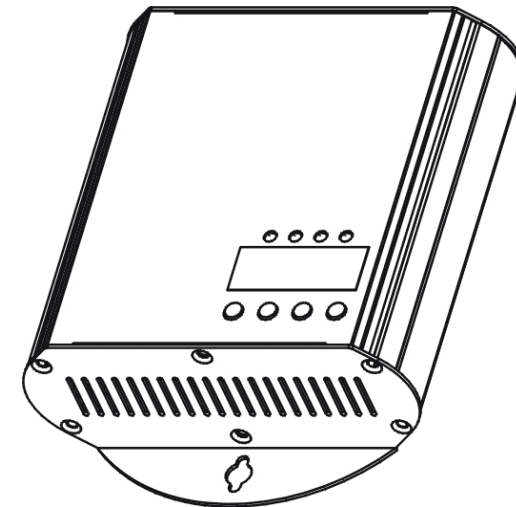




V Power



VP-60 VP-120



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

Specifications are subject to change without prior notice.

User Manual

Please read the instructions carefully before use

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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.

&

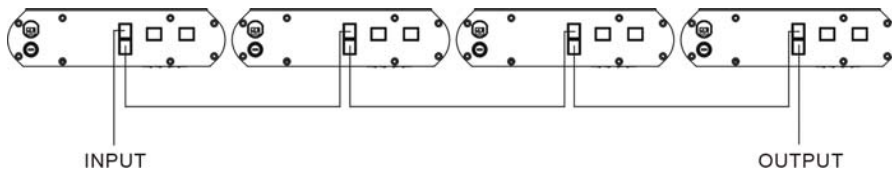
Harmonized Standard

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

Safety of household and similar electrical appliances

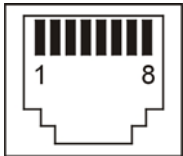
Part 1: General requirements

9.1 RJ45 Connection



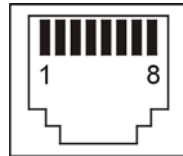
**DMX Input, Output
RJ45 Connector**

Front view of the Connector



**LED module Input
RJ45 Connector**

Front view of the Connector



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

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

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 could 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 enables V Power to control passive lighting fixtures that fitted with different LED emitters.
- Comes with 16 built-in programs under Master/Slave mode. 3 user editable chases, each chase up to 42 scenes.
- Under Manual mode, user can adjust each color's intensity to get the best color mixing effects.
- White Balance setup-User can adjust the pre-set White Balance of the V Power.
- Smooth fade in/fade out effect.
- It can be controlled by the LED Remote Commander (LED-RC).
- LED display for easy navigation.

3. Technical Specifications

• DMX Input

Control: DMX 512

DMX connection: RJ45 or 3 pin XLR

• DMX Output

Max. Power Output: 60W (VP-60) / 120W(VP-120)

Output Voltage: DC 48V

Max. Output Current: 350mA per color

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

White mode-Each white 24 LEDs max.

• Input Voltage: AC 100V-240V~50/60Hz

• Fuse: T 1A (VP-60)

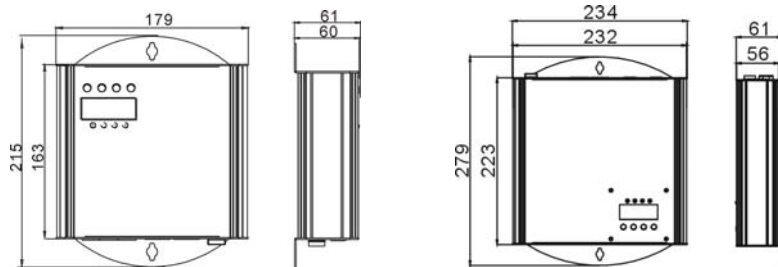
T 2A (VP-120)

• Dimension: 215×179×61 mm (VP-60)

279×234×61 mm (VP-120)

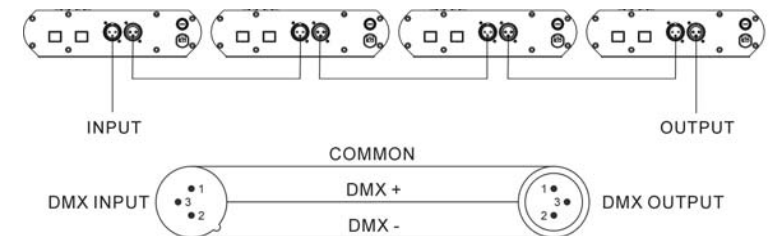
• Weight: 1.2kgs (VP-60)

2.1kgs (VP-120)



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.

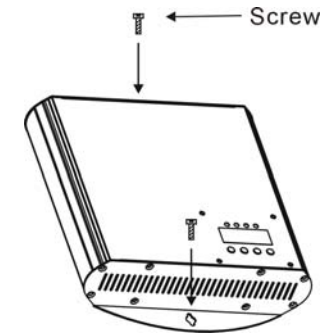


1. If you using a controller with 5 pins DMX output, you need to use a 5 to 3 pin adapter-cable.
2. At last unit, the DMX cable has to be terminated with a terminator. Solder a 120 ohm 1/4W resistor between pin 2(DMX-) and pin 3(DMX+) into a 3-pin XLR-plug and plug it in the DMX-output of the last unit.
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.

DMX 512 Configuration (3 CHs)		DMX 512 Configuration (2 CHs)
CH1/CH2	CH 3	CH1/CH2
Mixing ratio	Dimmer	Dimmer
<p>255 Warm White</p> <p>0 Cool White</p>	<p>255 100%</p> <p>0 0%</p>	<p>255 100%</p> <p>0 0%</p>

4. Installing instructions

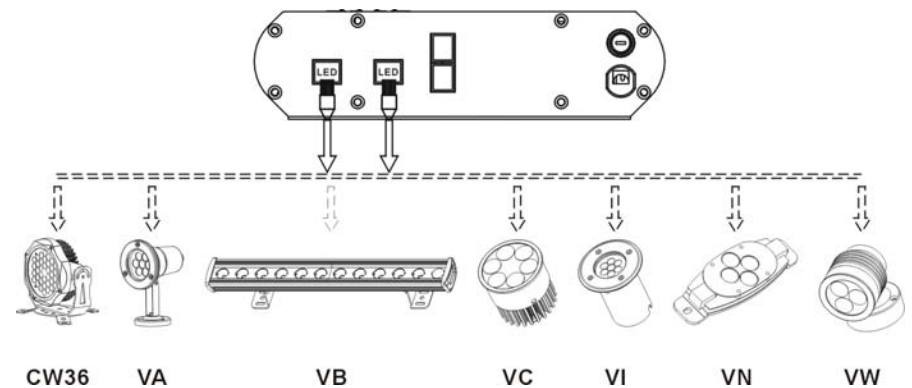
The VP-60/120 should be placed on a non-flammable flat surface in any orientation and fixed by the two screws. There are two mounting holes on the housing. Ensure that installation place is enough ventilated.



WARNING!

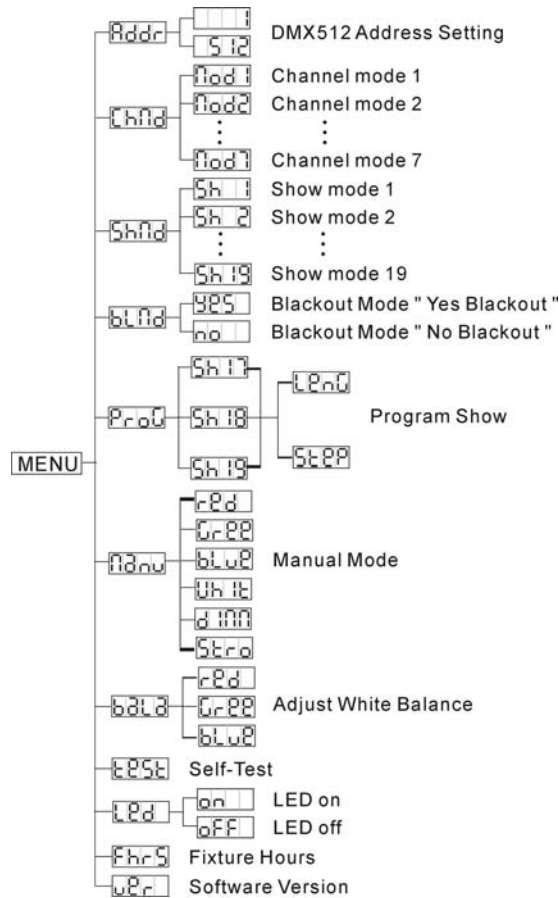
Ensure the mains power supply is off before installation or connect the LED fixture!
 Max. Load per Zone: RGB & RGBW mode - Each color 12 LEDs max!
 White mode - Each white 24 LEDs max!
 Maximum total cable length between V Power and all connected LED fixtures is 80 metres!

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-60 power output is 60 watt and the VP-120 power output is 120 watt.



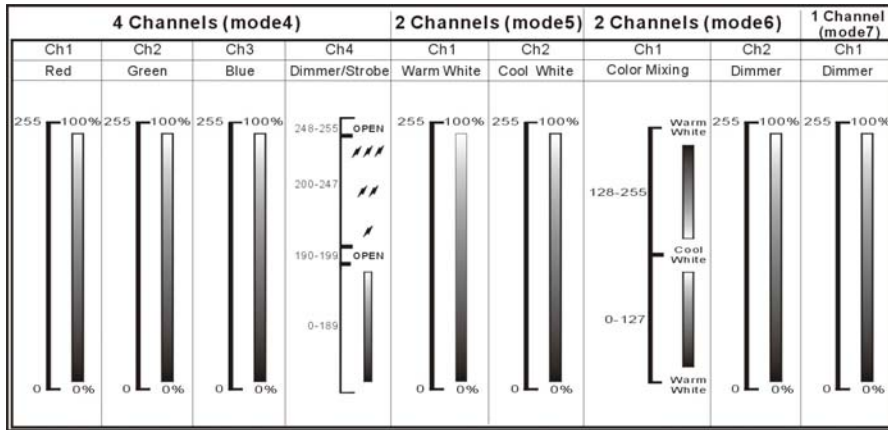
5. Main Function

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 (or it will automatically return to the main functions without any change after idling one minute). Back to the functions without any change press **MENU** button. The main functions are shown below:

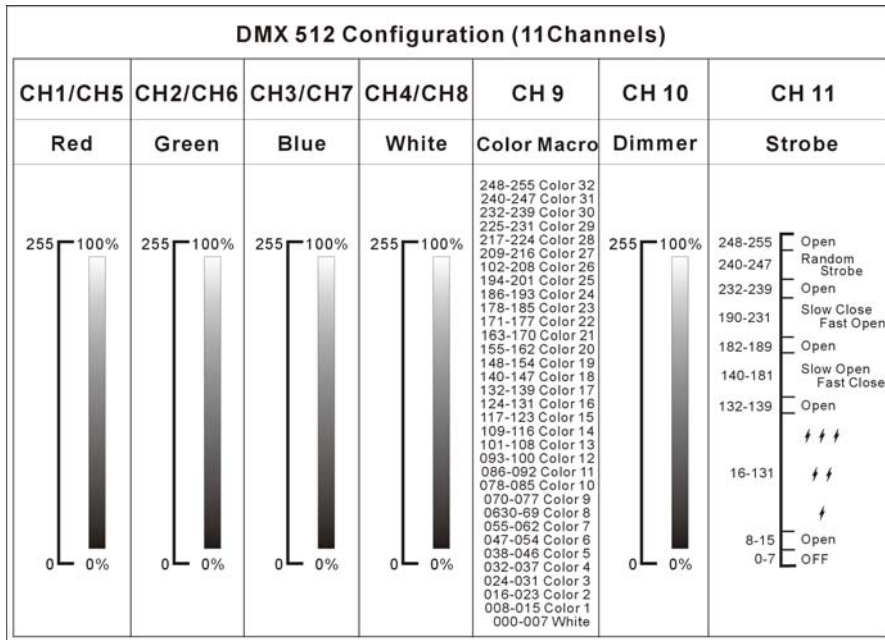


DMX 512 Configuration (8Channels)				DMX 512 Configuration (6 Channels)		
CH1/CH5	CH2/CH6	CH3/CH7	CH4/CH8	CH1/CH4	CH2/CH5	CH3/CH6
Red	Green	Blue	White	Red	Green	Blue
0 100%	0 100%	0 100%	0 100%	0 100%	0 100%	0 100%

DMX 512 Configuration (4 CHs)				DMX 512 Configuration (4 CHs)	
CH 1	CH 2	CH 3	CH 4	CH 1/CH3	CH 2/CH4
Red	Green	Blue	Dimmer/Strobe	Cool White	Warm White
0 100%	0 100%	0 100%	248-255 OPEN 200-247 190-199 OPEN 0-189	0 100%	0 100%



VP-120:



Addr DMX 512 Address Setting

Press the **MENU** button up to when the **Addr** is shown on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to change the DMX 512 address from 1 to 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.

ChMd Channel Mode

Press the **MENU** button up to when the **ChMd** is shown on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **Mod1** (11 channels) or **Mod2** (8 channels)...or **Mod7** (2 Channels) mode. Once the mode has been selected, press the **ENTER** button to setup (or automatically return to the main functions without any change after idling one minute). To go back to the previous function without any change press the **MENU** button.

ShNd Show

Press the **MENU** button up to when the **ShNd** is showing on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **Sh 1** (show 1) or **Sh 2** ... or **Sh 19** (show 19). Once the show has been selected, press the **ENTER** button and use **DOWN** and **UP** button to set fade time (0-255: 0.256s-66847s) and wait time(0-255:0.256s-66847s), once selected, press **ENTER** button to store (or automatically return to the main functions without any change after idling one minute). To go back to the previous function without any change press the **MENU** button.

blNd Blackout Mode

Press the **MENU** button up to when the **blNd** is showing on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **YES** (yes blackout) or **NO** (no blackout) mode. Once selected, press the **ENTER** button to setup(or automatically return to the main functions without any change after idling one minute). To go back to the previous function without any change press the **MENU** button.



Program Show

Press the **MENU** button up to when the **Prog** is showing on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **Sh 17** (show 17) or **Sh 18** (show 18) or **Sh 19** (show 19). Once the show has been selected, press the **ENTER** button to enter setting program. You can select **Len 0** (length, 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). **STEP** (step), select **STEP** to set **Colo** or **c-1**, **c-2** (color: 0-255, 1 for zone 1, 2 for zone 2), **White** or **U-1**, **U-2** (white) and **dimm** or **d-1**, **d-2** (dimmer) for every step. Automatically return to the main functions without any change after idling one minute. To go back to the previous function without any change press the **MENU** button.

NOTE: For VP-120, when you selected channel mode 5 or 6, you can set only **c-1**, **c-2** (color, 1 for zone 1, 2 for zone 2) and **d-1**, **d-2** (dimmer) for every step. When you selected channel mode 7, you can set only **d-1**, **d-2** (dimmer) for every step.



Manual Mode

Press the **MENU** button up to when the **Manu** is showing on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **Red** or **r-1**, **r-2** (red, 1 for zone 1, 2 for zone 2), **Green** or **G-1**, **G-2** (green), **Blue** or **b-1**, **b-2** (blue), **White** or **U-1**, **U-2** (white), **dimm** or **dimm** (dimmer), **Stro** (strobe) mode. Once selected, press the **ENTER** button to setup (or automatically return to the main functions without any change after idling one minute). To go back to the previous function without any change press the **MENU** button.

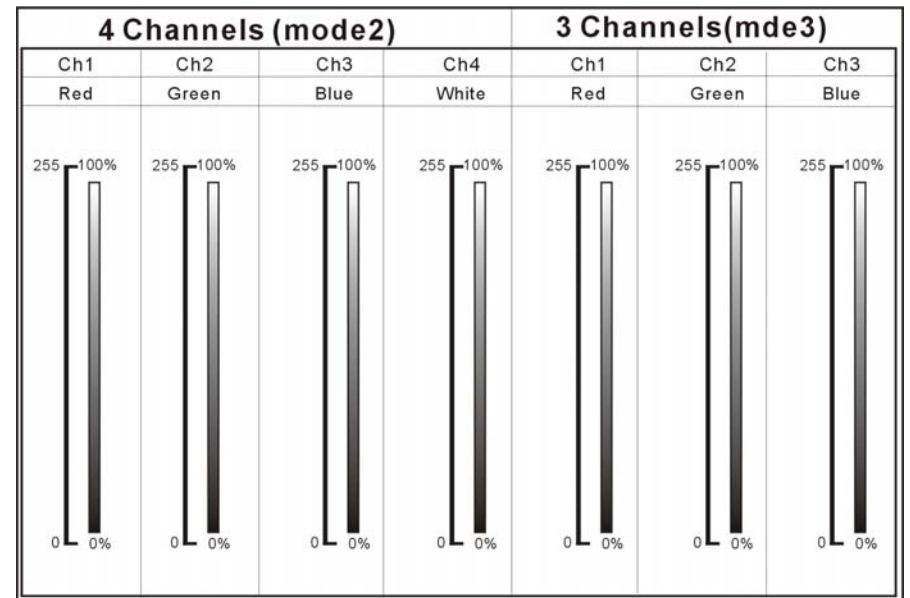
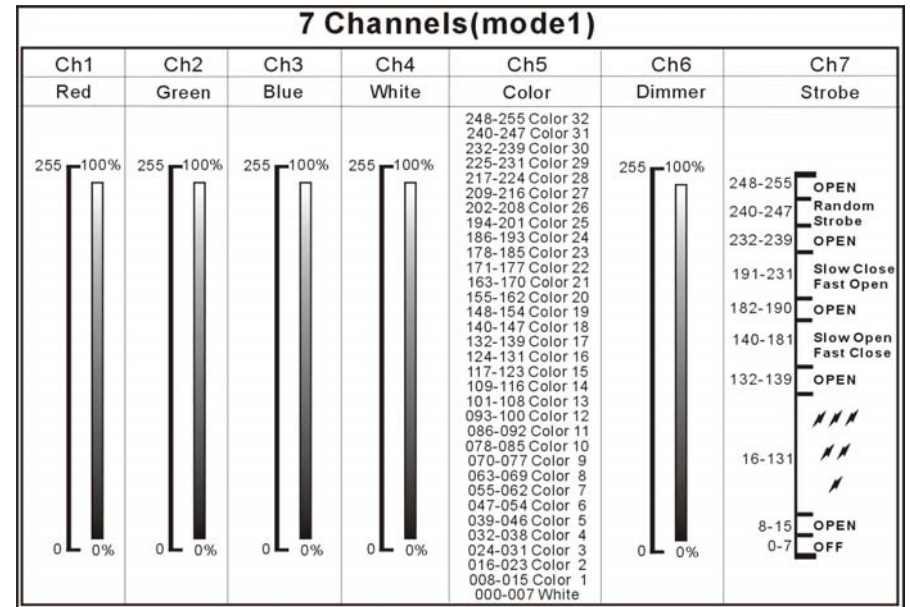


Adjust White Balance

Press the **MENU** button up to when the **Bal** is showing on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **Red** or **r-1**, **r-2** (red: 125-255, 1 for zone 1, 2 for zone 2), **Green** or

8. DMX512 Configuration

VP-60:



11 Channels:	1	12	23	34
8 Channels:	1	9	17	25
6 Channels:	1	7	13	19
7 Channels:	1	8	15	22
4 Channels:	1	5	9	13
3 Channels:	1	4	7	10
2 Channels:	1	3	5	7
1 Channel:	1	2	3	4

G-1, **G-2** (green), **BLU2** or **b-1**, **b-2** (blue) mode. Once selected, press the **ENTER** button to store (or automatically return to the main functions without any change after idling one minute). To go back to the previous function without any change press the **MENU** button.

TEST Self-Test

Press the **MENU** button up to when the **TEST** is blinking on the display. Pressing **ENTER** button and the unit will run self-test by built-in program. To go back to the main functions press the **MENU** button again.

LED LED

Press the **MENU** button up to when the **LED** is shown on the display. Pressing **ENTER** button and the display will blink. Use **DOWN** and **UP** button to select the **on** (LED display ON) or **OFF** (LED display OFF) mode. Once selected, press **ENTER** button to setup (or automatically return to the main functions without any change after idling one minute). To go back to the previous function without any change press **MENU** button.

Fhrs Fixture Hours

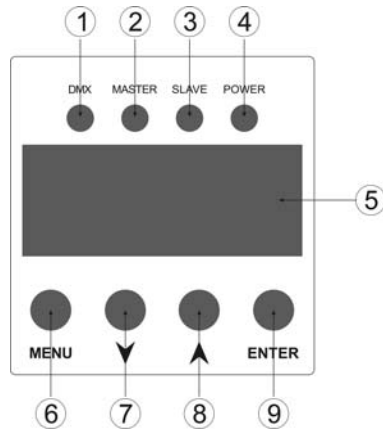
Press the **MENU** button up to when the **Fhrs** is blinking on the display. Pressing **ENTER** button and the display will show the number of working hours of the unit. To go back to the main functions press the **MENU** button.

Ver Software version

Press the **MENU** button up to when the **Ver** is blinking on the display. Pressing **ENTER** button and the display will show the version of software of the unit. To go back to the previous function press the **MENU** button.

6. Overview

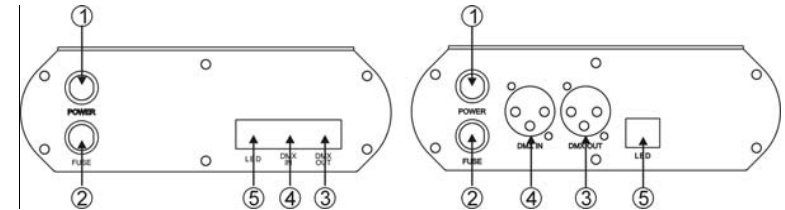
6.1 Front View



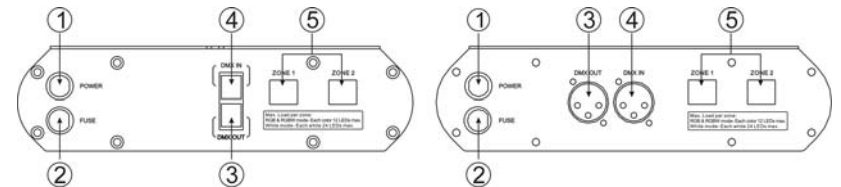
LED	1. DMX	On	DMX Input
	2. MASTER	On	Master Mode
	3. SLAVE	On	Slave Mode
	4. POWER	On	Power on
5. Display	To show the various menu and selected function		
6. Menu	Press the button to select the programming functions.		
7. Down	Press the button to go backward for the desired functions.		
8. Up	Press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

6.2 Rear View

VP-60:



VP-120



1. POWER	Power cable for AC input
2. FUSE	For protecting the unit when the transient current is too big
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

7. DMX Controller

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

Press the **MENU** button up to when the **Addr** 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 store (or it will automatically return to the main functions without any change after idling one minute). To go back to the main functions without any change press the **MENU** button. Please refer to the following diagram to address your DMX512 channel for the first 4 units.