The iTube
The Swiss Army Knife of audio components.


What is it?
A specially-developed active tube buffer/pre-amplifier with two active correction circuits dedicated for digital and analogue audio sources. It is an essential component in any audio system.

Why? Because its features cover aspects of sound reproduction other components do not.
The following 2 pages are a summary of its applications and features.

Note: Please refer to separate Technical Notes which cover the main aspects in greater detail. Also please see system configuration diagrams.
1. **For Audio Sources (CD/DVD/ Blu-ray Players, DACs & Phono Stage etc.):**

![Diagram of iFi audio device with labels: Audio Input, Audio Output, NOS GE 5670 Tube, Analog Volume Control, Digital Antidote, 3D Holographic Sound]

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<tr>
<th>iTube feature</th>
<th>Description</th>
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<td><strong>Class A Pure Tube Buffer</strong></td>
<td>Many wax lyrical about the “magic of tubes.” Adding tubes to a HiFi system increases our intrinsic enjoyment of music(^1). The special Class A pure tube buffer circuit puts the “analogue” back into your music. The iTUBE uses a New Old Stock General Electric 5670 valve, which is second only to the famous Western Electric WE396A.</td>
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<td><strong>AVC Pre-Amplifier</strong></td>
<td>This stage further adds a precision analogue volume control and 6dB gain (selectable) to the iTube circuit. One may now bypass the sonically-damaging digital volume control of many modern DACs.</td>
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<td><strong>Digital Antidote Plus(^*)</strong></td>
<td>Digital Antidote Plus(^*) provides the appropriate phase correction in the time domain to remove the harsh, “ringing” digital sound which causes listener fatigue. The original Digital Antidote patented(^2) by Anthony Taddeo in the 80s. The iFi active tube ‘version 3.0’ is ready for PCM/DXD/DSD material.</td>
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\(^2\) US Pat. 5436882, Method and device for improving digital audio sound, Anthony Taddeo.
2. For Loudspeakers:

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<td><strong>3D Holographic Sound®</strong> (for HiFi Speakers)</td>
<td>3D HolographicSound® for Speakers was developed to address the issue of how the human head “hears” where lower frequencies are less well-defined than upper frequencies. First observed by “The Father of Stereo” Alan Blumlein[^3], the recording industry has developed solutions such as the “Faulkner Array”[^4] and “Binaural recordings”[^5] all of which have only ever been used on a handful of recordings. 3D Holographic Sound® for Speakers is unrestricted; it corrects real-time in the actual system to benefit EVERY recording.</td>
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| **3D Holographic Sound®** (for Desktop Monitors) | The 3D Holographic WIDE setting takes the above design one stage further. It was specially-developed for desktop monitors where placement is sub-optimal. The full frequency range which was restricted to coming from within the monitors is now broader and deeper; the monitors ‘disappear.’ The ‘Wide’ setting is needed to go the extra mile to “free” desktop monitors from their sonic shackles. |

**Note:** The complete 3D HolographicSound is a pure analogue circuit; no sonically-damaging digital DSP is used whatsoever. Hence there is no loss of transparency or sonic manipulation which are associated with all DSP processed sound.

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[^3]: http://en.wikipedia.org/wiki/Alan_Blumlein

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**About iFi**

iFi™ is a subsidiary of Abbingdon Global. Abbingdon Global is also the parent company of Abbingdon Music Research (AMR).

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