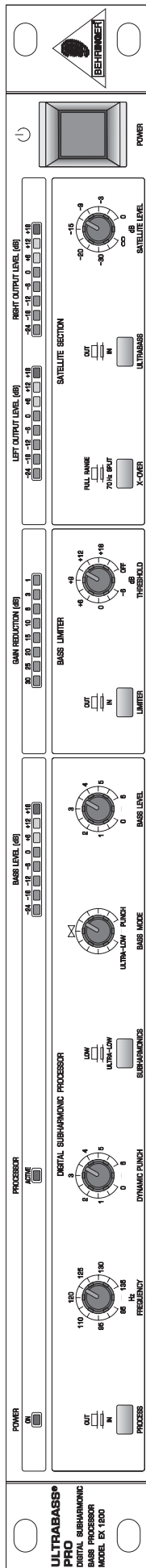


ULTRABASS

EX1200



Technical Specifications

Version 1.1 May 2000

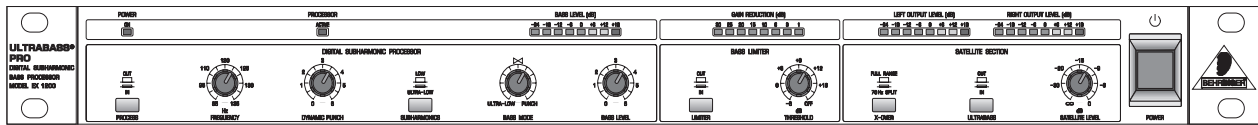
ENGLISH



www.behringer.com

ULTRABASS PRO

Professional, multi-purpose Bass Sound Enhancement system for stage and studio applications



- ▲ Digital Subharmonic Synthesizer adds unbelievable bass power to your sound system
- ▲ Perfect for discotheques, dance clubs, cinemas, theatres, sport and aerobic studios and your HiFi system
- ▲ Digital synthesis based on Waveform Analysis generates ultra-low frequencies for driving subwoofers
- ▲ Releases untapped sonic resources and adds power to instruments, vocals and mixed program material
- ▲ Waveform Processor musically restores low frequencies normally lost in the recording process
- ▲ Built-in Limiter protects against low-frequency speaker over-exursion
- ▲ Dynamic Punch control adds breathtaking kick bass to your program material
- ▲ Bass Mode control allows you to fade over from “ultra-low” to “punchy” bass sounds
- ▲ Subharmonics function allows you to choose between low and ultra-low subharmonics
- ▲ Separate subwoofer output to connect a separate subwoofer system
- ▲ Incorporates a switchable x-over to split off dangerous low frequencies from your club system
- ▲ Precision output level and gain reduction LED displays provide clear visual indication of operation
- ▲ Servo-balanced gold-plated XLR and 1/4" TRS inputs and outputs
- ▲ Ultra-low noise 4580 audio operational amplifiers for outstanding sound performance
- ▲ High-quality detented potentiometers and illuminated switches
- ▲ Manufactured under ISO9000 certified management system

SPECIFICATIONS

AUDIO INPUT

Connectors	XLR and 1/4" jack
Type	RF filtered, servo balanced input
Impedance	50 kOhms balanced, 25 kOhm unbalanced
Max. Input Level	+21 dBu balanced and unbalanced (unity gain)
CMRR	typ. 40 dB, > 55 dB @ 1 kHz

AUDIO OUTPUT

Connectors	XLR and 1/4" jack
Type	electronically servo-balanced output stage. Automatic level correction for unbalanced use (6 dB).
Impedance	60 Ohms balanced, 30 Ohm unbalanced
Max. Output Level	+21 dBu, +20 dBm balanced and unbalanced

SYSTEM SPECIFICATIONS

Frequency Response	16 Hz to 150 kHz, +/- 3 dB
Noise	> 95 dBu, unweighted, 22 Hz to 22 kHz
THD	0.001 % typ. @ +4 dBu, 1 kHz, Gain 1 0.04 % typ. @ +20 dBu, 1 kHz, Gain 1
IMD	0.01 % typ. SMPTE
Crosstalk	< -70 dB, 22 Hz to 22 kHz

SATELLITE HIGHPASS FILTER

Type	butterworth characteristics, 12 dB/Oct.
Cut-off frequency	70 Hz

SUBHARMONIC SYNTHESIZER

Type	digital frequency shifter with waveform synthesizer
LEVEL control	variable (0 to 6)

LIMITER

Type	limiter for the subharmonic synthesizer
Attack time	program dependent
Release time	20 dB/s
THRESHOLD control	variable (-6 dB to OFF)

FUNCTION SWITCHES

POWER	switches main power on/off
PROCESS	switches signal to subharmonic processor on/off
SUBHARMONICS	switches the digital frequency shifter between low and ultra-low
LIMITER	switches the limiter on/off
X-OVER	switches the crossover on/off
ULTRABASS	routes subharmonics above 70 Hz to the satellites, when SPLIT mode is active

INDICATORS

POWER LED	indicates the operation of the ULTRABASS PRO
PROCESSOR LED	indicates the operation of the Subharmonic Synthesizer
BASS LEVEL METER	indicates the level of bass frequencies
GAIN REDUCTION METER	indicates the operation of the Limiter
LEFT and RIGHT OUTPUT METERS	indicate the output levels of left and right channels

POWER SUPPLY

Mains Voltages	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
Fuse	100 - 120 V ~:	T 250 mA H
	200 - 240 V ~:	T 125 mA H
Power Consumption	max. 20 Watts	
Mains Connection	standard IEC receptacle	

PHYSICAL

Dimension (H * W * D)	app. 1 3/4" (44.5 mm) * 19" (482.6 mm) * 8 1/2" (217 mm)
Net Weight	app. 2.2 kg
Shipping Weight	app. 3.4 kg

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