

iDecco - Product Information Sheet

The Peachtree Audio iDecco - The world's 1st valve hybrid integrated amp with 'Pure Digital' iPod dock, Class A headphone amplifier and multi-input DAC.



'Pure Digital' iPod Dock.

Virtually all iPod docks today have 'analog outputs', forcing customers to use the iPod's internal power supply, DAC and output section. **The iDecco uses a 'Pure Digital' system that takes the digital stream from the iPod directly into the iDecco's on-board DAC.** This process considerably improves the iPod performance and, assuming that the music files are uploaded onto the iPod in the highest resolution, can achieve **real audiophile quality.**

Digital to Analogue Converter DAC

Featuring the **ESS 9006 Sabre DAC**, the iDecco is capable of **upsampling digital signals to 24/96.** Add to this the ESS Sabre's patented **jitter reduction circuit** (which re-clocks the digital signal to almost 0) and you have a DAC of the quality which is unheard of in a product of this type. Crucial to the quality of the DAC is how it has been implemented into the design. **11 regulated power supplies and transformer-coupling of each digital input stage** (inc. iPod) eliminates any noise associated with ground and switching power supplies.

Particular attention has also been paid to the **USB input which is galvanically isolated from the computer connection.** This is of major importance as significant noise is generated by a computer's switching power supplies which travels down the ground of the USB cable and manifests itself as a major source of jitter. The iDecco **eliminates this noise before the DAC sees it** leaving just the signal that should be processed available.

For user listening preferences, the iDecco features a **'sharp/slow' digital filter switch** on the rear panel that alters the DAC preferences. This is particularly useful when listening to more compressed music files that can sound edgy compared to high-quality downloads. Also located on the rear panel is a **'Jitter Bandwidth' (narrow or wide) switch.** Many digital music players and computers stream such heavily jittered signals that DAC's find it difficult to cope with and, in some cases, reject the signal altogether. The wide setting on the iDecco allows for **heavily jittered content to be streamed successfully** and without breaks in the playback.

The iDecco also features **Component video outputs** so that customers can watch any movies, TV shows or podcasts stored on their iPods on a flat-panel TV or monitor.

Pre-amplifier

One of the most important components in any audio system, the iDecco's pre-amplifier section receives the same critical attention to detail as the rest of the product. Featuring a **Stereo 6N1P triode valve 'Class A' front end,** the pre-amplifier stage has been developed over hours of listening and tweaking to give the best performance possible.

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iDecco's input line up includes **1 x analogue line in and 4 x digital in (1 x iPod, 1 x coax, 1 x optical and 1 x USB)**.

For those that require more power than the on-board 40 Watts that come with the iDecco, pre-amplifier outputs allow for the connection to an external power amplifier and a 'Line-out' stage so that it **can be used as a switchable stand-alone DAC** that can be added to any existing HiFi or whole-house system.

Class A headphone Pre-amplifier

Making full use of the valve pre-amp stage, the Class A headphone section mutes the speakers when headphones are plugged in to the fascia-mounted socket. Utilising the best components available for the job, the headphone pre-amp stage is a considered amongst the best in the business.

40 Watts per channel power amplifier

The iDecco power amplifier stage uses stereo MOSFET amp modules that, when combined with the valve pre-amplifier, generates a luxurious and articulate sound and is rated at 40 watts per channel (less than 1% distortion into 6 ohms).

The Peachtree Audio iDecco will be available from October 2010 with an SRP of £999.99.

For further information, go to www.peachtreeaudio.com

iDecco Specifications



Pre Amplifier

- Class A Preamp output stage
- <30 Ohms output impedance
- Hybrid valve design using triode (Stereo 6N1P)
- 6.5V output @ 2.0V input
- Polypropylene caps in the signal path
- Switching relays in the signal path
- 1 Aux input
- 4 Digital inputs (all transformer coupled) - 1 x iPod
1 x USB
1 x Toslink (optical)
1 x Coax

Headphone Amplifier

- Class A output with 6N1P valve in the circuit
- Suitable for all electro-dynamic headphones
- Frequency response: DC ~ 100 kHz +/- 0.1dB
- Voltage gain: 10dB
- Maximum output voltage: 7Vrms
- Output impedance: <30ohms
- Maximum output power: 100mW into 8 Ohm
300mW into 150 Ohm
150mW into 300 Ohm

Digital to Analogue Converter (DAC)

- 4 digital inputs: 1 x iPod, 1 x USB, 1 x Coax, 1 x Toslink (optical)
- ESS 9006 Sabre DAC w/patented jitter reduction circuit
- 24/96 upsampling
- 11 regulated power supplies
- Class A output stage (for use as an external DAC)
- Transformer coupled digital Inputs for ground isolation
- Galvanically isolated USB stage
- >118db S/N
- <1 picosecond jitter measured at the Master Clock (Super Clock)

Power Amplifier

- 40 watts per channel <1% distortion into 6 ohms
- Stereo MOSFET amp modules

AC	115v/230v switchable from back panel
Size	130 mm H x 380 mm W x 355 mm D (including volume knob and speaker terminals)
Finishes	Black Gloss
Weight	10.5 Kg

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