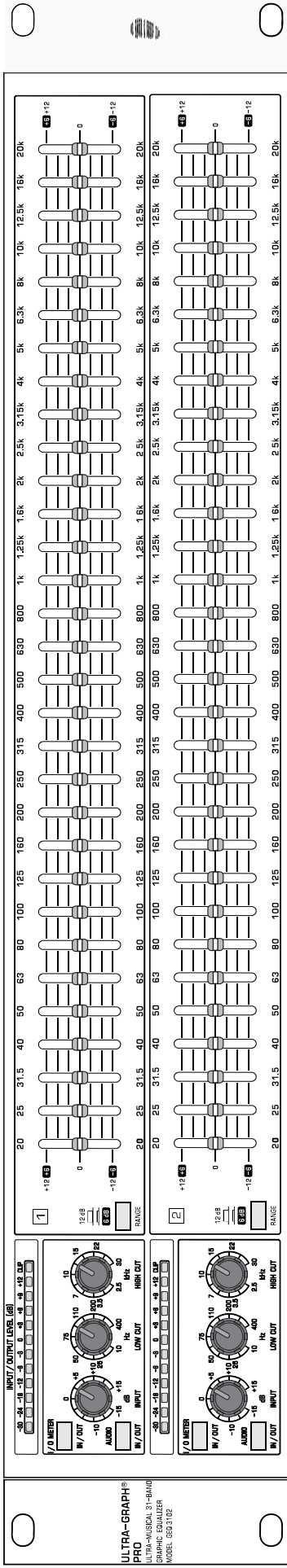


ULTRA-GRAPH[®] PRO GEQ3102



Tech. Specifications

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 |