

# T LINE VARIABLE BEAM-STEERING



The KS AUDIO **T LINE** Array was developed for highest transmission quality in LIVE CONCERT applications. The **T LINE** features a variable vertical radiation behavior of 0° to 10°, which always ensures a continuous transition to the next element and eliminates the need for different types with different dispersion angles.

The components are equipped with neodymium magnets, which translates into low weight and, in combination with the special membrane shape of the three high-frequency drivers, the lowest distortion factor. With a frequency range of 60- 20,000Hz it is a full-range system that only needs to be complemented in certain cases by KS AUDIO subwoofers.

The amplifier for the **T LINE** is the KS AUDIO TA 4D whose 4 amplifier channels are switched in 2-channel Bi-amp mode. The load on a TA 4D is four **T LINE** modules. Thereby it delivers on the woofer channels 2x 2000Wrms.

Each line array requires a frequency equalization that is determined by the length of the array and the angle between the individual elements. It is often recommended to simulate the intended array with special software or standard programs like EASE.

This is a tedious process and it finally demands a compromise from the user, since the frequency response may not be expected to be the same at every point of the acoustic surface to be covered, and therefore only an average correction is possible.

On top of that, in practice, the local conditions often do not allow the exact realization of the simulated array, and thus a high degree of uncertainty arises when the system is put into operation. Therefore, KS AUDIO has stored presets in the F MOD controllers, which convert the entered values for array length "PCS" and angulation "CUR" into optimal equalization. These uncomplicated and "on-site" modifiable parameters are listed in the manual next to the required number of TA 4D amplifiers. The chart is designed in a way that the connection between electronics and mechanics becomes immediately apparent.

As with all KS AUDIO systems, the cabinet construction is made of multi-layered birch plywood with a textured plastic coating. Steel protection grilles with or without acoustic foam are further features of this high-quality product. The Flyware requires no external components and is simply and securely locked in place with ball lock bolts.



KS AUDIO TECHNOLOGY ✓  
**Variable Vertical Beam Steering**

0° - 10° adjustable vertical coverage ✓

90° horizontal coverage ✓

Two 12" neodymium Cone woofers ✓

Three 1.75" ring diaphragm compression drivers ✓

>2500W power handling ✓

144dB max SPL ✓

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## SPECIFICATIONS

|                                      |  |
|--------------------------------------|--|
| Frequency response                   | 60 - 20.000Hz $\pm 3$ dB   |
| F MOD / D MOD low cut modes          | OFF / 70 / 100 / 120Hz   |
| Max. SPL (1m, free field) with TA 4D | 144dB - single element   |
| Nominal horizontal dispersion        | 90°  |
| Nominal vertical dispersion          | VBS - Variable Beam Steering between 0° and 10° in 1° increments                 |
| Transducers                          | LF: Two 12" neodymium Cone<br>HF: Three 1.75" ring diaphragm compression drivers |
| Power handling AES RMS/peak          | LF: 1000W / 2000W<br>HF: 240W / 1350W  |
| Acoustic principle                   | LF: Bass-reflex<br>HF: Variable Beam Steering Technology waveguide               |
| Nominal impedance                    | LF: 4 $\Omega$<br>HF: 5.6 $\Omega$   |
| Splay angle increments               | 0 - 10° in 1° increments   |
| Connectors                           | Two speakON NL4  |

## DIMENSIONS AND WEIGHTS

