

#### DOCUMENTAZIONE

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# 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<sup>TM</sup> 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<sup>™</sup> 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<sup>™</sup> 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.

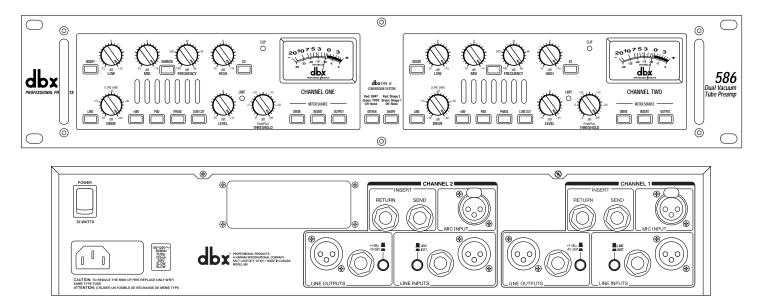
#### FEATURES

- 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
- *PeakPlus*<sup>™</sup> *limiting control*
- 3-Band EQ with sweepable frequency, wide / narrow Q and hardwire bypass
- Optional TYPE IV<sup>™</sup> 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

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# **586** DUAL VACUUM TUBE PREAMP



# **SPECIFICATIONS**

MICROPHONE INPUTS			ance, unweighted, 20 Hz to 20 kHz mea-	OUTPUT:	Monitors the output signal level
Connectors:	Female XLR Pin 2 hot		surement bandwidth		
Type:	Electronically balanced/unbalanced	THD + Noise: 0.04% typical at +0 dBu out, 1kHz, 33 dB		DIGITAL OUTPUT OPTION SWITCHES	
Impedance:	1.70 kΩ	gain		(Note: The digital output option switches are enabled only when the optional dbx TYPE IV is	
Optimum Microphone Impedance: 150 - 200 Ω			3.5% typical at +21 dBu out, 1kHz, 35 dB	installed in the unit.)	
Maximum Input Level:	> +13 dBu, or +33 dBu with 20 dB pad		gain	DITHER:	Selects between Dither algorithms
	engaged	Deviation From Linear Phase:	< 20 degrees, 20 Hz to 20 kHz.	SHAPE:	Selects between Noise Shape algorithms
CMRR:	> 115 dB at 60 Hz. > 110 dB at 1 kHz. >	Interchannel Crosstalk:	Typically -98 dB, 20 Hz to 20 kHz.		
-	75dB at 10 kHz		,, ,	REAR PANEL SWITCHES	
		EQUALIZER		INST:	Switches the gain and impedance of the
LINE INPUTS		LOW Frequency:	80 Hz. shelving filter		Line Inputs to allow for connection of unbal-
Connectors:	Female XLR Pin 2 hot and TRS 1/4"	HIGH Frequency:	12 kHz, shelving filter		anced devices with passive instrument pick
Type:	Electronically balanced/unbalanced	MID Frequency:	Sweepable from 100 Hz to 8 kHz, band-		ups
Impedance:	20.1 k $\Omega$ nominal, or 470 k $\Omega$ with rear-panel	with frequency.	width 1.5 octaves (WIDE) or 0.5 octaves	+4 dBu/-10 dBV:	Switches the nominal output level between
impedance.	INST switch engaged		(NARROW)		+4 dBu and -10 dBV
Maximum Input Level:	> +30 dBu, or +22 dBu with rear-panel	Gain (all bands):	Sweepable from -15 to +15 dB.	INDICATORS	
Maximum input Level.	INST switch engaged	Gairi (ali barius).	Sweepable IIOIII - 15 to + 15 dB.	CLIP	Red LED to indicate when the internal sig-
	INGT SWICH engaged	PeakPlus LIMITER		02.	nal level is within 3 dB of actual waveform
OUTPUTS			Ture stars suspiratory		clipping; sense points are at all critical
	Male MUD Dis Alexand TDA 4/48	Type:	Two-stage proprietary		stages of the circuit
Connectors:	Male XLR Pin 2 hot and TRS 1/4"	Threshold Range:	0 dBu to + 22 dBu (off)	LIMIT:	Red LED to indicated when the PeakPlus
Type:	Servo-balanced/unbalanced, RF filtered			LIMIT.	limiter is active
Impedance:	Balanced 120 $\Omega$ , unbalanced 60 $\Omega$	FUNCTION SWITCHES		OPTIONS	Infinter is active
Maximum Output Level:	+21.5 dBu, balanced or unbalanced	INSERT:	Inserts a device connected to the rear-		Contact dbx for further details.
			panel Return jack into the signal path.	Digital output module:	Contact dox for further details.
INSERT		NARROW:	Selects narrow (0.5 octave) bandwidth for	POWER SUPPLY	
Connectors:	TRS 1/4"		the MID frequency control		1001/ 1001/ 000 0101/0 50/00 11-
Type:	Impedance balanced/unbalanced (SEND),	EQ:	Enables the equalizer section	Operating Voltage:	100V, 120V, or 220-240VAC 50/60 Hz.
	electronically balanced/unbalanced	LINE:	Selects the Line inputs	Power Consumption:	30 Watts maximum.
	(RETURN)	+48V:	Enables the 48V phantom power for the	Fuse:	100V: 315mA 250V Slow Blow 5mm X
Impedance:	100Ω bal./50Ω unbal. (SEND), 20kΩ		Microphone input		20mm
	(RETURN)	PAD:	Attenuates the input signal by 20 dB.		120V: 315mA 250V Slow Blow 5mm X
Nominal Send Level:	+4 dBu	PHASE:	Reverses pins 2 and 3 of the input XLR		20mm
Nominal Return Level:	+4 dBu		connector.		220-240V: T160 mA 250V 5mm X 20mm
		LO CUT:	Enables the 75 Hz, 12 dB/octave low cut fil-	Mains Connection:	IEC 320 Receptacle
SYSTEM PERFORMANCE			ter		
DRIVE Control Range:	+10 dB to +60 dB			PHYSICAL	
LEVEL Control Range:	-15 dB to +15 dB	METER SOURCE SWITCHES		Dimensions:	3.5" H X 19" W X 8" D
0.5 dB Bandwidth:	15 Hz to > 90 kHz +0/-0.5 dB	DRIVE:	Monitors the signal level at the input to the	Weight:	12 lbs (5.5 kg)
Frequency Response:	<10 Hz to >200 kHz +0/-3.0 dB		vacuum tube	Shipping Weight:	13 lbs (5.9 kg)
FIN:	Typically -126 dBu, 150Ω source imped-	INSERT: Mo	nitors the signal level at the Insert Return jack		
	.,,,	1		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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