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 its 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.

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
**Microphone Input**
- **Connector:** Female XLR Pin 2 Hot
- **Type:** Electronically balanced/unbalanced
- **Impedance:** 330Ω
- **Maximum Input Level:** -9 dBu or +11 dBu with 20 dB pad engaged
- **CMRR:** >80dB, Typically 55dB
- **Equivalent Input Noise:** Typically -120 dBu with a 150Ω source load, 20Hz to 20kHz BW

**Line Input (Rear Panel)**
- **Connector:** TRS 1/4” Jack
- **Type:** Electronically balanced/unbalanced
- **Impedance:** 20kΩ unbalanced, 40kΩ 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 kΩ
- **Maximum Input Level:** +21dBu unbalanced

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

**Insert**
- **Connector:** TRS 1/4”
- **Type:** Unbalanced
- **Impedance:** 100Ω (SEND), 20kΩ (RETURN)

**Digital Outputs**
- **Connectors:** XLR for AES/EBU, RCA for S/PDIF
- **Impedance:** 110Ω for AES/EBU, 75Ω for S/PDIF

**Word Sync Input/Output**
- **Connectors:** BNC
- **Input Impedance:** 75Ω 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
- **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:** THD+Noise: 0.05% typical at +4dBu out, 1kHz, 40 dB gain

**Equalizer**
- **LOW Frequency:** 80 Hz, shelving filter
- **HIGH Frequency:** 12kHz, 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 mS (Soft enabled) – approximately 1 mS (Hard enabled)

**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
- **Approximate 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

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