


fulcrum
ACOUSTIC
the sound of innovation



Loudspeaker design hasn't always been an exact science, but it has for us. Since 2008, Fulcrum Acoustic has gained a reputation as a leading innovator in loudspeaker design. Leveraging the creative genius and expertise of legendary audio professionals, Fulcrum continuously raises the bar in loudspeaker technology.

Integrating bold and unconventional coaxial design with proprietary digital signal processing (DSP), our unique approach to loudspeaker design can be found in distinguished and demanding venues worldwide, from performing arts centers and houses of worship, to hospitality venues and sporting facilities.



Employing the research of company co-founder Dave Gunness, Fulcrum overcomes common loudspeaker performance limitations by treating advanced DSP algorithms as integral to our designs. The result is loudspeakers that provide stunning

output and unmatched clarity even at high output, in the smallest enclosures possible. We take pride in manufacturing high-quality, high-performing products in the U.S., providing personal access to all members of our staff, and offering customers the most responsive technical support in the industry.

Fulcrum Acoustic co-founder Dave Gunness began his career designing loudspeakers for Electro-Voice, moving on to become an innovative force behind speaker manufacturer Eastern Acoustic Works. He holds numerous patents, including the Passive Cardioid Speaker™, the world's first stadium-scale digitally steered system, the first installer-configurable steered array for mid-sized venues, and a suite of innovative processing techniques marketed as "Gunness Focusing™".



Dave formed Fulcrum Acoustic with co-founder/president Stephen Siegel to continue his career-long pursuit of creating new and better loudspeakers through the innovative use of DSP and breakthrough acoustical design.

FULCRUM PRODUCTS



A comprehensive line of coaxial installation speakers
Fulcrum TQ Install products, based on proprietary coaxial driver/horn assemblies, deliver the improved intelligibility, higher gain before feedback, and enhanced sonic accuracy that can only come from a carefully integrated coaxial solution.



High-performance installation subwoofers
VLF Install products are comprised of conventionally-sized, direct-radiating subwoofers and ultra-compact, low profile models that have a very high output-to-size ratio.



Compact, high-intensity music systems
Designed specifically for the needs of high-energy nightclubs, Prophile Series speakers

can be integrated into a variety of architectural motifs, while meeting the highest performance standards for music and entertainment venues.



Fulcrum's signature performance to go

The FA Portable Series of full range loudspeakers employ horn-loaded coaxial drivers to bring Fulcrum's signature clarity and well-behaved directionality to portable applications in versatile and easy-to-handle packages. Its TS Series subwoofers' ultra-compact enclosures allow concert-level low frequency (LF) impact while minimizing size and weight.



Monitors for production and post production

RM Series loudspeakers are 3-way coaxial reference monitors that provide the accuracy, pristine imaging and precise transient response required of a studio monitor, but with the directional control, power handling and output capability required in larger spaces.



Line array modules for a wide range of venues

Fulcrum subcardioid FL283 line array modules and companion FLS115 subwoofers provide performance and technology unlike other compact line array products and are ideal for permanent installation in a wide variety of venues.



Subwoofers with Passive Cardioid Technology™

Fulcrum Cardioid Subwoofers incorporate proprietary Passive Cardioid Technology to eliminate excessive rear radiation without the extra cost, space requirements and inconvenience of active cardioid subwoofer systems.

For complete product information, including spec sheets, processor settings and EASE data, please visit our website's **Products** page.



PROPRIETARY TECHNOLOGIES

Pattern Control Coaxial Driver

Fulcrum's proprietary coaxial driver/horn assemblies emphasize consistency and stability of on- and off-axis performance. This allows for superior pattern control and frequency response that is more spatially-consistent than designs utilizing offset drivers. Co-located woofers and compression drivers sharing a single magnet structure also result in dramatically lighter and more compact loudspeakers suitable for a broad range of applications. Fulcrum Acoustic is the **only** loudspeaker manufacturer to offer a comprehensive line of coaxial solutions incorporating multiple driver sizes and horn patterns.

temporal equalization *tq*

Rather than using DSP to mitigate the shortcomings in a finished design, we include DSP techniques in the design process for all our speakers from the very beginning. Our proprietary Temporal Equalization (TQ™) technology improves loudspeaker performance by eliminating horn reflections and other artifacts of compact coaxial systems, extending the usable frequency range of high-efficiency folded bass horns, and by improving the sonic character of compression drivers. TQ is a core technology for Fulcrum which we continuously develop and evolve.



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Passive Cardioid Technology™

Fulcrum's patented Passive Cardioid Technology was developed to overcome the excessive rear LF radiation that is a major performance challenge of many loudspeakers. Unlike active cardioid systems, our passive cardioid technology does not require additional amplifier channels, drivers or enclosure volume to achieve the cardioid effect. The subcardioid polar radiation is produced by a meticulously

conceived acoustical circuit which balances the position of the LF drivers, the enclosure depth and volume, and specially constructed rear-mounted ports which include a calibrated resistive element.

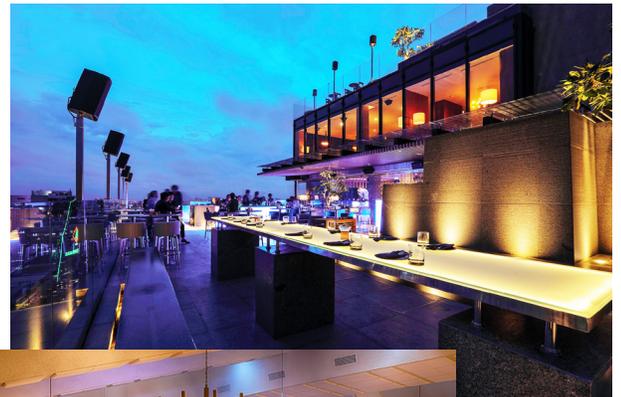
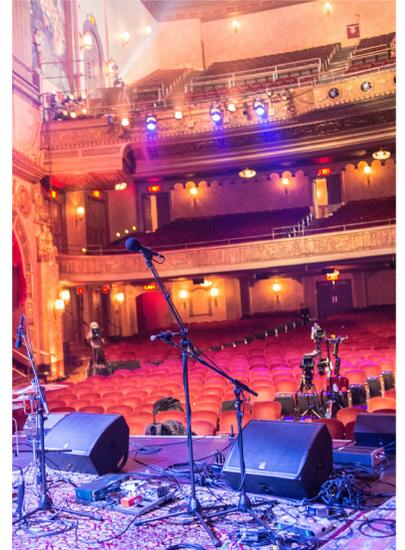
Compression Head™ Horn Architecture

Fulcrum Compression Head Horn Architecture allows for exceptional pattern control from AH Series LF horns while minimizing depth. In addition to the acoustical and size advantages, the Compression Head allows easy access to the AH drivers from the rear of the loudspeaker without needing to remove grilles.

Oculus Phase Plugs™

Our Oculus Phase Plugs provide optimum loading of the AH Series woofers. Combined with the Compression Head and TQ, the AH Series LF horn's high frequency response is extended to meet the HF compression driver without needing an intermediate mid-frequency system.

For more information on Fulcrum Acoustic's proprietary technologies, including technical papers and patents, please visit our site's **Technologies** page.





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