

COMPOSER PRO-XL MDX2600



Technical Specifications

VERSION 1.2 September 2002

ENGLISH



COMPOSER PRO-XL

INTERACTIVE REFERENCE-CLASS 2-CHANNEL EXPANDER/GATE/COMPRESSOR/PEAK LIMITER WITH INTEGRATED DE-ESSER, DYNAMIC ENHANCER AND TUBE SIMULATION



- ▲ Switchable IKA (Interactive Knee Adaptation) program-adaptive compression circuitry combines the advantages of hard-knee and soft-knee characteristics
- ▲ Integrated De-esser with switchable male/female voice recognition removes excessive sibilance from your vocal tracks
- ▲ IGC (Interactive Gain Control) peak limiting circuitry combines clipper and program limiter for reliable and inaudible protection against signal peaks
- ▲ Switchable dynamic Enhancer for brilliant, lively audio even with heavy compression
- ▲ IRC (Interactive Ratio Control) expander/gate circuitry for virtually inaudible noise suppression
- ▲ Switchable Tube simulation for the extra warmth and transparency of classic tube circuitry
- ▲ Automatically or manually adjustable attack and release times
- ▲ Switchable Low contour filter prevents “pumping” due to low-frequency dominated compression
- ▲ Stereo couple function with independent output level settings
- ▲ Switchable Side chain input with Side chain monitor function
- ▲ Ultra low-noise 4580 operational amplifiers and state-of-the-art VCA's
- ▲ Separate 12-segment LED meters for input/output levels and gain reduction
- ▲ Dedicated “traffic light” Threshold and De-esser level displays
- ▲ Servo-balanced inputs and outputs with ¼” TRS and gold-plated XLR connectors
- ▲ Relay-controlled hard bypass switch with auto bypass function in case of power failure
- ▲ High-quality components and exceptionally rugged construction ensure long life
- ▲ Conceived and designed by BEHRINGER Germany

SPECIFICATIONS

AUDIO INPUTS

Type	XLR and 1/4" TRS connectors, HF-shielded, servo-balanced
Impedance	
+4 dBu	90 kΩ bal., 45 kΩ unbal. @ 1 kHz
-10 dBV	180 kΩ bal., 90 kΩ unbal. @ 1 kHz
Operating level	+4 dBu/-10 dBV (switchable)
Max. input level	+22 dBu balanced and unbalanced
CMRR	typ. 40 dB, >60 dB @ 1 kHz

AUDIO OUTPUTS

Type	XLR and 1/4" TRS connectors Electronically controlled servo-balanced output stage
Impedance	95 Ω bal., 50 Ω unbal. @ 1 kHz
Max. output level	+21 dBu, +20 dBm balanced and unbalanced

SIDECHAIN INPUTS

Type	1/4" TS connector, unbalanced, HF-shielded, DC-decoupled
Impedance	45 kΩ
Max. input level	+24 dBu

SIDECHAIN OUTPUTS

Type	1/4" TS connector, unbalanced, HF-shielded, DC-decoupled
Impedance	50 Ω
Max. output level	+21 dBu

SYSTEM SPECIFICATIONS

Bandwidth	20 Hz to 20 kHz, +0/-0.5 dB
Frequency range	0.35 Hz to 200 kHz, +0/-3 dB
S/N ratio	115 dB, unweighted, 22 Hz - 22 kHz
THD	0.008 % typ. @ +4 dBu, 1 kHz, gain 1 0.07 % typ. @ +20 dBu, 1 kHz, gain 1
IMD	0.01 % typ. SMPTE
Crosstalk	-110 dB @ 1 kHz

EXPANDER/GATE SECTION

Type	IRC (Interactive Ratio Control) expander
Threshold	variable (OFF to +10 dB)
Ratio	variable (1:1 to 1:8)
Attack	<1 msec/50 dB, program-dependent
Release	variable SLOW: 100 msec/1 dB, FAST: 100 msec/100 dB

COMPRESSOR SECTION

Type	IKA (Interactive Knee Adaptation) compressor
Threshold	variable (-40 to +20 dB)
Ratio	variable (1:1 to ∞:1)
Attack/release	variable (manual or automatic)
Auto characteristic	wave adaptive compressor
Manual attack time	variable (0.3 msec/20 dB to 300 msec/20 dB)
Manual release time	variable (0.05 sec/20 dB to 5 sec/20 dB)
Auto attack time	typ. 15 msec for 10 dB, 5 msec for 20 dB, 3 msec for 30 dB
Auto release time	program-dependent, typ. 125 dB/sec
Output	variable (-20 to +20 dB)

PEAK LIMITER SECTION

Type	IGC (Interactive Gain Control) peak limiter
Level	variable (0 dB to OFF (+21 dBu))
Ratio	∞:1
Level 1 limiter type	clipper
Attack	"zero"
Release	"zero"
Level 2 limiter type	program limiter
Attack	program-dependent, typ. <5 msec
Release	program-dependent, typ. 20 dB/sec

DE-ESSER SECTION

Type	VAD (Voice-Adaptive De-esser)
Filter frequency	8.6 kHz (female), 7.5 kHz (male)
Filter bandwidth	program-dependent
Level reduction	max. 15 dB

DYNAMIC ENHANCER SECTION

Type	IDE (Interactive Dynamic Enhancer)
Filter frequency	2.5 kHz (lower cut-off frequency)
Characteristic	high-pass filter (6 dB/oct.)
Boost	max. 28 dB @ 7.5 kHz

POWER SUPPLY

Mains voltage	USA/Canada 120 V ~, 60 Hz U.K./Australia 240 V ~, 50 Hz Europe 230 V ~, 50 Hz
General export model	100 -120 V ~, 200 -240 V ~, 50 - 60 Hz
Power consumption	max. 15 W
Fuse	100 -120 V ~: T 250 mA H 200 -240 V ~: T 125 mA H
Mains connection	standard IEC receptacle

DIMENSIONS/WEIGHT

Dimensions	approx. 1 3/4" (44.5 mm) x 19" (482.6 mm) x 8 1/2" (217 mm)
Weight	approx. 2.1 kg (4.63 lbs)
Shipping weight	approx. 3.3 kg (7.28 lbs)

BEHRINGER makes every effort to ensure the highest standard of quality. Necessary modifications are carried out without notice. Thus, the specifications and design of the device may differ from the information given in this manual.

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