

162SL

Stereo Compressor/Limiter with AutoVelocity™

dbx®

PROFESSIONAL PRODUCTS

VISIONARY DESIGN

The striking front panel, machined from 1/4" aircraft aluminum, handcrafted solid aluminum knobs, LEDs mounted individually in machined stainless steel housings, custom VU meters with peak indicators, mark the 162SL as a leader for decades to come. The 162SL combines the best features of all the great dbx compressors, past and present, and gives you more versatile performance than ever before. In addition to having the auto attack and release, and the hard knee threshold characteristics of the classic dbx 160, the 162SL offers AutoVelocity™ manual mode, along with our classic dbx OverEasy® mode, made standard by the legendary dbx 165A. All of the 160SL's features, including variable attack and release controls, PeakStopPlus®, as well as dbx's latest limiting algorithm PeakStopPlus™, are included in the 162SL.

REVOLUTIONARY ENGINEERING

The heart of any dynamics processor is its VCA. The dbx 162SL is no different. It features dual proprietary dbx VCA's. This state-of-the-art implementation of dbx's original Blackmer decilinear VCA boasts an unheard of dynamic range and ultra-low distortion seen only previously in the Blue 160SLs. With sonic clarity designed for the studio, the 162SL maintains its superior performance in harsh environments, pure enough for the studio, rugged enough for the road was the engineering motto of the Purple Series of Compressors / Limiters. Like its big brother, the 162SL takes full advantage of the best parts available and dbx's advanced manufacturing, including Jensen® transformers on each output standard. Following in the footsteps of the Blue Series 160SL with the Purple Series 162SL, dbx continues to create to the most technologically advanced compressors in the world. For more information please visit www.dbxpro.com.

FEATURES

- **Super fast manual attack and release modes with AVD Circuitry**
- **High-Drive Output Circuitry with Jensen® Transformers**
- **Hard-knee/OverEasy® switchable**
- **Ultra-low distortion compression**
- **White LED backlit VU meters**
- **XLR and 1/4" TRS Input and Output Connectors**
- **+4dBu/-10dBv Operating Level**
- **Toroidal Power Supply**

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H A Harman International Company



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SPECIFICATIONS

INPUTS

Connectors: Female XLR and 1/4" TRS (Pin 2 and Tip hot)
 Type: Electronically balanced/unbalanced, RF filtered.
 Impedance: Balanced >50 kΩ, unbalanced >25 kΩ.
 Maximum Input Level: >+24dBu balanced and unbalanced.
 CMRR: >40dB; typically >55dB at 1kHz.

OUTPUTS

Connectors: Male XLR and 1/4" TRS (Pin 2 and Tip hot)
 Type: Transformer balanced/unbalanced, RF filtered.
 Impedance: Balanced 30Ω, unbalanced 15Ω.
 Maximum Output Level: >+24dBu, >+22dBm(into 600Ω Load).

SIDECHAIN SEND (OUTPUT)

Connector: 1/4" TRS
 Type: Impedance balanced, RF filtered.
 Impedance: Balanced 100Ω, unbalanced 50Ω.
 Maximum Output Level: >+22dBu.

SIDECHAIN RETURN (INPUT)

Connector: 1/4" TRS
 Type: Electronically balanced/unbalanced, RF filtered.
 Impedance: Balanced >40 kΩ, unbalanced >20kΩ.
 Maximum Input Level: >+22dBu balanced or unbalanced.
 CMRR: >40dB; typically >55dB at 1kHz.

SYSTEM PERFORMANCE

0.1dB Bandwidth: 20 Hz to 20 kHz +0/-0.1dB, no gain reduction, unity gain.
 Frequency Response: <2 Hz to >200 kHz +0/-3.0dB, no gain reduction, unity gain.
 Noise: <-93dBu, unweighted, 20 Hz to 20 kHz measurement bandwidth.
 Dynamic Range: >117dB
 THD + Noise: 0.008% typical at +4dBu, 1kHz, unity gain.
 0.02% typical at +20dBu, 1kHz, unity gain.
 <0.1% any amount of compression up to 30dB, 1kHz
 <0.02% SMPTE 4:1, no gain reduction, unity gain, 0dBu input.
 IMD: <1.0 degree, <10 Hz to 200 kHz, 30dB of compression.
 Deviation From Linear Phase: <-85dB, 20 Hz to 20 kHz.
 Interchannel Crosstalk: True RMS Power Summing™.

COMPRESSOR

Threshold Range: -40 to +20dBu
 Ratio: 1:1 to ∞:1
 Threshold Characteristic: Selectable OverEasy, or hard knee.

Attack/Release Modes: Selectable Manual or Auto.
 Manual Attack Time: Scalable program-dependent. Typically 400dB/msec to 1dB/msec.
 Manual Release Time: Scalable program-dependent. Typically 4000dB/sec to 10dB/sec.
 Auto Attack Time: Program dependent, typically 15 ms for 10dB, 5 ms for 20dB, 3 ms for 30dB.
 Auto Release Time: Program dependent, typically 120dB/sec.
 Output Gain: -20 to +20dB.

LIMITER

Threshold Range: +4dBu to >+24dBu (off).
 Ratio: ∞:1
 Limiter Type: PeakStopPlus® two-stage limiter.
 Stage 1: Instantaneous Transient Clamp®.
 Attack Time: Zero
 Release Time: Zero
 Stage 2: Intelligent Predictive Limiting®.
 Attack Time: Program dependent, typically <5 msec.
 Release Time: Program dependent, typically 22dB/sec.

POWER SUPPLY

Operating Voltage: Factory selected: 100-120V, 120V, or 220-240VAC 50/60Hz.
 Power Consumption: 28 Watts maximum.
 Fuse: 100V-120V: T 400ma 250V; 5mm X 20mm
 220V-240V: T 200ma 250V; 5mm X 20mm
 Mains Connection: IEC 320 Receptacle

PHYSICAL

Dimensions: 3.5"H X 19"W X 10"D
 Weight: 11.2 lbs (5.1 kg)
 Shipping Weight: 13.0 lbs (5.9 kg)

Note:

0dBu = 0.775V RMS
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dbx engineers are constantly working to improve the quality of our products. Specifications are, therefore subject to change without notice.

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FOR MORE INFORMATION CONTACT:

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