TRx3210
LINE ARRAY
CARVIN
The dual 10-inch, 3-way TRx3210 line array element is a full range system featuring two high-power transducers for the lo-end & mid-range, which provide very high coherence and definition. The high frequency section features two 1-inch exit, 1.75-inch voice coil, Mylar diaphragm compression drivers mounted to a PurePath™ lens system. The PurePath™ horn lens is CNC machined from acoustically non-resonant Eastern Maple hardwood, providing a smooth equal path length wave guide, for pure natural cylindrically projected highs. The lens also places the horn drivers in time with the 10-inch drivers for the best phase alignment and transient response over the full frequency spectrum.

**TRx3210 Versatility and Clarity**

Introducing the 3-way TRx3210 compact line/curve linear array element. The cabinet design allows easy stacking of up to 6 boxes on the ground, or up to four boxes on a TRx subwoofer. The integrated dual pole mounts allows 2 boxes to be safely supported over 1 subwoofer or use just 1 box for front fill at the edge of the stage. With the easy bolt on SureFly™ pin rigging system and SureFly™ T-bar, up to 12 boxes can be flown and adjusted to a “J” curve or spiral curve to fit any venue. The TRx3210’s highly flexible design covers small to very large performances.

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**3-way Low, Low / Mid, High**

The 3-way design, with the operating frequency range divided into the low frequency band (80 Hz - 600 Hz), lo/mid band (80 Hz - 1500 Hz) and the very-high frequency band (1.5 kHz – 18.5 kHz), offers high 131 dB SPL levels yielding perfect intelligibility.

**Directivity**

The PurePath™ horn produces a tight 10 degree vertical x 100 degree horizontal pattern on a single cabinet. Conventional enclosures drop 6dB when doubling the distance. When coupled in a line array this pattern narrows further to produce the line array effect, which drops only 3dB when doubling the distance. This effect is also present with the tight coupling of the 10-inch drivers in an 11.8-inch vertical box. Over a point source single or multi cabinet array this is twice the SPL in an equivalent distance. The line array behavior is frequency dependent and varies with the number of cabinets in the array, so you can adjust the number of elements for the venue as needed. When the straight line of the line array is broken as in the case of a “J” curve, the elements behave more as a point source producing less output to the closer listeners. The TRx3210 can be deployed in a full curvilinear array at 10 degrees of angle between elements. This reduces the distance throw of the array and produces a smooth point source array covering 60 degrees of vertical and 100 degrees of horizontal coverage in six boxes.
**Compact**

The TRx3210 are remarkably compact to make more room on the stage, plus they fit into containers for easy transport. For fast setups, the enclosures are stackable on the integrated foot receptors featured on the TRx subwoofers using no hardware. The inherent advantage of a line array design allows the rear audience to hear nearly the same levels as the front, which eliminates over powering the front.

**Features**

- High 140dB SPL (with 8 elements)
- Extremely low distortion
- Eastern Maple hardwood PurePath™ horn lens
- Passive crossover with pins 1+ 1- or pins 2+ 2- flip switch
- Bi-amp / full range switch
- DuraTec™ weather & UV resistant tour-tough finish
- 15mm Russian Baltic Birch 13-ply hardwood cabinet
- Fly up to 12 enclosures with optional SureFly™ rigging
- Stackable up to 6 enclosures - no hardware required
- Dim: 23.6w x 11.8”h x14.8”d, 50 lbs
- Made in the USA

**Curve Linear Array Configuration**

The TRx3210 is also designed to serve as a curve linear array shown at 12.5 degrees. Total system coverage at 100 x 50 degrees.

The TRx3210 can be dual pole mounted, stacked on the ground or on top of a TRx subwoofer with aligning foot cups to secure stacked cabinets. SureFly™ hardware not required for stacking.
SureFly™ Rigging System

The TRX3210 comes standard without the side mounted SureFly™ rigging. The optional SureFly™ rigging system consist of the SureFly™ kit and the SureFly™ T-bar. The SureFly™ kit includes all the hardware needed for one TRx3210. This kit is easily bolted to the side using existing fly points on the cabinet. Simply remove the three fly bolts on the enclosure and bolt on the SureFly™ assembly. Enclosures can have hardware added in as little as 5 minutes each. The SureFly™ rigging provides 6 angle adjustments of 0, 2.5, 5, 7.5, 10 and 12.5 degrees. With its simple two pin system one pin controls the 0, 2.5, 5, and 7.5 degree movement and the other pin has 0 degree and a plus 5 degree position. With the 4 enclosure dolly board, 4 enclosures can be rolled up to position already configured in the 0 degree position and deployed. The angle can be left straight or be adjusted easily as the array is lifted. A 12 enclosure system is fast and easy to setup even for a single operator.

Lost pins or broken pins are a thing of the past. The SureFly™ system includes two locations to store the pins safely inside the handle area preventing damage during transport. This also can hold the swing plate in an up position for transport of a single element or if it is the bottom element in a flown pole mounted array.

DB3210 4-enclosure dollyboard

TRx3210
System Type: Dual 10-inch 3-Way, Reflex
Frequency Response: 70 Hz – 18.5 kHz (-10dB)
85 Hz – 16 kHz (-3 dB)
Coverage Pattern: 100˚ H x 10˚ V (single enclosure)
Crossover: 3-Way Quasi
Speaker Guard™ HF protection
Crossover Frequency: 1.5 k Hz (600Hz LP one 10-inch)
Sensitivity (1w @ 1m): 98dB
Maximum SPL: 131dB Peak single enclosure
137dB Peak four enclosures
140dB Peak eight enclosures
LF Driver: 2x 10-inch 2-inch VC
HF Driver: 1-inch exit 1.75-inch VC
Nominal Impedances (Continuous/Program/Peak)
Full range: 8 ohms 500w /1000w /2000w
Bi-amp LF: 8 ohms 500w /1000w /2000w
Bi-amp HF: 8 ohms 120w /240w /480w
Enclosure: 13-Ply Russian Baltic Birch
Suspension/Mounting: 14 captive 3/8in-16 nut fly pts.
Two 1-3/8 pole mount cups
Finish: Black DuraTex™
Transport: 2 Recessed Handles
Grill: Black powder coated steel
Acoustically Transparent Foam Backing
Connectors: Two 4-pin Speakon™ connectors
Dimensions (H x W x D): 11.5 in x 23.5 in x 14 in
295 mm x 600 mm x 370 mm
Net Wt: 52 lb (24 kg) no hardware
Rigging Accessories:
#SureFlyTRX rigging kit 6.9 lb (3.1kg) 1 required per enclosure
#SureFlyTBAR 11 lb (5kg) 1 required per array
#TCSHK58 5/8” Shackle 1.3 lb (0.5kg) 2 required per TBAR