

LT-2



BH-2



TOC™ SYSTEMS GROUP LONG THROW SOLUTION

Most live sound systems lack long throw capability. The TOC™ solution provides a full range long throw package or the option of adding long throw to an existing system.

In the development of the LT-2 and BH-2, PAS engineers accepted two challenges to provide the most versatile long throw solution to our customers:

The First Challenge of voice and music support for large facilities is reaching the people at 75 to 100 yards and more with presence and intelligibility.

The Second is doing this without overpowering those in front or bothering the ones a mile away.

There are few products that successfully meet the first challenge. There are even fewer that meet the second.

Two products in the TOC™ systems group provide a unique answer to these challenges:

LT-2. This long throw mid/high cabinet has the very high Q necessary to project these distances in the range from 200 Hz to 10 kHz and beyond. It is a concentric design that contains a 12 inch coaxial loudspeaker with a 2 inch compression driver precisely loaded into a trapezoidal concentric horn assembly.

The LT-2 features:

- A concentric 4" voice coil 12 inch loudspeaker with kevlar reinforced diaphragm.
- An Extended high frequency 2" compression driver.
- Fiberglass reinforce low frequency horn with concentrically mounted high frequency horn.
- Baltic birch cabinet with an environmentally safe water-based black acrylic finish. A weather resistant black polyurethane coating is available for outdoor installations (on special order).
- BH-2s are recommended for full range systems. CB-2 subwoofers can be used for supplemental response below 80Hz

LT-2 CONCENTRIC HORN.

Unique to TOC™ Systems Group, the concentric design sets a standard in long throw technology above that of the competition.

With an acoustical center that remains constant throughout its entire frequency range, the LT-2 has a seamless transition between the mid and high frequencies.

The LT-2's acoustical center is located three inches inside the rear of the cabinet. The apparent apexes of both horn sections are in the same location. When arraying multiple LT-2s for wider coverage, having these points in the same location greatly reduces the acoustical interference known as lobing.

BH-2. This bass horn uses a pair of 12" bass drivers in a 60 Hz vented horn. It is used to provide low frequency support in the octave and a half below 200 Hz. This is the range of most of the power in music and voice. It is also the range in which directional control becomes difficult due to the wavelengths involved. Multiple BH-2s in arrays make possible directional control that makes both challenges a reality. A minimum of two cabinets is necessary for this performance. Venting the rear chamber not only smooths the response near the cutoff frequency, it also provides an efficient means of cooling these high powered drivers.

Compatibility. Identical size, balance points and acoustic centers make the LT-2 and BH-2 cabinets easily combined in arrays.

The TOC™ L2 processor is required for rated performance.

LT-2 Specifications:

Frequency Response: 200 to 16kHz

*Power Rating: LF *500 watts
HF 100 watts*

*Nominal Impedance: LF: 8 ohms
HF: 8 ohms*

*Sensitivity (1w/1m): LF: 112 dB
HF: 120 dB*

*Maximum SPL: 139dB @ 1 meter
(@ rated power)*

Nominal Coverage Angles: 20° H x 30° V

Crossover Frequency: 1.2 kHz

L.F. Driver: CX-2280C

H.F. Driver: DE 750/8

Input Connectors: 1 x NL4

Dimensions: 36" H x 26" W x 42" D

Weight: 185 lbs

BH-2 Specifications:

Frequency Response: 80 - 200Hz

Power Rating 1000 Watts

Nominal Impedance: 4 ohms

Sensitivity (1w/1m): 109 dB

*Maximum SPL: 139dB @ 1 meter
(@ rated power)*

Nominal Coverage Angles:

Configuration Dependent

One cabinet: 120° H x 100° V

Drivers: BH-2280C x 2

Input Connectors: 1 x NL4

Dimensions: 36" H x 26W x 42" D

Weight: 185lbs

