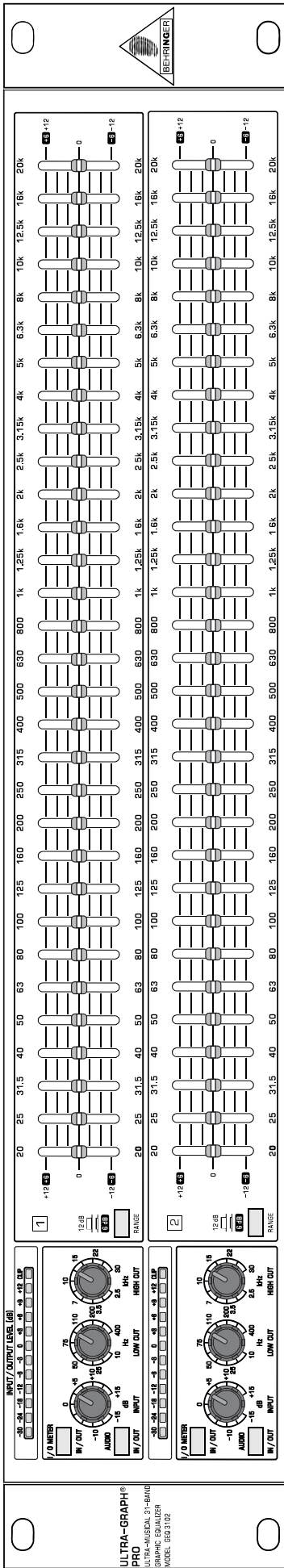


ULTRA-GRAPH[®] PRO GEQ3102



Tech. Specifications

Version 1.1 May 2000

ENGLISH



www.behringer.com

ULTRA-GRAPH PRO

Ultra-musical 31-Band Stereo Graphic Equalizer

- ▲ Delivers outstanding equalization both in live applications and in the studio
- ▲ For gentle contouring and audio sweetening in audio post-production and recording studios
- ▲ Perfectly suited for room equalization and extreme corrective surgery e.g. notching out unwanted frequencies (feedback etc.)
- ▲ 2 x 31 ISO frequencies controllable via slide controls with boost/cut range switchable from 12 dB to 6 dB
- ▲ Additional sweepable High and Low Cut filters remove unwanted frequencies e.g. floor rumble and tape hiss etc.
- ▲ Servo-balanced inputs and outputs on gold-plated XLR and 1/4" jack connectors
- ▲ Relay-controlled hard-bypass with an auto-bypass function during power failure (failsafe relay)
- ▲ Ultra-low noise audio operational amplifiers offer outstanding sound performance
- ▲ High-precision illuminated Alps faders
- ▲ Accurate 12-segment LED input/output metering for easy level setting
- ▲ High-quality detented potentiometers and illuminated switches
- ▲ High-grade toroidal transformer for a minimum of interference
- ▲ High-quality components and exceptionally rugged construction ensures long life
- ▲ Manufactured under ISO9000 certified management system

SPECIFICATIONS

AUDIO INPUT

Connectors	XLR and 1/4" jack
Type	RF filtered, servo-balanced input
Impedance	50 kOhm balanced, 25 kOhm unbalanced
Max. input level	+21 dBu balanced and unbalanced
CMRR	typ. 40 dB, > 53 dB @ 1 kHz

AUDIO OUTPUT

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

SYSTEM SPECIFICATIONS

Frequency response	10 Hz to 35 kHz, +/- 3 dB
Noise	> 92.3 dBu, unweighted, 22 Hz to 22 kHz
THD	0.004 % typ. @ +4 dBu, 1 kHz, Gain 1
Crosstalk	< -85 dB, 22 Hz to 22 kHz

ROLL-OFF FILTER SECTION

Type	12 dB/oct., butterworth
Input	variable (-15 dB to +15 dB)
Low cut	variable (10 Hz to 400 Hz)
High cut	variable (2.5 kHz to 30 kHz)

GRAPHIC EQUALIZER

Type	analog 1/3-octave equalizer
Frequency range	20 Hz to 20 kHz in 31 1/3-octave bands (ISO frequencies)
Bandwidth	1/3 octave
Control range	+/- 6 dB or +/- 12 dB (switchable)

FUNCTION SWITCHES

Audio in/out	switch to bypass the equalizer functions
I/O meter in/out	switches the meter display from input to output
Range	shift of the maximum cut/boost range for all 31 bands

INDICATORS

Input/output level	12-segment LED display: -30/-24/-18/-12/-6/-3/0/+3/+6/+9/+12/+18 dB
Function switch	LED indicator for 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 ~:	T 400 mA H
	200 - 240 V ~:	T 200 mA H
Mains connection	standard IEC receptacle	

PHYSICAL

Dimension	app. 3 1/2" (89 mm) * 19" (482.6 mm) * 5.3" (135 mm)
Weight	app. 2.5 kg

The information contained in this sheet is subject to change without notice. No part of this sheet may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording of any kind, for any purpose, without the express written permission of BEHRINGER Spezielle Studiotechnik GmbH.

BEHRINGER and ULTRA-GRAPH are registered trademarks. ALL RIGHTS RESERVED.

© 2000 BEHRINGER Spezielle Studiotechnik GmbH.

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
