

# AVALON DESIGN

PURE CLASS A MUSIC RECORDING SYSTEMS



## SONIC EXCELLENCE

The Avalon AD2044 Pure Class A opto-compressor is the most transparent, low noise optical-compressor available today. Designed to optimize absolute signal integrity and musical performance, the AD2044 combines advanced electronics with sonic excellence unequaled by lesser designs. The AD2044 is the perfect solution for two buss music-program compression, mastering applications, mono bass and instruments.

Features include state-of-the-art, balanced 100% discrete, Pure Class A signal amplifiers, practical "real-world" user features and rugged hardware designed to deliver true high performance audio for many years.

## LINEAR OPTICAL COMPRESSION

Computer matched, high speed linear opto elements provide the non invasive passive attenuator system for invisible gain reduction. The AD2044 incorporates a unique external control loop and current monitored optical driver for smooth control plus the benefits of traditional vintage LDR (light dependant resistor) compression.

## MINIMUM SIGNAL PATH DESIGN

Avalon's advanced true symmetry design offers high-voltage, large headroom, extended bandwidth and very low noise. The use of 100% discrete, Pure Class A signal amplifiers offer the serious music professional unlimited sonic character and a natural harmonic detail that enhances the program material and becomes one with the music itself.

The AD2044 can be found in the world's leading recording studio's, mastering facilities and artist/producers outboard racks. These professionals rely on the AD2044 daily to help them complete their "sonic signature" and turn recordings into musical masterpieces.

# AD2044

## OPTO-COMPRESSOR

### AD2044 FEATURES

- Smooth musical detail and sonic excellence
- Minimum audio signal path
- Pure Class A, 100% discrete design
- Dual mono or Stereo operation
- Transparent, non-invasive compression
- Very low noise -94dB
- High headroom +30dB
- Fully balanced inputs and outputs
- DC coupled, no transformers in audio path
- Variable threshold, ratio, attack & release
- Large accurate professional VU meters
- Wide bandwidth -3dB 1Hz to 450kHz
- Low distortion less than 0.5% THD and IMD
- External side-chain access XLR
- All signal routing with sealed silver relays
- 100% discrete power supplies for audio path
- External 150W toroidal power supply
- Long lasting, stainless steel hardware



*Pure Class A music recording systems since 1985.*



## AD2044 SPECIFICATIONS

<b>Circuit topology</b>	High-voltage 100% discrete, balanced and symmetrical Class A
<b>Output gain range</b>	Variable -10dB to +10dB, center detent 0dB
<b>Maximum input level</b>	+30dB balanced XLR pin 2 hot
<b>Maximum output level</b>	+32dB balanced 600 ohms, DC coupled, high-current discrete Class A
<b>Input-Output type</b>	XLR type, pin 2 hot balanced
<b>Noise 20kHz unweighted</b>	-94dB (compressor in)
<b>Distortion THD, IMD</b>	0.5% (typical 0.05% at +6dB 1kHz)
<b>Frequency response -3dB</b>	1Hz to 450kHz (input band limited)
<b>Gain reduction meter</b>	Illuminated gain reduction meter 0dB to -20dB range
<b>Output meter</b>	Professional moving coil type -20dB to +3dB (0VU=+4dB)
<b>Compressor type</b>	Optical passive attenuator
<b>Bypass</b>	Hard-wire relay bypass for compressor in-out
<b>Link switch</b>	Large illuminated push switch for stereo L-R linking
<b>Make-up gain</b>	Variable 20dB range (-10dB to +10dB)
<b>Threshold</b>	Threshold variable -24dB to +20dB
<b>Ratio</b>	Ratio-compression variable 1:1 to 20:1
<b>Attack</b>	Variable 0.5mS to 150mS
<b>Release</b>	Variable 80mS to 5 seconds for 12dB release
<b>Side-chain</b>	XLR type, pin 2 hot balanced (switch/relay selectable from front panel)
<b>AC-DC power (B2T power supply included)</b>	External AC supply, 150w toroidal transformer, 4 pin cable 90v isolated, 100-240v selectable 50/60Hz, 150w max
<b>Dimensions</b>	19 x 3.5 x 12 in (482 x 88 x 305mm)
<b>Shipping weight</b>	30lbs (13.6 kg)



*Pure Class A music recording systems since 1985.*

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