

# dbx 166XS Compressor-Limiter-Gate



## Features

- Error proof operation to smooth uneven levels, add sustain to guitars, fatten drums or tighten up mixes
- New gate timing algorithms ensure the smoothest release characteristics
- Program-adaptive expander/gates
- Great sounding dynamics control for any type of program material
- Separate precision LED displays for gain reduction, compression threshold and gate threshold allow quick, accurate setup
- Stereo or dual-mono operation
- Balanced inputs and outputs on 1/4" TRS and XLR connectors
- Side Chain insert
- Classic dbx® "Auto" mode

## Specifications

Input Connectors: 1/4" TRS, female XLR (pin 2 hot)

Input Impedance: >50k $\Omega$  balanced, >25k $\Omega$  unbalanced

Max Input: >+24dBu, Balanced or Unbalanced

Input Type: Electronically balanced/unbalanced, RF filtered

Sidechain: 1/4" TRS Phone, Normalled: Ring = Output (send); tip = Input (return)

Sidechain Impedance: Tip = >10k $\Omega$  (Input), Ring = 2k $\Omega$  (Output)

Sidechain Max Input Level: >+20dBu (tip/input); >+20dBu (ring/output)

Output Connectors: 1/4" TRS, female XLR (pin 2 hot)

Output Impedance: 120 $\Omega$  balanced, >60 $\Omega$  unbalanced

Max Output: +21dBu balanced/unbalanced into 2k $\Omega$  or greater; >+18 dBm balanced/unbalanced (into 600 $\Omega$ )

Frequency Response: 20Hz – 20kHz; +0, -0.5dB, Typical 3dB points are 0.35Hz and 110kHz, unity gain

Noise: <-90dBu, 22Hz to 22kHz, no weighting, unity gain

THD+Noise: Typically <0.04%; Any Amount of Compression Up to 40dB@1kHz

IMD: Typically <0.08% SMPTE @ +10dBu (15dB Gain reduction) Compressor

Threshold Range: -40dBu to +20dBu Compressor Threshold Characteristic:

Selectable OverEasy® or hard knee Compressor Ratio: Variable; 1:1 to

Infinity:1; 60dB Maximum Compression Compressor Attack Time: Variable

program-dependent; 3ms to 340ms for 15dB gain reduction Compressor Release

Time: Variable program-dependent; 200dB/Sec to 3dB/Sec Expander/Gate

Threshold Range: OFF to +15dBu Expander/Gate Ratio: 10:1 Expander/Gate Max

Depth: >60dB

Expander/Gate Attack Time: <500 $\mu$ s (from Maximum Depth) Expander/Gate Release

Time: Adjustable, 30ms to 3sec (to 30dB attenuation) Limiter Threshold Range:

0dBu to +20dBu CMRR: >40dB, typically >55dB at 1kHz

Interchannel Crosstalk: <-80dB, 20Hz to 20kHz Dynamic Range: >115 dB, unweighted

Stereo Coupling: True RMS Power Summing™

Power Consumption: 15 Watts Maximum

Operating Temperature: 0°C to 45°C (32°F to 113°F)

Dimensions: 1.75" x 19" x 6.75" (4.45 cm x 48.2 cm x 17.15 cm)

Unit Weight: 5.05 lb (2.29 kg)

Shipping Weight: 7.20 lb (3.27 kg)

Reference: 0dBu = 0.775Vrms

Operating Voltage: 100 VAC 50/60Hz; 120VAC 60Hz; 230 VAC 50/60 Hz

UPC 691991401268

[dbx 166XS Data Sheet](#)

[dbx 166XS Manual](#)