



DOCUMENTAZIONE

Moonwalk Service

c/o Claudio Giulio Prencipe

Noleggio Audio e Luci | Installazioni per Eventi
via Camogli 11/3 - Rivoli frazione Cascine Vica, 10098 (TO)

+39/3477822465

moonwalkservice@gmail.com

www.noleggio-audio-luci.it | www.moonwalkgroup.com

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la presente documentazione viene resa disponibile presso il sito
www.noleggio-audio-luci.it e www.moonwalkgroup.com per
scopi puramente informativi. Vi invitiamo a visitare i siti
dei produttori per consultare le ultime edizioni disponibili.

166XL

COMPRESSOR / LIMITER / GATE

dbx[®]
PROFESSIONAL PRODUCTS

VISIONARY DESIGN

Most compressor/gates provide less than musical compression, coupled with gating that swallows transients—or closes early, cutting off decay and reverb tails. The superb engineering in the 166XL ensures that both its compression and gating provide versatility and excellent sonic performance in situations where other compressor/gates typically produce undesirable processing artifacts.

When using the 166XL's Attack and Release controls, artists and engineers will find that the center settings deliver classic dbx compression, while the full control range produces voicings that extend from slow "leveling" to aggressive "peak" limiting.

The 166XL's advanced gate circuitry uses a completely new, program-dependent timing algorithm to produce ultra-smooth release characteristics—even with complex signals, such as voice or reverb decays. dbx engineers went on to take advantage of the wide dynamic range and high precision of the dbx V2™ VCA to design in an extra-wide threshold range and ensure top gating performance for each application.

Separate precision LED displays for gain reduction, compression threshold and gate threshold allow quick, accurate setup, while the 166XL's intuitive operation lets users easily smooth uneven levels, add sustain to guitars, squash drums or tighten up mixes. In Stereo couple mode, the Channel 1 controls become Master controls, and Channel 2 follows precisely to ensure a rock solid stereo image—even with high amounts of compression, through True RMS Power Summing™. Professionals and newcomers alike will find that the 166XL sets up rapidly and musically the first time it is used, especially with the Auto attack and release function. Advanced applications are now easy, with the 166XL's full sidechain functionality, and the ability to use either hard knee or OverEasy® compression algorithms. Add to this already impressive list of features the venerable PeakStop limiter, and you've got a strong finisher, every time.

The dbx 166XL processor is the result of an intensive engineering and product development effort aimed at taking advantage of the latest and best advances in manufacturing technology to deliver true dbx audio performance and reliability to our customers at the lowest possible cost. The 166XL puts a completely new level of compressor/gate performance within everyone's reach.

FEATURES

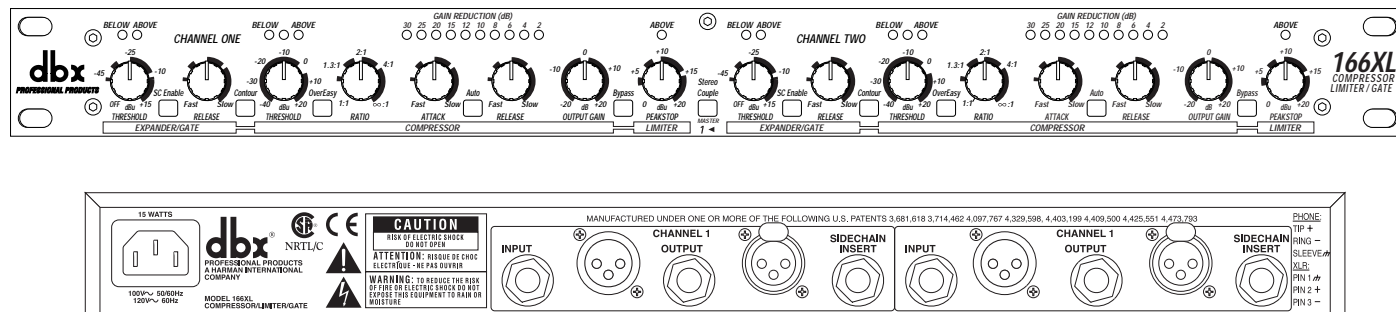
- *Goof proof operation to smooth uneven levels, add sustain to guitars, fatten drums or tighten up mixes.*
- *New gate timing algorithms ensure the smoothest release characteristics.*
- *Program-adaptive expander/gates.*
- *Great sounding dynamics control for any type of program material*
- *Separate 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.*
- *Side Chain insert.*
- *Classic dbx "Auto" mode.*

8760 S. Sandy Pkwy.
Sandy, Utah 84070
Phone (801) 568-7660
Fax (801) 568-7662
customer@dbxpro.com
<http://www.dbxpro.com>

H A Harman International Company

166XL

COMPRESSOR / LIMITER / GATE



ARCHITECTS' AND ENGINEERS' SPECIFICATIONS

The compressor/limiter/gate shall have two identical channels, each with an audio frequency response of 5Hz-40kHz, +0, -0.5dB, a balanced input impedance of not less than 40k Ω , with a maximum input level of not less than +21dBu and a 1/4" TRS input connector. The output impedance shall be no more than 50 Ω unbalanced, 100 Ω balanced with a maximum output level of not less than +20dBu, a minimum load impedance at not more than 600 Ω and the connector type shall be 1/4" TRS. Total Harmonic Distortion shall be less than 0.2% with any amount of compression at 1kHz, and Intermodulation Distortion shall be less than 0.2%. The unit shall have an output noise level of not more than -93dBu unweighted, and a dynamic range not less than 114dB. Outputs shall be gain adjustable in the amount of ± 20 dB from nominal gain via front-panel Output Gain controls, and all outputs shall be capable of driving a short circuit indefinitely with maximum input applied. The compressor attack and release times shall be scalable and program dependent. The gate attack time shall be <100 μ sec. The compression threshold shall range from -40 to +20dB. The gate threshold range shall be from -60 to +10dBu. The compressor/gate shall have a stereo coupling switch as well as the following controls for each channel: Compressor Threshold, Compressor Ratio, Attack, Release, Auto switch Output, Gain, Expander/Gate Threshold, Expander/Gate Ratio, Bypass. The following metering LEDs shall exist for each channel: Compressor Threshold (Below, At Above), Gain Reduction and Gate Threshold (Above and Below). The unit shall operate from a power source of 100 VAC 50/60 Hz to 120 VAC 60 Hz for a domestic unit and 230 VAC 50 Hz for a european unit via IEC type AC cable and shall consume no more than 15 W. The net weight shall be 7lbs. (3.2kg). The unit shall be a dbx 166XL Compressor/Gate.

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

dbx PROFESSIONAL PRODUCTS

A Harman International Company

SPECIFICATIONS

Inputs (1/4" TRS Phone and XLR) Floating Balanced; XLR: Pin 2 and TIP HI, Impedance >50k Ω balanced, >25k Ω unbalanced Maximum Level +24dBu, Balanced or Unbalanced CMRR >40dB at 1kHz, typically >55dB		Expander/Gate Threshold Range OFF to +15dBu Expansion Ratio 10:1 Maximum Depth >60dB Attack Time <500 μ s (from Maximum Depth) Release Time Adjustable, 30ms to 3sec (to 30dB attenuation)	
Sidechain Insert (1/4" TRS Phone) Normalized: Ring = Output (send); Tip = Input (return) Impedance Tip = >10k Ω (Input) Ring = 2k Ω (Output) Maximum Level +24dBu		PeakStop® Limiter Threshold Range 0dBu to +20dBu	
Outputs (1/4" TRS Phone and XLR) Floating Balanced; XLR: Pin 2 and TIP HI Impedance 120 Ω balanced, 60 Ω unbalanced Maximum Level +21dBu, >+20 dBm into 600 Ω , balanced or unbalanced 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)		Gain Adjustment Range Variable; -20dB to +20dB Interchannel Crosstalk <-80dB, 20Hz to 20kHz Dynamic Range >115 dB Stereo Coupling True RMS Power Summing™ Operating Voltage 100 VAC 50/60Hz; 120VAC 60Hz 230 VAC 50/60 Hz Power Consumption 15 Watts Maximum Operating Temperature 0°C to 45°C (32°F to 113°F) Dimensions (H x W x D) 1.75" x 19" x 6.75" (4.45 cm x 48.2 cm x 17.15 cm) Rack Space 1 Rack Unit (1U High) Weight Net weight: 5.05 lb (2.29 kg) Shipping weight: 7.20 lb (3.27 kg)	
Compressor Threshold Range -40dBu to +20dBu Threshold Characteristic Selectable OverEasy or Hard Knee Compression Ratio Variable; 1:1 to Infinity:1; 60dB Maximum Compression Attack Time Variable program-dependent; 3ms to 340ms for 15dB gain reduction Release Rate Variable program-dependent; 200dB/Sec to 3dB/Sec		Note: 0dBu = 0.775Vrms. Specifications are subject to change.	

FOR MORE INFORMATION CONTACT:

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8760 S. Sandy Pkwy.
Sandy, Utah 84070
Phone (801) 568-7660
Fax (801) 568-7662
Int'l Fax (801) 568-7583
customer@dbxpro.com
http://www.dbxpro.com