

# GB20T

## Sculptured Spherical 8" Omnidirectional Loudspeaker System



### ■ FEATURES

- Durable ABS Enclosure Artistically Styled
- Omnidirectional Dispersion for Even Coverage
- 70.7-volt Transformer for Distributed Audio
- White Metal-braided Cable for Beauty and Strength

### ■ DESCRIPTION

Penton Audio GB20T is a refined spherical omnidirectional loudspeaker system finished in white. Having a diameter of just 10" this decorative system has a 30-watt, 8" treated, twin-cone loudspeaker protected with an opaque dust screen. Omnidirectional in design, it exhibits a true 360-degree angle of coverage in the horizontal plain.

The attached pendant mounting has a 116" long, 5-conductor, braided cable capable of holding at least 10 times the unit's weight. Its entire length is covered by a white jacket that perfectly matches the cabinet.

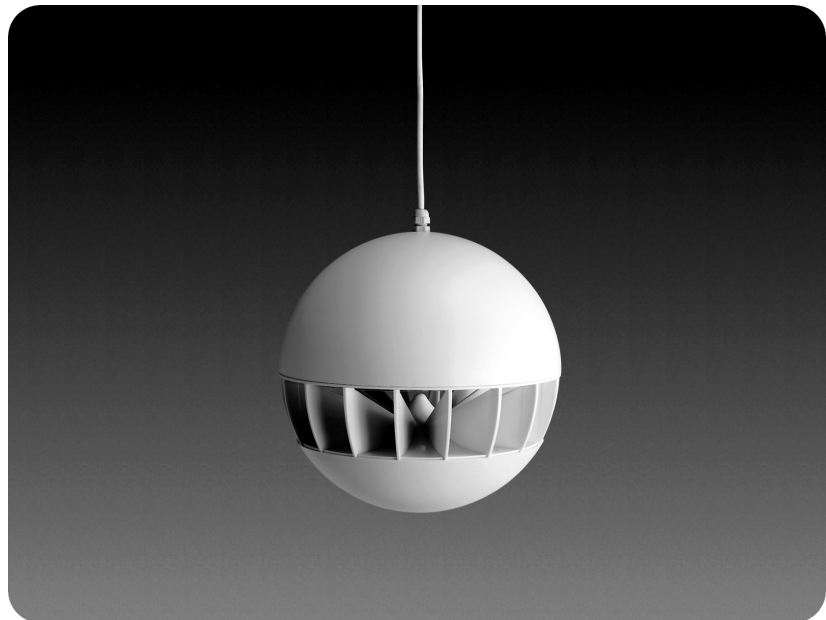
Well suited for distributed audio, it has a 20-watt, 70.7-volt transformer. Tap selection is made at the pendant cable's ends (see specifications).

To keep the GB20T looking new, the white ABS enclosure has molded-in UV inhibitors.

### ■ APPLICATION

Spherical loudspeakers are ideally suited for background music or speech covering large open spaces. Its smooth frequency response, excellent dispersion and carefully controlled performance enable these speakers to offer solutions to many problems that arise in difficult acoustic applications.

Omnidirectional in nature, its applications include warehouses, open plan retail complexes, concourses, restaurants, factories and other similar localities.



### ■ SPECIFICATIONS

• **SPEAKER CONE SIZE:**  
8" (205 mm)

• **SPEAKER TYPE:**  
Twin Cone

• **FREQUENCY RESPONSE (SEE FIG 1):**  
170 - 17,000 Hz  $\pm$  6 dB

• **POWER HANDLING (Raw Driver):**  
30 watts

• **SPL @ 1w 1m:**  
94 dB

• **DISPERSION @ 2 kHz:**  
360° x 140°

• **DIRECTIVITY Q FACTOR @ 2 kHz:**  
4.7

• **CONE MATERIAL:**  
Treated Paper

• **MAGNET WEIGHT:**  
10.0 oz

• **TRANSFORMER MAX INSERTION LOSS:**  
0.8 dB

• **CONNECTION:**  
Via Wire Nuts

#### • 70.7-VOLT TRANSFORMER TAPS (WATTS)

Color	Watts
Black	Common
Red	20
Blue	10
White	5
Yellow	2.5

#### • 70.7-VOLT TRANSFORMER IMPEDANCE:

Red	250
Blue	500
White	1 K
Yellow	2 K

• **APPROVALS:**  
CE, BS5839 part 8

• **SUPPLIED MOUNTING ACCESSORIES:**  
116" Jacked Shielded Cable

• **BAFFLE MATERIAL:**  
Molded ABS Housing with UV Inhibitor

• **FINISH:**  
White with White Pendant Cable

• **DIMENSIONS, INCH (MM):**  
10 x 10 (254 x 254)

• **NET WEIGHT LBS (KGS):**  
5.29 (2.40)

# GB20T

## ARCHITECTS' AND ENGINEERS' SPECIFICATIONS:

Unit shall be Penton Audio USA Model GB20T or approved equal. Assembly shall be comprised of a 8" loudspeaker, factory-mounted transformer, spherical baffle and 5-conductor shielded cable 116" in length.

Spherical baffle shall be aesthetically pleasing, constructed of molded high-impact ABS with UV inhibitors used throughout. Speaker shall be protected with a white opaque scrim. Entire housing and cable jacket are to be finished in matching white.

GB20T shall have a twin-cone loudspeaker with 10-ounce magnet. Cone shall be a damped, high-compliance, treated-paper type with smooth extended response over a range of 170 to 17,000 Hz and 360° x 140° dispersion. 94 dB shall be the minimum sensitivity.

Transformer shall operate on 70.7-volts with power taps of 20, 10, 5 and 2.5 watts. Insertion loss shall not exceed 0.8 dB.

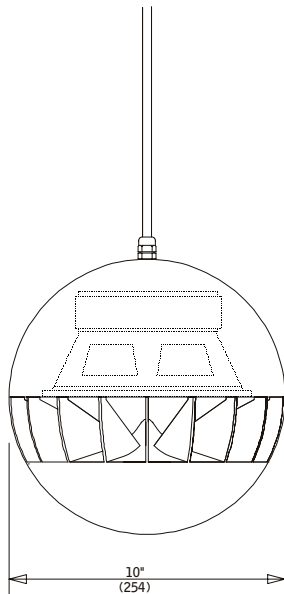


Fig 3: Dimensional View

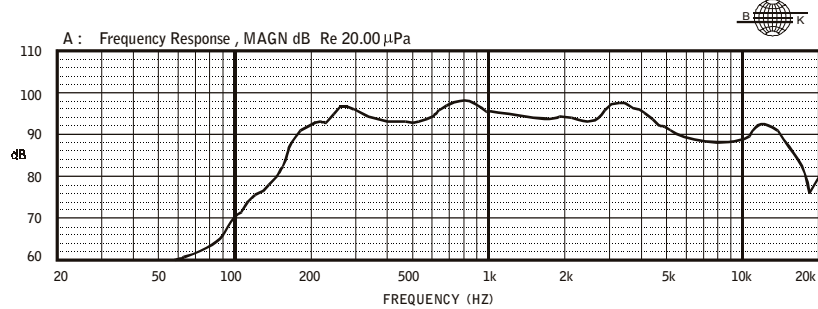


Fig 1: Frequency Response

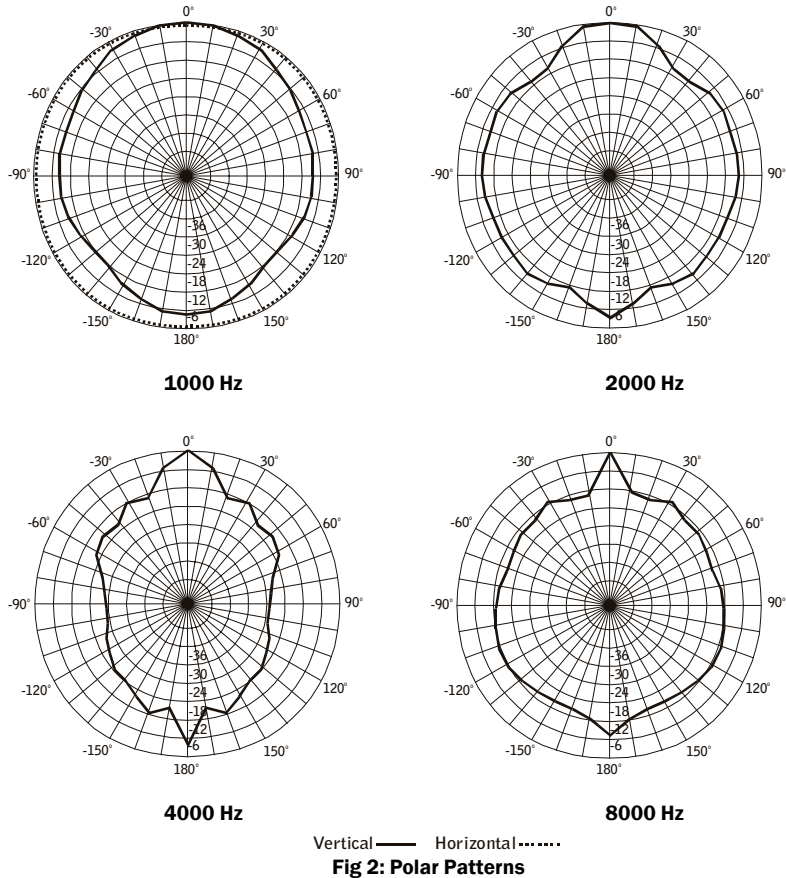


Fig 2: Polar Patterns

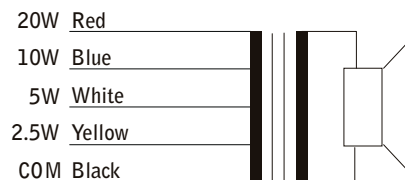


Fig 4: Circuit Diagram

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Specifications subject to change without notice

SS02-3021