



## Turbosound 1,000 Watt Powered Column Loudspeaker User Manual

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iNSPIRE

iP1000

1,000 Watt Powered Column Loudspeaker with a  
Dual 8" Subwoofer, 9 Neodymium Drivers,  
KLARK TEKNIK Spatial Sound Technology,  
Digital Mixer, Reverb, Remote Control via

## iPhone/iPad and Bluetooth Audio Streaming

- Modular column loudspeaker for portable PA applications and high-quality music playback
- KLARK TEKNIK's revolutionary SST (Spatial Sound Technology) for creating 3D acoustic environments
- Extremely wide sound dispersion provides consistent sound to the audience and performers
- 1,000 Watt power, multi-channel KLARK TEKNIK Class-D technology
- 3 channel digital mixer with gain setting recall
- Studio-grade stereo reverb adds a finishing touch to your sound
- Comprehensive remote control via Apple iPhone/iPad\*
- High-quality Bluetooth\* stereo audio streaming
- DSP presets for application type and speaker positioning
- Intuitive single rotary control user interface with LCD display for ease of navigation
- 2 x 8" high excursion low-frequency drivers for low distortion sub-bass response
- 8 x 2.75" neodymium drivers for clean midrange and high-frequency reproduction
- Horn-loaded super-tweeter extends the high-frequency range and throw
- Precision-lock, aluminum array the system eliminates speaker stands and cables

Although we refer to it as a "column" loudspeaker, the INSPIRE iP1000 delivers the powerful, high-quality sound and optimized dispersion inspired by our award-winning line array products – in a surprisingly lightweight and easy to use, all-in-one form factor. Thanks to an on-board 3-channel digital mixer and multichannel 1,000-Watt Class-D amplifier driving a custom-engineered dual 8" subwoofer, 8 x 2.75" neodymium drivers, and a horn-loaded super tweeter, the iP1000 is ideally suited for small to medium-sized performance venues, houses of worship, boardroom presentations, nightclubs, and much more.



The iP1000 is lightweight: only 24.8 kg (54.7 lbs) and features industry-leading KLARK TEKNIK Digital Sound Processing (DSP), studio-grade stereo reverb, Class-D amplifier, and Spatial Sound technologies – plus convenient Bluetooth stereo audio streaming and iPhone/iPad remote control.

### **INSPIRE**

#### **iP1000**

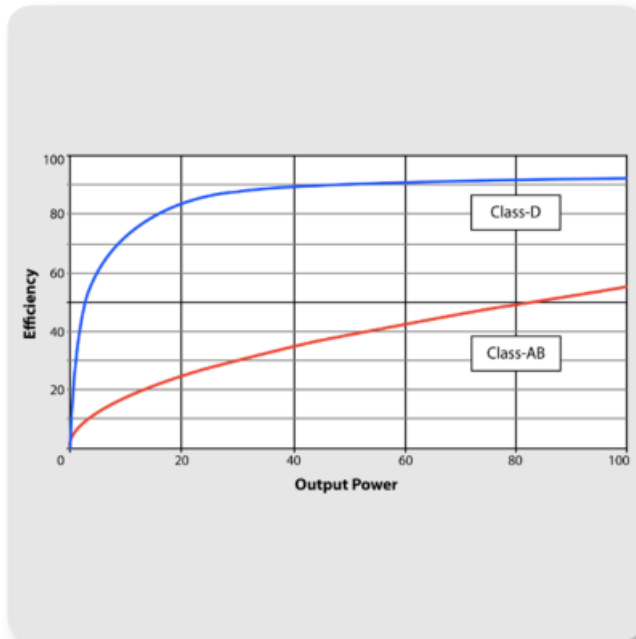
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- Roadworthy birch plywood enclosure with hard wearing semi matt black paint finish

- Rugged powder-coated perforated steel mesh grille
- Integral ergonomic carrying handles for ease of portability
- 10-Year Warranty Program\*
- Designed and engineered in the U.K.

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### **Tiny PA – 1,000 Watts of Perfect Sound**



Designed for maximum portability, iP1000's column fits neatly into the shoulder bag (available separately), and setup is fast and easy; just attach the column to the base and connect your mic, or mixer feed, and power. Three channels of our revolutionary Class-D amplifier technology provide 1,000 Watts of incredible sonic performance in an easy-to-use, ultra-portable, and lightweight package. This amazing technology makes it possible to design and build extremely powerful products that are significantly lighter in weight than their traditional counterparts while using less energy and protecting the environment. The lightweight Switch Mode Power Supply, coupled with an industry-leading DSP module, provides dynamic equalization and sophisticated limiting functions to ensure optimal performance and long-term reliability. The powerful iP1000 fills the room with the world-famous TURBOSOUND "sound" that has won the coveted Queen's Award – an unprecedented three times.

### **Portable iNSPIRE iP1000**

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## Outstanding Sound Dispersion



Much like the huge line array systems you've experienced at concerts and outdoor festivals (we make those too), the 2.75" neodymium midrange / extended high-frequency drivers in the iP1000 columns are strategically placed to provide up to a 120° horizontal dispersion pattern. Such wide coverage eliminates the need for monitor wedges for the performers and creates a more even, sonically balanced soundscape that covers the entire room. By taking advantage of the arrival-time differential between sound waves reaching the left and right ears, iP1000's groundbreaking Spatial Sound Technology (SST) creates a wide, well-defined virtual 3-D acoustic environment, enveloping the listener in a rich and more realistic experience. No matter where you sit, the location of the onstage voices and instruments are perceived in their rightful position within the soundscape, for a performance that is beautifully open and transparent – with unparalleled intelligibility.

## KLARK TEKNIK – Inspired Technology



KLARK TEKNIK is recognized worldwide as one of the most prestigious British audio companies, with a 40-year pedigree and even a TEC Lifetime Achievement Award to back it up. The Company has designed and manufactured products for world-class artists, and their legendary DN780 reverb processor is considered by leading audio engineers around the world as the industry standard. Check out their website to learn more about KLARK TEKNIK's legendary heritage.

TURBOSOUND is proud to incorporate custom-engineered KLARK TEKNIK Class-D amplifier and DSP technologies into their products.

### DSP – the Secret to Superb Sound



From the instant your signal enters the iP1000, the built-in DSP takes over ensuring the highest possible signal integrity. Much more than just selective EQ enhancement, the 24-bit processor analyses the incoming signal and intelligently applies specific filters to actually improve the sound quality. It's like having an audio engineer monitoring the input and output signals, dialing in the perfect EQ, and constantly making subtle adjustments to the crossover, compressor/limiter, three discrete amplifier channels, and more – all of which adds up to the significantly better sound.

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### **Custom-Engineered Drivers**

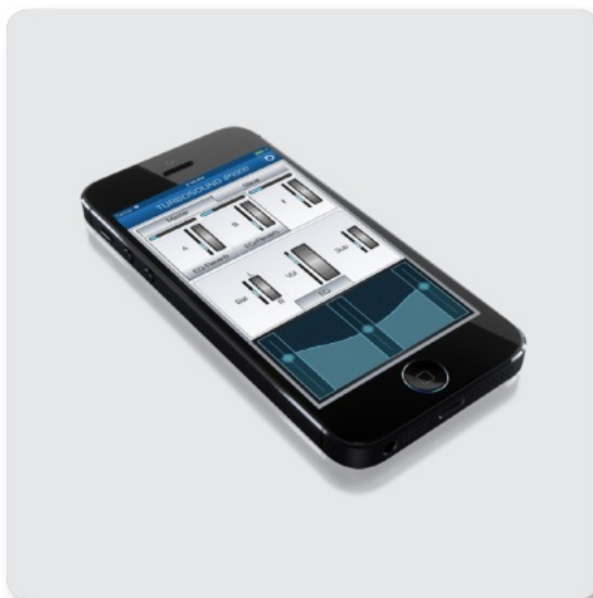


Our speakers are designed specifically for each application – it's what sets us apart from the competition. When you buy a TURBOSOUND speaker system, you can rest assured that the speakers inside have been engineered to perform flawlessly in conjunction with every other element for truly professional results.

### **Built-in Digital Mixer – Comprehensive Remote Control**

The iP1000 features a fully addressable onboard digital mixer with two combo jack/XLR connectors that accept balanced and unbalanced connections for dynamic mics and line-level instruments. The simple and intuitive user interface consists of a single rotary push-encoder with Process, Setup, Exit, and Enter function buttons. A beautifully backlit LCD display controls DSP functions including mixer parameters, 3 band EQ, and presets. All settings can be controlled locally, or via free downloadable iPhone/iPad apps – and locked down to prevent unauthorized access.

We take Bluetooth a step further, giving you total control of the iP1000 directly from your iPhone or iPad. This amazing feature lets you adjust all settings from either the listening area or the stage, for the perfect sound every time. The dedicated apps are available free of charge at [turbosound.com](http://turbosound.com), or from the Apple App Store.



### **Sweet Sound of Reverb**



If your iP1000 is used mainly for speeches and presentations, you may not need it – but if you plan to perform on a musical instrument or sing, you will probably want to add some effects. So, we have included a great-sounding digital Reverb processor to help sweeten your sound. This easy-to-use, studio-grade vocal effect provides the perfect finishing touch, giving your performance a dash of professional polish.

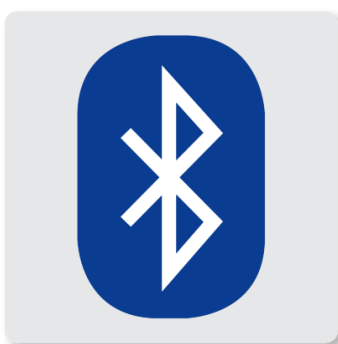


**Portable**  
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**Bluetooth Ready**

The days of tape decks, CD, and even mp3 players are long gone. Now your music lives on your smartphone or computer tablet, so you can stop searching for those outdated cables and fancy adapters. An industry first, the iP1000 puts all your music at your fingertips via stereo Bluetooth. Now with a simple wave of your hand, you can stream music from any Bluetooth-equipped iOS device, such as your iPad, iPod touch, iPhone – or even your laptop computer.



**Stunning Performance – Superb Value**

The iNSPIRE iP1000 active PA loudspeaker stands head and shoulders above the rest of the pack and delivers exceptional performance, even when pushed to the limit. Ultra-lightweight and powerful with custom-designed transducers, an integrated mixer, stereo Bluetooth streaming, iPhone/iPad remote control, 1,000 Watts of Class-D output power, and Digital Sound Processing, the iP1000 is ideal for both portable and installed applications – at a price unheard of in this class. Experience the iP1000 at your local dealer today, or get yours online today – and let TURBOSOUND take your performance to the next level!



### **You Are Covered**

We always strive to provide the best possible Customer Experience. Our products are made in our own MUSIC Tribe factory using state-of-the-art automation, enhanced production workflows, and quality assurance labs with the most sophisticated test equipment available in the world. As a result, we have one of the lowest product failure rates in the industry, and we confidently back it up with a generous Warranty program.



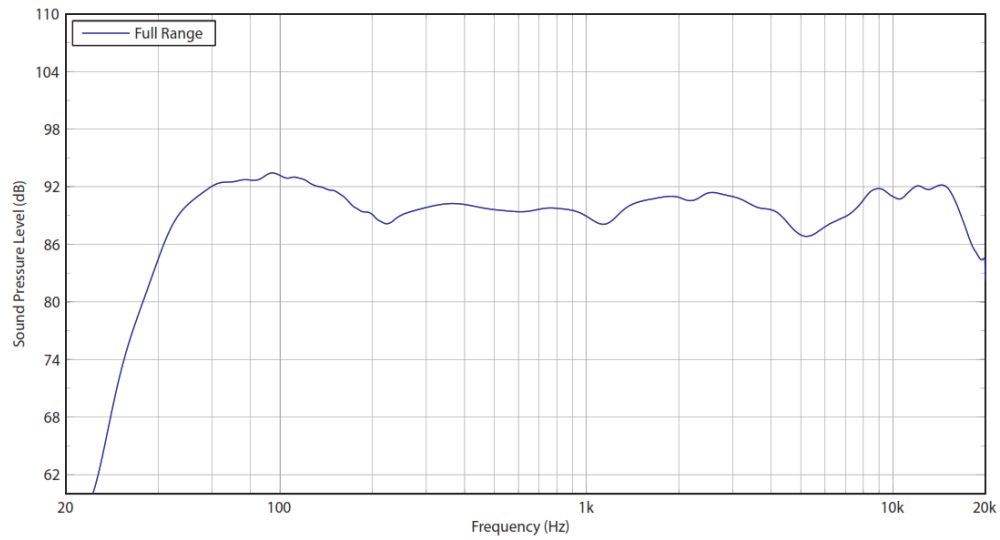
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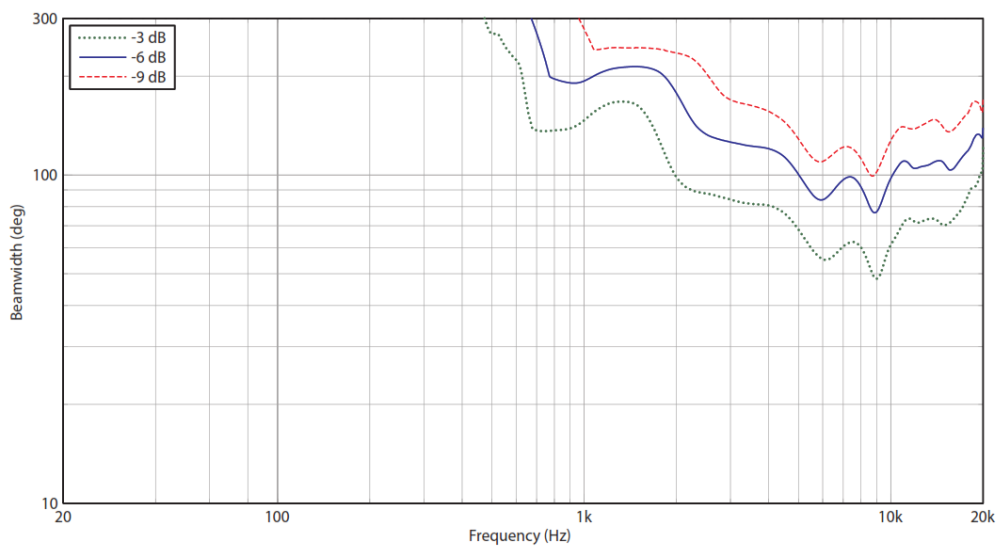
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## Frequency Response Sensitivity 1 W / 1 m



## Horizontal Beamwidth

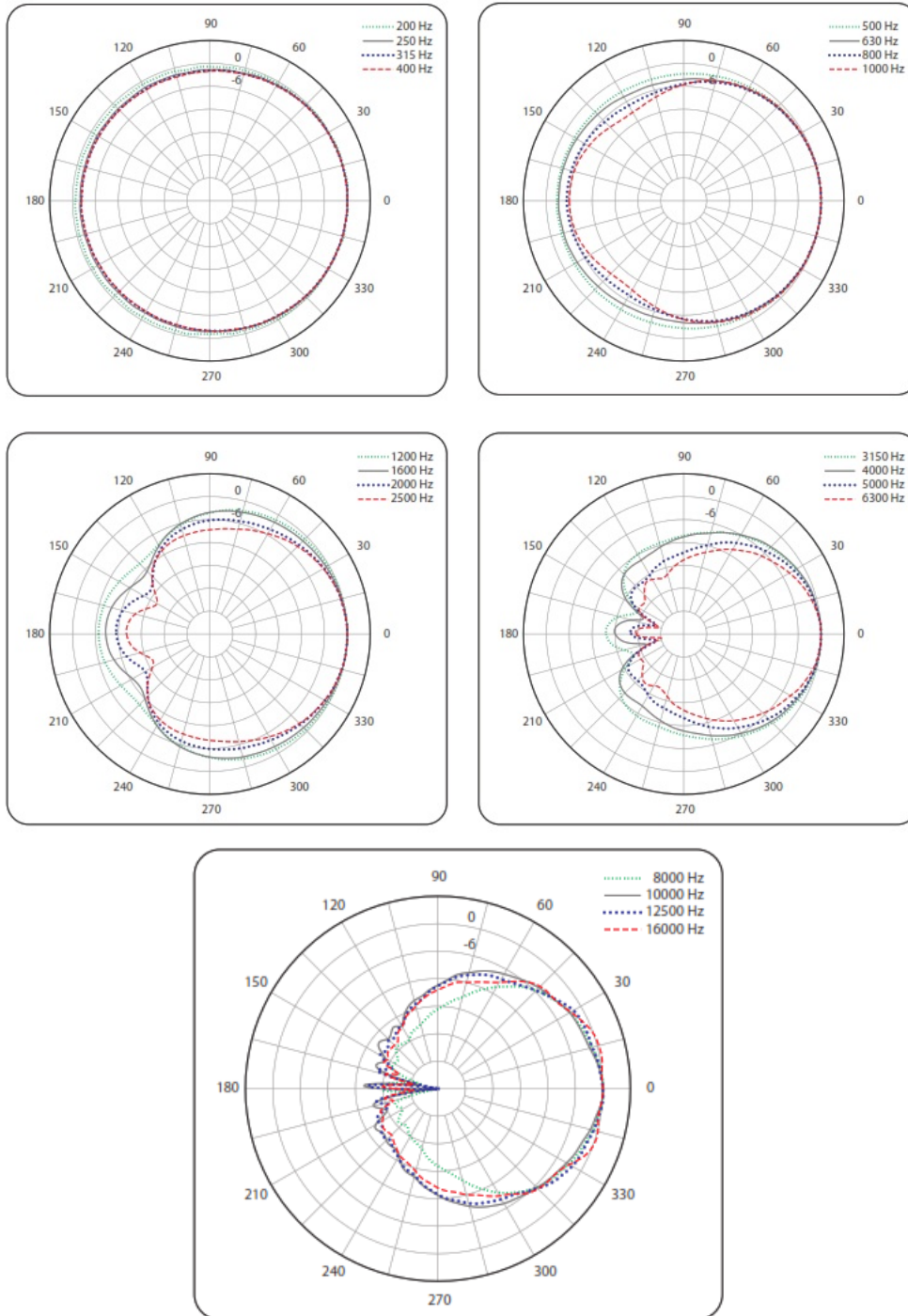


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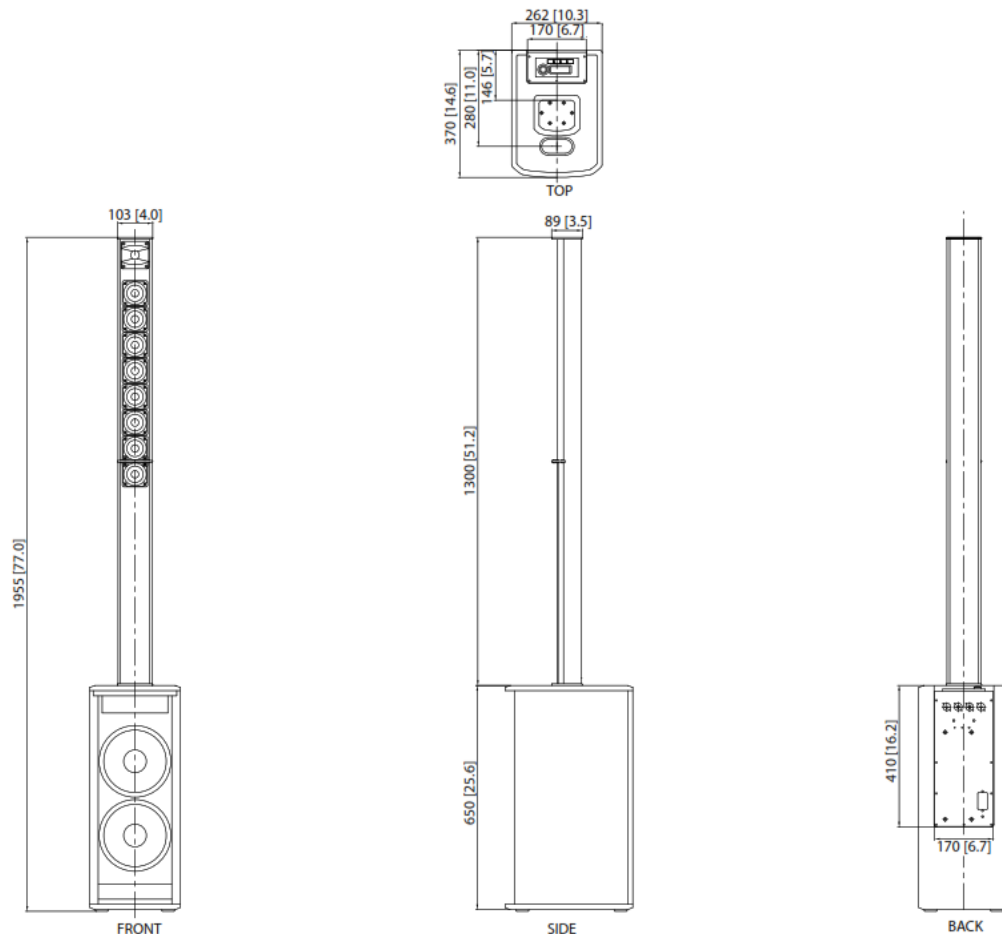
## Horizontal Polar Plots



### Portable iNSPIRE iP1000

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## Dimensions



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## Technical Specifications

System	
Frequency Response	50 Hz – 20 kHz $\pm 3$ dB 43 Hz – 20 kHz -10 dB
Nominal Dispersion	120° H @ -6 dB points
Maximum SPL	122 dB
Crossover type	4 way, active and passive
Transducers	2 x 8" (208 mm) LF drivers 8 x 2.75" (70 mm) MF drivers 1 x 1" (25 mm) HF compression driver
Limiter	Independent HF, LF
Amplifier	

Maximum output power*	1000 W
Type	Class-D
Protection	Short circuit, open circuit, thermal
Amplifier channels	3
<b>Connectors</b>	
Input A / B	2 x combo jack / XLR
Sensitivity	4 dBu, nominal
Input impedance	16 k $\Omega$ unbalanced, 33 k $\Omega$ balanced
Maximum input level	+22 dBu
Link output	XLR
Mains supply	IEC mains connector with integrated power switch†
<b>Controls</b>	
Hardware	Rotary push-encoder
Software	iOS interface via Bluetooth
User DSP Functions	
Factory EQ presets	Positioning, sound mode
Display	LCD 128 x 32, blue, backlit
Equalisation	Bass, middle and treble
Reverb	KLARK TEKNIK design
Protection	Lock-out function for all settings
<b>Bluetooth Wireless Technology</b>	
Frequency range	2402 MHz ~ 2480 MHz
Channel number	79
Version	Bluetooth 4.0 dual-mode
Output	8 dBm
Compatibility	Supports A2DP 1.2, AVRCP 1.4 profile
Maximum communication range	30 m (without interference)
Connectivity	Master-slave: stereo pairing link

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## Technical Specifications

Power Supply	
Power consumption	110 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)	1955 x 262 x 370 mm (77.0 x 10.3 x 14.6")
Base	655 x 262 x 370 mm (25.8 x 10.3 x 14.6")
Tower	1345 x 103 x 89 mm (53.0 x 4.0 x 3.5")
Net weight	24.8 kg (54.7 lbs)
Construction, base	15 mm (5/8") birch plywood
Construction, tower	Aluminum alloy
Finish	Semi-matte black paint
Grille	Powder-coated perforated steel

\*independent of limiters and driver protection circuits

†Only qualified personnel are allowed to modify the AC-Main cord and to adhere to all applicable national standards.

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Streaming



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For service, support or more information contact the TURBOSOUND location nearest you:


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## Documents / Resources

	<p><a href="#">Turbosound 1,000 Watt Powered Column Loudspeaker</a> [pdf] User Manual 1000 Watt Powered Column Loudspeaker Dual 8 Subwoofer 9 Neodymium Drivers, iNSPIRE, i P1000</p>
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## References

-  [Group Publishing](#)
-  [Turbosound | Home](#)