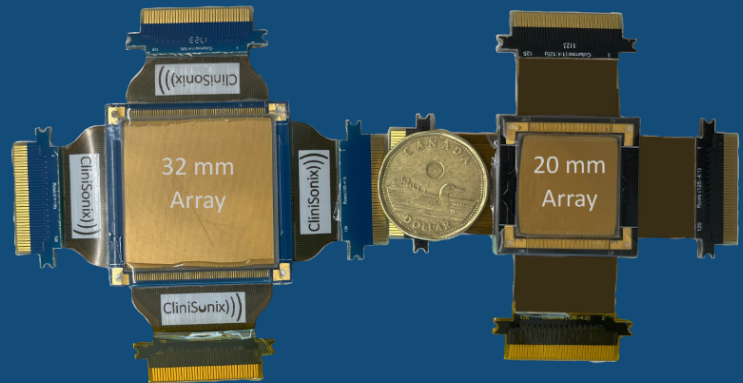
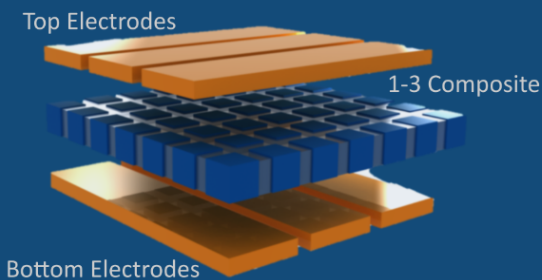


What We Do: CliniSonix develops and commercializes novel arrays and systems for automated 2D and 3D ultrasound imaging with quantum leap improvements in resolution, sensitivity, speed, intelligence, and breakthrough array form-factors compared to current array technology.

Our Business Model: Gain traction in the research ultrasound markets, building collaborations for clinical translation, while we aim for future disruptive clinical markets with massive scaling potential.

Our Technology: We make unprecedented large Top-Orthogonal-To-Bottom-Electrode (TOBE) arrays or Row-Column Arrays (RCAs) with bias-switchable electrostrictive material. TOBE arrays reduce the wiring complexity for a larger array. Our bias-switchable TOBE arrays offer improved SNR, resolution and ultrafast imaging.

Prototype 128x128 Arrays:

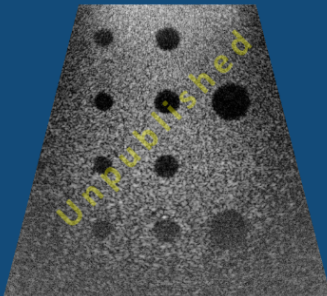


Our TOBE Arrays vs Commercial Probes:

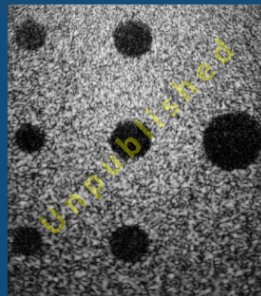
128x128 RCA: 6 MHz



Our TOBE: 7 MHz



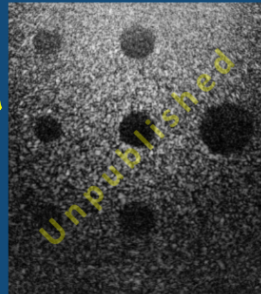
Our TOBE: 7 MHz



Our TOBE: 7 MHz



Our TOBE: 10 MHz



Commercial Probes

Matrix Probe: 7-2 MHz



Volume Probe: 13-5 MHz



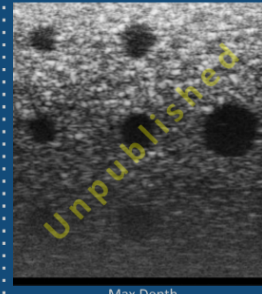
Matrix Probe: 7-2 MHz



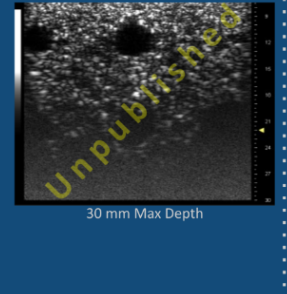
Volume Probe: 13-5 MHz



Linear Probe: 15 MHz



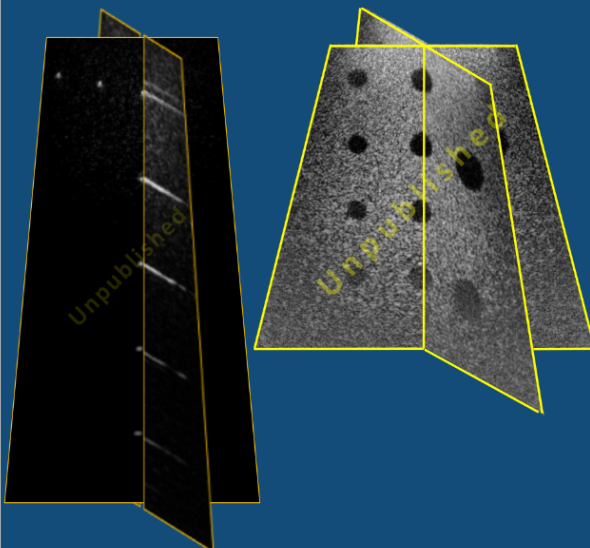
Linear Probe: 21 MHz



30 mm Max Depth

Max Depth

Our TOBE: 7 MHz Cross-Plane / 3D



CliniSonix))

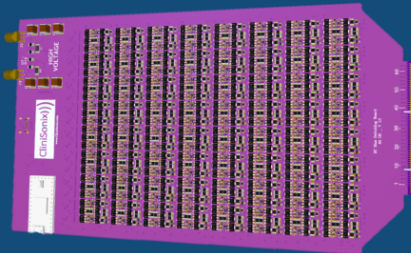
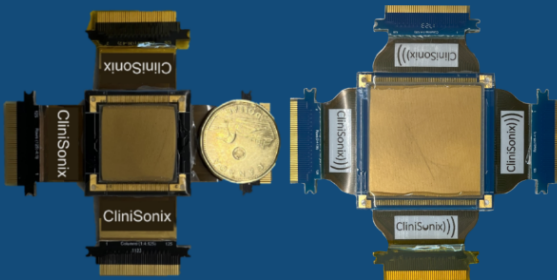
Ultrasound Reimagined

Our Products: We sell a transducer kit to researchers comprising:

Arrays :

Biasing Electronics :

Software Development Kit :



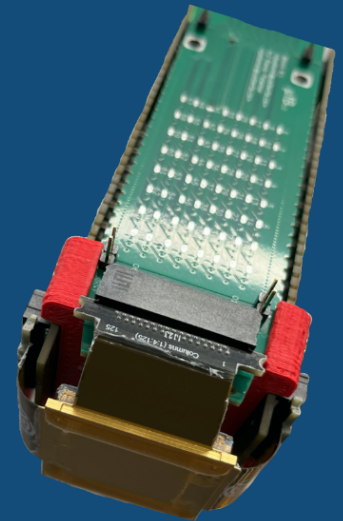
Our kit is meant to be used with a separate research ultrasound platform (not included) supporting channel acquisition capabilities.

Example Array Specifications:

Array Type	Electrostrictive Row-Column Array
Element Count	Currently up to 128x128. Future: Up to 256x256 or larger
Center Frequency	2-15MHz
Bandwidth	Typically ~50%
Pitch	Lambda
Kerf	Min 15 microns.
Packaging	Bare array or handheld probe (with bias-tees)

Biasing Electronics Specifications:

Number of Biasing Channels	64 channels per card, up to 1024 channels
Biasing Voltage	+/-250V, Ground, and High-Z states
Switching Speed	<300 microseconds with typical loading conditions
Interface	USB-C
Power Supply	Included
Supply Voltage	120V AC or 220V AC



Software Development Kit Specifications:

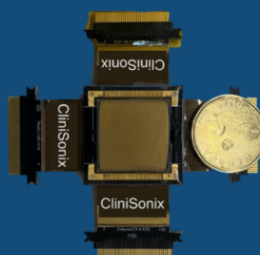
	Notes	
Biasing Electronics Control Library	USB-C Communication Matlab and C/C++ Libraries Available	In-kind contribution is available for collaboration option with research agreement. No-strings attached only with purchase option .
Example Scripts	FORCES, uFORCES, Row-Column Imaging, Power Doppler. Compatible with Verasonics Vantage systems	
GPU Beamforming Library	GPU and host computer not included	

Example TOBE Arrays vs Commercial Matrix Probes:

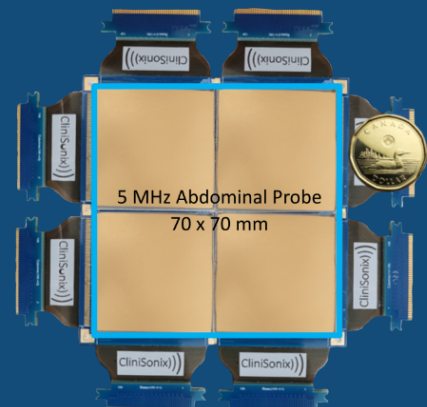
Current Probe Footprints:



Our 1st Generation TOBE Probe:
Similar Footprint
Better Resolution



Our Next Generation TOBE Probe:



For more information please visit: www.clinisonix.com