376 Tube Channel Strip w/Digital Out

dbx® PROFESSIONAL PRODUCTS

VISIONARY DESIGN

IT'S TIME TO CHANGE THE CHANNEL! The standard of excellence for channel strip processors has just been raised. From the world leader in signal processing comes the new 376 Tube Channel Processor with Digital Output. dbx® Professional Products has been paving the way for audio excellence for more than 25 years, and with the introduction of the 376, the drive continues. The 376 has taken the standard features of a channel strip processor, added the classic dbx® 902 De-Esser and turned the channel strip market on it's end by combining digital outputs and a tube as standard features. It's no longer necessary to have a separate tube preamp for classic analog warmth and external analog-to-digital converters for digital recording. The 376 brings them both together with world-class analog signal processing, making it the perfect companion piece for tracking vocals and other mic'd applications in the analog or digital domain.

REVOLUTIONARY ENGINEERING

The 376 Tube Channel Strip w/Digital Output is the latest addition to the Silver Series family. The 376 puts the best of both worlds into one affordable package by combining the warmth of the vacuum tube with the proprietary dbx® Type IV™ conversion system. The 376 boasts many of the same features as other products in the Silver Series such as +48V phantom power, a phase invert switch, and low cut filtering. The 376 also offers digital output in both AES/EBU and S/PDIF formats.

The high impedance, 1/4" instrument input located on the front panel as well as the mic/line switch and 20 dB pad show our dedication to providing convenience in the studio. The LED meters provide a clear and concise visual of the signal at a glance. The rear panel includes both mic and line inputs and outputs, word clock sync input and output, insertion jack and digital outputs. Add selectable sampling rates of 44.1 kHz, 48 kHz, 88.2 kHz, or 96 kHz; selectable dithering and noise shaping; and selectable analog and digital output metering to this already impressive list of features and we think you'll agree that the 376 lives up to the uncompromising standards of dbx® Professional Products.

FEATURES

- *Tube microphone pre-amp*
- *200V tube plate voltage*
- *Selectable mic/line switch*
- *+48 Volt phantom power*
- *3-Band Parametric EQ*
- *Compressor*
- *De-Esser*
- *Front panel instrument input*
- *Drive meter LEDs*
- *Threshold and De-Esser meters*
- *8 segment analog or digital meter*

- *Type IV™ conversion system*
- *Selectable sampling rates (96, 88.2, 48, 44.1kHz)*
- *24, 20 and 16 bit wordlengths*
- *AES/EBU and S/PDIF digital outputs*
- *Selectable dither and noise-shaping algorithms*
- *Word clock sync input and output*

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TUBE CHANNEL STRIP W/DIGITAL OUT
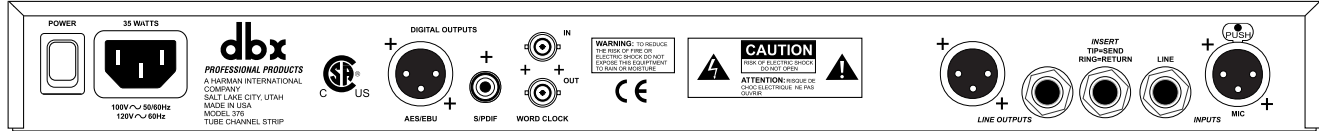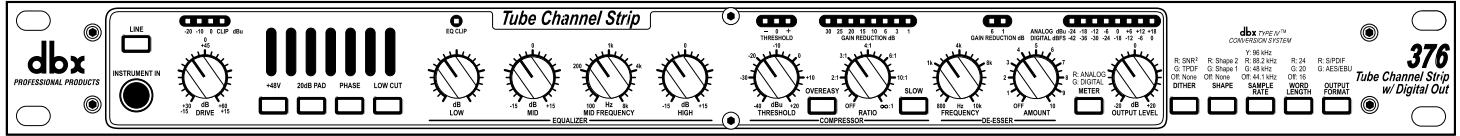
SPECIFICATIONS

Microphone Input

Connector:	Female XLR Pin 2 Hot
Type:	Electronically balanced/unbalanced
Impedance:	330
Maximum Input Level:	-9 dBu or +11 dBu with 20 dB pad engaged
CMRR:	>40dB, Typically 55dB
Equivalent Input Noise:	Typically -120 dBu with a 150 source load, 20Hz to 20kHz BW

Line Input (Rear Panel)

Connector:	TRS 1/4" Jack
Type:	Electronically balanced/unbalanced
Impedance:	20k unbalanced, 40k balanced
Maximum Input Level:	+21dBu balanced or unbalanced
CMRR:	>40dB, Typically 55dB
Gain (Drive Control):	-15dB to +15dB

Instrument Input (Front Panel)

Connector:	TS 1/4" Jack
Type:	Unbalanced
Impedance:	470 k
Maximum Input Level:	+21dBu unbalanced

Analog Outputs

Connector:	Male XLR Pin 2 Hot and TRS 1/4"
Type:	Servo-balanced/unbalanced
Impedance:	Balanced 120 , unbalanced 60
Maximum Output Level:	>+21 dBu, >+20 dBm (into a 600 load)

Insert

Connector:	TRS 1/4"
Type:	Unbalanced
Impedance:	100 (SEND), 20k (RETURN)

Digital Outputs

Connectors:	XLR for AES/EBU
	RCA for S/PDIF
Impedance:	110 for AES/EBU
	75 for S/PDIF

Word Sync Input/Output

Connectors:	BNC
Input Impedance:	75 terminated by internal jumper
Input:	96, 88.2, 48, or 44.1kHz word clock
Output:	96, 88.2, 48, or 44.1kHz word clock

System Performance

DRIVE Control Range:	+30dB to +60dB for Mic Input
	-15dB to +15dB for Line and Instrument Inputs
Output Level Control Range	-20dB to +20dB
LINE:	Selects between microphone and line inputs
Phantom Power:	+48V
PAD:	20dB pad
PHASE:	Reverses pins 2 and 3 of the microphone input XLR
LOW CUT:	75Hz, 12dB/octave high pass filter
Analog Frequency Response:	<10Hz to 75kHz
THD+Noise:	0.35% typical at +4dBu out, 1kHz, 40 dB gain

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
Gain (all bands):	Sweepable from –15 to +15 dB

Compressor

Threshold Range:	-40 dBu to +20 dBu
Threshold Characteristic:	Selectable OverEasy or Hard Knee
Compression Ratio:	Variable; 1:1 to Infinity:1; 60 dB maximum Compression
Attack Time:	Program-dependent; Typically 5 ms (SLOW disabled), 15 ms (SLOW enabled) for 15 dB Gain Reduction
Release Time:	Program-dependent; Typically 50 dB/sec (SLOW disabled), 8 dB/sec (SLOW enabled)

De-Esser

Characteristic:	Wideband gain reduction
Frequency Range:	800 Hz to 10 kHz High Pass
Release Time:	12 dB/octave program-dependent; approximately 1 ms/dB

Analog to Digital Conversion

Type:	dbx Type IV™ A/D Conversion System
Sample Rate:	96, 88.2, 48, or 44.1kHz selectable
Wordlength:	24, 20, or 16 bit selectable
Dither Type:	TPDF, SNR2, or none
Noise Shape:	Shape 1, Shape 2, or none
Output Format:	S/PDIF or AES/EBU
Convertor Dynamic Range:	107dB typical, A-weighted, 22kHz bandwidth

Power Supply

Operating Voltage:	
DO:	120VAC 60Hz, 100VAC 50/60Hz
EU:	230VAC 50/60 Hz

Power Requirements: 35 Watts

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

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