

TURBOSOUND IQ18B

Turbosound iQ18B 18 Inch Powered Subwoofer

Model: IQ18B | Brand: TURBOSOUND

1. INTRODUCTION

The Turbosound iQ18B is an 18-inch powered subwoofer designed for professional audio applications. It features an efficient KLARK TEKNIK Class D amplifier, delivering 3000W of peak power. This subwoofer is suitable for both mobile setups and permanent installations requiring robust low-frequency performance. Its durable construction ensures reliability in demanding environments.

The iQ18B incorporates a high-excursion 18-inch driver with a double-suspension, low-mass 4-inch voice coil, providing accurate and distortion-free bass response. The integrated KLARK TEKNIK Digital Signal Processor (DSP) offers dynamic EQ and transparent limiting for optimal sound quality and system protection. Additionally, Turbosound's ULTRANET technology facilitates multi-channel audio signal transmission via CAT5 cables, reducing setup time and minimizing interference.



Figure 1: Front view of the Turbosound iQ18B Powered Subwoofer.

2. KEY FEATURES

- **Powerful Amplification:** 3000W peak power from a KLARK TEKNIK Class D amplifier.
- **High-Performance Driver:** 18-inch low-frequency driver with double-suspension, low-mass 4-inch voice coil.
- **Integrated DSP:** KLARK TEKNIK Digital Signal Processor for dynamic EQ, transparent limiting, and speaker modeling.

- **ULTRANET Connectivity:** Proprietary technology for multi-channel audio networking via CAT5 cables.
- **Robust Construction:** Rugged birch cabinet with hard-wearing, semi-matte black paint and powder-coated steel mesh grille.
- **Versatile Inputs/Outputs:** Neutrik powerCON connectors for mains power, XLR/TRS combo inputs, and XLR link outputs.
- **Remote Control:** Onboard USB port for PC remote control and firmware updates.
- **Portability:** Plated steel casters with rubber tires for easy transport.
- **Mounting Options:** 35 mm pole mount for satellite speakers.

3. SETUP

1. **Unpacking:** Carefully remove the subwoofer from its packaging. Inspect for any signs of damage during transit.
2. **Placement:** Position the subwoofer on a stable, level surface. Ensure adequate ventilation around the unit. For optimal bass response, consider placement near a wall or in a corner.
3. **Power Connection:** Connect the mains power cable to the Neutrik powerCON input on the rear panel. Plug the other end into a suitable power outlet.
4. **Audio Input:** Connect your audio source (e.g., mixer, audio interface) to the XLR/TRS combo inputs (INPUT A or INPUT B) on the rear panel.
5. **Output/Link (Optional):** If connecting additional subwoofers or satellite speakers, use the XLR link outputs (OUTPUT A or OUTPUT B).
6. **ULTRANET Connection (Optional):** For ULTRANET-enabled devices, connect a CAT5 cable to the ULTRANET port.
7. **USB Connection (Optional):** For remote control or firmware updates, connect a USB cable to the USB port and to a PC.
8. **Power On:** Ensure all connections are secure before powering on the unit.

4. CONNECTIONS

The iQ18B offers a comprehensive set of input and output options on its rear panel for flexible integration into various audio systems.



Figure 2: Rear panel showing input/output connections and controls.

- **INPUT A / INPUT B (XLR/TRS Combo):** These inputs accept balanced XLR or 1/4-inch TRS connections from your audio source.
- **OUTPUT A / OUTPUT B (XLR):** These outputs provide a linked signal from the inputs, allowing you to connect to additional subwoofers or full-range speakers.
- **POWERCON Input/Link:** Used for connecting the main AC power and linking power to other compatible devices.
- **ULTRANET:** RJ45 connectors for connecting to ULTRANET-enabled devices for digital audio networking.
- **USB:** Type B USB port for connecting to a computer for remote control via dedicated software and for firmware updates.
- **DSP Control Knob & Display:** A rotary encoder with an integrated push-button for navigating menus and adjusting DSP settings.

5. OPERATION

The iQ18B features an intuitive DSP interface for precise control over its audio characteristics.

5.1 Power On/Off

After connecting the power cable, press the power switch to turn the subwoofer on or off. The display will illuminate upon startup.

5.2 DSP Control

The rear panel features a rotary encoder and an LCD screen for accessing and adjusting the DSP settings. This allows you to:

- Adjust volume levels.
- Configure crossover frequencies.
- Apply dynamic EQ settings.
- Set transparent limiting parameters.
- Select speaker modeling presets to match with other Turbosound iQ series speakers.

Rotate the knob to navigate through menu options and press it to select. Use the 'BACK' button to return to the previous menu.

5.3 Remote Control via USB

Connect the iQ18B to a PC via the USB port to utilize dedicated software for remote control of all DSP functions and to perform firmware updates. Refer to the Turbosound website for the latest software and firmware.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the subwoofer. Avoid using abrasive cleaners or solvents.
- **Ventilation:** Ensure that the ventilation grilles on the rear panel are clear of obstructions to prevent overheating.
- **Storage:** When not in use, store the subwoofer in a dry, dust-free environment.
- **Inspection:** Periodically check all cables and connections for wear or damage.

7. TROUBLESHOOTING

- **No Power:** Check the power cable connection and ensure the power outlet is functional. Verify the power switch is in the 'ON' position.
- **No Sound:** Confirm that the audio source is active and sending a signal. Check all audio cable connections. Verify the volume levels on the subwoofer and your audio source.
- **Distorted Sound:** Reduce the input gain or master volume. Check for damaged cables. Ensure the DSP settings are appropriate for your setup.
- **Overheating:** Ensure proper ventilation around the subwoofer. Reduce prolonged high-volume operation if the unit feels excessively hot.
- **DSP Issues:** If the DSP is unresponsive, try restarting the unit. If problems persist, consider performing a factory reset via the USB connection and PC software, or consult the Turbosound support resources.

8. SPECIFICATIONS

Feature	Detail
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Model Name	IQ18B
Speaker Type	Subwoofer
LF Driver	18 Inches
Amplifier Class	Class D
Wattage (Peak)	3000W
Frequency Response	40Hz - 130Hz
Max SPL	130 dB
Inputs	2 x XLR/TRS Combo
Outputs/Thru	2 x XLR
Cabinet Material	Birch
Product Dimensions	22"D x 21"W x 27.2"H
Item Weight	87.5 lb (39.7 kg)
Power Source	Corded Electric
Control Method	App (via USB)
Mounting Type	Pole Mount (35 mm)
UPC	748252144140

8.1 Dimensions



Figure 3: Turbosound iQ18B dimensions.

9. WARRANTY AND SUPPORT

The Turbosound iQ18B comes with a limited warranty. For detailed warranty information, product registration, and technical support, please visit the official TURBOSOUND website or contact their customer service. Keep your purchase receipt as proof of purchase for warranty claims.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question

and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question