

# Trends PA-10 Tube Headphone/Pre-amp

<http://www.TrendsAudio.com/>

**Trends**  
Innovative HiFi Audio

## Description

Trends PA-10 Tube Headphone/Pre Amplifier is an innovative audio product and provides all functions of headphone amplifier and pre-amplifier. It includes the innovative circuit design of low voltage hybrid (tube/transistor) pre-amp to provide audiophile quality sound, compact size, and easy/safe DIYer accessibility - pure class-A circuit to provide the best sound performance and have fun tube rolling with this fantastic headphone amplifier.

## Features

- ♦ the innovative circuit design of low voltage hybrid (tube/transistor) pre-amp to provide audiophile quality sound, compact size, and easy/safe DIYer accessibility
- ♦ pure class-A circuit to provide the best sound performance
- ♦ support both 6DJ8/6922 series and 12AU7 series tubes by simply switching the jumpers. DIYers can easily change their both series tubes to enjoy the fun.
- ♦ ONE bi-triode 6DJ8/6922 or 12AU7 tube as voltage amplification and TWO MOSFETs as output driver which perform the warm, comfortable tube sound and in addition, guarantee the high fidelity & sufficient driving power to the next power amplifier stage.
- ♦ provide all functions of headphone amplifier and pre-amplifier
- ♦ provide TWO sets of switchable audio inputs. Besides the normal CD input, the PC/iPod input with higher gain is provided for small output phono amplifier or PC/Mac/iPod.
- ♦ Besides the normal audio output in the back panel, ONE headphone output in the front to drive even high-impedance audiophile-grade headphones
- ♦ compact design (mini-size & light weight), suitable for hi-fi room, living room, sleeping room or even right beside your laptop computer.
- ♦ TWO precise screw-driving potentiometers for professional audiophiles to adjust the tube \* s bias voltage to guarantee the best working point for differe
- ♦ require just a single +24V power supply ONLY, besides the bundled AC



- adaptor, audiophiles can apply all other power supply with the same spec., e.g. lead-acid batteries.
- ♦ a specially designed AC power adaptor with extra low ripple & noise for Hi-Fi device is bundled for continuous power supply
- ♦ separate pre-amp unit & power adaptor to minimize interference and

flexible to apply other power sources, e.g. lead-acid battery.

- ♦ all audiophile-graded parts and components
- ♦ the stylish aluminium case provides outstanding shielding & grounding capability to keeps the background silent and maximize the S/N ratio.



## ITOK Media Limited (Trends Audio)

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## Specifications

### Specification of the Pre Amplifier Unit

Vacuum Tube	6DJ8/6922 series or 12AU7 series (exchangeable)
Output Stage	MOSFET x 2
Amplification Gain	x3 (for Audio CD/DAC IN) x6 (for Audio PC/iPod IN)
Signal-to-Noise Ratio (SNR)	92dB
Dynamic Range	92dB
THD+Noise	0.05% @ 10k ohm 0.15% @ 33 ohm
Input	Audio CD/DAC IN RCA (Left/Right) x 1 [3Vpp max.] Audio PC/iPod IN RCA (Left/Right) x 1 [0.55Vpp max.] Power Socket (5.5mm/2.1mm) x 1
Output	Audio OUT RCA(Left/Right) x 1 Headphone OUT (3.5mm) x 1
Other Switch & Knob	Audio IN selection switch x 1 Power ON/OFF switch x 1 Power Indicator (Blue LED under Tube Socket) x 1 Volume Knob x 1
Power Supply	DC 24V-26.5V (max.)
Dimensions	(W)76mm x (H)46mm x (D)114mm
Weight	380g

### Specification of the AC Adaptor

AC Input	Universal AC 100V-240V/50-60Hz
DC Output	DC 24V 0.6A (15W)
DC Plug	DC 2.1mm
Ripple & Noise	<= 25mV
Over-load Protection	105%-150%
Over-voltage Protection	115%-150%
Dimensions	(L)78mm x (W)50mm x (H)33mm
Weight	150g



“...the price/performance ratio on the PA-10 is hard to beat;- Under j€150 for a tube-based headphone amp is peanuts, but the Trends PA-10 is no monkey. “

### Specification of the Headphone Amplifier Unit

Vacuum Tube	6DJ8/6922 series or 12AU7 series (exchangeable)
Output Stage	MOSFET x 2
Amplification Gain	x3 (for Audio CD/DAC IN) x6 (for Audio PC/iPod IN)
Signal-to-Noise Ratio (SNR)	92dB
Power Output:	3.0 Watts per channel on 33 Ohm Headphone
Frequency response:	15 Hz - 100 kHz -1db
Input Impedance:	100k Ohms
THD+Noise	0.05% @ 10k ohm 0.15% @ 33 ohm
Input	Audio CD/DAC IN RCA (Left/Right) x 1 [3Vpp max.] Audio PC/iPod IN RCA (Left/Right) x 1 [0.55Vpp max.] Power Socket (5.5mm/2.1mm) x 1
Output	Audio OUT RCA(Left/Right) x 1 Headphone OUT (3.5mm) x 1
Other Switch & Knob	Audio IN selection switch x 1 Power ON/OFF switch x 1 Power Indicator (Blue LED under Tube Socket) x 1 Volume Knob x 1
Power Supply	DC 24V-26.5V (max.)
Dimensions	(W)76mm x (H)46mm x (D)114mm
Weight	380g



“...an affordable and compact hybrid Swiss army knife type of preamp...”



“...PA-10 is a surprise. It is so brilliant that you can challenge all the great preamplifiers;-the price is ridiculous and the sound great: close to a super preamplifier costing 16.000€ !...”

## Comparison

Model	Trends PA-10	Trends PA-10 SE*	Trends PA-10 GE*
Tube Types	6DJ8/6922 series	6DJ8/6922 series	12AU7 series
Tube	Chinese 6N11	Russian 6H23n	U.S.A GE 12AU7
Audio output Capacitor	10uF cap(Black)	EVOX cap (White)	EVOX cap (White)
Sound Quality	Balance sound in full range and good fidelity	Relative thicker & heavier bass and good on orchestral	Relative warmer mid range and excellent female vocals
MSRP Price(US\$)	\$225	\$265	\$265

- Trends PA -10 SE: Trends PA -10 Tube Headphone/Pre Amplifier -Special Edition
- Trends PA -10 GE: Trends PA -10 Tube Headphone/Pre Amplifier - GE Edition with 12AU7 Tube series

