

ISP Technologies LT2

The ISP Technologies LT2 speakers are a 3-way active speaker system with high output and low distortion. The LT2 speakers are designed to be flown from the ceiling in a permanent installation. They can be used by themselves or with subwoofers. When used without subwoofers, the 'S' option is recommended, which uses a special woofer with larger excursion capabilities and lower resonance for higher output at low frequencies.



The 3-way design with an 8-inch midrange which is phase-aligned with the high frequency driver allows for wider, cleaner, more detailed midrange coverage than 2-way designs. It also results in better low-frequency response since the woofer can be optimized for LF performance, and off-loading the midrange duties results in lower power compression.

The standard high frequency driver is a 2-inch voice coil, titanium diaphragm unit with excellent frequency response. The 'XF' option specifies an upgraded HF driver with polyester diaphragm, higher sensitivity, and exceptionally smooth and extended frequency response. This driver is possibly the most 'hi-fi' sounding high frequency compression driver available! The high frequency horn features a dispersion of 90° horizontal by 70° vertical. This is much more than the 40° vertical dispersion typical of most boxes, since when a speaker is flown the required vertical dispersion increases. The LT2 will provide high frequency coverage from the first row to the last in nearly every situation. When ordered in pairs, they are furnished in mirror-image sets.

Standard with the system is a separate 3-channel, 1000-Watt rms amplifier/electronic crossover that is specifically designed for use with the speaker. This amplifier features ISP's patent pending DCAT high-current amplification technology. A cooling fan automatically switches on when needed.

Features:

- 500+400+100 Wrms 3-channel amplifier with electronic crossover included. No digital processor needed.
- Three-way full range active system, 15" woofer, 8" midrange, 1" throat high frequency compression driver.
- 90 H x 70 V dispersion covers from the first row to the last.
- Designed for flying with small vertical dimension and slanted top to maximize sight lines

Specifications:

Configuration: 3-way

LF Driver: 15", 600W rms, vented

MF Driver: 8", 225 W rms

HF Driver

(Standard) 2" v.c. compression, 80 W rms, titanium diaphragm, on Constant directivity horn

(XF option) 1.75" v.c. compression, 60 W rms, polyester diaphragm, on CD horn

Coverage: 90° horizontal x 70° vertical

Construction: baltic birch plywood, powder coated steel grille

Finish: Textured black paint (white or unfinished available)

Connector

XLR or ¼" for audio input

3-pin IEC for AC power

Dimensions: 30.54" W x 19.75" H x 19.5" D

Suspension

(2) 3/8" - 16 Threaded mounting points on top

(1) 3/8" - 16 Threaded point on back for pullback only

Weight: 115 Lbs

Amplifier

500+400+100 W rms, 3 channels, high current DCAT, fan cooled

Built-in electronic crossover (4th order)

Power Required: 10 Amps x 120 VAC

Frequency Range

(Standard) 38 Hz to 16 KHz (-10 dB)

(XFS) 37 Hz to 19 KHz (-10 dB)

Frequency Response

(Standard) +/-3db 51Hz to 14KHz @ 1W

(XFS) +/-3db 49Hz to 18KHz @ 1W

Axial Sensitivity

(Standard) LF: 96 dB/1W/1M, MF: 96 dB/1W/1M, HF: 104 dB/1W/1M

(XFS) LF: 95 dB/1W/1M, MF: 96 dB/1W/1M, HF: 107 dB/1W/1M

Calculated Output

LF: 122 dB SPL (long term)

MF: 120 dB SPL (long term), 122 dB SPL (peak)

HF (standard): 123 dB SPL (long term), 124 dB SPL (peak)

HF (XF option): 125 dB SPL (long term), 127 dB SPL (peak)

DIMENSIONAL DATA

