

# AVALON

*P u r e C l a s s A*



*Ultra-Five*

DIRECT BOX

AVALON



DESIGN



## U5 HIGH VOLTAGE DIRECT BOX

The Avalon **Ultra-Five Direct Box** converts instrument signals and high-level speaker-amplifier outputs to fully balanced, pure Class A line and microphone level direct outputs. The U5 incorporates many unique and creative features:

- 100% discrete, pure Class A balanced signal path for true musical character and powerful dynamic output drive.
- Instrument and speaker level inputs.
- Six bank "Tone" selector curves for custom tone shaping.
- Variable "Boost" for wide gain variations and level matching.
- Hi-cut filter for eliminating unwanted high frequency noise.
- Personal headphone monitor output.
- Twin XLR balanced mic and line level outputs, DC coupled for deep controlled bass response.
- Earth isolation "ground lift" switch.

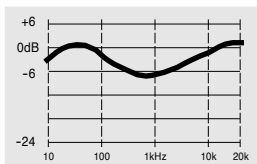
### ***Operating Instructions***

Check AC power selector for correct local supply. This switch is located internally at the rear right side and can be seen through the cooling vents.

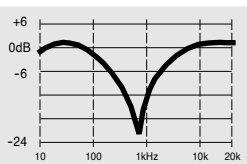
**Boost control:** Boosts gain from +2dB to +32dB in 3dB steps. The HiZ input will accept high level "hot" signals from active bass guitars and keyboards up to a maximum input of +24dB.

## Tone bank:

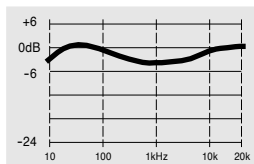
Six "tone bank" selections provide a wide range of musically enhanced frequency curves for improved sonic character.



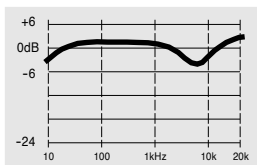
**1** acoustic and string instruments, electric bass and keyboards



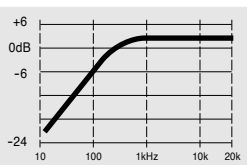
**2** electric bass guitar



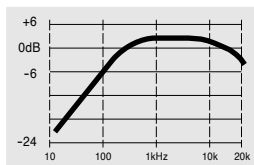
**3** acoustics, strings, electric and bass guitar and keyboards



**4** acoustics, strings electric and bass guitar and keyboards



**5** acoustic and electric guitar



**6** electric and bass guitar

## High cut switch:

The high cut switch gives a gentle roll off in the upper octaves and eliminates unwanted noise and buzz.

## Speaker to input:

The speaker switch bypasses the front panel input and selects the rear mount speaker jack.

The maximum speaker power input is 400 watts.

***Always use your your speaker cabinet with your amplifier. THIS INPUT IS NOT A SPEAKER LOAD!***

## Signal LED:

The blue signal LED illuminates when the output signal reaches -2dB at the line out XLR. This LED gives a visual indication of signal being present.

***This is not an overload indicator!***

## Active to thru switch:

The active to thru switch selects the thru jack to the "boost and tone" signal path. This enhanced signal is then routed to your amplifier or playback system. The thru jack normals the passive input signal in parallel when not selected.

## Tone switch:

The tone switch brings the passive tone-bank into the signal path. You may hear a small drop in loudness due to the enhanced frequency curve. Adjust the boost control if additional gain is required.

# AVALON DESIGN - PURE CLASS A



## U5 HIGH VOLTAGE DIRECT BOX

### S P E C I F I C A T I O N S

<b>Circuit topology</b>	100% discrete, high-voltage Class A
<b>Gain</b>	Switched 3dB steps, maximum gain +32dB
<b>Input impedance</b>	3,000,000 ohms
<b>Maximum input level</b>	+24dBu unbalanced, 400w speaker input
<b>Output connectors</b>	XLR type, pin 2 hot electronic balanced
<b>Maximum output level (Class A)</b>	+28dBu DC coupled, balanced 600 ohms
<b>Headphone output</b>	0.5W into 600 ohms
<b>Noise 20kHz unweighted</b>	-98dBu line output, -104dB mic output
<b>Distortion THD, IMD</b>	0.05% at +10dB
<b>Frequency response, +/-0.5dB</b>	5Hz to 100kHz
<b>Frequency response, -3dB</b>	2Hz to 500kHz (input band limited)
<b>High cut filter</b>	-3dB at 1.8kHz minimum phase design
<b>Signal LED</b>	LED triggers at -2dB
<b>Tone selector</b>	<ol style="list-style-type: none"><li>1. Acoustic string instruments, electric bass guitar and keyboards.</li><li>2. Electric bass guitar.</li><li>3 &amp; 4. Acoustic string instruments, electric and bass guitars and keyboards.</li><li>5 &amp; 6. Acoustic string instruments and electric guitar.</li></ol>
<b>AC power</b>	Internal toroidal AC supply 100-120v or 200-240v selectable 50/60Hz, 20w max.
<b>Dimensions</b>	8.5 x 3.5 x 12 in (216 x 88 x 305mm)
<b>Weight</b>	7lbs (3.2kg)

*Avalon reserves the right to incorporate changes in design and in the specifications of this product without prior notice.*