

576

VACUUM TUBE PREAMP / COMPRESSOR

dbx[®]
PROFESSIONAL PRODUCTS

VISIONARY DESIGN

For more than 25 years dbx has been a leader in the audio industry with its outstanding compressors, mic preamps and signal processing technology. The “Silver Series” serves to strengthen that reputation. With innovative, state-of-the-art engineering, the 576 Vacuum Tube Preamp/Compressor carries the dbx heritage into the vacuum tube arena. The 576 is generously appointed with all the features one could possibly want in a preamp/compressor combination. Features that include custom designed analog VU meters that monitor tube level, insert path (or gain reduction, in the case of the compressor) or output levels. The compressor side also has full sidechain functionality, including sidechain monitor, and our unique Contour function, which allows low frequency material to pass through the threshold without triggering unmusical compression effects. Also included are the dbx OverEasy[®] threshold characteristic, and Auto attack and release. The preamp features +48V Phantom Power, 20dB pad, phase invert, and low cut filter. Add to this impressive list of standard features extras like a three band EQ with sweepable mid and selectable mid Q (with EQ hardwire bypass) on the preamp, available insert loop, the ability to send the preamp signal directly to the compressor, and the new patent-pending PeakPlus[™] limiting topology, and you’ve got a winner.

REVOLUTIONARY ENGINEERING

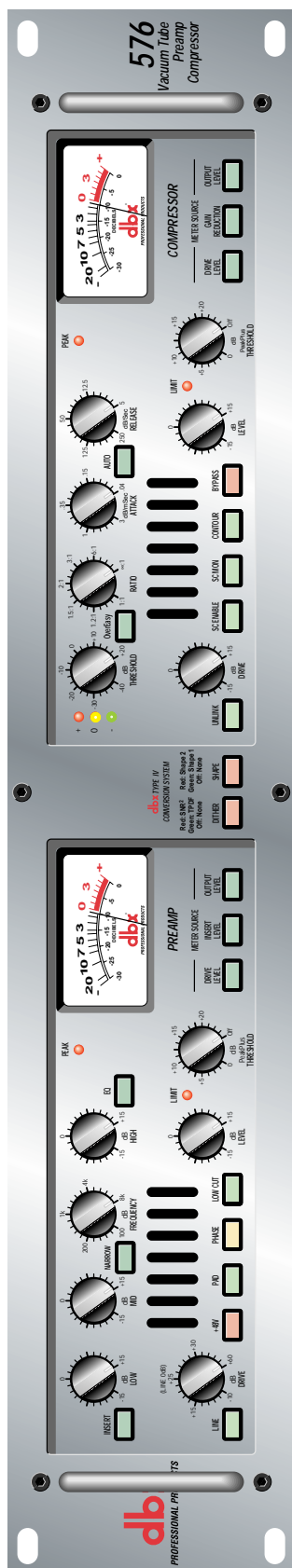
The premium 12AU7 vacuum tubes are hand selected for ideal triode gain matching, distortion, microphonics and drive characteristics. You get the best tube sound with the most versatility available today. And with the optional dbx TYPE IV[™] Conversion System output, you can translate the essence of tube processing directly to the digital world, without leaving the box. The digital output offers the ability to communicate in either AES/EBU or S/PDIF at 16, 20, or 24 bit word lengths. In addition, TYPE IV[™] offers the ability to select noise shape algorithms and dither types that best suit your music and your medium. The 576 has all the rear panel versatility and connectivity that make it easy to setup and patch into any system. Gold plated Neutrik[®] connectors for the audio ins and outs ensure solid connections and pristine sound every time. Separate 1/4" connectors for the insert sends and returns, as well as +4/-10 operating level switching make it a snap to use.

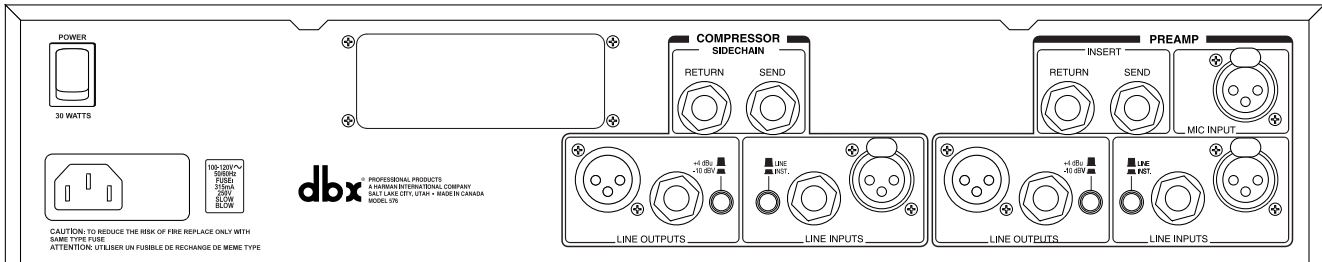
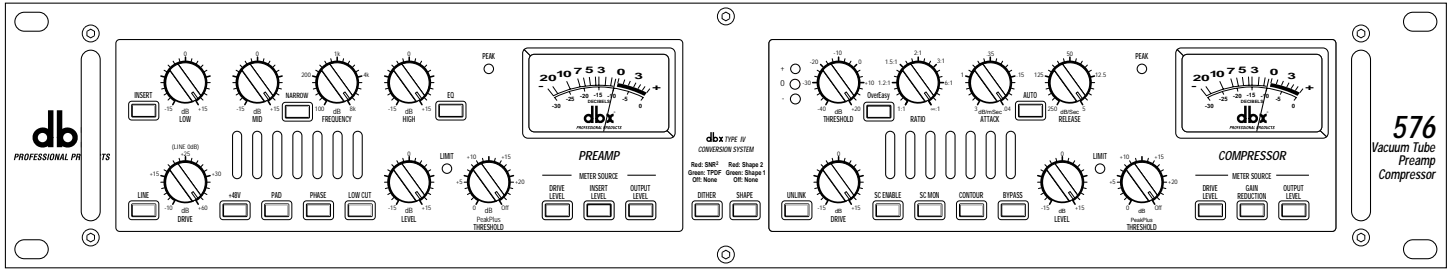
FEATURES

- Hand selected Premium 12AU7 vacuum tubes in path
- Mic or line/instrument inputs on the preamp. +4/-10 operation
- Drive control for a wide variety of great tube effects
- PeakPlus[™] limiting control on both preamp and compressor
- 3-Band EQ with sweepable mid-frequency, wide / narrow Q and hardwire bypass on the preamp
- Complete sidechain, OverEasy[®], Auto, and Contour functions on the compressor
- Optional TYPE IV[™] Conversion System outputs
- Separate 1/4" insert send and return on the preamp
- Custom designed analog VU meters monitor tube drive, insert level, gain reduction, or output levels

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H A Harman International Company





SPECIFICATIONS

MICROPHONE INPUTS

Connectors: Female XLR Pin 2 hot
 Type: Electronically balanced/unbalanced
 Impedance: 1.70 k Ω
 Optimum Microphone Impedance: 150 - 200 Ω
 Maximum Input Level: > +13 dBu, or +33 dBu with 20 dB pad engaged
 CMRR: > 115 dB at 60 Hz, > 110 dB at 1 kHz, > 75dB at 10 kHz

LINE INPUTS

Connectors: Female XLR Pin 2 hot and TRS 1/4"
 Type: Electronically balanced/unbalanced
 Impedance: 20.1 k Ω nominal, or 470 k Ω with rear-panel INST switch engaged
 Maximum Input Level: > +30 dBu, or +22 dBu with rear-panel INST switch engaged

OUTPUTS

Connectors: Male XLR Pin 2 hot and TRS 1/4"
 Type: Servo-balanced/unbalanced, RF filtered
 Impedance: Balanced 120 Ω , unbalanced 60 Ω
 Maximum Output Level: +21.5 dBu, balanced or unbalanced

INSERT

Connectors: TRS 1/4"
 Type: Impedance balanced/unbalanced (SEND), electronically balanced/unbalanced (RETURN)
 Impedance: 100 Ω bal./50 Ω unbal. (SEND), 20k Ω (RETURN)
 Nominal Send Level: +4 dBu
 Nominal Return Level: +4 dBu

EQUALIZER

LOW Frequency: 80 Hz, shelving filter
 HIGH Frequency: 12 kHz, shelving filter
 MID Frequency: Sweepable from 100 Hz to 8 kHz, bandwidth 1.5 octaves (WIDE) or 0.5 octaves (NARROW)
 Gain (all bands): Sweepable from -15 to +15 dB.

COMPRESSOR

Threshold range: -40dBu to +20dBu
 Ratio: 1:1 to ∞ :1
 Threshold Characteristic: Selectable OverEasy® or hard knee curves
 Attack/Release Characteristic: AutoDynamic™
 Attack/Release Modes: Selectable Manual or Auto
 Manual Attack Time: Scalable program-dependent. Typically 3dB/ms to .04dB/sec
 Manual Release Time: Scalable program-dependent. Typically 250dB/sec to 5dB/sec
 Auto Attack Time: Program-dependent. Typically 15ms for 10dB, 5ms for 20dB, and 3ms for 30dB
 Auto Release Time: Program-dependent. Typically 125dB/sec
 Output Gain: -15 to +15dB

PeakPlus LIMITER

Type: Two-stage proprietary
 Threshold Range: +4 dBu to >+ 22 dBu (off)
 Ratio: ∞ :1
 Stage 1 Attack and Release Time: Zero
 Stage 2 Attack Time: Program-dependent, typically < 5ms
 Stage 2 Release Time: Program-dependent, typically 22dB/sec

SYSTEM PERFORMANCE

DRIVE Control Range: +10 dB to +60 dB
 LEVEL Control Range: -15 dB to +15 dB
 0.5 dB Bandwidth: 15 Hz to >90 kHz +0/-0.5 dB
 Frequency Response: <10 Hz to >200 kHz +0/-3.0 dB
 EIN: Typically -126 dBu, 150 Ω source impedance, unweighted, 20 Hz to 20 kHz measurement bandwidth
 THD + Noise: 0.04% typical at +0 dBu out, 1kHz, 33 dB gain
 3.5% typical at +21 dBu out, 1kHz, 35 dB gain
 Deviation From Linear Phase: < 20 degrees, 20 Hz to 20 kHz
 Interchannel Crosstalk: Typically -98 dB, 20 Hz to 20 kHz.

POWER SUPPLY

Operating Voltage: 100V, 120V, or 220-240VAC 50/60 Hz.
 Power Consumption: 30 Watts maximum.
 Fuse: 100V: 315mA 250V Slow Blow 5mm X 20mm
 120V: 315mA 250V Slow Blow 5mm X 20mm
 220-240V: T160 mA 250V 5mm X 20mm
 Mains Connection: IEC 320 Receptacle

PHYSICAL

Dimensions: 3.5" H X 19" W X 8" D
 Weight: 12 lbs (5.5 kg)
 Shipping Weight: 13 lbs (5.9 kg)

Note: 0 dBu = 0.775V RMS.

dbx engineers are constantly working to improve the quality of our products. Specifications are, therefore subject to change without notice.

FOR MORE INFORMATION CONTACT:

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