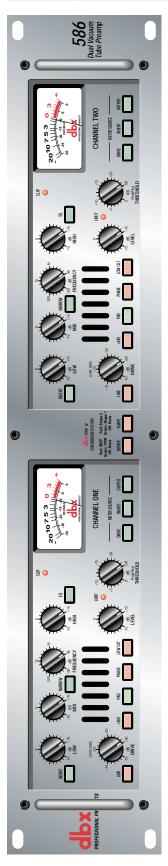
586 DUAL VACUUM TUBE PREAMP





VISIONARY DESIGN

Mic preamps have long been a part of dbx's reputation as the leader in signal processing technology. In keeping with that proven tradition, dbx proudly enters the vacuum tube domain with the 586 Dual Vacuum Tube Preamp. The 586 is loaded with all the standard features you'd expect to find in a mic preamp including custom designed analog VU meters that monitor tube level, insert path or output levels, +48V Phantom Power, 20dB pad, phase invert, and low cut filter. Line/Instrument and mic inputs make the 586 versatile enough to use with virtually *any* source device. Add to this comprehensive list of standard features extras like a three band EQ with sweepable mids and selectable mid Q (with EQ hardwire bypass), available insert loop, and the new PeakPlus™ limiting topology and you have the latest in a long line of dbx achievements.

REVOLUTIONARY ENGINEERING

All this would be enough, but our customers have come to expect more from us than just "enough", and we deliver the goods with the 586. Hand selected and matched premium 12AU7 vacuum tubes ensure the ideal triode gain matching, distortion, microphonics and drive characteristics. What does all that mean? It means you get the best tube sound with the most versatility available today. Have you ever wanted to go directly from the wonderfully warm sound of tube processing to the digital domain without loosing that great sound? Well, now you can. With the optional dbx TYPE IV™ Conversion System output, you can capture the essence of tube processing directly into the digital world, without leaving the box. The digital output offers the ability to communicate in either AES/EBU or S/PDIF at up to 16 or 20bit 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. Never before has so much flexibility been offered to digital users. The 586 has all the rear panel versatility and connectivity that make it easy to setup and patch into any system. No custom cables or adapters. 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.

FEATURES

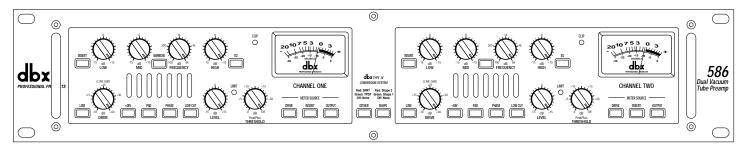
- Hand selected and matched Premium 12AU7 vacuum tubes in path
- Mic or line/instrument inputs on each channel. +4/-10 operation
- Drive control for a wide variety of great tube effects
- PeakPlusTM limiting control
- 3-Band EQ with sweepable frequency, wide / narrow Q and hardwire bypass
- Optional TYPE IV™ Conversion System outputs

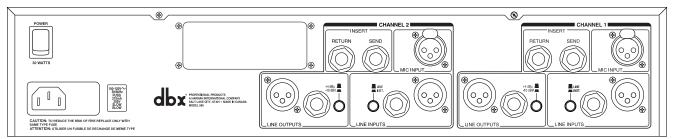
- Separate 1/4" insert sends and returns on each channel
- Custom designed analog VU meters monitor tube drive, insert, or output levels

8760 S. Sandy Pkwy. Sandy, Utah 84070 Phone (801) 568-7660 Fax (801) 568-7662 Int'l Fax (219) 462-4596 customer@dbxpro.com http://www.dbxpro.com

H A Harman International Company

DUAL VACUUM TUBE PREAMP





SPECIFICATIONS

MICROPHONE	INPUTS
Connectors:	

Female XLR Pin 2 hot Electronically balanced/unbalanced

1.70 kΩ e: 150 - 200 Ω Impedance: 1.
Optimum Microphone Impedance:

> +13 dBu, or +33 dBu with 20 dB pad Maximum Input Level:

engaged > 115 dB at 60 Hz, > 110 dB at 1 kHz, > CMRR

75dB at 10 kHz

LINE INPUTS

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

INST switch engaged

OUTPUTS Male XLR Pin 2 hot and TRS 1/4" Connectors Type: Servo-balanced/unbalanced, RF filtered

Impedance: Maximum Output Level: Balanced 120 Ω , unbalanced 60 Ω +21.5 dBu, balanced or unbalanced INSERT

TRS 1/4" Type:

Impedance balanced/unbalanced (SEND), electronically balanced/unbalanced (RETURN) 100 Ω bal./50 Ω unbal. (SEND), 20k Ω (RETURN)

Nominal Send Level: +4 dBu

Nominal Return Level +4 dBu

SYSTEM PERFORMANCE

+10 dB to +60 dB DRIVE Control Bange -15 dB to +15 dB 15 Hz to > 90 kHz +0/-0.5 dB LEVEL Control Range: 0.5 dB Bandwidth Frequency Response: <10 Hz to >200 kHz +0/-3.0 dB EIN: Typically -126 dBu, 150Ω source impedTHD + Noise

surement bandwidth 0.04% typical at +0 dBu out, 1kHz, 33 dB gain 3.5% typical at +21 dBu out, 1kHz, 35 dB

< 20 degrees, 20 Hz to 20 kHz. Typically -98 dB, 20 Hz to 20 kHz. Deviation From Linear Phase

EQUALIZER LOW Frequency: HIGH Frequency

MID Frequency:

Gain (all bands):

PeakPlus LIMITER

Type: Threshold Range:

FUNCTION SWITCHES

NARROW

EQ: LINE +48V

PHASE:

LO CUT:

METER SOURCE SWITCHES Monitors the signal level at the input to the

INSERT:

OPTIONS

DIGITAL OUTPUT OPTION SWITCHES

80 Hz, shelving filter 12 kHz, shelving filter Sweepable from 100 Hz to 8 kHz, bandwidth 1.5 octaves (WIDE) or 0.5 octaves (NARROW)

Sweepable from -15 to +15 dB.

-stage proprietary

0 dBu to + 22 dBu (off)

Inserts a device connected to the rearpanel Return jack into the signal path. Selects narrow (0.5 octave) bandwidth for the MID frequency control
Enables the equalizer section

Selects the Line inputs Enables the 48V phantom power for the Microphone input Attenuates the input signal by 20 dB.

Reverses pins 2 and 3 of the input XLR connector Enables the 75 Hz, 12 dB/octave low cut fil-

vacuum tube Monitors the signal level at the Insert Return jack Monitors the output signal level

Selects between Dither algorithms Selects between Noise Shape algorithms

REAR PANEL SWITCHES INST: Switches the gain and impedance of the Line Inputs to allow for connection of unbal

anced devices with passive instrument pick-+4 dBu/-10 dBV: Switches the nominal output level between

+4 dBu and -10 dBV INDICATORS

nal level is within 3 dB of actual waveform clipping; sense points are at all critical stages of the circuit
Red LED to indicated when the PeakPlus

limiter is active

Digital output module Contact dbx for further details. POWER SUPPLY

Operating Voltage: Power Consumption 100V, 120V, or 220-240VAC 50/60 Hz. 30 Watts maximum. 100V: 315mA 250V Slow Blow 5mm X

120V: 315mA 250V Slow Blow 5mm X

220-240V: T160 mA 250V 5mm X 20mm Mains Connection: IEC 320 Receptacle

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

Shipping Weight 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.



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