

Comparison between Jericho Model Loudspeakers

Currently, (Summer 2012) Danley Sound Labs produces 4 Synergy Horn loudspeaker cabinets, which carry the label Jericho. We chose the label Jericho because if a loud speaker could do structural damage, the Jericho could! But don't think that they are simply loud. Audition a Jericho and we believe you'll agree with us, they are the world's loudest reference monitors!

The JH 90 now referred to as the J-1, was the original Jericho Horn. It was first introduced at Infocomm in Las Vegas in 2010. The J-1 is actually two horns in one. The bass horn is a folded horn driven by six 18" long excursion drivers. The Mid/ High horn is a 90 deg by 40 deg Synergy Horn™ driven by six 6" midrange drivers and three coax compression drivers. The Mid/High horn is asymmetrical in the sense that all the coverage is down. The JH 90 was initially intended to be wheeled out onto a stage in 5-10,000 seat venues as a single box solution. It has been used in a number of stadia and performance venues. The J-1 is flyable but not arrayable. It has amazing low end and for many applications doesn't require a sub.

The J-2 was introduced at Infocomm in Orlando in 2011. It is a true Synergy Horn™ with 42 drivers all feeding a single 90 deg by 60 deg horn. The driver complement is six 18" Woofers, twenty five 5" mids, and twelve 1" compression drivers. The J-2 is a full range point source device, that is array-able. It goes a bit lower in frequency than the J1 however due to its wider vertical pattern will not get quite as loud. The J-2 is an excellent choice for a flown system which needs wide coverage. Because it is a full range, horn-loaded point source, the consistency in the coverage angle is remarkable. Some have suggested that it is really a line source. It most emphatically is not. It is a Synergy Horn ingeniously reduced down to a very small package. If you measure the output it will behave exactly like a point source would, losing 6 dB for every doubling of distance, and exhibit consistent behavior at every point of observation within the coverage angle. Because it is a very large horn, there will be no appreciable pattern flip. The J-2 can be used without a sub, but for that extra punch, it pairs nicely with a TH 412, or a DBH 218, or TH 812.

The J-3 made its' show debut at infocomm 2012, in Las Vegas. It is a smaller, lighter version of the J-2, with a very different complement of drivers. It also is a Synergy Horn™ with six 15" woofers, eight 6.5" mid range drivers and 4 coaxial compression drivers all feeding the same horn. It is more efficient than any of the other Jericho boxes and in its' pass band, the loudest of the three full range Jerichos. The J3 is an array-able 60 by 40 degree horn, ideal for both permanent installations in large arenas and for touring as well. Like the J-2, the J-3 is a true full range point source with a very large horn mouth and will not exhibit pattern flip. Although the J-3 has a 3 dB down point of 43 Hz, is intended for use with subwoofers.

The J-4 is the newest member of the Jericho family. It was unveiled at Las Vegas Infocomm 2012. It is a truly unique box, with 64 one inch compression drivers combining seamlessly into one horn! The coverage pattern of the J-4 is 10° vertical by 30° horizontal. The phase response of this box with 64 drivers looks remarkably like the phase response of one driver. When listening with pink noise there is no audible combing in the coverage pattern and as such represents a major breakthrough in HF accomplishments. The J-4 Synergy Horn naturally horn loads all the way down to 600 Hz, but for maximum output it needs to be high passed in the 2-3kHz range. Our preliminary tests indicate that the J-4 will deliver high frequency at levels approaching 150 dB Spl! It requires four amplifier channels and is rated at four channels of 800 watts each continuous, 3200 per channel peak. The J-4 is the only choice when you need to project high frequencies over long distances. If one is not enough, the J-4 is also hard packed array-able.