

## FLEX ARRAY ENGINEERING INFORMATION

The Flex Array series is a range of high performance modular loudspeaker enclosures designed for use across a wide spectrum of medium scale sound reinforcement activities ranging from theatres and live music venues to corporate events and regional tours.

The TFA-600H is a trapezoidal three-way switchable tri-amped/bi-amped enclosure combining a patent-pending Dendritic HF waveguide and a patented midrange Polyhorn in a single physically aligned waveguide. This geometry allows the enclosure's dispersion to be easily adapted to the implementation of a line array or a vertical point source.

Flex Array's 75° horizontal dispersion pattern suits typical venues better than systems with commonly used fixed 90° or greater dispersion, thereby maximising the direct sound field while reducing reverberant energy. Two Flex Array columns arrayed at 55° provide an ideal 130° horizontal coverage solution for outdoor events.

Neodymium drive units are used throughout in order to achieve the compact cabinet's exceptionally low 41kg net weight, making it convenient to transport, handle and rig. In addition the drive units are symmetrically located within the enclosure, which contributes to the smooth and consistent horizontal coverage. The upper crossover point is positioned at 8kHz, giving legendary

Turbosound midrange power and clarity from paper cone type transducer.

The enclosure has both vertical and horizontal flying systems integrated into the cabinet. The horizontal system uses a simple and effective drop link mechanism which permits easy positioning and angling of each cabinet within any given line array configuration. Enclosures are equipped with captive biscuits for use with chain links in vertical virtual point source clusters, and with a range of flying yokes for rigging enclosures in point source applications.

Flex Array is also available as a networkable digitally self-powered bi-amped enclosure, incorporating high efficiency, lightweight Class D amplifiers and sophisticated DSP with multiple internal preset recall via rear panel or remote link. Unique 'Hop' addressing pinpoints each module's position in the network, as well as the positions of neighbouring devices.

The 15mm birch plywood cabinet is equipped with eight recessed handles on the sides, rear, top and bottom. A recessed panel at the rear of the cabinet carries either two parallel-linked Speakon NL8MP's for input and loop-through connections, or the user interface for the self-powered DP variant.



### FEATURES

**Flexible Line Array or Point Source element**

**Ultra low distortion**

**75°h x 16°v dispersion**

**136dB max output**

**Digitally powered option**

**Neodymium drive units**

**Seamless arrayability**

### APPLICATIONS

**Flown clusters**

**Theatre and corporate**

**Ground-stacked touring**

**Fixed Installs**

**Regional touring**

**Live music venues**

**Dance clubs**

<b>DIMENSIONS (HxWxD)</b>	710mm x 304mm x 560mm (28" x 12" x 22")
<b>NET WEIGHT</b>	41kg (90.2 lbs)
<b>COMPONENTS</b>	2 x custom 10" (254mm) LMF driver, 1 x custom 6.5" (165mm) MF driver on a midrange Polyhorn™, 1 x custom HF driver on a high frequency Dendritic device
<b>DISPERSION</b>	75°H x 16°V @-6dB points
<b>POWER HANDLING</b>	LF: 600 watts r.m.s., 1200 watts program MF: 120 watts r.m.s., 240 watts program HF: 60 watts r.m.s., 120 watts program
<b>SENSITIVITY(1W@1M)</b>	LMF: 98dB; MF: 108dB; HF: 104dB in full space
<b>CALCULATED MAXIMUM SPL</b>	Single enclosure: 130dB continuous (calculated SPL addition), 136dB peak Multiple enclosures: 2 x Line Array enclosures 136dB continuous, 142dB peak 3 x Line Array enclosures 140dB continuous, 146dB peak 4 x Line Array enclosures 142dB continuous, 148db peak 2 x Point Source enclosures 133dB continuous, 139dB peak 3 x Point Source enclosures 135dB continuous, 141dB peak 4 x Point Source enclosures 136dB continuous, 142db peak
<b>CROSSOVER POINTS</b>	100Hz, 680Hz, 8kHz
<b>NOMINAL IMPEDANCE</b>	LMF: 8 ohms; MF: 8 ohms; HF: 8 ohms
<b>CONSTRUCTION</b>	15mm (5/8") birch plywood throughout; rebated, screwed and glued. Finished in black semi-matt textured paint. Eight recessed carrying handles.
<b>GRILLE</b>	Powder coated perforated stainless steel with reticulated foam backing
<b>CONNECTORS</b>	(2) Neutrik Speakon NL8 wired: pin1+ and 1- not connected; pin 2+: LF positive; pin2-: LF negative; pin 3+: MF positive, pin 3-: MF negative, pin 4+: HF positive, pin 4- HF negative
<b>SPARES AND ACCESSORIES</b>	MG-600H Replacement cloth/expanded metal grille LS-1025 10" (254mm) LMF loudspeaker RC-1025 Recone kit LS-6507 6.5" (165mm) HMF loudspeaker RC-6507 Recone kit CD-115 HF driver RD-115 Replacement HF diaphragm