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› [Behringer Ultragraph Pro FBQ6200 31-Band Stereo Graphic Equalizer User Manual](#)

BEHRINGER FBQ6200

Behringer Ultragraph Pro FBQ6200 31-Band Stereo Graphic Equalizer User Manual

Model: FBQ6200

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1. INTRODUCTION

The Behringer Ultragraph Pro FBQ6200 is a professional 31-band stereo graphic equalizer designed for both live sound reinforcement and studio recording applications. It features the revolutionary FBQ Feedback Detection System, dedicated limiters per channel, and a pink noise generator, providing comprehensive control over your audio environment.

This manual provides essential information for the safe and effective operation of your FBQ6200. Please read it thoroughly before connecting or operating the unit.

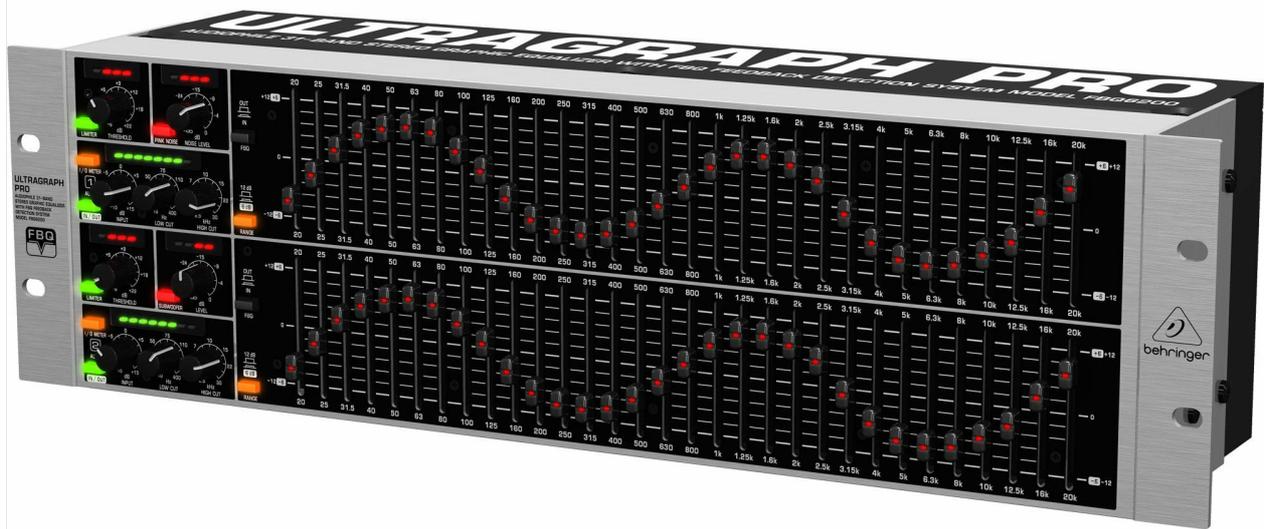


Figure 1: Front view of the Behringer Ultragraph Pro FBQ6200, showing the 31 frequency sliders, FBQ LEDs, input/output meters, and various control buttons.

2. IMPORTANT SAFETY INSTRUCTIONS

- Read these instructions carefully.
- Keep these instructions for future reference.
- Heed all warnings and follow all instructions.
- Do not use this apparatus near water or moisture.
- Clean only with a dry cloth.
- Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.

- Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- Protect the power cord from being walked on or pinched, particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- Only use attachments/accessories specified by the manufacturer.
- Unplug this apparatus during lightning storms or when unused for long periods of time.
- Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

3. SETUP

3.1 Unpacking

Carefully unpack your FBQ6200. Inspect the unit for any signs of damage that may have occurred during transit. If damage is found, contact your dealer immediately. Retain the original packing materials for future shipping or storage.

3.2 Connections

The FBQ6200 offers flexible connectivity options. Ensure all audio equipment is powered off before making any connections.

- **Audio Inputs:** Connect your audio source (e.g., mixer output) to the FBQ6200's inputs using balanced XLR or 1/4" TRS cables. The unit features two channels for stereo operation.
- **Audio Outputs:** Connect the FBQ6200's outputs to your amplifier or next processing stage using balanced XLR or 1/4" TRS cables.
- **Subwoofer Output:** A dedicated mono subwoofer output is provided for connecting to a powered subwoofer or subwoofer amplifier. This output features an adjustable crossover frequency.
- **RCA Connections:** While the primary connectors are XLR and 1/4" TRS, RCA adapters can be used for compatibility with RCA-equipped gear. Ensure proper grounding to avoid hum and noise.

3.3 Power Connection

Connect the supplied AC power cord to the FBQ6200's power inlet and then to a suitable AC power outlet. Ensure the voltage matches the unit's requirements. Always power on your equalizer after your mixer and before your power amplifiers. Power off in the reverse order.

4. OPERATING THE FBQ6200

The FBQ6200 offers a range of controls for precise audio shaping and system protection.

4.1 Front Panel Controls Overview

- **Frequency Sliders:** Each channel features 31 illuminated sliders, allowing you to boost or cut specific frequency bands by up to ± 12 dB. The center position is flat (0 dB).
- **FBQ Feedback Detection System:** Activate the FBQ button. The LEDs on the frequency sliders will illuminate brightly at the frequencies where feedback is occurring, allowing for quick identification and reduction. This system can also function as an audio analyzer.
- **Limiters:** Each channel has a dedicated limiter with a threshold control and gain reduction meters. Adjust the threshold to prevent signal peaks from exceeding a set level, protecting your sound system from overload and distortion.
- **Pink Noise Generator:** Press the PINK NOISE button to activate the internal pink noise generator. This signal can be used in conjunction with the FBQ system or an external real-time analyzer to equalize your sound system to the room acoustics.
- **Input/Output Level Controls:** Use these controls to adjust the overall input and output gain of each channel. The 8-digit LED meters provide accurate visual feedback for level setting. Aim for levels that are strong but do not consistently peak into the red.
- **Low Cut/High Cut Filters:** These filters allow you to remove unwanted low-frequency rumble or high-frequency hiss from your signal. The low cut filter typically removes frequencies below 20-30 Hz, while the high cut filter removes frequencies above 18-20 kHz.
- **Bypass Switch:** Engages or disengages the equalizer's processing, allowing for quick A/B comparison between the processed and unprocessed signal.
- **Subwoofer Crossover:** Adjust the crossover frequency for the dedicated subwoofer output, allowing you to tailor the low-frequency response of your system.

4.2 Basic Equalization Procedure

1. Start with all frequency sliders at the 0 dB (center) position.
2. Set input and output levels appropriately, ensuring no clipping.
3. For feedback control, activate the FBQ system. Identify illuminated sliders and gently reduce the gain for those specific frequencies until feedback is eliminated.
4. For room equalization, activate the pink noise generator. Use the FBQ system as a visual aid or an external analyzer to identify resonant frequencies in the room and adjust the corresponding sliders to achieve a flatter frequency response.
5. Use the low and high cut filters to clean up the signal as needed.
6. Engage the limiters and set their thresholds to prevent accidental overloads.

5. MAINTENANCE

The Behringer FBQ6200 is designed for reliable operation with minimal maintenance.

- **Cleaning:** Disconnect the unit from power before cleaning. Use a soft, dry cloth to wipe down the exterior. Avoid abrasive cleaners or solvents that could damage the finish or controls.
- **Ventilation:** Ensure that the ventilation openings are not obstructed. Proper airflow is crucial to prevent overheating, especially during extended operation.
- **Storage:** If storing the unit for an extended period, place it back in its original packaging or a protective case to prevent dust accumulation and physical damage.

6. TROUBLESHOOTING

If you encounter issues with your FBQ6200, consult the following common troubleshooting steps:

- **No Sound Output:**
 - Check all audio cable connections (inputs and outputs) to ensure they are secure and correctly routed.
 - Verify that the FBQ6200 is powered on and its input/output levels are not set to minimum.
 - Ensure the Bypass switch is not engaged if you expect processed sound.
 - Check the power and signal status of connected equipment (mixer, amplifier, speakers).
- **Distortion or Unwanted Noise:**
 - Check input and output levels. Excessive gain staging can lead to clipping and distortion. Adjust levels so meters do not consistently hit the red.
 - Ensure all cables are in good condition and properly shielded. Faulty cables can introduce noise.
 - Verify proper grounding of all audio equipment to prevent hum.
 - If experiencing persistent noise in one channel, try swapping cables or inputs to isolate the source. If the noise follows the unit, contact support.
- **Feedback Issues:**
 - Activate the FBQ Feedback Detection System. Reduce the gain on the illuminated frequency sliders until feedback is controlled.
 - Ensure microphone placement and speaker positioning are optimized to minimize feedback potential.
- **Unit Feels Hot:**
 - Ensure adequate ventilation around the unit. Do not place it in an enclosed space without proper airflow.
 - Avoid stacking other heat-generating equipment directly on top of the FBQ6200.
 - If the unit becomes excessively hot and causes operational issues, discontinue use and contact support.

7. SPECIFICATIONS

Brand

BEHRINGER

| | |
|---------------------------|--|
| Model Number | FBQ6200 |
| Item Weight | 7.9 pounds (3.58 kg) |
| Product Dimensions | 20.31 x 7.48 x 8.82 inches (51.59 x 18.99 x 22.40 cm) |
| Connector Type | XLR, 1/4" TRS, RCA |
| UPC | 639476304000, 723856367294, 403365310072, 689076810685 |
| ASIN | B0002Z82MQ |
| First Available | October 2, 2001 |

8. WARRANTY AND SUPPORT

For detailed warranty information and terms and conditions, please refer to the official Behringer website or the warranty card included with your product. In case of technical issues or for further assistance, please contact Behringer customer support through their official channels.

You can typically find support resources, FAQs, and contact information on the [Behringer official website](#).