



Technical Specifications



ULTRAGRAPH PRO FBQ3102

Audiophile 31-Band Graphic Equalizer with
FBQ Feedback Detection System

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Audiophile 31-Band Graphic Equalizer with FBQ Feedback Detection System

- Professional 31-band stereo graphic equalizer for live and studio applications
- Revolutionary FBQ Feedback Detection system instantly reveals critical frequencies and can also be used as audio analyzer
- Dedicated mono subwoofer output with adjustable crossover frequency
- Additional sweepable high and low-cut filters for each channel remove unwanted frequencies, e.g. floor rumble, hiss etc.
- Highly accurate 12-segment LED input/output metering and input gain controls for easy level setting
- Ultra-low noise audio operational amplifiers for highest signal integrity
- Relay-controlled hard-bypass with an auto-bypass function during power failure (failsafe relay)
- Servo-balanced inputs and outputs with ¼" TRS and gold-plated XLR connectors
- Shielded toroidal power transformer for ultra-low noise performance
- High-quality components and exceptionally rugged construction ensure long life
- Conceived and designed by BEHRINGER Germany

Specifications

Audio Inputs

| | |
|---------------------|---|
| INPUTS | RF-filtered, servo-balanced XLR and ¼" TRS connectors |
| Impedance | 40 kW balanced and unbalanced |
| Maximum input level | +21 dBu balanced and unbalanced |
| CMRR | typ. 40 dB, >55 dB @ 1 kHz |

Audio Outputs

| | |
|----------------------|--|
| OUTPUTS | servo-balanced XLR and ¼" TRS connectors |
| SUBWOOFER OUT | balanced XLR connector |
| Crossover frequency | variable, 30 - 200 Hz |

System Specifications

| | |
|--------------------|-------------------------------------|
| Frequency response | 10 Hz to 30 kHz, ±3 dB |
| S/N ratio | 22 Hz to 22 kHz >94 dB @ +4 dBu |
| Distortion (THD) | typ. 0.006% @ +4 dBu, 1 kHz, Gain 1 |
| Crosstalk | typ. -65 dB @ 1 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 31-band 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) |

Limiter Section

| | |
|----------------|---|
| Attack/Release | — |
| Threshold | — |
| LED meter | — |

Noise Generator

| | |
|-----------------|---|
| Type | — |
| LED level meter | — |

Function Switches

| | |
|------------------|--|
| FBQ | activates the FBQ Feedback Detection System |
| 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 31/15 bands |
| Low Cut | — |
| Limiter | — |
| Pink Noise | — |
| Subwoofer | — |

Indicators

| | |
|--------------------|--|
| Input/output level | 12-segment LED display: -30/-24/-18/-12/-6/-3/0/+3/+6/+9/+12 dB/CLIP |
| Subwoofer | — |

Power Supply

| | |
|---------------------------|--|
| Mains Voltage | |
| USA / Canada | 120 V~, 60 Hz |
| Europe / U.K. / Australia | 230 V~, 50 Hz |
| Japan | 100 V~, 50 - 60 Hz |
| General Export Model | 120/230 V~, 50 - 60 Hz |
| Power consumption | 35 W |
| Fuse | 100 - 120 V~: T 630 mA H 200 - 240 V~: T 315 mA H |
| Mains connection | standard IEC receptacle |

Dimensions / Weight

| | |
|------------------------|---|
| Dimensions (H x W x D) | 150 x 89 x 482.6 x mm (5.9 x 3.5 x 19") |
| Weight | 2.64 kg (5.8 lbs) |

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