

QUANTUM II

Digital Multi-band Compressor/Limiter/Expander/Gate/ Parametric EQ/De-Esser/Normalizer with dbx Type IV™ Conversion System

dbx®

PROFESSIONAL PRODUCTS

VISIONARY DESIGN

The dbx Quantum II is the first studio mastering tool that offers sampling rates up to 96kHz, with a true 48-bit digital signal path, and the superior dbx dynamics processing that has been making the hits for 30 years.

Insert the Quantum II into the master outputs of any console or workstation and turn out a professional master every time. The patented dbx dynamics processing is now available in a 4-band multiband system. The 4-way crossover splits the signal into 4-bands, and each band may be individually gated, compressed, and limited.

The patented dbx TYPE IV™ Conversion System allows you to retain the warmth and body of the signal, while adding punch and depth. In addition, the intuitive user interface puts all the mastering processes you need right at your fingertips.

REVOLUTIONARY ENGINEERING

The Quantum II's intuitive operating system allows you easy access to the strongest mastering tool-box ever produced. A quick tour through the menu driven system gives you a glimpse of the packed feature set. Use the 4 band crossover with independent slope selection to split the incoming signal into 4 bands that are then each controlled separately for individual gating, compression, and limiting. The 5-band parametric EQ offers unprecedented control, with variable Q, adaptable or constant Q, and Lo and High shelving features, making the Quantum II the most versatile and useful tool to use for any mastering application.

The Quantum II also comes with the patented TYPE IV™ Conversion System. The TYPE IV™ conversion system transfers the character of any analog signal to the digital domain in a way that defies description. With the help of TSE™ Tape Saturation Emulation, the Quantum II retains the original warmth of analog recording, while giving it the clarity and versatility we need in today's digital world of music production and mastering. You can also dither your signal down to 24, 20, or 16 bits, using our custom dither algorithms. For more versatility use full MIDI/SysEx control, and internal/external sync capability. In addition, software upgrades can be downloaded from the dbx website and installed through the RS 232 port. In addition to these uncompromising features, the Quantum II also offers GUI control and software downloads from www.dbxpro.com.

FEATURES

- **96 kHz, 24 bit A/D, D/A, and Digital I/O on AES/EBU or S/PDIF**
- **48 bit internal signal path for increased head room and low level resolution**
- **Patented TYPE IV™ A/D Conversion system with TSE™**
- **4 band stereo compressor-gate-limiter**
- **5 band EQ – Hi and Lo shelves, 3 band fully parametric and MS EQ**
- **Normalizer – lets you control overall signal dynamics**
- **Stereo adjust – control your stereo image**
- **Sync input/output using dbx's own proprietary clock chips for extremely low jitter sync**
- **Dither outputs to 16, 20, or 24 bits**
- **Sample rate conversion - Full Up/Down**
- **Software updateable via Internet and RS 232**
- **4 band crossover with variable slopes**
- **GUI Control**

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>

H A Harman International Company



QUANTUM II

Digital Multi-band Compressor/Limiter/Expander/Gate/ Parametric EQ/De-Esser/Normalizer with dbx Type IV™ Conversion System



SPECIFICATIONS

Inputs

Connectors:	Female XLR and 1/4" TRS (Pin 2 and tip hot)
Type:	Electronically balanced/unbalanced, RF filtered
Impedance:	Balanced >18 kΩ, unbalanced >9 kΩ
Max Input Level:	+24 dBu balanced or unbalanced
CMRR:	>40 dB, typically >55 dB at 1 kHz
Input Gain Range:	-∞ to +16 dB
MIDI:	5-Pin DIN MIDI Input Jack

Outputs

Connectors:	Male XLR and 1/4" TRS (Pin 2 and tip hot)
Type:	Servo-balanced/unbalanced, RF filtered
Impedance:	Balanced 120 Ω, unbalanced 60 Ω
Max Output Level:	>+21dBu balanced/unbalanced into 2kΩ or greater >+20dBm balanced/unbalanced (into 600Ω)
Output Gain Range:	-∞ to +16 dB
MIDI:	5-Pin DIN MIDI Out/Thru Jack
GUI control:	RS232 port

A-D System Performance

A-D Conversion:	24-bit, dbx Type IV™ Conversion System
Convertor Dynamic Range:	114 dB typical, A-weighted, 22 kHz bandwidth 112 dB typical, unweighted, 22 kHz bandwidth
Type IV™ Dynamic Range:	Up to 127 dB with transient material, A-weighted, 22 kHz bandwidth Up to 125 dB with transient material, unweighted, 22 kHz bandwidth Typically 119 dB with program material, A-weighted, 22 kHz bandwidth Typically 117 dB with program material, unweighted, 22 kHz bandwidth

THD+Noise:	0.002% typical at +4 dBu, 1 kHz, input gain at 0 dB
Frequency Response:	20 Hz to 20 kHz, +0/-0.5 dB
Interchannel Crosstalk:	< -85 dB at 1 kHz, input gain at 0 dB

D-A System Performance

D-A Conversion:	24-bit
Dynamic Range:	115 dB typical, A-weighted, 22 kHz bandwidth 112 dB typical, unweighted, 22 kHz bandwidth
THD+Noise:	0.002% typical at +4 dBu, 1 kHz, output gain at 0 dB
Frequency Response:	20 Hz to 20 kHz, +0/-0.5 dB
Interchannel Crosstalk:	< -85 dB at 1 kHz, output gain at 0 dB

Digital I/O

Word Clock:	96kHz, 88.1 kHz, 48 kHz and 44.1 kHz - (internal) INT96, INT88.2, INT48, INT44.1, (SuperClock) SC48, SC44.1, Word, AES/EBU, and S/PDIF. The SuperClock frequencies are 256 times the sample frequency.
SRC:	INT44.1 and INT48, Word, SC48, SC44.1.

Power Supply:

Operating Voltage:	100-240 VAC 50/60 Hz
Power Consumption:	24 watts

Physical:

Dimensions:	1.75"Hx10"Dx19"W
Weight:	7.14 lbs. (3.24 kg)
Shipping Weight:	10 lbs (4.40 kg)

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

FOR MORE INFORMATION CONTACT:

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

