



**Directional Microphone
Array System**
Model 6802

Directional Microphone Array System

MODEL 6802

Audio collection in large, open areas can often require pinpoint accuracy to isolate specific audio sources. Only TSE 6802 can deliver the technology to electronically steer multiple beams through a sound field collected by a fixed microphone array. Key features of the TSE 6802 system:

- Provides a high-gain electronic beam steering capability
- Steers three separate beams from one set of microphones
- Supports a wide variety of custom microphone arrays, handling up to 96 microphones on 16 channels of input
- Features a unique stereo beam mode for a natural listening experience
- Offers hardware and software based steering controls for maximum flexibility
- 3-D beam forming (azimuth, elevation, and distance) available under software control
- Can be used in real-time surveillance or post-processing of multi-track recordings



Specifications

Analog

Microphone Inputs	•Two 25-pin DSUB connector interfaces (Tascam format)
	•Supports 8 differential line level inputs per channel (16 channels total)
	•25k ohm input impedance per channel
Bandwidth	•7.5 kHz Analog Conversions
	•24-bit stereo A/D and D/A Sigma-delta technology
Dynamic Range	•> 120 dB

Digital Processing

Microprocessor	<ul style="list-style-type: none"> •Four ADSP-21062 SHARC® processors for beam forming •One ADSP-21062 SHARC® processor for interface control and hosting
Beam-Forming	<ul style="list-style-type: none"> •Three beams (or one stereo beam and one mono beam) •Adjustable azimuth (0.1 degree increments) •Adjustable gain (1 dB increments) •Adjustable elevation (0.1 degree increments), software control only •Adjustable distance (0.5 meters to infinity), software control only •30th order, digital low pass filters for fractional delays •Memory based sample delay lines (200 deep)
Memory	<ul style="list-style-type: none"> •Two 512K x 8 flash memory for program and coefficient storage
Computer Interface	<ul style="list-style-type: none"> •RS232 serial interface for system control

General

Enclosure	<ul style="list-style-type: none"> •17 W x 3.5 H x 12 D inches black aluminum •Optional rack mount kit available
Power	<ul style="list-style-type: none"> •90-264 VAC, 47-63 Hz at 2.5 A (max)



If you would like further Information about ELAMAN,
or would like to discuss a specific requirement or project, please contact us at:

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