

# AVALON

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



*V-Fifty Five*

DI-RE-PREAMPLIFIER

AVALON



DESIGN



## V55 HIGH-VOLTAGE DI-RE-PREAMPLIFIER

The Avalon **V55 DI-RE-MIC PREAMPLIFIER** is an ultra high performance, professional, dual channel preamplifier, instrument DI and RE-AMP. Created for maximum versatility, the V55's sonic signature of *“Deep and Controlled Bass, Musical Mid-range and enhanced Vocal Projection”* combine with a unique *“ten point”* passive TONE BANK™, high-cut buzz filter, large wide-range analog VU meter and long-life quality construction...*The V55 will capture every magical performance and continues Avalon's passion and commitment to **Sonic Excellence** !*

### FEATURES

- 100% discrete, Pure Class A, high-voltage signal amplifiers in all audio paths for maximum dynamic range and +30dB operating headroom.
- Hi-Z, 10,000,000 ohm Instrument DI inut for invisible “Zero-Loading”.
- Wide range, premium, low-ratio microphone input transformer.
- Dual impedance selector for ribbon, dynamic and powered microphones.
- Passive TONE BANK™ for custom filtering and unique tone shaping.
- Hi-Cut passive FILTER for eliminating unwanted high frequency buzz.
- High performance, fully isolated transformer for RE-AMPING functions.
- Wide range, professional VU meter with custom scale -30dB to +18dB.
- Dual color, LED meters for 0dB and +20dB fast PEAK signal capture.
- High power personal headphone monitor output.
- High-current, DC coupled output drivers for deep and controlled bass.
- Sealed, silver contact relay switching for all audio routing and bypass.
- Precision, gold plated, switched gain control for accurate 2dB steps.
- Low noise, AC toroid and discrete high-voltage linear DC power supply.



AVALON DESIGN - PURE CLASS A



## AVALON V55 OPERATING INSTRUCTIONS

Check AC power selector on rear panel for correct local supply **115v or 230v**.  
**TO CHANGE AC VOLTAGE:** Carefully flip the voltage/fuse panel open, remove the RED volatge/fuse card and rotate to indicate correct AC voltage through rear voltage display window. Close plastic cover flap and press closed to lock.

### ① BOOST control:

Boosts gain in 2dB steps for ALL inputs.

LINE	-2dB to +38dB
INSTRUMENT - DI	+2dB to +42dB
MICROPHONE Hi-Z	+20dB to +60dB
MICROPHONE Lo-Z	+26dB to +66dB

*Input Gain Range*

### ② SIGNAL LED:

The blue **SIGNAL** LED illuminates when the PEAK output reaches 0dB and red when the PEAK signal is +20dB.

### ③ PHASE REV switch:

The **REV** switch reverses the output polarity for ALL outputs including the transformer ISOLATED (instrument) RE-AMP.

### ④ INSTRUMENT & DI input:

The front mounted TRS jacks accept all active or passive unbalanced inputs. Input impedance is 10,000,000 ohms. Maximum input of +28dB or +38dB with the PAD.

### ⑤ PAD switch:

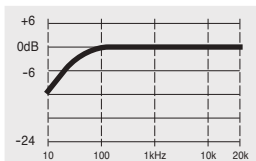
The **PAD** switch adds a resistive attenuator to ALL inputs.


LINE	-13dB PAD	+45dB
INSTRUMENT - DI	-10dB PAD	+38dB
MICROPHONE Hi-Z	-13dB PAD	+23dB
MICROPHONE Lo-Z	-15dB PAD	+19dB

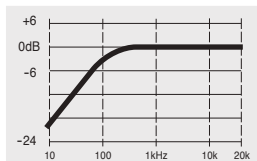
*Input PAD and maximum input level with PAD engaged*


# AVALON V55 TONE-FILTER GRAPHS.

The V55 **TONE-FILTERS** offer a wide range of “passive” tones & voices for improved clarity, problem solving filters and music enhancement.

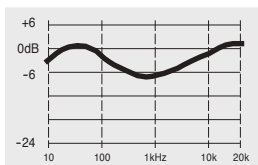


 vocals and instruments, high pass, rumble filter 50Hz @ 6dB/octave

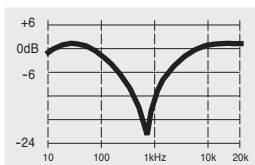


 vocals and instruments, high pass, rumble filter 90Hz @ 6dB/octave

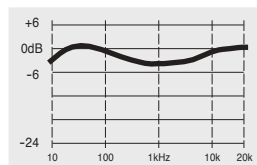
TONE selections 1 through 6 are identical to the TONE-BANK™ options in the Avalon U5 “Ultra-Five” Direct Box-preamplifier.



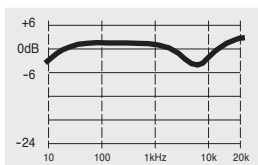
**1** acoustic and string instruments, electric bass and keyboards



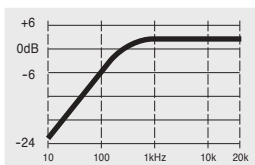
**2** electric bass guitar and mid scoop



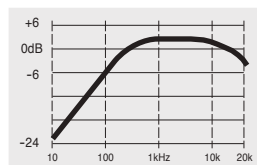
**3** acoustics, strings, electric and bass guitar and keyboards



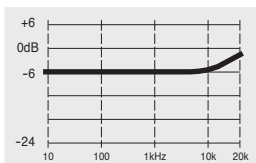
**4** acoustics, strings electric and bass guitar and keyboards




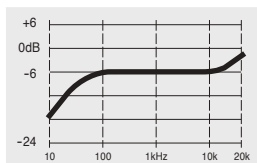
**5** acoustic and electric instruments




**6** electric and bass guitar



 AIR-LIFT vocals, acoustic-electric instruments



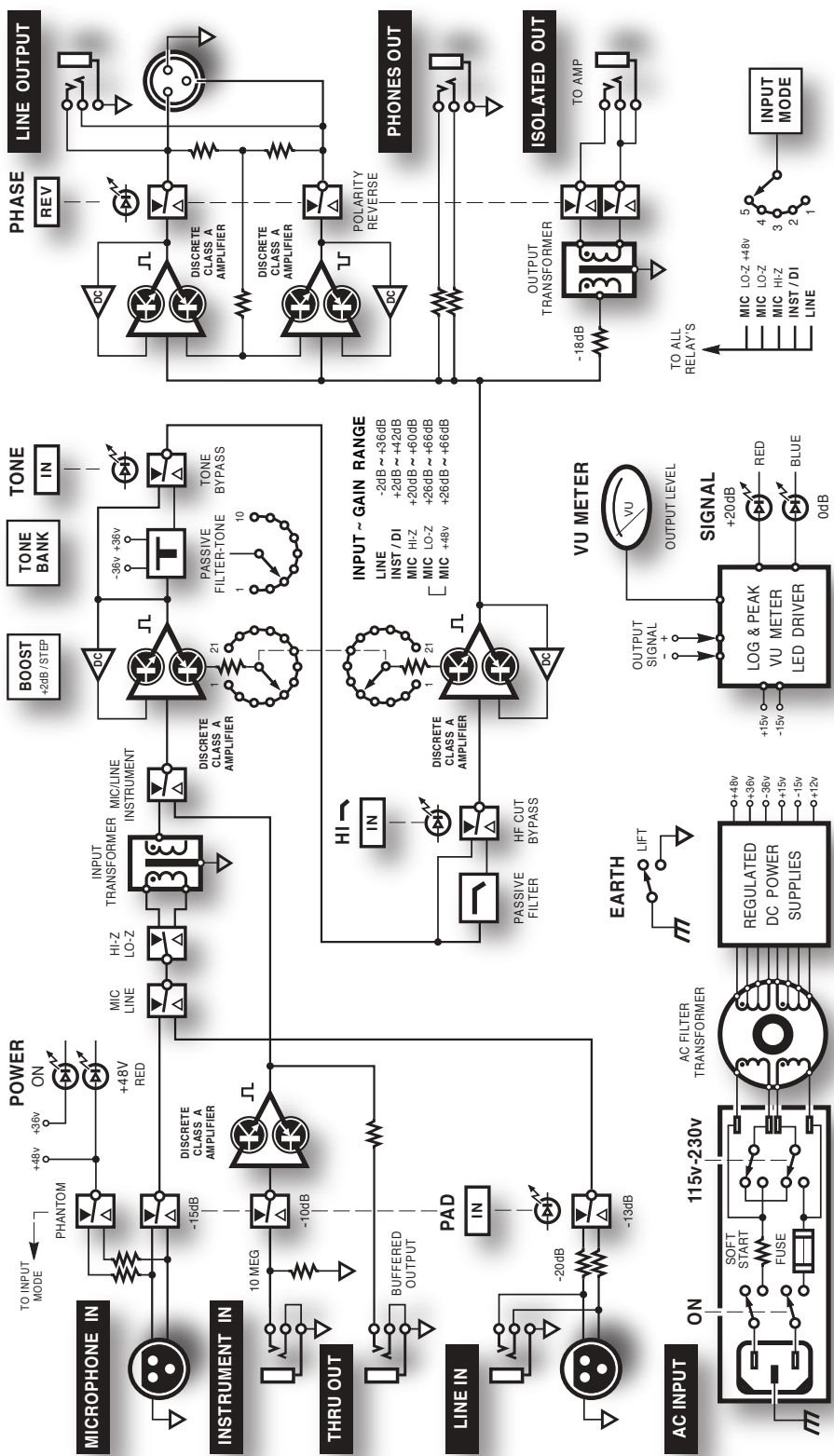
 AIR-LIFT & LOW-CUT vocals, acoustic-electric instruments



## AVALON V55 REAR PANEL CONNECTIONS

- ① **AC input**      **AC VOLTAGE SELECTOR.** Select for either 115v or 230v.  
 FUSE 5mm slow blow type : 115v = 0.2A, 230v=0.1A.
- ② **EARTH lift**      Switch isolates chassis ground from audio signal ground,  
 UP position is LIFTED.
- ③ **LINE out**      Dual TRS Jack and XLR BALANCED outputs, DC coupled,  
 high-current, 600 ohm, +30dB maximum.
- ④ **THRU out**      THRU output is BUFFERED from Instrument DI input  
 located on front panel. Ideal for amplifier inputs or tuners.
- ⑤ **∅IE out**      The ISOLATED (RE-AMP) output is transformer isolated  
 via the TRS jack. Signal is UNBALANCED +12dB maximum.
- ⑥ **LINE input**      XLR BALANCED and TRS (balanced) jack line input,  
 transformer isolated, +45dB maximum input, pin 2=hot.
- ⑦ **PHONES out**      Headphone TRS jack 0.5W maximum 600 ohms.
- ⑧ **MIC input**      XLR BALANCED microphone input, transformer isolated,  
 +23dB maximum input, pin 2=hot.



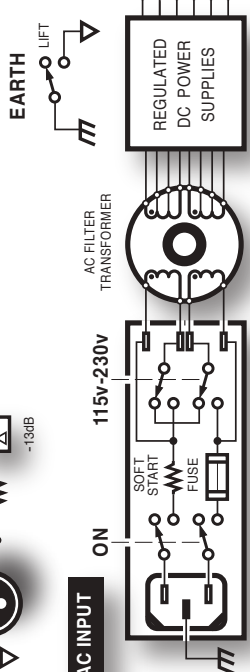
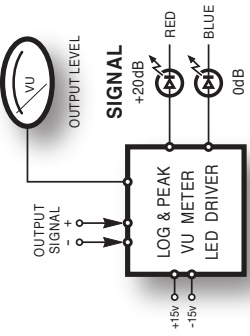
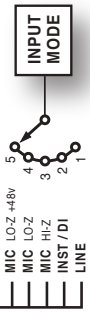


**V55 DI-RE-PREAMPLIFIER**  
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**AVALON DESIGN**  
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Avalon reserves the right to incorporate changes in design and in the specifications of this product without prior notice.



**INPUT ~ GAIN RANGE**  
 LINE -20dB ~ +36dB  
 INST/DI +20B ~ +420B  
 MIC HI-Z +200B ~ +600B  
 MIC LO-Z +26dB ~ +66dB  
 MIC +48V +26dB ~ +66dB



## V55 HIGH VOLTAGE DI-RE-PREAMPLIFIER

### SPECIFICATIONS

<b>Audio circuit topology</b>	100% discrete, high-voltage, Class A
<b>Gain range:</b>	Gain switched in 2dB steps, +/-0.2dB
<b>Line :</b>	Transformer balanced, 9,000 ohms
<b>Instrument :</b>	Unbalanced, 10,000,000 ohms
<b>Microphone Hi-Z :</b>	Transformer balanced, 6,600 ohms
<b>Microphone Lo-Z :</b>	Transformer balanced, 1,800 ohms
<b>PAD</b> (passive input attenuator)	Line -13dB, Instrument -10dB, Mic -15dB
<b>Phantom power</b>	+48v regulated, 10mA
<b>Input - Output connectors</b>	XLR, pin 2 hot, all jacks TRS (tip = hot)
<b>Maximum LINE output level</b>	+30dBu, DC coupled, balanced 600 ohms
<b>Maximum ISOLATED output level</b>	+12dBu, transformer isolated, unbalanced
<b>Headphone output</b>	0.5W, 600 ohm load
<b>Noise 22Hz-22kHz unweighted</b>	-98dBu typical, minimum gain (-128dB EIN)
<b>Distortion THD, IMD</b>	0.05% at +10dBu, 0.5% at +30dBu
<b>Frequency response, +/-0.5dB</b>	2Hz to 20kHz
<b>Frequency response, -3dB</b>	2Hz to 500kHz (internal band limited)
<b>VU meter</b>	Professional, wide range -30dB ~ +18dB
<b>Signal LED</b>	LED peak capture blue 0dB, red +20dB
<b>High cut filter</b>	-3dB at 3.7kHz, minimum phase design
<b>Tone selector</b>	10 passive filter-tone selections
<b>Polarity reverse</b>	All outputs (relay switched)
<b>AC power</b>	Internal toroidal AC supply 115v~230v
<b>Fuse</b>	REAR selectable, 50/60Hz, 0.5A, 35w max.
<b>Dimensions</b>	19 x 3.5 x 12 in (483 x 88 x 305mm)
<b>Weight</b>	24lbs (10.9kg)

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### AVALON DESIGN

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