value="33"/> <input type="text" value="49"/>
12 Channels:	<input type="text" value="0001"/> <input type="text" value="13"/> <input type="text" value="25"/> <input type="text" value="37"/>
11 Channels:	<input type="text" value="0001"/> <input type="text" value="12"/> <input type="text" value="23"/> <input type="text" value="34"/>
10 Channels:	<input type="text" value="0001"/> <input type="text" value="11"/> <input type="text" value="21"/> <input type="text" value="31"/>
8 Channels:	<input type="text" value="0001"/> <input type="text" value="9"/> <input type="text" value="17"/> <input type="text" value="25"/>
5 Channels:	<input type="text" value="0001"/> <input type="text" value="6"/> <input type="text" value="11"/> <input type="text" value="16"/>

6.2 Rear View

VP-240:



VP-600:



1. FUSE	For protecting the unit when the transient current is too big.
2. POWER	Power cable for AC input.
3. DMX OUT	DMX Output RJ45 or 3 pin XLR socket
4. DMX IN	DMX Input RJ45 or 3 pin XLR socket
5. LED	DC power & signal output for linking LED fixtures.