



# Price List 02 / 2018

## Net Price List PROFESSIONAL USER

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Model	Description	EUR Netto (ex. VAT)	Special EUR (ex. VAT)	EUR + 20% DDS (incl. VAT)
<b>Headphone Amps</b>				
	<p><b>HPA V100</b></p> <p><b>HEADPHONES AMPLIFIER</b> High transmission quality for low-, medium- and high-impedance headphones. Amplifier Gain 8 dB; Amplifier gain with Pre-Gain -4/+2/+8/+14/+20 dB; Frequency Range (-0,5 dB) 5 Hz - 60 kHz; Damping Factor (in 50 Ohm Load) 400; Dynamic Range (A-wtd) 128 dB; Noise (A-wtd) -100 dB; THD+N @ 10V / 100 Ohms (1W) -109 dB; THD+N @ 4V / 32 Ohms (0,5W) -103 dB; Crosstalk @ 1 kHz -115 dB; Crosstalk @ 15 kHz -95 dB; Output Voltage in 600 Ohms 19,6 V; Output Power in 600 Ohms 640 mW; Output Voltage in 100 Ohms 14,5 V; Output Power in 100 Ohms 2100 mW; Output Voltage in 50 Ohms 10,5 V; Output Power in 50 Ohms 2200 mW; Output Voltage in 32 Ohms 7,4 V; Output Power in 32 Ohms 1700 mW; Output Voltage in 16 Ohms 3,5 V; Output Power in 16 Ohms 780 mW; Number of Outputs 2.</p>	582,00		<b>698,00</b> EUR
	<p><b>HPA V200</b></p> <p><b>HEADPHONES AMPLIFIER</b></p> <p>The HPA V200 was developed with the target to enable ultimate transmission quality for low-, medium- and high-impedance headphones. Due to its specific, variable, low-noise and low-distortion circuit design especially optimised for dynamic headphones, the HPA V200 fulfils even most sophisticated demands.</p> <p>Amplifier Gain 8 dB; Amplifier gain with Pre-Gain -4/+2/+8/+14/+20 dB; Frequency Range (-0,5 dB) 5 Hz - 60 kHz; Damping Factor (in 50 Ohm Load) 800; Dynamic Range (A-wtd) 128 dB; Noise (A-wtd) -100 dB; THD+N @ 10V / 100 Ohms (1W) -110 dB; THD+N @ 4V / 32 Ohms (0,5W) -103 dB; Crosstalk @ 1 kHz -110 dB; Crosstalk @ 15 kHz -95 dB; Output Voltage in 600 Ohms 18,5 V; Output Power in 600 Ohms 570 mW; Output Voltage in 100 Ohms 14,8 V; Output Power in 100 Ohms 2200 mW; Output Voltage in 50 Ohms 11,6 V; Output Power in 50 Ohms 2700 mW; Output Voltage in 32 Ohms 8,0 V; Output Power in 32 Ohms 2000 mW; Output Voltage in 16 Ohms 4 Veff; Output Power in 16 Ohms 1000 mW; Number of Outputs 2</p>	791,00		<b>949,00</b> EUR
	<p><b>HPA V220</b></p> <p><b>HEADPHONES AMPLIFIER</b></p> <p>The HPA V220 was developed with the target to enable ultimate transmission quality for low-, medium- and high-impedance headphones. Due to its specific, variable, low-noise and low-distortion circuit design especially optimised for dynamic headphones, the HPA V220 fulfils even most sophisticated demands. Furthermore HPA V220 offers selectable inputs and an output management.</p> <ul style="list-style-type: none"> <li>- 2 x RCA, unbalanced, 1 x digital (Option)</li> <li>- Max. input voltage: + 21 dBu</li> <li>- Input impedance: 10 kohms</li> <li>- Line outputs: 2 x XLR male, balanced, 2 x RCA unbalanced</li> <li>- Nominal input sensitivity: +6 dBu</li> <li>- Amplifier gain: +8 dB, PRE-GAIN: -12 / -6 / 0 / +6 / +12 dB</li> <li>- Frequency range: 5 Hz ... 70 kHz (-0,5 dB), 3 Hz ... 200 kHz (-3 dB)</li> <li>- Output impedance: &lt; 0.1 Ohm unbal.</li> <li>- Damping factor (Load 50 Ohm): 500 unbal.</li> <li>- Dynamic range: &gt; 129 dB (A-wtd)</li> <li>- Noise: &lt; -101 dBu (A-wtd)</li> <li>- THD+N (1kHz/2x10V/100R = 1W) &lt; -102 dB / &lt; 0,00079 %</li> <li>- THD+N (1kHz/2x4V/32R = 0,5W) &lt; -100 dB / &lt; 0,001 %</li> <li>- Crosstalk: -105 dB (1 kHz) / -103 dB (15 kHz)</li> <li>- Headphone outputs: 2 x 1/4" (6.3 mm) Phone Jack</li> </ul>	1.250,00		<b>1.500,00</b> EUR
	<p><b>HPA V280</b></p> <p><b>HEADPHONES AMPLIFIER</b></p> <p>The HPA V280 was developed with the target to enable ultimate transmission quality for low-, medium- and high-impedance headphones. These may also be balanced versions !!</p> <ul style="list-style-type: none"> <li>- Balanced Inputs: 2, gold plated XLR connectors, Unbalanced Inputs: 2, gold plated RCA connectors</li> <li>- Impedance: 10 kohms</li> <li>- Unbalanced Line Outputs: 2, gold plated RCA connectors</li> <li>- Amplifier Channels: 4 (Stereo Push-Pull)</li> <li>- Nom. input level: + 6 dBu</li> <li>- Amplifier Gain: +8 dB, with PRE-GAIN: -4 / +2 / +8 / +14 / +20 dB</li> <li>- Frequency range: 0 Hz ... 60 kHz (-0,5 dB)</li> <li>- Output Impedance: 0,165 Ohms, - Damping Factor @ 50 Ohm: 300</li> <li>- Dynamic range: &gt; 129 dB (A-wtd)</li> <li>- Noise: &lt; -97 dBu (A-wtd), THD+N: &lt; -102 dB @ 10V in 100 Ohms (1W), &lt; -99 dB @ 4V in 32 Ohms (0,5W)</li> <li>- Crosstalk: &lt; -115 / -105 dB (@ 1 / 15 kHz)</li> <li>- Max. output level (bal. mode): &gt; 32,9 Veff in 600 ohms = 1800 mW, &gt; 28,2 Veff in 300 ohms = 2650 mW, &gt; 23,0 Veff in 100 ohms = 5300 mW, &gt; 12,4 Veff in 50 ohms = 3100 mW, &gt; 9,1 Veff in 32 ohms = 2600 mW, &gt; 4,9 Veff in 16 ohms = 1500 mW</li> <li>- Dimensions: 170 x 49 x 320 mm (W x H x D)</li> </ul>	1.250,00		<b>1.500,00</b> EUR
	<p><b>HPA V281</b></p> <p><b>HEADPHONES AMPLIFIER</b></p> <p>The HPA V281 was developed with the target to enable ultimate transmission quality for low-, medium- and high-impedance headphones. Due to its specific, variable, low-noise and low-distortion circuit design especially optimised for dynamic headphones, the HPA V281 fulfils even most sophisticated demands.</p> <ul style="list-style-type: none"> <li>- Inputs: 2 x XLR female, balanced, 2 x RCA, unbalanced, 1 x digital (Option)</li> <li>- Max. input voltage: + 21 dBu, Input impedance: 10 kohms</li> <li>- Line outputs: 2 x XLR male, balanced, 2 x RCA unbalanced</li> <li>- Nominal input sensitivity: +6 dBu, Amplifier gain: +8 dB unbal. / 14 dB bal., PRE-GAIN: -12 / -6 / 0 / +6 / +12 dB</li> <li>- Frequency range: 5 Hz ... 70 kHz (-0,5 dB), 3 Hz ... 200 kHz (-3 dB)</li> <li>- Output impedance: &lt; 0.1 Ohm unbal. / &lt; 0.2 Ohm bal.</li> <li>- Damping factor (Load 50 Ohm): 500 unbal. / 250 bal.</li> <li>- Dynamic range: &gt; 129 dB (A-wtd), Noise: &lt; -95 dBu (A-wtd)</li> <li>- THD+N (1kHz/2x10V/100R = 1W) &lt; -102 dB / &lt; 0,00079 %</li> <li>- THD+N (1kHz/2x4V/32R = 0,5W) &lt; -100 dB / &lt; 0,001 %</li> <li>- Crosstalk: -105 dB (1 kHz) / -103 dB (15 kHz)</li> <li>- Headphone outputs: 1 x 4-pol XLR, 2 x 1/4" (6.3 mm) Phone Jack</li> </ul>	1.666,00	1.599,00	<b>1.919,00</b> EUR

Model	Description	EUR Netto (ex. VAT)	Special EUR (ex. VAT)	EUR + 20% DDS (incl. VAT)
<b>Phono Pre- Amps</b>				
	<p><b>PPA V600</b> <b>Finest Phono Pre-Amplifier</b> - The PPA V600 was developed with the target to enable highest transmission quality for moving-coil and moving-magnet phono cartridges. Gain may be set with the aid of a rotary switch in steps of 6 dB from +30 dB to +60 dB. The exact level balance is maintained by a potentiometer with center detent. This enables a fine adjustment of even unusual cartridges to the subsequent equipment. The gain cell itself is a very fast and noiseless balanced instrumentation amplifier which is normally used for microphone preamplifiers. Because of the possible balanced wiring to the phono cartridge maximum noise and hum immunity can be achieved.</p> <ul style="list-style-type: none"> <li>- Input-impedances are 9-times selectable by Dip-Switches.</li> <li>- Input capacities are 16-times selectable by Dip-Switches.</li> <li>- The equalizer characteristic may be set to RIAA, NAB, BBC and Flat law.</li> <li>- A lo-cut filter according to IEC is switchable.</li> </ul> <p>8 adjustment points inside the unit as well as high-precision and low-tolerance components are granting the RIAA-equalization to be at least 0,05 dB accurate. The complete signal path is DC coupled, all filter stages are passive by design. Of course only selected "musical" components had been used for the filter design. Balanced and unbalanced outputs with a maximum level of +28 dBu (unbal. +22 dBu). Built-in special wide range (90 V ... 260 V AC) low noise switch mode supply for hum-free operation. Case and back panel are made from aluminum, Nextel coated. The 8 mm aluminum front panel is black anodized. The labeling is laser engraved.</p> <p>Input Impedance: 10R, 90R, 100R, 130R, 150R, 250R, 330R, 1K, 47K switchable  Input Capacity: 33, 66, 110, 150, 180, 210, 260, 300, 330, 370, 410, 450, 480, 520, 560, 600 pF  Max. Input Level: -7 dBu &gt; 1kHz, -26 dBu @ 20Hz  Equalizer fixed Values: 3180 uS (50 Hz) / 318 uS (500 Hz) / 159 uS (1000 Hz)  Equalizer variable Values: IEC 7950 uS (20 Hz) / RIAA 75 uS (2210 Hz) / NAB 50 uS (3183 Hz) / BBC 25 uS (6366 Hz) / Flat, THD: &lt; 0,001 % / &lt; -100 dB (20Hz - 20kHz unwt'd, RIAA curve, 1kHz, 30 dB Gain, Input -30 dBu)  Noise: Ein = -122/124 dBu @ 30/60 dB Gain (20Hz - 20 kHz, RIAA curve, 100R input impedance)  Crosstalk: 1/15 kHz 110/105 dB @ 30 dB Gain - 1/15 kHz 100/100 dB @ 60 dB Gain, (Input Imp. 10R)  Max. Output level: +22 dBu unbalanced, +28 dBu balanced, Output Impedance: &lt; 0,5 R  Power supply: 90 ... 260 V AC 10 VA, Dimensions: 170 x 49 x 225 mm (W x H x D)</p>	1.082,00	799,00	<b>959,00</b> EUR
<b>Line Pre- Amps</b>				
	<p><b>PRE V630</b> <b>PREAMPLIFIER PRE V630</b>- The PRE V630 was developed with the target to enable ultimate transmission quality. Because of its double outputs and the optional remote control, V630 is best suited to be the ideal link between your analog sources and your power amp respectively your active speakers.</p> <p>Some features:</p> <ul style="list-style-type: none"> <li>•3 unbal. inputs to be activated with relays</li> <li>•Mute switchable</li> <li>•unbal output can be set fixed or variable</li> <li>•unbal output gain can be set to -6/0/+6 dB</li> <li>•balanced output gain can be set to -9/-6/-3/0/+3/+6/+9 dB</li> <li>•both outputs with delayed switch-on via relays</li> <li>•both outputs simultaneously useable</li> <li>•High-grade volume control ALPS RK 27 with optimized channel balance and lowest crosstalk</li> <li>•for input selection, mute and RK 27 motorized volume control</li> <li>•Noise- and hum-free built-in power supply with toroidal transformer, large smoothing capacitors Case and back panel made of aluminium and Nextel coated. The 8 mm frontpanel is black anodized. The labeling is laser engraved.</li> </ul>	749,00	649,00	<b>779,00</b> EUR
	<p><b>NEW</b> <b>1006295</b> <b>Remote Option for HPA V220, HPA V281, DAC V850 &amp; PRE V630</b>  Vioelectric Remote incl. Engine Poti  Have to be ordered with the PreAmp - can not be installed afterwards !!!</p>	208,00		<b>250,00</b> EUR
<b>D/A CONVERTERS</b>				
	<p><b>DAC V800</b> <b>D/A CONVERTER - 4 digital inputs switchable:</b></p> <ul style="list-style-type: none"> <li>- transformer balanced via XLR (AES 3/11), 24/192</li> <li>- coaxial via Cinch (S/P-DIF, AES-3id), 24/192</li> <li>- optical via TOS Link, 24/192</li> <li>- optional USB-T 24/96 or USB-X 24/192 input</li> <li>- coaxial digital output</li> <li>- LED displays for Active Input and Lock</li> <li>- Mute switchable</li> <li>- resampling/upsampling with selectable modes: x1, x2, x4 and "BEST"</li> <li>- Delta-sigma DAC with outstanding 120 dB dynamic range and never before achieved -112 dB THD !!</li> <li>- perfect analog output stages to not affect this maximum dynamic and minimum THD-N</li> <li>- Analog output level adjustable in the digital domain</li> <li>- Additionally the max. analog level is internally adjustable in 5 steps</li> <li>- Analog outputs electronically balanced via XLR and unbalanced via Cinch</li> <li>- oversized toroidal transformer</li> <li>- extensive internal power conditioning</li> </ul> <p>Input sensitivity: &lt; 200 mV; Input data format: AES, S/P-DIF, 24 bit / 96 or 192 kHz; Sample rate: 28 ... 210 kHz (USB 96 kHz); Stopband rejection: &gt; 100 dB; Dynamic range: &gt; 120 dB Freq. Range: 10 Hz ... 20 kHz (-0,05 dB) THD: &lt; -112 dB (@ -1 dBFS) max. Output level: Balanced: +24 / +18 / +15 / +12 / +6 dB Unbalanced: +15 / +9 / +6 / +3 / -3 dB Variable Output: adjustable in the digital domain Analog outputs: 2 x XLR, electronically balanced; 2 x Cinch, unbalanced</p>	749,00	599,00	<b>719,00</b> EUR
	<p><b>DAC V850</b> <b>D/A CONVERTER - 4 digital inputs switchable:</b></p> <ul style="list-style-type: none"> <li>- transformer balanced via XLR (AES 3/11), 24/192</li> <li>- coaxial via Cinch (S/P-DIF, AES-3id), 24/192, optical via TOS Link, 24/192,</li> <li>- USB input, X-mos based, 24/192</li> <li>- coaxial digital output including digital volume control</li> <li>- resampling/upsampling with selectable modes: x1, x2, x4 and "BEST"</li> <li>- Low jitter clock (&lt; 1pS) with low noise supply</li> <li>- LED displays for active input, Lock, Mute/Error, resampling status</li> <li>- Double-mono architecture with 2 D/A converters per channel</li> <li>- 32 Bit delta-sigma DACs with outstanding 120 dB dynamic range and -112 dB THD</li> <li>- perfect analog output stages to not affect the maximum dynamic and minimum THD-N</li> <li>- Analog output level adjustable in the digital domain with 32 bit accuracy</li> <li>- Optional remot control for motorized volume control, input selection, resampling action</li> <li>- Additionally the max. analog level is internally adjustable in 5 steps</li> <li>- Analog signal treating including phase-reverse and sharp/soft filter roll-off</li> <li>- Analog outputs electronically balanced via XLR and unbalanced via Cinch</li> <li>- oversized toroidal transformer, extensive internal power conditioning with low-ESR capacitors</li> </ul>	1.250,00		<b>1.500,00</b> EUR

<i>Model</i>	<i>Description</i>	<i>EUR Netto (ex. VAT)</i>	<i>Special EUR (ex. VAT)</i>	<i>EUR + 20% DDS (incl. VAT)</i>	
<b>OPTIONS for Headphone Preamps</b>					
	<b>USB 24/96</b> USB input with 24 Bit / 96 kHz for HPA-Series Headphone Amps With this circuit it is possible to provide a USB input for the headphone amps (Tenor Chip-Set)	166,00		<b>199,00</b> EUR	
	<b>NEW</b> <b>USB 24/192 Tenor</b> USB input with 24 Bit / 192 kHz for HPA-Series Headphone Amps With this circuit it is possible to provide a USB input for the headphone amps (Tenor Chip-Set)	208,00		<b>250,00</b> EUR	
	<b>NEW</b> <b>USB 24/192 X-MOS</b> USB input with 24 Bit / 192 kHz for HPA-Series Headphone Amps With this circuit it is possible to provide a USB input for the headphone amps (X-Mos Chip-Set)	249,00		<b>299,00</b> EUR	
	<b>NEW</b> <b>COAX 24/192</b> Coaxial digital input with 24 Bit / 192 kHz for HPA-Series Headphone Amps The coaxial digital input can be used to connect a digital device with a coaxial digital output (often called "S/P-DIF") like CD/DVD-Players or computers. PCM coded 2-channel digital data with sampling rates from 28 ... 210 kHz are supported. The electrical characteristics meets the S/P-DIF standard while the incoming data may be "professional" or "consumer" coded.	208,00		<b>250,00</b> EUR	
	<b>NEW</b> <b>OPTO 24/192</b> Optical input with 24 Bit / 192 kHz for HPA-Series Headphone Amps The optical digital input can be used to connect a digital device with an optical digital output (often called "Tos-Link") like CD/DVD-Players or computers. PCM coded 2-channel digital data with sampling rates from 28 ... 210 kHz are supported. The characteristics meets the Tos-Link standard EIAJ RC-5720 while the incoming data may be "professional" or "consumer" coded.	208,00		<b>250,00</b> EUR	
<b>OPTIONS for DAC</b>					
	<b>NEW</b> <b>USB 24/96 Tenor</b> USB input with 24 Bit / 96 kHz for DAC With this circuit it is possible to provide a USB input for the DAC (Tenor Chip-Set)	124,00		<b>149,00</b> EUR	
	<b>NEW</b> <b>USB 24/192 X-MOS</b> USB input with 24 Bit / 192 kHz for DAC With this circuit it is possible to provide a USB input for the DAC (X-Mos Chip-Set)	208,00		<b>250,00</b> EUR	
<b>Vioelectric Remote</b>					
	<b>NEW</b> <b>1006295</b> Remote Option for HPA V220, HPA V281, DAC V850 & PRE V630 Vioelectric Remote incl. Engine Poti Have to be ordered with the PreAmp - can not be installed afterwards !!!			208,00	<b>250,00</b> EUR
	<b>NEW</b> <b>1006296</b> Remote Option for HPA V220 & HPA V281 Vioelectric Remote incl. Relay Have to be ordered with the PreAmp - can not be installed afterwards !!!			417,00	<b>500,00</b> EUR