



Power Amplifier

VDA-1000MkII

OWNER'S MANUAL

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CONGRATULATIONS !

Thank you for purchasing Vestax's VDA-1000 Power Amplifier.

We suggest that you read through this owner's manual thoroughly to enjoy this product safely and in knowledge of all its special features and suitable applications.

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CAUTION

RISK OF ELECTRIC SHOCK DO NOT OPEN



**CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK
DO NOT REMOVE COVER (OR BACK)
NO USER-SERVICEABLE PARTS INSIDE
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL**



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

**TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT
EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.**

IMPORTANT SAFEGUARDS

READ BEFORE OPERATING EQUIPMENT

This product was designed and manufactured to meet strict quality and safety standards. There are, however, some installation and operation precautions which you should be particularly aware of.

1. Read instructions-All the safety and operating instructions should be read before the appliance is operated.
2. Retain instructions-The safety and operating instructions should be retained for future reference.
3. Heed Warnings-All warnings on the appliance and in the operating instructions should be adhered to.
4. Follow Instructions-All operating and use instructions should be followed.
5. Cleaning-Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.
6. Attachments-Do not use attachments not recommended by the product manufacturer as they may cause hazards.
7. Water and Moisture-Do not use this product near water-for example, near a bath tub, wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.
8. Accessories-Do not place this product on an unstable cart, stand, tripod, or table. The product may fall, causing serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer, or sold with product. Any mounting of the appliance should follow the manufacturer's instructions, and should use a mounting accessory recommended by the manufacturer.
9. This product should never be placed near or over a radiator or heat register. This product should not be placed in a built-in installation such as a bookcase or rack unless proper ventilation is provided or the manufacturer's instructions have been adhered to.
10. Power sources-This product should be operated only from the type of power source indicated on the marking label. If you are not sure of the type of power supply to your home, consult your appliance dealer or local power company.
11. Lightning-For added protection of this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet. This will prevent damage to the product due to lightning and power-line surges.
12. Overloading-Do not overload wall outlets and extension cords as this can result in a risk of fire or electric shock.
13. Object and Liquid Entry-Never push objects of any kind into this product through openings as they may touch dangerous voltage points or short-out parts that could result in a fire or electric shock. Never spill liquid of any kind on the product.
14. Servicing-Do not attempt to service product yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified personnel.

15. Damage Requiring Service- Unplug this product from the wall outlet and refer servicing to qualified service personnel under the following conditions:

- a. When the power-supply cord or plug is damaged.
- b. If liquid has been spilled or objects have fallen into the product.
- c. If the product has been exposed to rain or water.
- d. If the product does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions as an improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the product to its normal operation.
- e. If the product has been dropped or cabinet has been damaged.
- f. When the product exhibits a distinct change in performance this indicates need for service.

16. Replacement Parts- When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original parts. Unauthorized substitutions may result in fire, electric shock or other hazards.

17. Safety Check- Upon completion of any service or repairs to product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

18. Carts and Stands- The appliance should be used only with a cart stand that is recommended by manufacturer.

19. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.



FEATURES

- The VDA-1000 is compact, light weight, stands vertically and is designed with a handle for easy carrying. The secret of the compact size is a high grade switching regulator applied to the power circuit which enables a constant 500W+500W output (4Ω).
- Various protection circuits such as Thermal protection (over-temperature power limiting, thermal shutdown), Short-circuit/ overload output protection, Clip limiter, Permanent signal limiter and high frequency protection are built in to the VDA-1000 for safety precautions.
- The VDA-1000 can be used as a mono power amplifier with a maximum 1000W output into 8Ω, by simply switching the [STEREO] - [BRIDGE] switch located on the rear panel to BTL connection mode.
- XLR&1/4TRS - PHONE Combo jack balanced stereo input, RCA pin stereo input and USB digital input for direct connection with computers.
- SPEKON connectors applied for easy connecting and disconnecting.
- The front panel is designed with an 8 point LED stereo graph meter which provides a clear view of the input level, a power LED, and a protection LED (PROT) which indicates that the protection circuit has been activated.
- Maximum power output is selectable from 100W/300W/500W with a flick of a switch to not let the VDA-1000 overflow the maximum input level of the speakers.

FEATURES

The VDA-1000MKII is a digital power amplifier designed for the new generation of computer DJs. Despite the size, a radiation fan has been newly equipped to help reduce heat generated from the amplifier. It is, highly portable and provides a powerful 1000W output suitable for sound systems of computer remix DJs, bedroom DJs, restaurant PA's and mobile DJs. The unique compact design and multi inputs expand to several applications.

With the latest digital amplification technology offering significant lower heat dissipation, the VDA-1000MKII has combined the warmth of analog sound and high power output within its compact and portable design.

FUNCTIONS

The rear panel is equipped with industrial combo jacks which enable connection for both balanced XLR and 1/4inch phono plugs. LINE (RCA) and USB digital input is available on the front panel enabling connection with any kind of device.

Power output is selectable from 100W+100W / 300W+300W / 500W+500W (4Ω). A maximum 1000V output is possible when selecting BTL mode. SPEKON connectors applied for easy connecting and disconnecting. A must feature for mobile DJs.

SPECIFICATIONS

AUDIO SECTION

Slew Rate (8W) : 50V/Us

Gain : 32 dB

S/N ratio : 105 dB/A

Distortion : <0.5%(THD, DIM, SMPTE)

Bandwidth : 10 Hz - 30KHz

Impeadance : 10 K ohm.

Damping factor 500Hz/8 ohm > 500

POWER AMP SECTION

Bridged 8ohm = 1000W 16 ohm = 520 W

Power EIAJ, both channels driven

4 ohm= 2× 500W

8 ohm= 2× 270W

Power continuous, both channels driven

4 ohm= 2× 390W(1KHz, 0.5% THD)

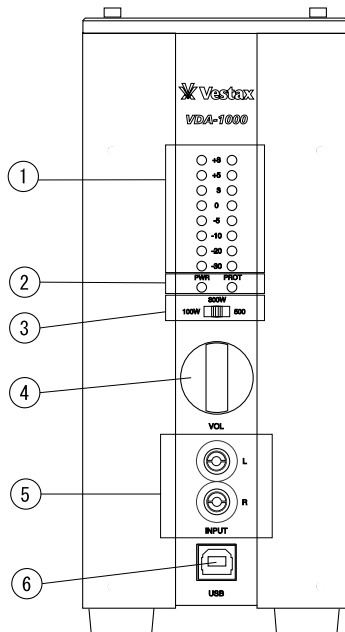
8 ohm= 2× 240W(1KHz, 1% THD)

DIMENSIONS

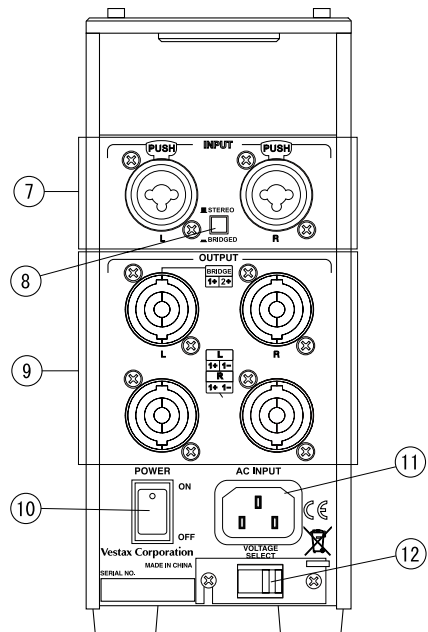
89(W)×195(H)×320(D)mm

FUNCTIONS

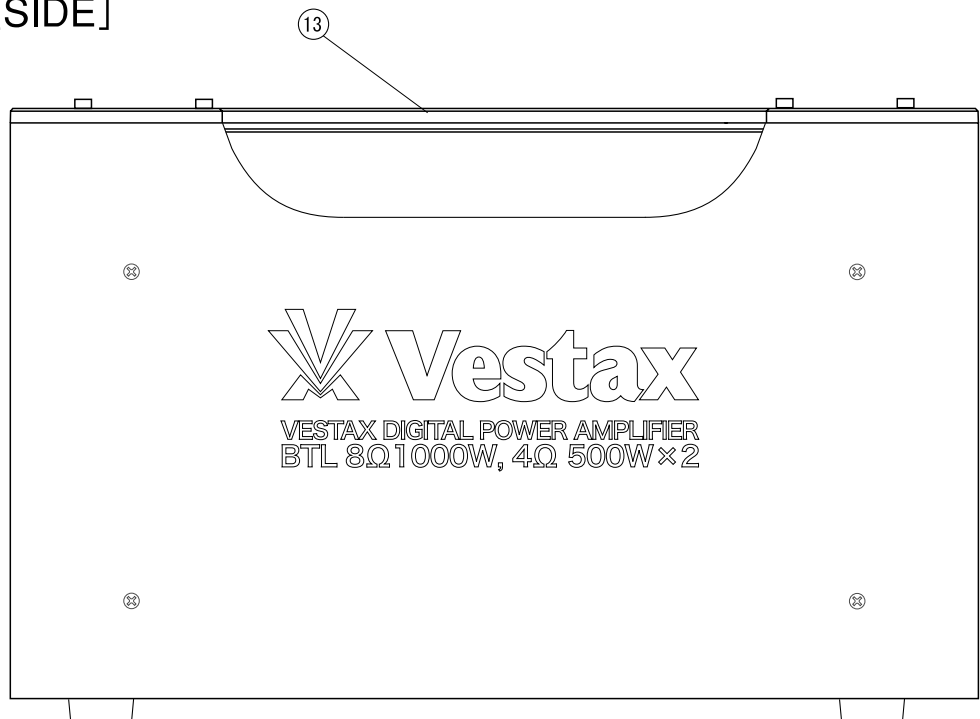
[FRONT]



[REAR]



[SIDE]



[FRONT PANEL]

1. LED Bar Graph Meter (L/R)
This bar graph meter indicates the input signal level between -30dB ~ +8dB with 8 LEDs.
2. PWR and PROT LED Select Switch
The PWR LED lights up when the power is turned on. The PROT LED will light up when the VDA-1000 is overloaded and the protection circuit has been activated. TURN OFF the power IMMEDIATELY when the PROT LED lights up.
3. Maximum Power Output
Select the maximum power output from 100W, 300W, or 500W according to the maximum input level of the speakers.
4. Input Level Knob
This knob adjusts the input volume level. Adjust the input level to a level that matches the speakers and an appropriate level of the LED indication.
5. RCA Pin (L/R) Input
RCA Pin JACK type stereo input. The input signal entered from this terminal is mixed with the input signal entered from the rear panel.
6. USB port
Connect this input to a computer via USB to output digital audio files from the computer.

[REAR PANEL]

7. XLR (L/R) Balanced Input
Main XLR type stereo inputs. Pin assign = 1 GND, 2 HOT, 3 COLD.
8. STEREO/BRIDGE Select Switch
Select STEREO for when using the VDA-1000 as a stereo power amplifier. Select BRIDGE for when using the VDA-1000 with BTL connection mode. The VDA-1000 will take input from the L channel (BRIDGE) as a mono amplifier when used in BTL mode.
9. Speaker Output
4 SPEKON connectors for 2 sets of L/R speaker setups. The pins inside the SPEKON cables are marked on rear panel of the VDA-1000.
The top SPEKON outputs with the BRIDGE marking will be the outputs used when the VDA-1000 is switched to BTL mode.
CAUTION: Please be sure that the parallel impedance is NOT LESS THAN 4Ω when connecting a multiple number of speakers.
10. POWER ON/OFF Switch
This is the AC power switch of the VDA-1000. The power will turn on by switching to ON and the PWR LED on the front panel will light up.
11. AC Input
This is the AC power input, please connect the power cable included with the VDA-1000.
12. Input Voltage Select Switch (Overseas model only)
The voltage of the VDA-1000 is selectable from 115V and 230V. Select the correct voltage that is required in your region. The switch is covered with a plastic protection panel to prevent the switch from being accidentally switched.

CAUTION: The chassis heats up when the power is on. Place the VDA-1000 in a well ventilated space vertically. To prevent possible damage, DO NOT place the VDA-1000 horizontally, or place other VDA-1000s or devices on top of the VDA-1000. If using a multiple number of VDA-1000s together at high output, place each unit away from each other to gain heat liberation.

Specifications

Max Power Output (EIAJ 1kHz, 1% THD) :	STEREO Mode (100W,300W,500W Selectable) 500W+500W Max, 4ohm/ 270W+270W Max, 8ohm BRIDGE(BTL) Mono Mode 1000W , 8ohm Load / 520W, 16ohm
Continuous Power Output (1kHz, 0.5% THD) :	STEREO Mode, 390W+390W 4ohm,/ 240W+240W, 8ohm BRIDGE Mode, 800W, 4ohm / 490W, 8ohm
Nominal Input Level	: XLR Combo, 0dBm(0.78V) RCA Pin, 0dBV(1.0V) USB = Ver.1.1
Input Impedance	: XLR Combo, 10kohm Balanced RCA pin,10kohm, Unbalanced
Gain	: 32dB
Slew Rate (8ohm)	: 50V/ ms
Frequency Response	: 10Hz - 30kHz
S/N ratio	: 105dB (A WTD)
Distortion	: Less than 0.5% (THD, DIM, SMPTE)
Damping factor 8ohm	: 100Hz, less then 500 1kHz, less then 200 10kHz, less then 100
Weight	: 3.0kg
External dimensions	: 89(W), 195(H), 320(D) / (89(W), 205(H), 332(D)mm,max)
Power Requirments	:DM , AC100V +/- 10%, 50/60Hz, 2.8A(2.2A) US, AC115V +/- 10%, 50/60Hz, 2.6A (2.0A) EC, AC230V +/- 10%, 50/60Hz, 1.6A (1.0A)

