

Product White Paper

Roksan K2 BT Integrated Amplifier

Didcot, Oxfordshire – September, 2013

Since early 2012, Roksan Audio have been spending extended time and resources on developing a range of exciting new premium audio products. The task with the new K2 BT was to keep the core elements of the multi-award winning K2 Integrated Amplifier, but add improved connectivity, flexibility and audiophile sonic qualities to create a new standard in sub-£1000 hi-fi amplifiers.

Changes and Improvements

Various technical improvements on the existing K2 model have been made to achieve this goal:

Increased Output Power

The output power has been adjusted to create the following average measurements:

- ⚙ 150W at 8Ω (both channels driven)
- ⚙ 300W at 4Ω (both channels driven)

This increased power not only gives a greater sense of control, bass clarity and punch; but it also contributes to a greater dynamic range.

Reduced High Frequency Noise

High Frequency Noise is a major cause of unwanted noise and sonic 'disruptions'. The K2 BT measurements show that HF Noise reduction on the power amplifier section rails by 10dB in power, which represents a 90% reduction of the original value. On the preamplifier section, the noise reduction rails by 9dB, representing a reduction of 87.5% of the original value.

Improved Advanced Protection Circuit

Roksan have employed a 26 times faster detecting device and added a special path for a short-circuit alarm signal, which bypasses the microprocessor and is sent directly to circuit breaking devices.

Improved Dumping Factor on Low Power Levels

Gold-plated contacts retain very low resistance, even in low current conditions, ensuring maximum detail from the source material.

Improved Control of Volume Potentiometer

Employment of a new, high-quality volume control potentiometer that has an improved, high-torque movement with very smooth regulation throughout the rotation.

Addition of Bluetooth aptX® Module

Roksan have revolutionised the K2 amplifier by employing a high-grade aptX® Bluetooth module, which matches the CD standard (16-bit/44.1kHz) audio bandwidth. The low audio coding delay in the chip minimizes latency and 'lip-sync' issues. It also features non-destructive transcoding, so there are no 'duelling' effects with other algorithms.

The chip employed is also backwards-compatible, so when a non-aptX® device is paired, it will still handle the data in the best way possible.

This technology was originally used by Roksan on the development of their flagship Oxygene range of electronics.

Result of Changes and Improvements

Roksan's work in the development of the K2 BT has been exhaustive and extensive. To not only improve the sound-performance of a multi-award winning, iconic amplifier; but to also add more features to its arsenal is not an easy task, by any stretch. However, the benefits of their work are instantly recognisable.

As they planned, the K2 BT from Roksan Audio boasts improved imaging, soundstaging, transparency and dynamic range when compared to its predecessor; while also including wireless connectivity. However, it still maintains the punch, weight and audiophile characteristics that have made the original K2 a global success since it was first released in 2008.

The implementation of the above improvements ensures a new standard of amplifier at the price-point. It's rare for an amplifier of this cost to possess such high-end sonic traits. Factor in the inclusion of apt-X Bluetooth connectivity, and the K2 offers superb audiophile sound quality with comprehensive flexibility as well as excellent value for money.

Planned UK SRP: £895.00