

PRODUCT INFORMATION

KHV-200

Hybrid headphone amplifier

The number of people who like to enjoy music through headphones has grown steadily over the past few years and is still very popular.

Many audio sources and amplifiers offer the possibility to connect headphones, but the sound usually falls short of how the headphones could actually perform. To obtain the most out of your headphones, we at Vincent have developed a completely new headphone amplifier - the KHV-200. In charge for this development was, as with the models SV-237MK, SV-737 or SA-T7, Dipl.-Ing. Frank Blöhbaum.



The technical parameters of headphones vary enormously: the impedance of high quality headphones ranges from 16 ohms to 600 ohms. With the same performance - even reproduction with the same power input - a low impedance means a greater current and lower voltage requirement. In the case of headphones with a relatively high impedance of e.g. 300 or 600 ohms, the opposite is true: for their harmonious control, the headphone amplifier must deliver a comparatively high voltage and therefore a lower current. Mobile end devices such as cell phones and tablets, for example, only provide low output voltages, which is why headphones with higher impedances on such devices are often too quiet.



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The headphone amplifier KHV-200 was designed in such a way that it can control almost all available headphones with the highest sound quality. Adjustments for this can be made using the integrated gain switch. In addition to the usual 6.3 mm jack connection, the device also has a 4-pin XLR connection. This means that even the highest quality headphones can be operated on the KHV-200.



KHV-200



Connections

SPECIFICATIONS

Frequency Response	20 Hz - 20 kHz ($\pm 0,1$ dB)
Total harmonic distortion	< 0,01% (1 kHz; 0,1 W; 32 Ohm)
Signal-to-noise ratio	> 95 dB
Input impedance	33 kOhm
Maximum input voltage	4 Veff
Nominal amplification headphone output	Low Gain: -2,66 dB High Gain: 13,64 dB
Nominal gain preamplifier output	Low Gain: -11,06 dB High Gain: 5,13 dB
Nominal gain record output	0 dB
Inputs	2 x stereo RCA
Outputs	1 x stereo RCA (PRE OUT) 1 x stereo RCA (REC OUT) 1 x headphone 6,3 mm jack socket 1 x headphone XLR 4-pin
Mains connection	230 V / 50 Hz and 115 V / 50/60 Hz switchable
Dimensions (B x H x T)	210 x 85 x 277 mm
Weight	3,6 kg
Color	black/silver
Tubes	2 x E180F/6SCH9P, 1 x ECC82