

iEQ™ 31

Dual 31-Band Digital Graphic Equalizer/Limiter with TYPE V™ NR and AFS™

dbx®

PROFESSIONAL PRODUCTS



VISIONARY DESIGN

With an EQ heritage that has produced countless industry-standard patents and dates back more than 30 years, the dbx iEQ-31 easily lives up to the dbx® legacy of uncompromised sonic integrity. In addition to unsurpassed equalization specs, the iEQ-31 also offers the built-in necessities which include AFS™ feedback Suppression, Type V™ noise reduction and PeakStopPlus® limiting. Besides including two 31-band channels of 1/3-octave equalization, the iEQ-31 also offers ± 12 dB input gain range; switchable ± 6 or ± 15 dB boost/cut range, 40mm faders, XLR, 1/4" and Euroblock inputs and outputs, nonconductive nylon sliders; and an intuitive user interface with comprehensive output and gain reduction metering. As always, the inevitable result of our meticulous attention to detail and top-quality componentry is exceptional sound, performance, and reliability.

REVOLUTIONARY ENGINEERING

The iEQ series represents a major step forward in the performance of graphic equalizers. The iEQ series is now able to offer state-of-the-art digital EQ performance and specs with an analog look and feel. From its amazing 10Hz to 22kHz frequency response, to its 113dB dynamic range and Advanced Feedback Suppression (AFS™), dbx proprietary Type V™ noise reduction and PeakStopPlus® limiting, the iEQ-31 offers out of this world specifications with a down-to-earth price point. Sure to find a home in the studio, on tour and with installed sound venues, the iEQ-31 is destined to take its rightful place in the lineage of great dbx® signal processors that are the professional's choice in signal processing. With such pristine design and quality, the iEQ-31 offers the maximum sonic flexibility in a straight forward interface and rock-solid construction. For more information please visit us at: www.dbxpro.com.

FEATURES

- **Advanced Feedback Suppression (AFS™)**
- **Type V™ Noise Reduction**
- **PeakStopPlus® Limiting**
- **1/3-octave Constant Q frequency bands**
- **Switchable boost/cut ranges of ± 6 or ± 15 dB**
- **18 dB per octave 40Hz low-cut filter**
- **± 12 dB input gain range**
- **XLR, TRS and Euroblock**
- **Inputs and Outputs**
- **Internal Toroidal Transformer**
- **Dynamic range of greater than 113dB**
- **User Power Up Features**
- **Relay Bypass for Power Failure System Protection**

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H A Harman International Company

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SPECIFICATIONS

Inputs

Connectors: 1/4" TRS, female XLR (pin 2 hot), and Euroblock
Type: Electronically balanced/unbalanced, RF filtered
Impedance: Balanced 40kΩ unbalanced 20kΩ
Max Input Level: +22dBu balanced or unbalanced
CMRR: >40dB, typically >55dB at 1kHz

Outputs

Connectors: 1/4" TRS, male XLR (pin 2 hot), and Euroblock
Type: Balanced/unbalanced, RF filtered
Impedance: Balanced 120Ω unbalanced 60Ω
Max Output Level: +20dBu balanced/unbalanced into 2kΩ or greater

System Performance

Frequency Response: 20Hz to 20kHz, +0.5/-0.25dB
Dynamic Range: >113dB, "A" weighted
THD+Noise: 0.003% typical at +4dBu, 1kHz
Interchannel Crosstalk: <-80dB, 20Hz to 20kHz
Noise Reduction: Up to 10dB of dynamic broadband noise reduction
Digital Resolution: 24 bits
Sample Frequency: 48kHz
Latency: 2msec

Function Switches

AFS™: Activates dbx AFS™ Advanced Feedback Suppression
TYPE V™ NR: Activates dbx Type V™ Noise Reduction
EQ Bypass: Bypasses the graphic equalizer section in the signal path
Low Cut: Activates the 40Hz 18dB/octave Bessel high-pass filter range

Range: Selects either +/- 6dB or +/- 15dB slider boost/cut range

Indicators

Output Level: 4-LED bar graph (Green, Green, Yellow, Red) at -10, 0, +10, and +18dBu
Gain Reduction: 4-LED bar graph (all Red) at 0, 3, 6, and 10dB
Type V™ NR: 1 LED: yellow, green or red
EQ Bypass: 1 LED: red
Clip: 1 LED: red
Low Cut: 1 LED: red
+/-15dB: 1 LED: red

Power Supply

Operating Voltage: 120VAC 60Hz, 220-240VAC 50/60Hz
Power Consumption: 17 Watts
Mains Connection: IEC receptacle

Physical

Dimensions: 5.25" H X 19" W X 7.9" D (13.4cm x 48.3cm x 20.1cm)
Weight: 9.25 lbs.
Shipping Weight: 10.25 lbs.

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

FOR MORE INFORMATION CONTACT:

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