

AVALON



DESIGN®

PURE CLASS A MUSIC RECORDING SYSTEMS



SONIC EXCELLENCE

The Avalon V5 DI-RE-MIC PREAMPLIFIER is an ultra-high performance professional preamplifier, DI and *RE-amp*. Created for maximum versatility, the V5's sonic signature - "*Deep and Controlled Bass, Musical Mid-Range and enhanced Vocal Projection*" combine with a unique set of user features including, 100% discrete Pure Class A amplification, Avalon's unique "*passive*" TONE-BANK™, professional VU meter with dual peak LED's, multiple outputs including an instrument level transformer isolated Re-amp. Designed to optimize absolute signal integrity and musical performance, the V5 is ideal for ribbon, dynamic and condenser microphones, bass guitar, acoustic instruments, electric guitars, keyboards, synthesizers and very low output passive pickups. The state-of-the-art DI input stage, provides a very-high impedance "*zero-load*" effect on sensitive pickups and keyboards, while maintaining massive input headroom to +36dB before overload.

RICH HARMONICS

Avalon DI-preamplifiers have been in use around the world since 1985. They have found their way into the world's leading musician's rigs and recording sessions and have been featured on thousands of the best selling (and sounding) albums, downloads and live performances. The V5 includes the best of the Avalon U5 DI functions with a studio quality preamplifier and "*a new sonic addition*". Two alternate solid-state topologies are cascaded to provide a rich, low mid-range harmonic content not offered in other Avalon preamplifiers. This feature empowers the V5 with a new scale of sonic character.

MINIMUM SIGNAL PATH DESIGN

The V5 includes a very high quality input transformer (same as the Avalon VT-737sp) with dual microphone input impedance loading for perfect mic/cable matching, high-cut switch for eliminating unwanted acoustic pickup and high frequency noise, headphone monitor amp and DC coupled, 100% Class A output amplifiers for defined bass control. A buffered "thru" output for *zero-instrument-load* tuners or power amp inputs, internal toroidal power transformer with discrete high-voltage power supplies for low noise and sealed silver relays for transparent signal routing.

V5

DI-RE-PREAMPLIFIER

V5 FEATURES

- Forward musical detail and sonic excellence
- High quality transformer input & isolated output
- Switched 2dB, high-gain preamplifier to +66dB.
- 100% discrete, high-voltage, Pure Class A
- Dual microphone impedance selection
- Hi-Z 10,000,000 Ω Instrument-DI input
- Very low noise -100dB
- High output headroom to +30dB
- RE-preamplifier with line, DI or microphone input
- Ten "*passive*" TONE-BANK™ selections
- Polarity (phase) reverse on all input-outputs
- DC coupled Class A outputs for superior bass
- High cut switch (low pass filter) eliminates hiss
- LED active & peak signal indicator
- Headphone monitor output jack
- Low distortion - less than 0.5% THD and IMD
- Professional VU meter -30dB to +18dB
- Buffered DI output & ground isolation switch
- 100% discrete power supplies for audio path
- Internal toroidal power supply for low noise
- Long lasting, stainless steel hardware



Pure Class A
Music Recording Systems since 1985.
 MADE IN U.S.A.



V 5 S P E C I F I C A T I O N S

Audio circuit topology

Gain

Input modes (4)

LINE (transformer)

INSTRUMENT ~ DI

MICROPHONE HiZ (transformer)

MICROPHONE LoZ (transformer)

PAD (passive input attenuator)

Phantom power

Thru output

Maximum line output level

Maximum isolated output level

Headphone output

Noise 20kHz unweighted

Noise (EIN) 22Hz-22kHz

Distortion THD, IMD

Frequency response, +/-0.5dB

Frequency response, -3dB

VU meter

Signal LED's

High cut filter

Polarity reverse (phase)

Tone shape

100% discrete, high-voltage, Class A

Switched 2dB steps, +/- 0.15dB

Line, Instrument-DI, Microphone high-Z & low-Z

Balanced 6,000 Ω, XLR~TRS, gain -3dB ~ 36dB, max. input 47dB

Unbalanced 10,000,000 Ω, TRS, gain 2dB ~ 42dB, max. input 36dB

Balanced 6,700 Ω, XLR, gain 20dB ~ 60dB, max. input 23dB

Balanced 1,760 Ω, XLR, gain 26dB ~ 66dB, max. input 19dB

Line -13dB, Instrument -10dB & Microphone -15dB

48V regulated @10mA, blue=power ON, red=phantom ON

Unbalanced, impedance buffered TRS

+30dB DC coupled, balanced 600 Ω, XLR~TRS

+12dB transformer balanced high Z output, TRS

0.5w into 600 Ω, TRS

-100dBu minimum gain position

-128dB @ 40dB gain (low Z microphone input)

0.05% at +10dB output

5Hz to 50kHz

2Hz to 500kHz (input band limited)

Professional moving coil VU, wide range -33dB ~ 18dB

Peak capture, blue=0dB, red=20dB

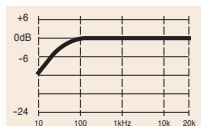
-3dB at 4kHz minimum phase design

All outputs relay switched (including isolated output)

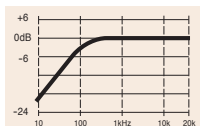
Ten "passive" voices for improved clarity, problem solving

and musical enhancement.

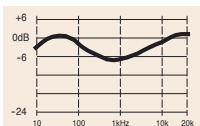
TONE selections 1 through 6 are identical to the TONE-BANK™ options in the Avalon U5 "Ultra-Five" Direct Box-preamplifier.



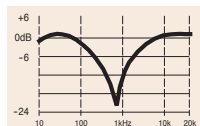
vocals and instruments, high pass, rumble filter 50Hz @ 6dB/octave



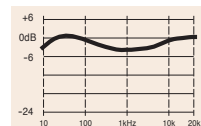
vocals and instruments, high pass, rumble filter 90Hz @ 6dB/octave



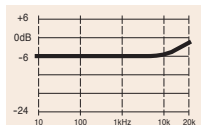
1 acoustic and string instruments, electric bass and keyboards



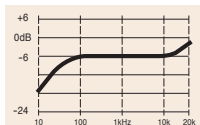
2 electric bass guitar with mid scoop



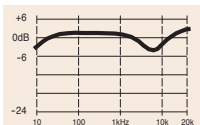
3 acoustics, strings, electric and bass guitar and keyboards



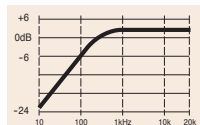
AIR-LIFT vocals, acoustic-electric instruments



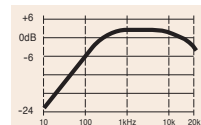
AIR-LIFT & LOW-CUT vocals, acoustic-electric instruments



4 acoustics, strings, electric and bass guitar and keyboards



5 acoustic and electric instruments



6 electric and bass guitar

AC power

Internal toroidal AC supply, dual voltage, 115 or 230v selectable 50/60Hz, 35w max

Dimensions

8.5 x 3.5 x 12 in (216 x 88 x 305mm)

Weight (packed)

12lbs (5.4kg)

Rack mount kit RM-1

Single V5 19 inch rack mount kit (holds one half rack unit)

Rack mount kit RM-2

Dual V5 19 inch rack mount kit (holds two half rack units)



MADE IN U.S.A.

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

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