

# VIOLECTRIC HPA V324

The **HPA V324** is a new device in the Violectric range. It offers a **TRUE-BALANCED** headphone amplifier with four power stages, two inputs, balanced and unbalanced, VU-Meters for input level display and a pre-amp function with balanced and unbalanced outputs on the back. **Pre-Gain is adjustable on the front.** The volume can be set with any infrared remote control. The latest findings from the multiple test winners from Lake People, Violectric and Niimbus had been implemented in this headphone amplifier.



Picture shows the original size

## HPA V324 features:

- 2 analogue stereo inputs, balanced via XLR female and unbalanced via RCA
- -18 ... +12 dB **Pre-Gain on the front** for optimal adaption of **HPA V324**
- **2 VU-Meters** for input level display
- Volume control with RK 27 motorized potentiometer, **Remote Control**
- **4 powerful amps (TRUE BALANCED)**, 5000 mW Pmax into 50 Ohm, 21 V RMS into 600 Ohm
- Delayed switch-on of the headphone outputs after power-on
- Headphone path and line-out path individually selectable
- Line-out path Pre/Post (with or without volume control) selectable
- 1 balanced headphone output with 4-pin XLR, female
- 1 balanced headphone output with 4,4 mm Pentaconn
- 1 unbalanced headphone output with 1/4" (6,3 mm) phone jack
- Line Out balanced via XLR male
- Line Out unbalanced via RCA
- 25 W toroidal transformer

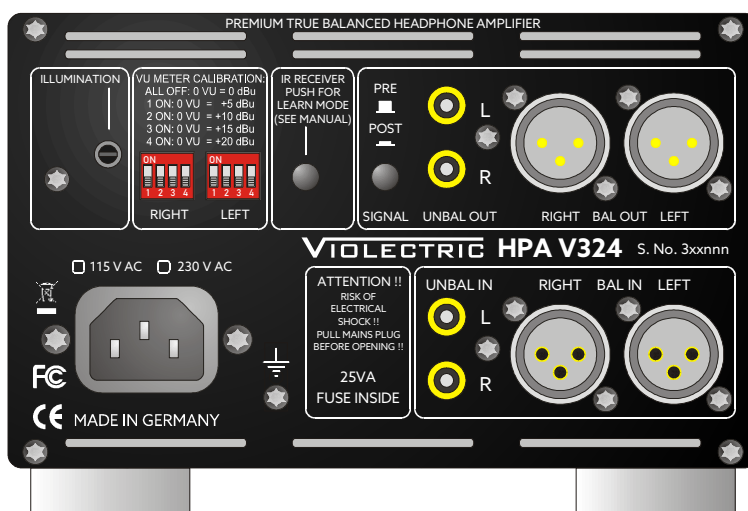
### It is on you:

Headphone Amplifier?

Pre-Amplifier?

A Combination?

The headphone outputs and the rear line outputs can be de/activated by a switch on the front. Connect not only your headphones to the **HPA V324** but also your power amplifier or your active speakers and enjoy a compact and fantastic sounding headphone amplifier and a premium pre-amplifier!



**HPA V324** not only offers one of the most powerful headphone amplifiers in the market, but also:

- **LOWEST NOISE** through a very small amount of internal gain.  
This makes the amplifier's self-generated noise inaudible.
- **HIGH OUTPUT VOLTAGE** through +/- 25 V (50 V) internal operating voltage.  
Therefor ideally suited for high-impedance headphones deserving high output voltage swing.
- **HIGH OUTPUT POWER** thanks to powerful amplifiers which offer far more power even the most demanding headphones would need. So, best suited for headphones with low impedances as well as magnetostatic headphones!
- **HIGH DAMPING FACTOR** due to lowest output impedance.  
Therefor the ideal match for difficult to drive headphones without negative side effects and with the guarantee for uncompromising frequency response.

### Technical Data:

All Data RMS unwtld., 20 Hz - 20 kHz, Pre-Gain set to 0 dB

#### Analogue input parameter

Line inputs (stereo): 1 x XLR female, balanced; 1 x RCA, unbalanced

Max. input voltage: + 21 dBu, input impedance: 10 kohm

#### Line Out Parameter

Line outputs (stereo): 1 x XLR male, balanced; 1 x RCA, unbalanced

Max. output voltage: + 21 dBu, output impedance: 1 Ohm

#### Headphone amp parameter

Nominal input sensitivity: +6 dBu

Power amp gain: 0 dB unbal. / +6 dB bal.

PRE-GAIN: -18 / -12 / -6 / 0 / +6 / +12 dB

Frequency range: 5 Hz ... 150 kHz (- 0,5 dB)

Output impedance: 0,15 Ohm unbal. / 0,3 Ohm bal.

Damping factor (Load 50 Ohm): 320 unbal. /160 bal.

Dynamic range: > 131 dB (A-wtd)

Noise: < -102 dBu (A-wtd)

THD+N (1kHz/2x10V/100R = 1W): < -102 dB / < 0,0008 %

THD+N (1kHz/2x4V/32R = 0,5W) : < -100 dB / < 0.001 %

Crosstalk: -105 dB (1 kHz) / -100 dB (15 kHz)

Headphone outputs: 1 x 4-pin XLR, 1 x 4,4 mm Pentaconn, 1 x 1/4" (6.3 mm) phone jack

#### General

Supply voltage: 230 V AC / 115 V AC selectable, max. 25 VA

Front, Back: 6 mm / 3 mm Aluminium, black anodized, laser engraved

Case: 3mm / 4 mm Aluminium, black anodized

Case dimensions: 6,7 x 4,1 x 8,8" (170 x 105 x 225 mm) (W x H x D)

Overall dimensions: 6,7 x 4,4 x 9,8" (170 x 113 x 250 mm) (W x H x D)

balanced headphone outputs (both channels driven)			
R <sub>L</sub> (Ohm)	P <sub>L</sub> (mW)	U <sub>A</sub> (V)	U <sub>A</sub> (dB)
600	740	21,1	28,7
300	1450	20,9	28,6
100	4150	20,4	28,4
50	5000	15,8	26,2
32	4400	11,9	23,7
16	2500	6,3	18,2