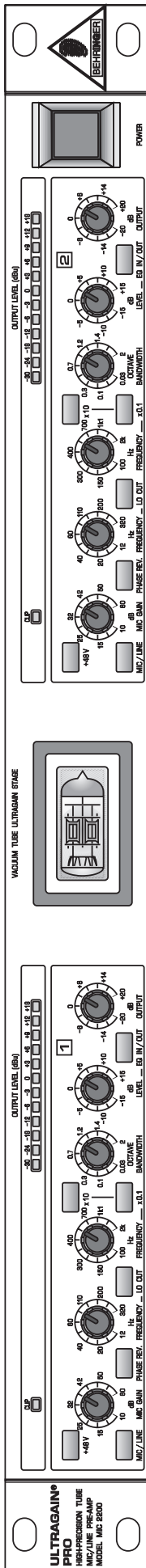


# ULTRAGAIN<sup>®</sup> PRO MIC2200



## Technical Specifications

Version 1.1 May 2000

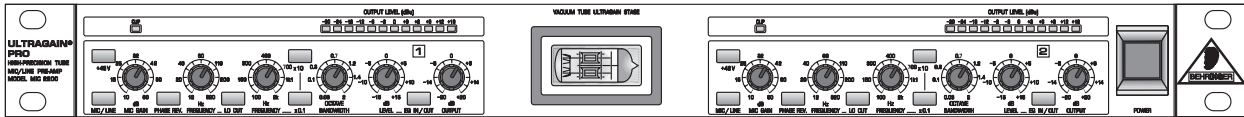
ENGLISH



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# ULTRAGAIN PRO

## Ultra-low noise discrete Microphone/Line Preamplifier



- ▲ Mic input stages are based on super-high quality, discrete conjugate transistor pair circuitry
- ▲ Ultra-wide bandwidth from 2 Hz to 200 kHz for “open” sound
- ▲ Built-in high-quality vacuum tube for outstanding, ultra-musical tube sound
- ▲ Our special vacuum tube circuitry warms up your music without unwanted noise
- ▲ Two high-end Parametric EQs with centre frequency, bandwidth and level being fully user adjustable
- ▲ Independent line driver to convert -10 dBV into +4 dBu pro level
- ▲ Completely versatile DI-Box due to servo-balanced inputs and outputs
- ▲ “Soft Mute” +48 V Phantom Power to avoid power-on “thumps”
- ▲ Fully tunable and switchable 12 dB high-pass filter
- ▲ Switchable Phase Reverse to correct phase problems
- ▲ Ultra-low noise 4580 audio operational amplifiers for outstanding sound performance
- ▲ Accurate 12-segment LED metering for output level
- ▲ Servo-balanced gold-plated XLR and 1/4" TRS inputs and outputs
- ▲ Relay-controlled input switch for maximum signal integrity
- ▲ High-quality detented potentiometers and illuminated switches
- ▲ Manufactured under the stringent ISO9000 management system

# SPECIFICATIONS

## AUDIO INPUT

Microphone	
Connectors	XLR
Type	transformerless, DC-decoupled input
Impedance	3 k Ohms balanced
Maximum input level	+10 dBu balanced and unbalanced
CMRR	typ. 40 dB, >55 dB @ 1 kHz
Line	
Connectors	XLR and 1/4" jack
Type	transformerless, DC-decoupled input
Impedance	60 kOhms balanced
Maximum input level	+23 dBu balanced and unbalanced
CMRR	typ. 40 dB, >55 dB @ 1kHz

## AUDIO OUTPUT

Connectors	XLR and 1/4" jack
Type	electronically servo-balanced output stage
Impedance	60 Ohms balanced, 30 Ohm unbalanced
Maximum output level	+21 dBu balanced and unbalanced

## SYSTEM SPECIFICATIONS

Frequency response	10 Hz to 200 kHz, +/- 3 dB
Noise	> 94 dBu, unweighted, 22 Hz to 22 kHz
THD	0.011 % typ. @ +4 dBu, 1 kHz, Gain 1
IMD	0.01 % typ. SMPTE
Crosstalk	< -88 dB, 22 Hz to 22 kHz

## FUNCTION CONTROLS

Mic gain	variable (+10 dB to +60 dB)
Frequency (lo cut)	variable (12 to 320 Hz)
Frequency (PEQ)	variable (10 Hz to 20 kHz), dependent on x 10 and x 0.1 switch
Bandwidth	variable (0.03 to 2 octaves)
Level	variable (-15 dB to +15 dB)
Output	variable (-20 dB to +20 dB)

## FUNCTION SWITCHES

+48 V	activates phantom power
Mic/line	switches from line to mic preamplifier
Phase rev.	phase reverse (180°)
Lo cut	activates the high-pass filter
x 0.1	switches the frequency control to 10 Hz - 200 Hz
x 10	switches the frequency control to 1 kHz - 20 kHz
EQ in/out	activates the parametric filter

## INDICATORS

Clip	clipping control LED
Output level	12-segment LED display: -30/-24/-18/-12/-6/-3/0/+3/+6/+9/+12/+18 dB
function switch	LED indicator of every switch

## 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
Power consumption	max. 20 Watts	
Fuse	100 - 120 V ~: <b>T 500 mA H</b>	
	200 - 240 V ~: <b>T 250 mA H</b>	
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. 3.0 kg
Shipping weight	app. 4.2 kg

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BEHRINGER Spezielle Studiotechnik GmbH, Hanns-Martin-Schleyer-Str. 36-38, 47877 Willich-Münchheide II, Germany

Tel. +49 (0) 21 54 / 92 06-0, Fax +49 (0) 21 54 / 92 06-30

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