

TURBOSOUND iQ15

TURBOSOUND iQ15 Powered Speaker Instruction Manual

Model: iQ15

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1. OVERVIEW

The TURBOSOUND iQ15 is a 2,500-Watt powered two-way loudspeaker designed for a wide range of portable and fixed sound reinforcement applications, including music and speech. It features a 15-inch low frequency driver and a 1-inch high-temperature compression driver for comprehensive sound reproduction.

Equipped with a highly efficient Klark Teknik Class-D power amplifier, the iQ15 delivers substantial output power. Its sophisticated Klark Teknik Digital Signal Processor (DSP) provides dynamic EQ, transparent limiting, and advanced speaker modeling presets, allowing for optimized performance across various environments. The Spatial Contour Control (SCC) DSP function further enhances sound optimization based on physical speaker placement.

Key Features:

- 2-way full range loudspeaker for portable PA and installation applications.
- 2,500 Watt power featuring Klark Teknik Class-D technology.
- Klark Teknik Digital Signal Processing for total system control.
- Speaker modeling includes accurate models of industry standard speakers.
- Power Cable included.





Figure 1: Front view of the TURBOSOUND iQ15 powered speaker, showcasing its robust grille and compact design.

2. IMPORTANT SAFETY INSTRUCTIONS

Please read and follow all safety instructions carefully to prevent electric shock, fire, or injury. Keep these instructions for future reference.

- **Power Source:** Connect the unit only to a power supply of the type described in the operating instructions or marked on the appliance. Ensure the power cable is not damaged or pinched.
- **Ventilation:** Do not block any ventilation openings. Install in accordance with the manufacturer's instructions. Maintain adequate space around the unit for proper airflow.
- **Water and Moisture:** Do not use this apparatus near water or expose it to dripping or splashing. Do not place objects filled with liquids, such as vases, on the apparatus.
- **Heat:** Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- **Grounding:** 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.
- **Cleaning:** Clean only with a dry cloth.
- **Servicing:** 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.
- **Accessories:** Only use attachments/accessories specified by the manufacturer.
- **Transport:** Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

3. SETUP AND CONNECTIONS

This section guides you through the initial setup and connection of your iQ15 powered speaker.

3.1 Unboxing and Inspection

Carefully remove the iQ15 from its packaging. Inspect the unit for any signs of damage that may have occurred during transit. Retain the original packaging for future transport or storage.

3.2 Speaker Placement

The iQ15 can be placed on a stand, floor, wall, or ceiling. For optimal sound, consider the acoustics of your environment. The Klark Teknik Spatial Contour Control (SCC) DSP function allows you to optimize the speaker's frequency response based on its physical placement. Adjust this setting via the DSP controls to compensate for different mounting scenarios.

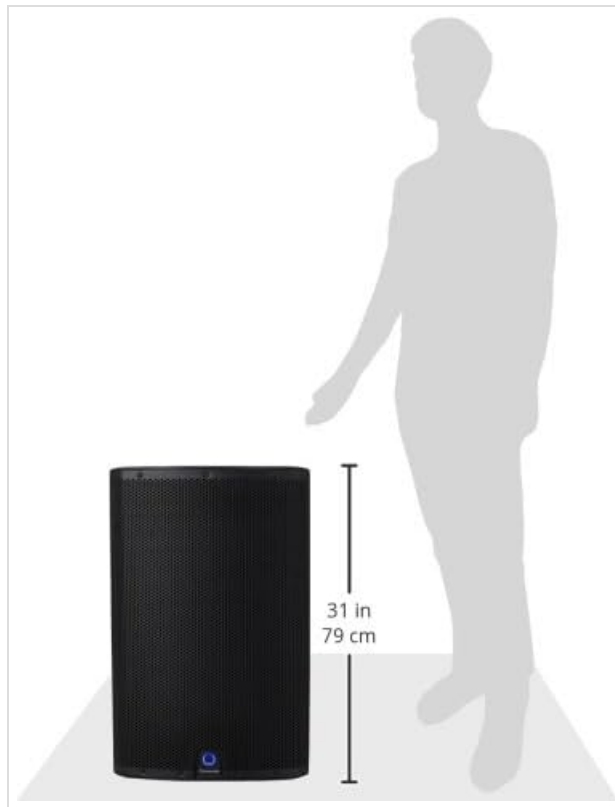


Figure 2: Dimensions of the iQ15 speaker, illustrating its size relative to a person. The speaker measures approximately 28 inches (71 cm) in height.

3.3 Connections

All connections are located on the rear panel of the iQ15. Ensure the speaker is powered off before making any connections.





Figure 3: Rear panel of the iQ15, displaying the various input/output ports, power connection, and DSP control interface.

- **Power Input:** Connect the included power cable to the AC input on the rear panel and then to a suitable power outlet.
- **Audio Inputs (XLR):** Use balanced XLR cables to connect your audio source (mixer, microphone, etc.) to the INPUT A or INPUT B XLR jacks.
- **Audio Outputs (XLR):** The LINK OUTPUT A and LINK OUTPUT B XLR jacks allow you to send the audio signal to other iQ series speakers or other audio devices.
- **USB Port:** For firmware updates and remote control via computer software (refer to separate software manual for details).
- **ULTRANET Input/Output:** For digital audio networking with compatible Behringer and Midas products.

4. OPERATION

This section covers the basic operation and advanced features of your iQ15 powered speaker.

4.1 Powering On/Off

1. Ensure all audio connections are secure.

2. Turn down the MASTER GAIN control on the iQ15 to its minimum setting.
3. Connect the power cable to a power outlet.
4. Flip the POWER switch on the rear panel to the ON position.
5. Slowly increase the MASTER GAIN to the desired listening level.
6. To power off, reverse the process: turn down MASTER GAIN, then flip the POWER switch to OFF.

4.2 Klark Teknik DSP Control

The iQ15 features a powerful Klark Teknik DSP that allows for precise control over the speaker's performance. The LCD display and rotary encoder/buttons on the rear panel provide access to various settings.

- **Dynamic EQ:** Automatically adjusts the frequency response for optimal sound quality, even at low volume levels.
- **Transparent Limiting:** Protects the speaker from overload while maintaining clarity at high output levels.
- **Speaker Modelling:** Access presets that emulate the sound characteristics of various industry-standard loudspeakers. Navigate through the DSP menu to select the desired model.
- **Spatial Contour Control (SCC):** Adjusts the speaker's frequency response to compensate for its physical placement (e.g., stand, floor, wall, ceiling). This helps to maintain a balanced sound profile regardless of mounting.
- **User Presets:** Save your customized DSP settings as user presets for quick recall.

Refer to the detailed DSP menu guide (often available as a separate document or within the speaker's on-screen menu) for comprehensive instructions on navigating and adjusting all DSP parameters.

5. MAINTENANCE AND CARE

Proper care and maintenance will ensure the longevity and optimal performance of your iQ15 speaker.

5.1 Cleaning

- Always disconnect the speaker from the power supply before cleaning.
- Use a soft, dry cloth to wipe down the exterior surfaces.
- For stubborn dirt, a slightly damp cloth can be used, but ensure no moisture enters the speaker grille or control panel.
- Do not use abrasive cleaners, solvents, or waxes, as these can damage the finish.

5.2 Storage

When not in use for extended periods, store the iQ15 in a cool, dry place, away from direct sunlight and extreme temperatures. If possible, use the original packaging or a protective cover to prevent dust accumulation and physical damage.

6. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your iQ15 speaker. If the problem persists, contact qualified service personnel.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
No sound output	<ul style="list-style-type: none">Power cable disconnected or no power to outlet.Input signal cable disconnected or faulty.Master gain or source volume too low.DSP settings muted or incorrect.	<ul style="list-style-type: none">Check power connection and outlet.Verify input cable connections and try a different cable.Increase master gain on speaker and volume on source device.Check DSP menu for mute settings or incorrect input selection.
Distorted sound	<ul style="list-style-type: none">Input signal too high (clipping).Speaker volume too high.Faulty cable.	<ul style="list-style-type: none">Reduce input level from source device.Decrease master gain on the speaker.Try a different audio cable.
Speaker not powering on	<ul style="list-style-type: none">Power cable not connected or faulty.Power outlet not working.Internal fuse blown.	<ul style="list-style-type: none">Ensure power cable is securely connected.Test the power outlet with another device.Contact service personnel if fuse is suspected.

7. TECHNICAL SPECIFICATIONS

Below are the key technical specifications for the TURBOSOUND iQ15 Powered Speaker.

Model Name	IQ15
Speaker Type	Coaxial, 2-way full range
Speaker Maximum Output Power	2,500 Watts (Peak)
Woofer Diameter	15 Inches
Product Dimensions (D x W x H)	15"D x 17.7"W x 28"H (approx. 38.1cm D x 44.9cm W x 71.1cm H)
Item Weight	23.1 pounds (approx. 10.5 kg)
Connectivity Technology	XLR (Input/Output), USB, ULTRANET
Included Components	Power Cable
Control Method	DSP via LCD and rotary encoder
Power Source	Corded Electric

8. WARRANTY AND SUPPORT

TURBOSOUND products are manufactured to the highest standards and come with a limited warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official TURBOSOUND website.

For technical support, service, or spare parts, please contact your authorized TURBOSOUND dealer or visit the support section of the TURBOSOUND website. When contacting support, please have your product model number (IQ15) and serial number ready.

Manufacturer: Turbosound

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Question

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Details

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

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