



iNSPIRE iP300

600 Watt Powered Column Loudspeaker with 2 x 6.5" Woofers, 4 Neodymium Drivers, KLARK TEKNIK Spatial Sound Technology, Reverb, Digital Mixer, Remote Control via iPhone/iPad and Bluetooth Audio Streaming

EN

EN Important Safety Instructions

ES



Terminals marked with this symbol carry electrical current of sufficient magnitude to constitute risk of electric shock.

Use only high-quality professional speaker cables with ¼" TS or twist-locking plugs pre-installed. All other installation or modification should be performed only by qualified personnel.



This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure - voltage that may be sufficient to constitute a risk of shock.



This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Please read the manual.

**Caution**

To reduce the risk of electric shock, do not remove the top cover (or the rear section). No user serviceable parts inside. Refer servicing to qualified personnel.

**Caution**

To reduce the risk of fire or electric shock, do not expose this appliance to rain and moisture. The apparatus shall not be exposed to dripping or splashing liquids and no objects filled with liquids, such as vases, shall be placed on the apparatus.

**Caution**

These service instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operation instructions. Repairs have to be performed by qualified service personnel.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9. 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.

10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11. Use only attachments/accessories specified by the manufacturer.



12. 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.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.

14. 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.

15. The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection.

16. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.



17. Correct disposal of this product: This symbol indicates that this product must not be disposed of with household waste, according to the WEEE Directive (2012/19/EU) and your national law. This product should be taken

to a collection center licensed for the recycling of waste electrical and electronic equipment (EEE). The mishandling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the efficient use of natural resources. For more information about where you can take your waste equipment for recycling, please contact your local city office, or your household waste collection service.

18. Do not install in a confined space, such as a book case or similar unit.

19. Do not place naked flame sources, such as lighted candles, on the apparatus.

20. Please keep the environmental aspects of battery disposal in mind. Batteries must be disposed-of at a battery collection point.

21. Use this apparatus in tropical and/or moderate climates.

LEGAL DISCLAIMER

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LIMITED WARRANTY

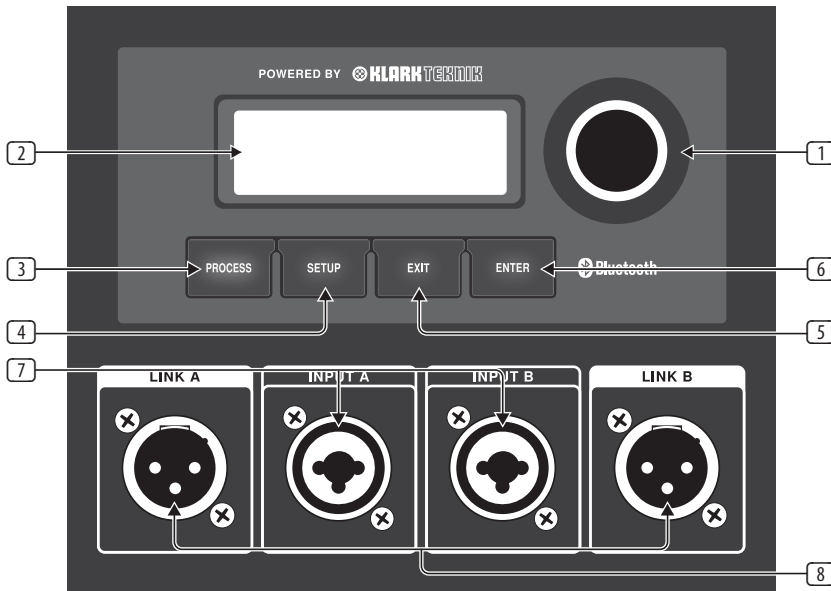
For the applicable warranty terms and conditions and additional information regarding MUSIC Tribe's Limited Warranty, please see complete details online at musictri.be/warranty.

Thank you for choosing a TURBOSOUND loudspeaker product for your application. If you would like further information about this or any other TURBOSOUND product, please visit our website at turbosound.com.

Unpacking the Loudspeaker




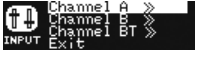
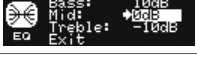




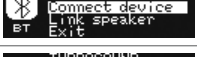
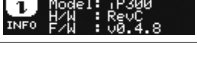
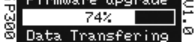
After unpacking the unit please check carefully for damage. If damage is found, please notify your supplier at once. You, the consignee, must instigate any claim. Please retain all packaging in case of future re-shipment.

Controls



- 1 **ENCODER KNOB** toggles between Graphic and Edit modes (when pressed) and changes parameter values (when rotated).
- 2 **LCD SCREEN** displays the current DSP module and parameter settings.
- 3 **PROCESS** button accesses the DSP signal processing menu.
- 4 **SETUP** accesses the setup features menu.
- 5 **EXIT** button saves changes and returns to the previous menu screen.
- 6 **ENTER** button selects sub-menu or confirms parameter changes.
- 7 **INPUT A/INPUT B** combo jacks accept input signals using XLR, balanced ¼" TRS or unbalanced ¼" TS connectors.
- 8 **LINK A/LINK B XLR** connectors provide un-processed copies of the INPUT A or INPUT B signals.

EN iP300 DSP Menu Structure

Menu	Sub-Menu	Fullrange	Function
		Main Screen	Displays level indicators and model name. Displays the following Bluetooth* status information: <ul style="list-style-type: none"> Bluetooth symbol indicates connection to audio and/or remote control device (iPhone*, etc.). "•" indicates that the remote control APP connected. "•" indicates audio streaming is connected. "M" or "S" indicates that the speaker is linked to another iP speaker as MASTER (left channel, "M") or SLAVE (right channel, "S"). Rotate the encoder knob to adjust the output volume. Press the encoder knob enter the last used sub-menu. Press the Process and Setup buttons to access sub-menus.
		Volume	Rotate the encoder to change the output volume.
		INPUT	Sets input mixer level EQ and reverb for analogue input A and B, as well as level for Bluetooth.
		EQ (Equalisation)	Allows adjustment of three band equaliser with controls for bass, midrange and treble.
		MODE	Selects from 4 preset equalisations, depending on function and music type.
		POSIT (Position)	Selects DSP compensation depending on the speaker position: stand, wall, corner.
			
		SETUP	Sets LCD back panel contrast, device lock and factory reset.
		BT (Bluetooth)	Lets you pair the speaker with mobile Bluetooth devices and link to another iP speaker as MASTER / SLAVE.
		INFO	Displays model and firmware information.
		DFU	Indicates device is updating firmware from APP software via Bluetooth.

*iPhone is a trademark of Apple Inc. The Bluetooth word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks is under license.

iP Series Analogue Connection

Despite their sophistication, iP speakers offer straightforward analogue connectivity, and you can easily arrange the iP system to allow simple control of levels from other devices, such as mixers. You can also daisy-chain multiple iP speakers using only the analogue connections, and then directly control the overall level from your mixer's master fader.

For example, you have four iP speakers and a mixer with simple left-right stereo outputs. For typical operation, set the DSP volume and input gain settings on all speakers to a flat "0 dB" setting. Connect the mixer's left and right stereo outputs to the first two speakers' analogue INPUT A connections (the left and right mixer outputs will go to separate speakers). Then, run cables from the OUTPUT analogue connections to the remaining two speakers. In a similar way, subwoofers can also be linked to the analogue OUTPUT.

iP Series Bluetooth Instructions

Bluetooth Connection

To stream audio from a Bluetooth-enabled device, you will need at least one iP speaker and an iPad*/iPhone/Android*/Windows* device with basic Bluetooth connectivity.

With a streaming-only Bluetooth connection, all related iP DSP functions must still be controlled directly from the iP rear panel via the rotary encoder.

For Apple* iOS devices, you can also download a dedicated TURBOSOUND iP Bluetooth app from the App Store. This iP Bluetooth app allows you to control a single or stereo pair of iP speakers, including all DSP functions, remotely from your iOS device (see "Bluetooth Control" below for more information).

Bluetooth Streaming

To stream Bluetooth audio with any Bluetooth device (iPad/iPhone/Android/Windows, etc.)

Mono operation

1. Enable Bluetooth on your remote device.
2. Switch on your iP speaker and minimize the volume.
3. Select "Pair device" from the iP speaker's Bluetooth menu.
4. Check that your remote device is searching for a connection.
5. Once your device detects the iP speaker, select the iP speaker from your remote device's menu (e.g., "TURBOSOUND iP300").
6. Wait until the remote device shows an active connection, and then check the speaker's Bluetooth menu, which should display the name of the remote device (e.g., "HUAWEI P7-L07").
7. Bluetooth music can now be streamed to your iP speaker. The stereo signal will automatically mix down to mono.
8. The iP speaker will display the Bluetooth indicator on the main, top-level DSP screen.

Stereo operation

1. Complete the steps above to connect the first speaker to Bluetooth audio.
2. The first connected speaker automatically becomes the MASTER speaker.
3. Switch on the second speaker, which becomes the SLAVE speaker.
4. Select "Link speaker" from the SLAVE speaker's Bluetooth menu.
5. The SLAVE speaker will display "Slave linking..."
6. Select "Link speaker" from the MASTER speaker's Bluetooth menu.
7. The MASTER speaker will display "Master Linking..."
8. WAIT for the speakers to link.
9. Once the linking process is complete, Bluetooth audio will stream to the two speakers. The MASTER speaker will receive the left channel, and the SLAVE speaker will receive the right channel.
10. MASTER and SLAVE connection will be indicated on the main, top-level DSP screens.

*iPad and Apple are trademarks of Apple Inc. Android is a trademark of Google Inc. Windows is either a registered trademark or trademark of Microsoft Corporation in the United States and/or other countries.

EN Bluetooth Control

A dedicated iOS control app for TURBOSOUND Bluetooth speakers can be downloaded from the Apple Store.

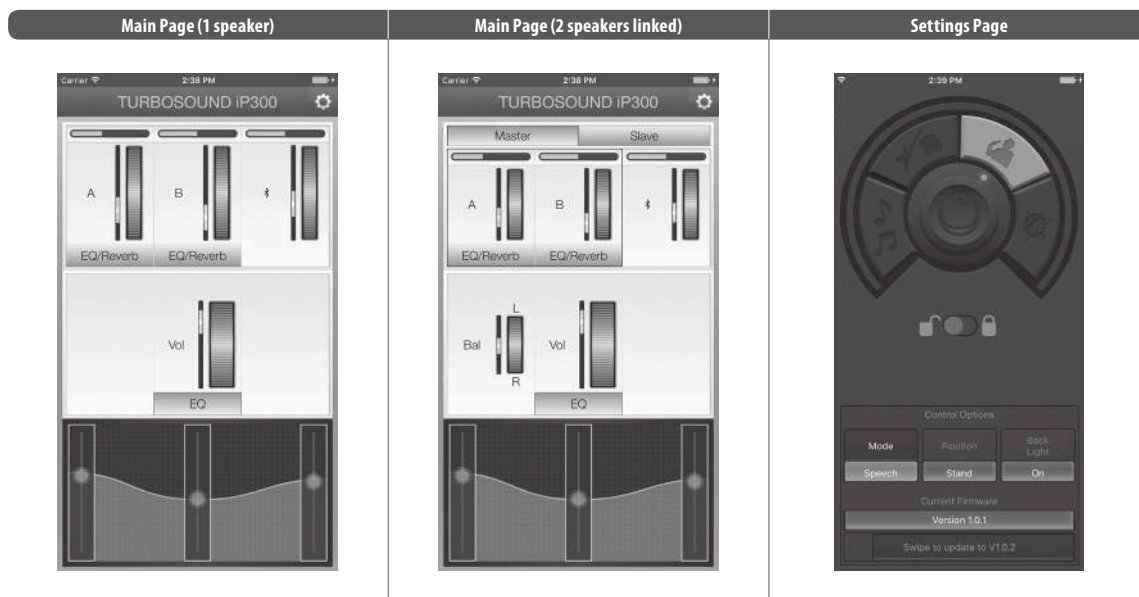
This iOS control app can be used with Bluetooth pairing, or without pairing if only analogue inputs are used.

Operation with Bluetooth Pairing

- In both mono and stereo mode, first pair the MASTER speaker, and then launch the iOS control app.
- The iOS control app will automatically detect and adapt for mono or stereo mode.
- To alter the speaker settings, swipe the screen or press the settings icon. All iP speaker settings can be accessed from the iOS control app.

Operation without Bluetooth Pairing (Analogue Input Only)

- Power on the first (usually left-hand) speaker – this speaker will become the MASTER speaker.
- Start the control app on the IOS device.
- Check that the app is connected and functioning with the single MASTER speaker.
- Power up the second speaker – this speaker becomes the SLAVE speaker.
- Select "Link speaker" from the speaker Bluetooth menu in "Master" and "Slave" speaker to link each other.
- Check that the app's Main Page shows both MASTER and SLAVE input and balance control.



DFU Firmware Update

Where possible please update your iP300 firmware using the iOS app.

To update, go to the Settings screen in the app and look for the "CURRENT FIRMWARE" section. This section of the Settings screen will show the current firmware version. If a firmware update is needed, the screen will display this option:



- Swipe the update slider toward the right to initiate the firmware update. The update may take several minutes.
- Update progress will be displayed on the app and the iP300 speaker's DSP screen.

Firmware Update Fallback Procedure

In the event you are unable to update the firmware using the iOS or Android app, you may also carry out the update using this fallback procedure:

1. Download the .dfu file with the new firmware version to your smartphone.
2. Force your iP300 speaker into DFU update mode by following these steps:
 - a. Power off the speaker.
 - b. Hold the ENCODER KNOB.
 - c. Power on the speaker.
 - d. Please select the option "Firmware upgrade" then press the ENCODER KNOB.
 - e. When you are successful, the DSP screen will show the system is ready for the firmware upgrade.
3. On your smartphone, select and hold the .dfu file until the smartphone offers options for file transfer.
4. Select your smartphone's function for sharing via Bluetooth.
5. Select the iP300 speaker for Bluetooth sharing (e.g., "HUAWEI P7-L07").
6. When the download begins, the DSP screen will show the download progress.
7. When the download is complete, the speaker will auto-restart and boot the new firmware.

IMPORTANT NOTE: The mounting of a permanently installed sound system may be dangerous unless undertaken by qualified personnel with the required experience and certification to perform the necessary tasks. Walls, floors or ceilings must be capable of safely and securely supporting the actual load. The mounting accessory used must be safely and securely fixed both to the loudspeaker and to the wall, floor or ceiling.

When mounting rigging components on walls, floors or ceilings, ensure that all fixings and fasteners used are of an appropriate size and load rating. Wall and ceiling claddings, and the construction and composition of walls and ceilings, all need to be taken into account when determining whether a particular fixing arrangement can be safely employed for a particular load. Cavity plugs or other specialist fixings, if required, must be of an appropriate type, and must be fitted and used in accordance with the maker's instructions.

The operation of your speaker cabinet as part of a flown system, if installed incorrectly and improperly, can potentially expose persons to serious health risks and even death. In addition, please ensure that electrical, mechanical and acoustic considerations are discussed with qualified and certified (by local state or national authorities) personnel prior to any installation or flying.

Make sure that speaker cabinets are set up and flown by qualified and certified personnel only, using dedicated equipment and original parts and components delivered with the unit. If any parts or components are missing please contact your Dealer before attempting to set up the system.

Be sure to observe the local, state and other safety regulations applicable in your country. MUSIC Group, including the MUSIC Group companies listed on the enclosed "Service Information Sheet", assumes no liability for any damage or personal injury resulting from improper use, installation or operation of the product.

Regular checks must be conducted by qualified personnel to ensure that the system remains in a secure and stable condition. Make sure that, where the speaker is flown, the area underneath the speaker is free of human traffic. Do not fly the speaker in areas that can be entered or used by members of the public.

Speakers create a magnetic field, even if not in operation. Therefore, please keep all materials that can be affected by such fields (discs, computers, monitors, etc.) at a safe distance. A safe distance is usually between 1 and 2 metres.

EN Technical Specifications

System	
Frequency response	50 Hz – 20 kHz \pm 3 dB 40 Hz – 20 kHz -10 dB
Nominal dispersion	120° H @ -6 dB points
Maximum SPL	122 dB
Crossover type	2 way, active
Transducers	2 x 6.5" (167 mm) LF driver 4 x 2" (54.2 mm) HF drivers
Limiter	Independent high, mid and low frequency
Amplifier	
Maximum output power*	600 W
Type	LF: Class-D HF: Class AB
Protection	Short circuit, open circuit, thermal
Amplifier channels	2
Connectors	
Input A / B	2 x combo jack / XLR
Sensitivity	4 dBu, nominal
Input impedance	16 k Ω unbalanced, 32 k Ω balanced
Maximum input level	+22 dBu
Link output	XLR
Mains supply	IEC mains connector with integrated power switch
Controls	
Hardware	Rotary push-encoder
Software	iOS/Android interface via Bluetooth
DSP	
Factory EQ presets	Positioning, sound mode
Display	LCD 128 x 32, blue, backlit
Level	Main
Equalisation	Bass, middle and treble
Protection	Lock-out function for all settings
Input Mixer	
Equalisation	Bass and treble
Reverb	KLARK TEKNIK design
Bluetooth Wireless Technology	
Frequency range	2402 MHz ~ 2480 MHz
Channel number	79
Version	Bluetooth 4.1 dual mode
Output	8 dBm
Compatibility	Supports GATT/A2DP 1.2 profile
Maximum communication range	30 m typical
Connectivity	Master-slave: stereo pairing link
Power Supply	
Power consumption	80 W @ 1/8 max power
Voltage (fuses)	
USA / Canada / Japan	100-120 V~, 50/60 Hz (T 6.3 A H 250 V)
UK / Australia / Europe	220-240 V~, 50/60 Hz (T 3.15 A H 250 V)
Korea / China	220-240 V~, 50/60 Hz (T 3.15 A H 250 V)
Enclosure	
Dimensions (H x W x D)	713 x 208 x 216 mm (28.1 x 8.2 x 8.5")
Net weight	11.9 kg (26.2 lbs)
Construction	Engineering plastic (GXPP)
Finish	Semi matt black paint
Grille	Powder coated perforated steel
Accessories	
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*independent of limiters and driver protection circuits

Other important information

EN Important information

- 1. Register online.** Please register your new MUSIC Tribe equipment right after you purchase it by visiting turbosound.com. Registering your purchase using our simple online form helps us to process your repair claims more quickly and efficiently. Also, read the terms and conditions of our warranty, if applicable.
- 2. Malfunction.** Should your MUSIC Tribe Authorized Reseller not be located in your vicinity, you may contact the MUSIC Tribe Authorized Fulfiller for your country listed under "Support" at turbosound.com. Should your country not be listed, please check if your problem can be dealt with by our "Online Support" which may also be found under "Support" at turbosound.com. Alternatively, please submit an online warranty claim at turbosound.com BEFORE returning the product.
- 3. Power Connections.** Before plugging the unit into a power socket, please make sure you are using the correct mains voltage for your particular model. Faulty fuses must be replaced with fuses of the same type and rating without exception.

