

Constant Voltage & Constant Resistance Dual-purpose Class D Digital Power Amplifier

Operation Manual





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Product Features

Unique circuit design integrated constant voltage(70-100V) & constant resistance (4 ohm above),M3600V and M4800V are created as dual-purpose class D digital power amplifiers. They can be used for the applications in both public addressing system and commercial audio system.

There are four types of wiring mode selection. Stereo mode, bridge mode and mono mode are used for commercial audio purpose. 100V mode is used for public addressing purpose.

1U height, very light weight, easy to move and install.

Class D topological structure and integrated switch mode power supply circuit design..

High efficiency circuit conversion, strong output power and low power consumption..

Amplitude limit and fully automatic protections against direct current, over-heat, over-load, over-voltage, short-circuit, radio-interference, on/off switching and muting.

High quality fan for heat dissipation and exhaust system.

The air flows from front to back.

Well selected, certificated and high quality components and parts to ensure product stability.

Important Safety Instructions

- 1. Read these instructions.
- 2. Keep these instruction.
- 3. Heed all warnings.
- 4. Follow all instructions.
- 5. Do not use this apparatus near water.
- 6. Clean only with a dry cloth.
- Do not block any ventilation opening. Install in accordance with the manufacturer's instructions.
- Do hot install near any heat source such as radiator, heat register, stove, or other apparatus (including amplifier) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not ft into your socket, consult an electrician for replacement of the correct socket.
- 10. Protect the power cord from being walled on pinched, particularly at the plug, convenience receptacle, and the point where they exit from the apparatus.
- 11.Only use attachments/accessories specified by the manufacturer.



12.Use only with a cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/ apparatus combination to avoid injury from tip-over.

- 13. Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14.Refer all servicing to qualifed service personnel. Servicing is required when the apparatus has been damaged in any way, such as powersupply cord or plug is damaged ,liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
- 15. Use the mains plug to disconnect the apparatus from the mains,
- WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.
- WARING: THIS APPLIANCE SHALL BE CONNECTED TO A MAINS SOCKET OUTLET WITH A PROTECTIVE EARTHING CONNECTION.



18.DO NOT EXPOSE THIS EQUIPMENT TO DRPPING OR SPLASHING AND ENSURE THAT NO OBJECTS FILLED WITH LIQUIDS, SUCH AS VASES, ARE PLACED ON THE EQUIPMENT.

19. THE MAINS PLUG OF THE POWER SUPPLY CORD SHALL REMAIN READILY OPERABLE.



TO PREVENT ELECTRIC SHOCK OD NOT REMOVE TOP OR BOTTOM COVERS. NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



TO GOMPLETELY DISCONNECT THIS EQUIPMENT FROM THE AC MAINS, DISCONNECT THE POWER Supply Cord Plug from the AC Receptacle. The Mains Plug of the Power Supply Cord Shall

REMAIN READILY OPERABLE.

WARNING: PAY ATTENTION TO A PROCEDURE, PRACTICE, CONDI-TION OR THE LIKE, IF NOT CORRECTLY PERFORMED OR ADMERED TO, COULD RESULT IN PERSONAL INJUBY OR DEATH.

WATCH FOR THESE SYMBOLS:



The lightning bolt triangle is used to alert the user to the risk of electric shock.

The exclamation point triangle is used to alert the user to important operating or maintenance instructions.





This device is designed and evaluated under the con dition of 2000 meters tall above sea lever; and, it can be only used in locations below 2000 meters tall above sea level. Using the device above 2000 meters altitude would result in high safety risk.



The device is designed and evaluated under the condition of non-tropical climate; and, it can be only used in locations in non-tropical climate areas. Using the device in tropical climate areas would result in high safety risk.

IMPORTANT

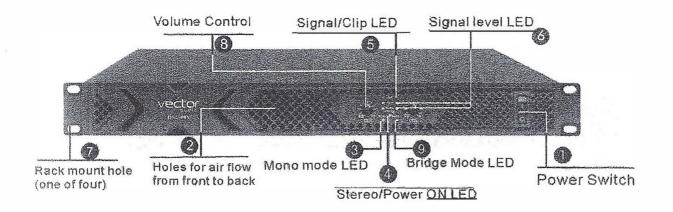
XLi serles amplifers require class 2 output wiring.

MAGNETIC FIELD

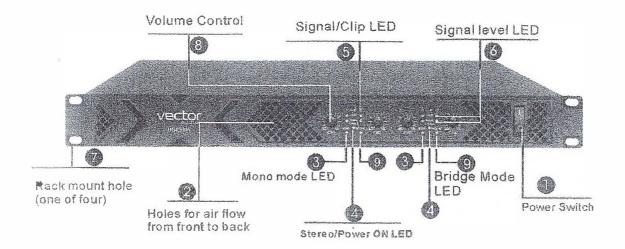
CAUTIONI do not locate sensitive high-yalo equipment such as preamplifiers or tope decks directly above or belo- w the unit, he cause this amplifier bes a high power density, it has a strong mag natic feld which can induce bun lide anetholded devices that are located nearly. The fail is strongest just above and below the unit.

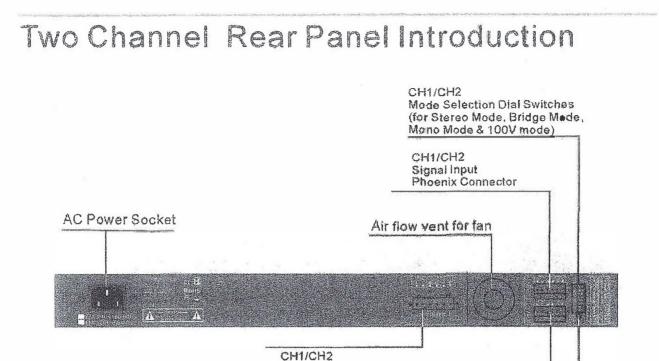
It an equipment rack is used, we recommend locating the sumplier (s) in the hottow of the rack and the rack and the preemptitor or other sensitive equipment at the top.

Two channel Front Panel Introduction



Four channel Front Panel Introduction



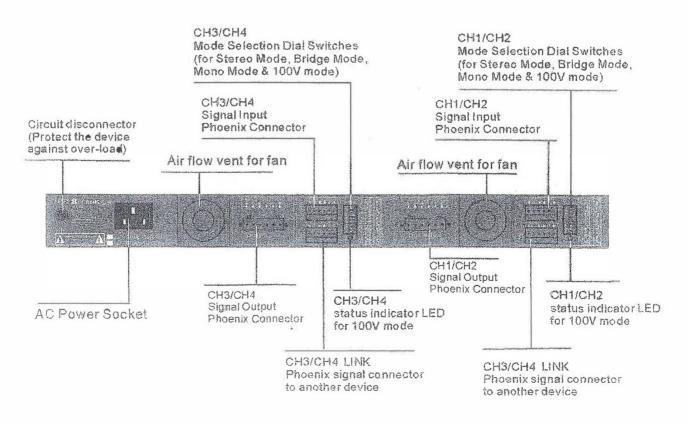


Signal Output Phoenix connector

> CH1/CH2 LINK Phoenix signal connector to another device

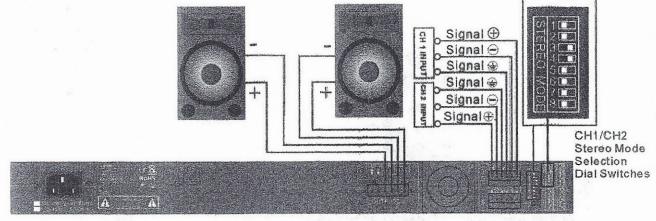
CH1/CH2 status indicator LED for 100V mode

Four Channel Rear Panel Introduction -



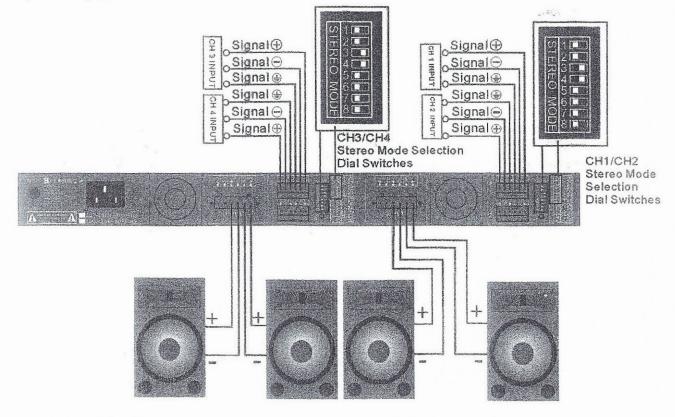
Wiring Instruction For Two Channel Stereo Mode (Dual Way)

- 1. Please push the dial switches 3,4 to the right, the other switches to the left. The STEREO indicator in front panel will light after the device set in stereo mode.
- 2. The signal will input from Ch1 and Ch2 respectively in Stereo mode, so turn Ch1 and Ch2 volume control to adjust the sound volume.
- Please refer to the figure below to do signal input wiring and output wiring to speaker system.



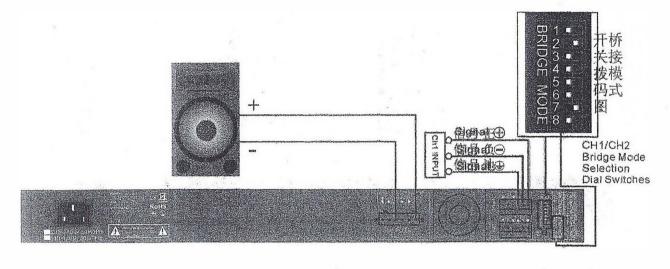
Wiring Instruction For Four Channel Stereo Mode (Dual Way)

- 1. Please push the dial switches 3,4 to the right, the other switches to the left. The STEREO indicator in front panel will light after the device set in stereo mode.
- 2. The signal will input from Ch1, Ch2, Ch3 and Ch4 respectively in Stereo mode, so turn Ch1, Ch2, Ch3 and Ch4 volume control to adjust the sound volume.
- Please refer to the figure below to do signal input wiring and output wiring to speaker system.



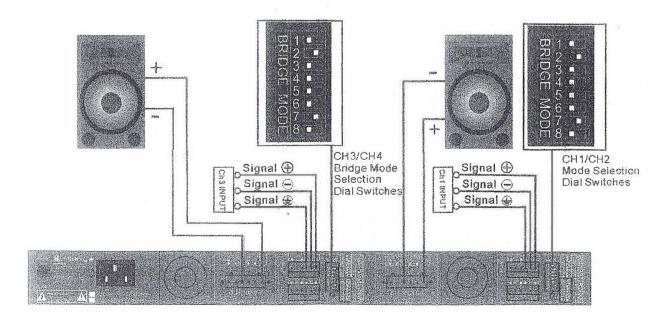
Wiring Instruction For Two Channel Bridge Mode

- 1. Please push the dial switches 2,7 to the right, the other switches to the left. The Bridge indicator in front panel will light after the device set in Bridge mode.
- 2. The signal will input from Ch1 in Bridge mode, no any input from Ch2, so turn just Ch1 volume control to adjust the sound volume. The volume control of Ch2 does not work in Bridge Mode.
- 3. Please refer to the figure below to do signal input wiring and output wiring to speaker system.



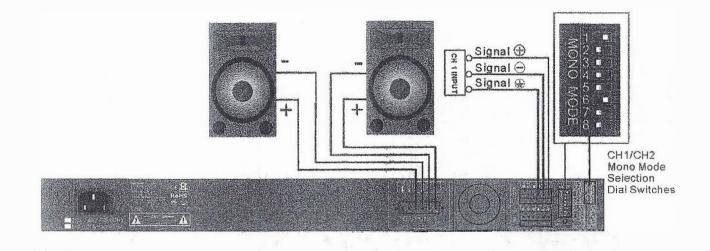
Wiring Instruction For Two Channel Bridge Mode

- 1. Please push the dial switches 2,7 to the right, the other switches to the left. The Bridge indicator in front panel will light after the device set in Bridge mode.
- The signal will input from Ch1 or Ch3 In Bridge mode, no input from Ch2 or Ch4, so turn just Ch1 or Ch3 volume control to adjust the sound volume. The volume control of CH 2 does not work in Bridge Mode.
- 3. Please refer to the figure below to do signal input wiring and the output wiring to speaker system.



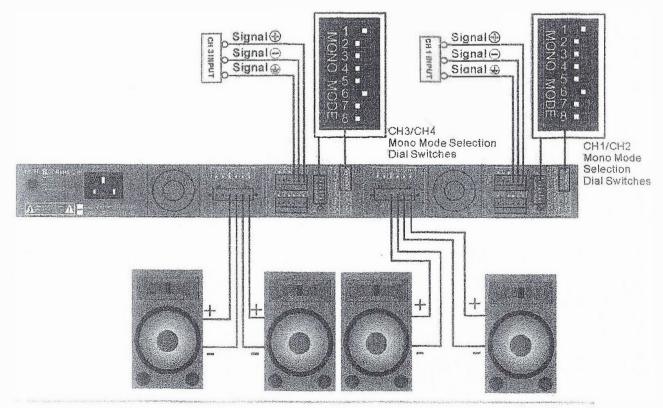
Wiring Instruction For Two Channel MONO Mode

- 1. Please push the dial switches 1,6 to the right, the other switches to the left. The MONO indicator in front panel will light after the device set in MONO mode.
- 2. The signal will input from Ch1 in MONO mode, no Input from Ch2, so turn just Ch1 volume control to adjust the sound volume of CH1 and CH2, The volume control of CH2 does not work in MONO Mode.
- 3. Please refer to the figure below to do signal input wiring and the output wiring to speaker system.



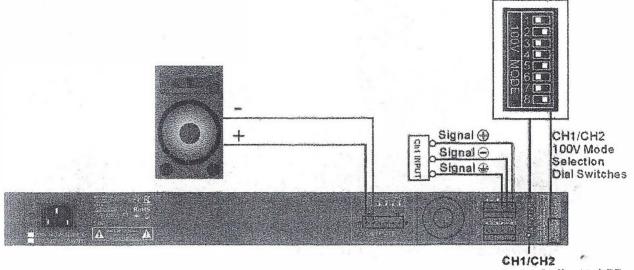
Wiring Instruction For Four Channel MONO Mode

- 1. Please push the dial switches 1,6 to the right, the other switches to the left. The MONO indicator in front panel will light after the device set in MONO mode.
- 2. The signal will input from Ch1 and Ch3 in MONO mode, no input from Ch2 and CH4, so turn just Ch1 volume control to alijust the sound volume of CH1 and CH2. The volume control of CH2 does not work in MONO Mode. Turn Ch3 volume control to adjust the sound volume of Ch3 and CH4. The volume control of CH4 does not work in MONO Mode.
- 3. Please refer to the figure below to do signal input wiring and output wiring to speaker system.



Wiring Instruction For 2 Channel Model 100V Mode

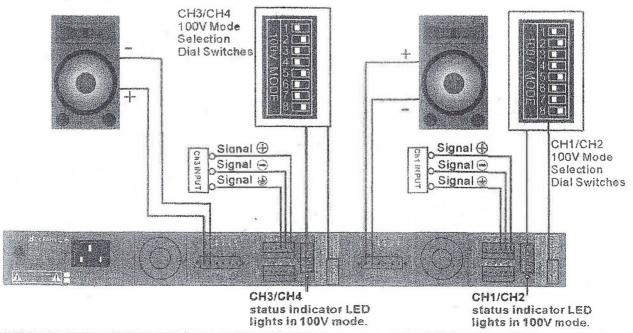
- 1. Please push the dial switches 2, 5,8 to the right, switches 1,3,4,6,7 to the left. The 100V LED indicator will light after the device set in 100V mode.
- 2. The signal will just input from Ch1 in 100V mode, so connect Ch1 but just keep Ch2 disconnected and turn Ch1 volume control to adjust the sound volume.
- Please refer to the figure below to do signal input wiring and output wiring to speaker system.



status indicator LED lights in 100V mode.

Wiring Instruction For 4 Channel Model 100V Mode

- 1. Please push the dial switches 2, 5,8 to the right, switches 1,3,4,6,7 to the left. The 100V LED indicator will light after the device set in 100V mode.
- 2. The signal will just input from Ch1 or CH3 respectively in 100V mode, so connect Ch1 or Ch3 but just keep Ch2 or CH4 disconnected and turn Ch1 and Ch3 volume control to adjust the sound volume.
- 3. Please refer to the figure below to do signal input wiring and output wiring to speaker system.



Specifications

Model Number	M3600V	M4800V
1KHz(EIA) with 0.5% THD	0.5001	
40 STEREO (per channel) 80 STEREO (per channel)	2x500W 2x300W	4x500W 4x300W
80 bridge mono	1000₩	2x1000W
70-100V circuit mode	800W	2X800W
Channel	2 channel	4 channel
Circuit Category	Class D	Class D
Frequency Response (at 1 Watt)	20Hz-20KHz, +0/-1dB	
THD	<0.2%	
Power Voltage	~90-120V or ~220-240V	
Power Connectors	Standard IEC power connectors	
Voltage Gain	32dB	
Damping Factor	>300 (8 \Q),10Hz-400Hz	
Signal Noise Ratio(20-20KHz)	>100dB	
Damping Factor	-65dB	
Input Sensitivity	0.776V	
Input Resistance (Balance)	20K	
Input Resistance (unbalance)	10K	
Connectors and LED Lights		
Input Connectors	Phoenix Connectors	
Output Connectors (to speaker system)	Phoenix Connectors	
Control knob in front panel	Power switch, Gain/Volumn Centrol	
Control knob in rear panel	 Iteration and constant voltage 100V 	
LED indicators	LED indicators for Stereo Mode /Power On, Signal level. Bridge/Mono mode, Protect and Clip LED are in front panel. 100V Mode indicator LED is in rear panel.	
Heat dissipation and exhaust	High speed fans helping with heat dissipation. Air flows from front to back.	
Protections	Amplitude limit and fully automatic protections against direct current, over-heat, over-load, over-voltage, short circuit,radio-interference, on/off switching and muting.	
Product Dimensions (WxHxD)	483x44x350mm	483x44x350mm
Net Weight	4.95kg	6.30kg
Shipping Weight	6.30kg	7.65kg
Accessories	Power cable 1pc, manual 1pc	