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## PRESS INFORMATION

### Fulcrum Acoustic Launches Subcardioid Subwoofer Product Line

Rochester, NY & Whitinsville, MA ... Fulcrum Acoustic, creators of high-performance professional loudspeaker technologies, has launched its latest innovative, technology-driven product line: Cardioid Subwoofers. Fulcrum Cardioid Subwoofers are designed with patent-pending Passive Cardioid Technology™ to overcome the excessive rear low frequency (LF) radiation that is a major challenge of many loudspeakers.

Fulcrum's Passive Cardioid Technology, first introduced in their FL283 and FLS115 [line array](#) products, is now the basis for a line of Cardioid Subwoofers which includes CS118 18 inch and CS121 21 inch models.



Fulcrum's unique Cardioid Subwoofers eliminate excessive rear LF radiation without the extra cost, space requirements and inconvenience of active cardioid systems, with a single passive cardioid speaker doing the work of an active cardioid array. By achieving impressive LF directional control without additional amplifiers, drivers or signal processors in less than half the space required for active cardioid array systems, Fulcrum Cardioid Subwoofers allow for cardioid arrays in applications that might not otherwise have the budget or space to accommodate an active cardioid solution.

Fulcrum speakers' subcardioid behavior is produced by a meticulously conceived acoustical circuit which balances the position of the low frequency driver, the enclosure depth and volume, and specially constructed rear-mounted ports which include a calibrated resistive element. By opting for a subcardioid pattern as opposed to a pure, hyper or super cardioid pattern, the rear rejection increases when the modules are deployed in an array.

Fulcrum co-founder and lead product designer David Gunness explains, "Passive Cardioid Technology evolved from listening to our customers' needs and directing our efforts toward satisfying those needs. We see this technology as potentially game changing for the pro audio industry, and as something we will continue to develop into new applications going forward."

More information on Cardioid Subwoofers and Passive Cardioid Technology is available on the [Products](#) and [Technologies](#) pages of the Fulcrum Acoustic website.