

# Schrödinger Audio

## Thunderbolt U7 Vacuum Tube Phono Preamplifier



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Thunderbolt U7 Vacuum Tube Phono Preamplifier is specifically designed to improve the performance of your existing amplifier to deliver dynamic, detailed, sparkling, open, and refined music. It can also make your amplifier compatible with most popular moving magnet (cartridge) turntables. The simple and straight forward connection offers an enjoyable listening to vinyl that most digital media cannot reproduce the musical clarity and resolution in the same way.

Thunderbolt U7 Vacuum Tube Phono Preamplifier incorporates two cascaded preamplifiers. The first (phono) stage is uniquely built for amplifying the very small signal from the turntable sufficiently large for driving the next stage. The second stage of the cascaded amplifier is built, with a tone controller, to work directly with Bluetooth, CD/DVD player or tuner system.



Two cascaded preamplifiers



Improved vinyl playback quality

Its unique circuit design and carefully picked quality components improve the performance of the preamplifier. The phono stage uses a passive RIAA (Recording Industry Association of America) equalization to improve vinyl playback quality.

The multiple star-shaped grounding nodes design of the PCB (printed circuit board) layout optimises the quality of the signal-ground to minimise interference between components.

The full tone control allows you to personalise your sound setting to boost or reduce bass or treble to suit your preferences. Thunderbolt U7 also features a Balance control for fine correction of moving magnet cartridge imbalance. An additional Direct switch is introduced to let the amplified music bypass the tone control filters to maintain the original quality and purity of the music.



Full Tone Control

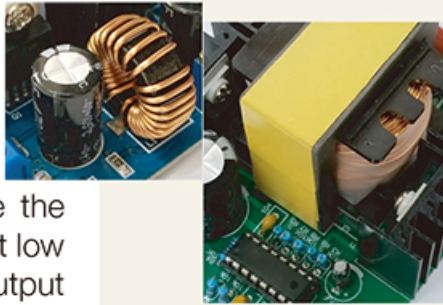


Direct bypass switch for maintaining the original quality and purity of the music



Controller

Thunderbolt U7 deploys a digital controlled device to replace the traditional use of a rotary switch for selecting music source. This avoids bad contacts and reduces crosstalk.



DC-DC high frequency switching power inverter

The use of switching mode power inverter replaces the traditional bulky and heavy power transformer, offers an option to regulate the tube operating voltage and, most importantly, eliminates unpleasant low frequency audible noise to deliver the cleanest signal to the output stage.

Components are housed in an acoustically damped aluminium chassis with thick brushed and anodised front panel.



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