286s Mic Preamp



Channel Strip Processor



All the mic processing you need.

The dbx® 286s is a full featured Channel Strip Processor that delivers a studio quality microphone/instrument preamplifier and four processors that can be used independently or in any combination. Why mic up vocals and instruments through a noisy, blurry mixer? The sonically pristine dbx 286s Mic Preamp has all the features you need, including wide-ranging input gain control, switchable +48V phantom power, and an 80Hz high-pass filter to remove low frequency hum, rumble or wind. Use the patented dbx OverEasy® compressor to transparently smooth out uneven acoustic tracks or deliver that classic "in your face" vocal performance that only a dbx compressor can. Eliminate vocal sibilance and high frequency distortion from instruments such as cymbals with the frequency tunable De-Esser. Fine-tune the Enhancer HF Detail control to add sparkle and crispness to your tracks and make adjustments to the LF Detail control to add fullness and depth to vocals and bass instruments while cleaning up the muddy low midrange frequencies. And, the separate threshold and ratio controls on the Expander/Gate allow you to subtly reduce headphone leakage or radically gate noisy quitar amps.

The dbx 286s offers a full compliment of metering and status LEDs to visually guide you to achieving the right sound. The floating balanced XLR Mic Input accepts balanced or unbalanced inputs to easily connect to professional and home studio microphones. The additional 1/4" TRS Line Input can accept balanced/unbalanced signals to process live electronic instruments or pre-recorded tracks at mixdown. Use the Insert jack to interface between the Mic Preamp and the signal processing sections to "loop out" to external processors (such as EQ or delay unit) or to mix the Mic Preamp's signal out to an external destination.

Features

- Studio quality Mic Preamp/Channel Strip Processor
- Classic dbx Compression puts great sound within easy reach
- Program adaptive Expander/Gate
- Frequency tunable De-Esser reduces sibilance and high frequency distortion
- Enhancer increases the detail and definition of the high and low frequencies
- ► Full compliment of meters and status LEDs
- Insert jack allows you to add an external processor
- ▶ +48V Phantom Power
- Precision detented controls

Who uses this product:









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CMRR



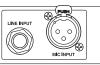












Specifications

 $\begin{array}{ll} \textbf{M I C I N P U T:} & \text{Floating balanced, Pin 2 Hot} \\ \text{Impedance} & \sim 4.2 k\Omega \text{ Balanced} \\ \text{Maximum Level} & 0.25 \text{Vrms, Gain} = 30 \text{dB} \\ \end{array}$

Gain Adjustment Range +0dB to 60dB

Phantom Power +48VDC, applied to XLR pins 2 and 3 through

6.81kΩ resistors >40dB, typically 55dB

EIN -125dBu, 22Hz-22kHz, 150 Ω source impedance

 LINE IN PUT:
 Floating balanced, TIP Hot

 Impedance
 10kΩ unbalanced, 20kΩ balanced

 Maximum Level
 >+21dBu, balanced or unbalanced

Gain Adjustment Range -15dB to +45dB CMRR >40dB, typically 55dB

INSERT (1/4" TRS): Normalled: tip is Send, ring is Return

 $\begin{array}{lll} \mbox{Ring: Impedance} & >5k\Omega \\ \mbox{Maximum Level} & >+21dBu \\ \mbox{Tip: Impedance} & 100\Omega \end{array}$

Maximum Level >+21dBu, >+20dBm (600Ω load)

Noise <-89dBu, unweighted (20Hz-20kHz);

LINE GAIN Control set to 0dB

Distortion Control set to odb

0.01% THD, 20Hz-20kHz, +10dBu

LINE OUTPUT (1/4" TRS): Balanced/Unbalanced

Gain Adjustment Range -30dB to +10dB

Noise <-85dBu unweighted (20Hz-20kHz); Both Gain Controls

set for OdB, all processing controls OFF

Frequency Response 20Hz - 20kHz, +0.5/-0.5dB

Distortion <0.08%THD, 20Hz-20kHz, +10dBu, all Processing

Controls OFF

COMPRESSOR:

Threshold Range -40dBu to +20dBu Threshold Characteristics OverEasy®

Compression Ratio >4:1 For input levels beyond 20dB above threshold

Maximum Compression 30dB

Attack Time Program-Dependent; >1s for small level increases,

down to 10ms for large increases

Release Time Program-Dependent; adjustable between approximately

1dB/Sec and 75dB/Sec

Distortion Typically <0.05%THD, 20Hz-20kHz, 15dB G/R, +10dBu

Output, DENSITY @ 0

SMPTE Intermodulation Distortion <0.05%; 60Hz/7kHz 4:1, 15dB G/R, +10dBu Output Level,

DENSITY @ 0

DE-SSER:

Characteristic Wideband Gain Reduction

Frequency Range 800Hz to 10kHz High Pass, 12dB/octave
Release Time Program-Dependent approximately 1ms/dB

ENHANCER:

HF Detail Characteristic Program-controlled shelving equalizer, approximately

15dB maximum HF boost

LF detail Characteristic Bell-shaped boost @ 80Hz, bell-shaped cut @ 250Hz,

ratio is approximately 2:1

EXPANDER/GATE:

Threshold Range OFF to +15dBu
Expansion Ratio Adjustable 1.5:1 to 10:1

Maximum Depth >50dB

Attack Time Program-Dependent, approximately 2ms (at maximum

attenuation

Release Time Program-Dependent, approxiamtely 10ms/dB

DYNAMIC RANGE: Typically 105dB

POWER SUPPLY:

Operating Temperature

Power Requirements 15 Watts

Operating Voltage USA: 120VAC 60Hz, 100VAC 50/60Hz;

EU: 230VAC 50/60Hz 0°C to 45°C (32°F to 113°F)

PHYSICAL:

Dimensions 1.75" x 5.75" x 19" (4.5cm x 14.6cm x 48.5cm)

Weight Net Weight: 4.5 lbs/2.04 Kg

Shipping Weight: 6.54 lbs/2.97 Kg

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

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