

IC²

DIGITALLY STEERABLE LOUDSPEAKER SYSTEMS



- **Digitally Steerable Array Technology**

Steerable by +/- 30 degrees, "dead" hang the system and adjust the aiming from the RHAON control software.

- **Variable Beamwidth Control**

Adjustable vertical opening angle from 10 to 80 degrees per beam, even from a single cabinet. With multiple cabinets deploy beams as tight as 5 degrees for maximum control.

- **Variable Acoustic Center**

Place the acoustic center anywhere within the array, or for multiple beams choose multiple acoustic centers to best suit the application.

- **Self-Powered**

Integral DSP controlled, 8-channel Class D digital amplifiers provide 60 Hz to 20 kHz performance.

- **Powerful**

A single cabinet can deliver up to 131dB Peak SPL, over 100dB Peak at 30 meters - add even higher levels from multi-cabinet arrays.

- **Great Versatility**

Use as a stand-alone loudspeaker or as a line array module in ground stacked or flown line arrays.

- **Advanced Transducers**

Audiophile quality transducers with Neodymium magnets provide outstanding performance, reduce weight.



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New Directions In Loudspeaker Design

IC² digitally steerable loudspeaker modules and arrays provide an elegant solution to long standing acoustical problems by combining the advantages of point source design with the control and flexibility of digitally steered array technology. Individual driver control maximizes the acoustical advantages of this design. The result is unsurpassed vertical pattern control – essential for delivering intelligible speech in reverberant spaces. IC² beams can be steered up or down while the stack or array remains vertical.

IC² arrays are powerful and versatile. Their four 8-inch low frequency Neodymium transducers and four 1-inch throat Titanium Nitride coated HF drivers produce surprisingly high sound levels for their size and weight. They can be used as a stand alone high performance loudspeaker, in small stacks when additional control and output are needed or flown in large multi-cabinet arrays when even more output and control are needed.

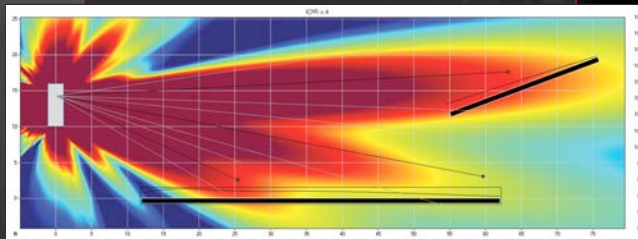
IC² arrays are equally at home delivering intelligible speech during corporate stockholder meetings, cutting through the crowd noise at political conventions or shaking the walls with rock music during concerts.



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DIGITALLY STEERABLE LOUDSPEAKER SYSTEMS

Powerful Algorithms, Intuitive Interface

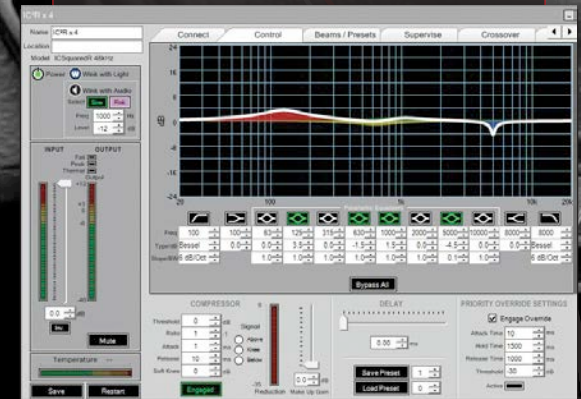


The software algorithms that shape and aim the output of an IC² array are complex, but the user interface is intuitively simple. Our **BeamWare** software, an integral part of **RHAON**, lets you model the audience area, then drag and drop beams until coverage is optimized. BeamWare then calculates a set of **FIR** (Finite Impulse Response) filters that control the array's beams.

At installation time, simply download the full set of **FIR** filters from your computer to the IC² modules over the Ethernet network.

The beams can be easily adjusted from your computer after the IC² array is installed.

RHAON also allows you to adjust the output level, EQ, high and low frequency shelving, muting and delay of IC² arrays from your computer.



Connect Control Supervise

• Simple Connectivity

RHAON combines CobraNet audio delivery and fast Ethernet control over a single Cat5 cable for easy installation, and it's available over our entire range of loudspeakers making RHAON the most complete and flexible system available.

• Multiple Input Options

RHAON amplifier modules can accept multiple audio input formats, from standard analog audio on XLR or Phoenix style connections to CobraNet or AES/EBU digital inputs. Up to two inputs can be selected and configured to allow automatic priority switch over for paging or alarm requirements.

• Powerful User DSP

Each Amp module offers 8 Bands of fully parametric EQ, High and Low pass filters, High and Low Shelving Filters and up to 358ms of delay for loudspeaker optimization and alignment.

• Full Time Supervision

RHAON provides full time monitoring of Temperature, Driver Impedance and Network Status to ensure optimum system health. Exceptions can be added to the system event log, or used to trigger email or SMS advisory messages.