166xs Compressor

Compressor/Limiter/Gate

Bring a more professional sound to your mix

Adding a dbx® 166xs Compressor/Limiter/Gate to your live sound rig or studio gives you more dynamic control to help create a more polished, professional sound. Having compression in your audio chain gives you the ability to smooth out uneven levels, add sustain to guitars and fatten up your drums. It also makes it easy to bring vocals to the front of your mix – adding greater clarity and making them stand out from the surrounding instruments. To protect your expensive amps and speakers the PeakStop® limiter provides an absolute ceiling for peak excursions or large transients that could damage your equipment.

dbx knows compressors…after all we invented them! The 166xs is the latest in a long line of the world's most successful compressors from the inventors of the technology. Its patented Overeasy® compression technology provides smooth and musical performance while the AutoDynamic™ attack and release controls, found only on dbx compressors, puts great sound within easy reach. The 166xs can operate in stereo or dual-mono modes, has true RMS power summing and features quality XLR and ¼" TRS inputs and outputs. It cuts no corners on visual feedback with gain reduction metering and easy-to-read backlit switches.

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

Who uses this product: BANDS · DJs · SOUND INSTALLATION · STUDIO · BROADCAST

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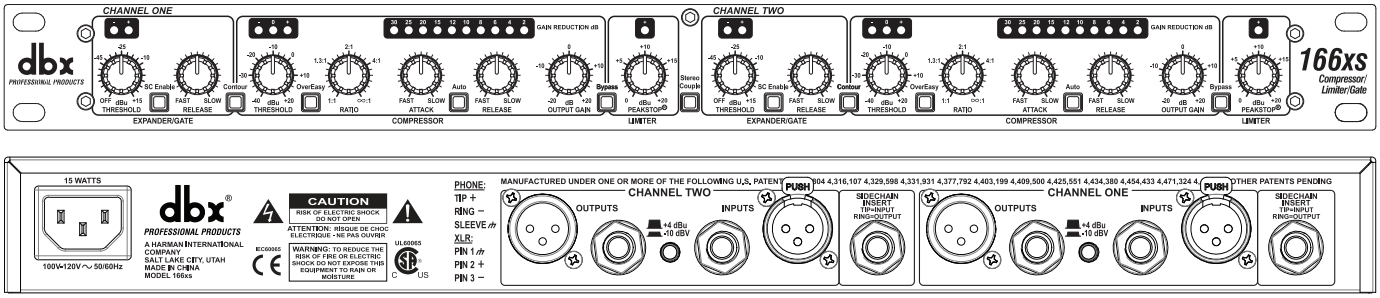

Specifications

INPUTS:

Type:	1/4" TRS, female XLR (pin 2 hot)
Impedance:	Electronically balanced/unbalanced, RF filtered
Max Input Level:	>50kΩ Balanced, >25kΩ unbalanced
	>+24dBu balanced or unbalanced

OUTPUTS:

Connectors:	1/4" TRS, male XLR (pin 2 hot)
Type:	Electronically-balanced/unbalanced, RF filtered
Impedance:	120Ω balanced, >60Ω unbalanced
Max Output Level:	>+21dBu balanced/unbalanced into 2kΩ or greater
	>+20dBm balanced/unbalanced (into 600Ω)

SIDECHAIN INSERT:

Normalled: Tip is Input, Ring is Output

Tip: Impedance	>10kΩ
Maximum Level	>+24dBu
Ring: Impedance	2kΩ
Maximum Level	>+24dBu

COMPRESSOR:

	Selectable OverEasy® or hard-knee
Threshold Range	-40dBu to +20dBu
Compression Ratio	Variable; 1:1 to Infinity:1; 60dB Maximum Compression
Attack Time	Variable program-dependent; 3ms to 340ms for 15dB gain reduction
Release Time	Variable program-dependent; 200dB/Sec to 3dB/Sec

EXPANDER/GATE:

Threshold Range	OFF to +15dBu
Expansion Ratio	10:1
Maximum Depth	>60dB
Attack Time	<500µSec (from Maximum Depth)
Release Time	Adjustable, 30ms to 3sec (to 30dB attenuation)

PEAKSTOP® LIMITER:

Threshold Range	0dBu to +20dBu

SYSTEM PERFORMANCE:

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+N:	Typically <0.04%; Any Amount of Compression Up to 40dB@1kHz
SMPTE IMD:	Typically <0.08% @ +10dBu (15dB Gain reduction)
Dynamic Range:	>115dB, unweighted
Interchannel Crosstalk:	<-80dB, 20Hz to 20kHz
Common Mode Rejection:	>40dB, typically >55dB @ 1kHz
Stereo Coupling:	True RMS Power Summing™

POWER SUPPLY:

Power Requirements	15 Watts
Operating Voltage	100 VAC 50/60Hz; 120VAC 60Hz; 230 VAC 50/60 Hz
Operating Temperature	32°F to 113°F (0°C to 45°C)

PHYSICAL:

Dimensions	1.75" x 6.75" x 19" (4.5cm x 17.15cm x 48.26cm)
Weight	Net Weight: 5.05 lbs/2.29 Kg
Shipping Weight:	7.20 lbs/3.27 Kg

Note: 0dBu = 0.775VRMS

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