SONIC EXCELLENCE
The Avalon V5 DI-RE-MIC PREAMPLIFIER is an ultra-high performance professional preamplifier, DI and RE-amper. 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, Avalons’ 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 FEATURES
- Forward musical detail and sonic excellence
- High quality transformer input & isolated output
- Switched 2dB, high-gain preamplifier to +6dB.
- 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

©2018 AVALON INDUSTRIES, INC. 3417 W. Burbank Blvd, Burbank, California, 91505 U.S.A.
Tel: 949-492-2000 www.avalondesign.com
## V5 Specifications

**Audio circuit topology**: 100% discrete, high-voltage, Class A

**Gain**: Switched 2dB steps, +/- 0.15dB

**Input modes (4)**: Line, Instrument-DI, Microphone high-Z & low-Z

**LINE (transformer)**: Balanced 6,000 Ω, XLR–TRS, gain -3dB ~ 36dB, max. input 47dB

**INSTRUMENT ~ DI**: Unbalanced 10,000,000 Ω, TRS, gain 2dB ~ 42dB, max. input 36dB

**MICROPHONE HZ (transformer)**: Balanced 6,700 Ω, XLR, gain 20dB ~ 60dB, max. input 23dB

**MICROPHONE LoZ (transformer)**: Balanced 1,760 Ω, XLR, gain 26dB ~ 66dB, max. input 19dB

**PAD (passive input attenuator)**: Line -13dB, Instrument -10dB & Microphone -15dB

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

**Thru output**: Unbalanced, impedance buffered TRS

**Maximum line output level**: +30dB DC coupled, balanced 600 Ω, XLR–TRS

**Maximum isolated output level**: +12dB transformer balanced high Z output, TRS

**Headphone output**: 0.5w into 600 Ω, TRS

**Noise 20kHz unweighted**: -100dBu minimum gain position

**Noise (EIN) 22Hz-22kHz**: -128dB @ 40dB gain (low Z microphone input)

**Distortion THD, IMD**: 0.05% at +10dB output

**Frequency response, +/-0.5dB**: 5Hz to 50kHz

**Frequency response, -3dB**: 2Hz to 500kHz (input band limited)

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

**Signal LED's**: Peak capture, blue=0dB, red=20dB

**High cut filter**: -3dB at 4kHz minimum phase design

**Polarity reverse (phase)**: All outputs relay switched (including isolated output)

**Tone shape**: Ten “passive” voices for improved clarity, problem solving and musical enhancement.

---

**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)

---

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

**AVALON DESIGN®** is a registered trademark of Avalon Industries, Inc.