



# BIA-100

## Bi-Axial Horn With Gimbal-Mount



**BIA-100**

### Features

- High-Efficiency Bi-Axial Horn Provides 130° x 60° Wide-Angle Sound Coverage
- Combine with PD Series Drivers
- Patented 180° Gimbal-Mount for Installation Flexibility
- Accepts All Atlas Sound and 1 3/8" - 18 Thread Compression Drivers with Throat Openings of 0.7" Diameter

### Applications

Bi-axial horn model BIA-100 delivers outstanding sound dispersion and audio efficiency when used with medium or high powered compression drivers. Unit features exponentially-flared projectors which eliminate phase cancellation, control low-frequency roll off, and offers maximum results in professionally-applied voice, music, and signaling systems. It can be surface or flange-mounted. Weather-resistant construction is suitable for permanent or portable installation in house of worship, recreation/sport centers, mass transit terminals, industrial, commercial, educational, and institutional facilities.

### General Description

BIA-100 is the original reflex horn featuring a bi-axial design with exponential bell for wide-angle coverage. The horn provides excellent acoustic loading maintained to a 350Hz low-frequency roll-off and optimizes delivery of high and midrange signal levels. BIA-100 is designed for use with Atlas Sound PD Series compression drivers and models having 1 3/8" -18 male threads and 0.707" diameter throat openings. Refer to PD Series compression driver specification sheets for high-pass filter requirements. The easily-mounted horn features the labor-saving patented gimbal-mount bracket assembly (U.S. Patent #4,325,529) which allows for directional positioning up to 180° vertically and horizontally. It includes a steel bracket, cast-mounting base, and provisions for flange installation. The weather-resistant, non-glare matte black foam horn is resistant to resonance. Bracket assembly is finished in durable epoxy.

### Specifications

Dispersion	130° x 60°
Height	21" (533mm)
Width	10 1/4" (260mm)
Depth	19 1/4" (489mm)
Weight	16 lbs

### Architect and Engineer Specifications

Horn shall be Atlas Sound or approved equal incorporating a unitized, bi-axial, twin-reflex air column assembly for wide-angle coverage pattern. Low-frequency roll off shall be 500Hz, air column length 2 3/4' (838mm) and sound-dispersion angle 130° in the plane of narrower horn dimension and 60° in the wider dimension. The horn shall accommodate compression driver units with standard 1 3/8" - 18 thread and measure 21"W x 10 1/4"H x 19 1/4"D.

The horn bell shall be weather resistant and constructed of non-resonant molded foam textured in black. A steel mounting bracket and cast installation base shall provide adjustable flexibility in sound focusing up to 180° vertically and horizontally. The gimbal-mount shall include provisions for surface installation, banding, and strapping.

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