

Review of the PA-10 SE & TA-10.2P SE

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Most readers of this site are serious audio and video enthusiasts who spend thousands of dollars many of their hobbies and used to get in return is usually large, sophisticated components, multiple entrances and exits and a low WAF. This review will present a set that offers a slightly different direction.

History: A few years ago released the Sonic Impact T-amp famous paved the way for Class-T amp, cheap and small that prove you can buy quality sound Audiophile low cost. Later, other men were released to the market based on similar technology, improved the points at which the T-Amp was weak. These amplifiers include better components, better supply of connections, high construction quality, greater power and more. One notable amps in this group was the Trends Audio TA-10.1.

This article focuses on next-generation products of the company featuring digital amplification. Includes pre-tested evaluation - a man who is also the headphone amplifier compatible amplifier. Together they claim to be an integrated amplifier improvement of the previous generation.

Should be emphasized that the target market of these products is well defined: stereo music lovers who are willing to pay higher (relative) of a quality that does little but doing it well.

Trends PA-10 SE Tube Headphone/Preamp

The PA-10SE is a pre - amplifier headphone amplifier that also functions. Based on a combination of transistor circuits "regular" with a tube component. This product exists in two models: Standard and improved ("SE"). Standard model comes with a single handset model 6N11 improved Lsapoprafat comes in addition to the usual, even with improved sample 6H23N tubes internal components are preferred. Replacement tubes require opening the chassis, internal switches adjustment, adjustment of POTENTIOMETERS not recommended for left hands. The review at hand is based on the improved model.



Front pre - amp is headphone volume switch (LED is internally weak blue light shines through the receiver).

The device looks back power socket (24V), power switch, dual RCA connection amplifier and two pairs of RCA jacks audio source (one pair of low voltage source such as Line-Out mp3 player couple of other higher voltage source, such as CD or DAC).

Pre-amplifier connections.

Package size is approximately 5 * 8 * 14 cm (not including receiver sticking from the top.) High

construction quality: Brushed aluminum chassis gray - immune to noise electronics. The authors look back high-quality device in the device shows that even here Work done

Cardboard packing machine was simple but effective. Delicate tubes were properly protected and cardboard Abpcpcym

1.1 Specification of the Trends PA-10 Tube 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) x1 Volume Knob x 1
Power Supply	DC 24V-26.5V (max.)
Dimensions(DxWxH)	114mm x 76mm x 46mm[case only]/145mm[incl.sockets & knob]
Weight	380g

1.2 Specification of the Trends PA-10 Tube 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

Digital Man is the next generation of the TA-10.1. The processor has not changed between the different generations, but some internal components were replaced with new ones.

Amplifier is standard or enhanced version ("SE"). The only difference between the two versions is

the improved power source preferably includes (4A, 48W, compared to 3A, 36W Simplified). Front of the amp can be found only indicator light is on Achsmgbar works.

Back, you can find the power socket (12V), power switch and six outlets of quality: two connect the source and four speakers. Manufacturer used wisely Achshmyakm the source outlets and jacks in the middle of the speakers on the sides, so you can also use Vsfeidim connect the speakers (although the use of bananas will be much more convenient.)

Amp connections.

Amplifier design is identical to the pre (size, color) and it is clear that they intended to be Mshodchim each other. The company also sells an integrated amplifier from the same series that includes the volume knob (did away with the need to promote - a man but not used headphone amp.)

Specifications

Spec. (Amplifier Unit):	.
T-Amp IC	Tripath TA2024
Output Power	2 x 15W @ 4ohm 2 x 10W @ 8ohm
Signal-to-Noise Ratio (SNR)	98dB
Dynamic Range	98dB
IHF-IM Distortion	0.10% @ 1W, 4ohm
THD+Noise	"Audiophile" Quality 0.03% @ 9W, 4ohm 0.1% @ 11W 4ohm 0.1% @ 6W 8ohm High Power 10% @ 15W 4ohm 10% @ 10W 8ohm
Power Efficiency	81% @ 15W, 4ohm 90% @ 10W, 8ohm



Series configuration

Two components were Burn-In of 24 hours upon the recommendation of the company. The company's recommendation is to give the receiver to warm up at least 5 minutes before you started using the owners ear, at least half an hour. Of course, that I did. The company also recommends that you run the cow before you start your amp.

Sound source was compiled Mac Mini computer cow using DAC. The DAC that I was going to use is made Trends Audio UD-10.1 sample which is part of the same product series. Very sound quality due to insufficient, I have tried the my DAC, the HRT's Music Streamer, which yielded better results.

I do not know what the nature of the problem (I tried to replace Inatrkonkettim without improvement, so that probably the problem is in itself DAC). In any case, the review is based on my DAC-made HRT.

In summary, the set - up of the exam is:

Source: PC, Mac - Mini: 10.1 iTunes software.

DAC's: Music Streamer of HTP.

Cow: Trends Audio PA-10SE.

Amplifier: Trends Audio TA-10.2P SE.

Speakers: Audio System SA 510 (despite the slight resemblance name, it is about a Danish company that is not related to TA).

Comparison was made with the integrated amplifier of the same company the previous generation: Trends Audio TA-10.1.



Before me to detail about specific sections, a small warning: the pre - amplifier really gets hot. He is so warm that I was afraid to leave him working without supervision. This is not a device that

can be placed in the closet is closed with no ventilation.

First section: Leonard Cohen - Tower Of Song (from Live In London 2008)

Cause relatively quiet section of the last performances of Leonard Cohen. Separation of Leonard Cohen, singers who play an excellent accompaniment tools enthusiastic audience cheering certainly can imagine in attendance (and I live in Park Hayarkon recalled).

Compared to the previous amplifier, which is considered excellent, noticeable improvement in most aspects: a cleaner sound, improved bass separation down much lower.



Section two: Spiritualized - The Straight and the Narrow (album Let it come Down)

British progressive rock band great album and recommended. This section (recorded in the studio) along with the band playing a string orchestra and wind instruments.

The variety of sounds that overlap (singer, power tools, tools Classics) is a challenge for system successfully passes noticed. While the integrated amp a little trouble separating the less good tools, the set of violation Power manages to maintain an independent presence of each of the components. The difference is felt mainly high.

Third segment: Garth Brooks - The Thunder Rolls

Country song reference I use it regularly. Launch a series of thunderstorms during the combine guitar and vocals. Ability to restore the system of these thunderstorms is an excellent measure of quality examination system.

In this case, there is an advantage over the kit integrated amp - the bass deeper thunder of the singer's voice sounded clear and live longer. In any case, the difference is small compared with Bashir previous songs probably the reason lies in "nonsense" of the passage.

Fourth section - Track 10 of The Beatles LOVE album

This album includes versions of works by George Martin (his son) created the show (excellent in

my opinion) is raised in Las Vegas.

Segment tested including excerpts from several songs in different styles mainly focuses on the last part (I Want You - one of the only heavy metal sections of the Beatles). It's also a very complex piece with a mixture of guitars, keyboards cacophony of voices and some tools hard to identify. Again, the combined estimate was high and generally preferable to the sound sounds more accurate, although I felt the passage must have brought her to the edge and he was not as good as he can be (a separation is not good enough.)

All sections, I suggested comparing the mp3 version too (quality of 192kbps). Not surprisingly, the music quality was less than successful in playing the CD. Everything sounds more muffled, with less precision in sound, high bass weaker less "bite."

Again it turns out that when the DAC high-quality amplification, compression of the music makes a significant enough drop in quality (which is difficult to feel with ordinary headphones connected directly to play mp3).

Another issue came to the sense - set volume level much higher than the integrated amplifier (although the dry technical data indicate 15W in both cases).

I came across a problem in some tests (I carried out searches at once and went on) - sometimes when you change the volume coming Noise (Hiss). In any case, the noise stops Achshachodalim rotate the dial. The company claims that it was aware of the problem was a malfunction of certain devices (already solved).

Another recommendation: you should leave the source (in my case the computer) the maximum volume volume volume knob and use of pre-amplifier. Much better sound quality with maximum violation Achsmcour low compared to its opposite.



Headphones

Unfortunately, I have no real Audiophile quality headphones.

An investigation with the best I found (Bose On-Ear), quality music files was received well enough and the music sounded better than an alternative source for direct connection (Aipon). In any case, this topic requires a separate examination.

An important mark - no headset connection port deactivates the pre-amplifier. To mute your speakers off the amp is required.

Summary

Pre-amplifier kit power amplifier is a sample of TA 10.2SE improvement over previous generation integrated amplifier (TA10.1). Although both the previous amp was excellent in all types of music tested, perceptible improvement (sometimes small and sometimes significant) in various aspects of sound: high, low, separation, cleaning and intensity of the volume. Warmer sound more pleasant to hear.

Overall assessment price is \$ 465 and when the price is not included in DAC, it can be a barrier to potential buyers. The question of whether it is too expensive amount is very individual.

I believe that whoever uses a high quality source (Lossless format music and CD DAC or better quality) and want a fine quality small spaces (office, bedroom, small living room), can produce a quality set presented here will be difficult to achieve the same price, while relying on other new alternatives.



Benefits

Most excellent sound quality.
High construction quality.
Ability to make changes and adjustments.
Quality headphone amplifier.
Cons

Waiting time required to warming receiver.
Receiver heats up with it all very pre's case - a man.
Receiver is not protected.

There is no sign.
Prices

Pre-amplifier Trends Audio PA-10SE (enhanced version) price of \$ 265

Trends Audio pre-amplifier PA-10 (standard version): price of \$ 225

Amplifier Trends Audio TA-10.2SE: price of \$ 199

Trends Audio products currently missing importer can be purchased directly online store run by the manufacturer.

For further discussion on the pre-amplifier and amplifier of the Trends Audio, the PA-10SE & TA-10.2SE.

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