

# HIFUplex™ PLUS 1000

SMALL SUBJECTS

## HIFUPLEX PLUS 1000 PORTFOLIO FOR SMALL SUBJECTS

A Full Turnkey Ultrasound-Guided Solution to Advance  
your Biomedical Research in Focused Ultrasound



**SONIC**  
CONCEPTS

**Verasonics**<sup>®</sup>  
The leader in Research Ultrasound™

# HIFUPlex™

**PLUS 1000**

**SMALL SUBJECTS**

**TISSUE DESTRUCTION**

**DRUG DELIVERY**

**IMMUNOMODULATION**

**STEM CELL HONING**

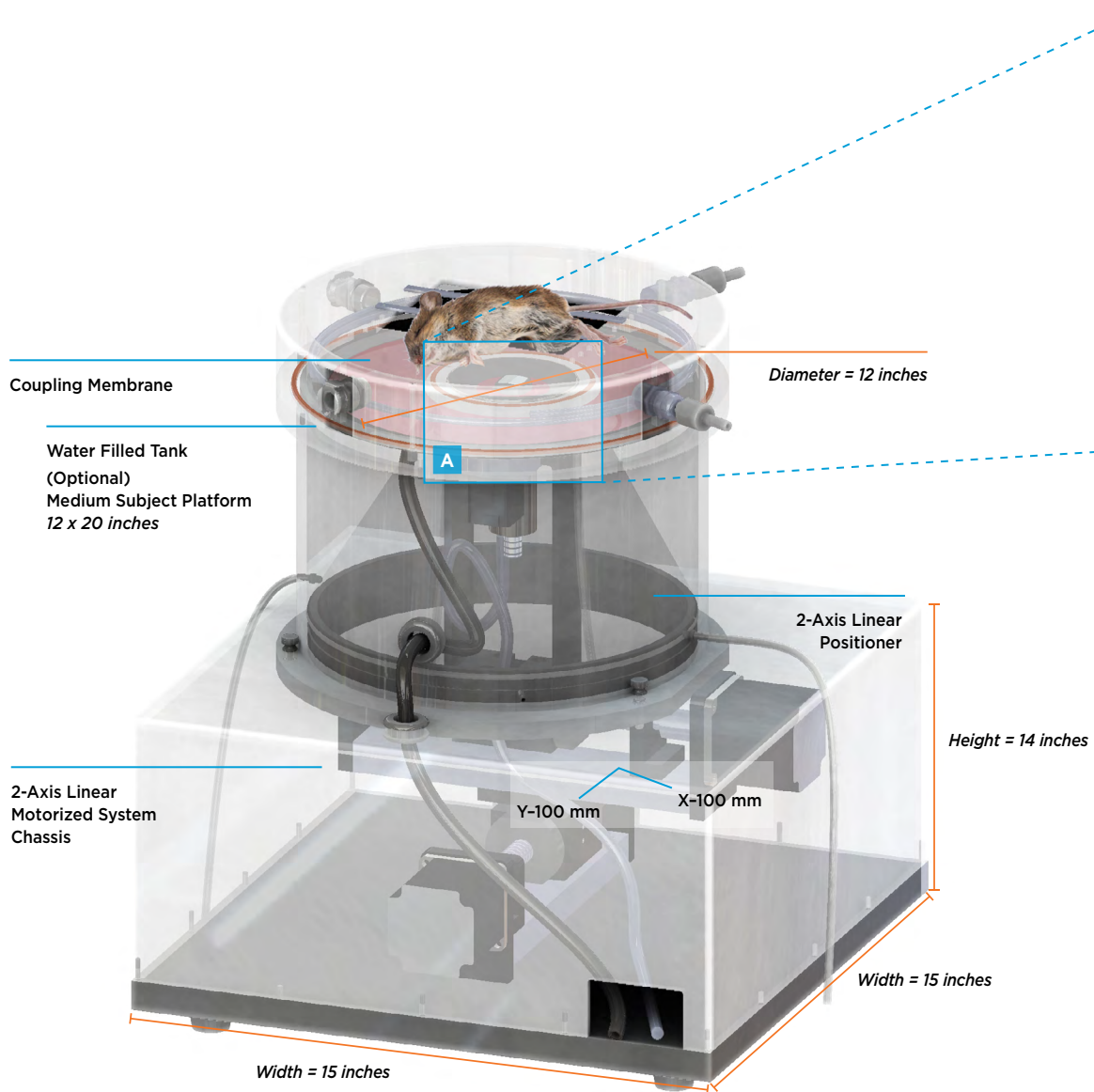
**MANY OTHERS...**

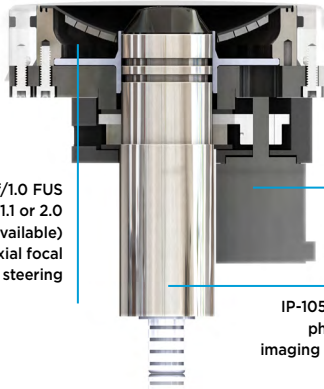
## What does HIFUPlex PLUS 1000 offer?

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- 1 Three standard ultrasound system and transducer configurations to meet a range of customer requirements, including variable depths and frequencies, for research and development
- 2 A benchtop platform with motorized positioning of the transducers for therapy planning and delivery
- 3 A graphical user interface (GUI) to control the positioning of the transducers and major parameters of FUS and imaging
- 4 An easy upgrade pathway from any Vantage System configuration and from certain HIFUPlex LT solutions from Sonic Concepts

### 03 HIFUPLEX PLUS 1000 PORTFOLIO FOR SMALL SUBJECTS





Ø64 mm f/1.0 FUS transducer (0.5, 1.1 or 2.0 MHz frequencies available) with 50 mm axial focal steering

Small Rotary Motion Apparatus allows 360-degree rotation of the IP-105 to obtain 2D slices of the 3D volume

IP-105 - 5.0 MHz phased array imaging transducer

**A**

**HIFUPlex-01, -02 & -03 provide 1D therapeutic focusing on small animals under ultrasound guidance.**



**Vantage 64 LE / 128 / 256 HIFU Configuration**

HIFU External Power Supply

Verasonics Host Controller

**Vantage HIFUPlex PLUS GUI**

**A full-screen graphical user interface for visualization & control of USgFUS workflow**

B-Mode, Doppler, Harmonic imaging modes

Control Rotary Motion of Imaging Plane

Control movement of the transducers using the Benchtop Platform

Interleaving scripts that control the major parameters of FUS and imaging

3D treatment planning & delivery

Thermal strain imaging for treatment monitoring

Experimental data capture & recall



**Water Conditioning Unit**

Degasser & Heater for In-Line Temperature Control

*\*Cart and monitor not included. For illustration only.*

## 04 HIFUPLEX PLUS 1000 KEY DESIGN SPECIFICATIONS

HIFUPlex Transducer Bundles	-01	-02	-03
<b>Includes</b>	FUS Array Imaging Array Cone & Target	FUS Array Imaging Array Cone & Target	FUS Array Imaging Array Cone & Target
<b>FUS Array</b>			
Frequency (MHz)	0.5	1.1	2.0
Type	Annular Array	Annular Array	Annular Array
Axial Steering	50mm	50mm	50mm
<b>Imaging Array</b>			
Type	Phased Array	Phased Array	Phased Array
Frequency (MHz)	5.0	5.0	5.0
# of Elements	64	64	64
<b>Compatibility</b>	Vantage 64 LE, 128 & 256 HIFU	Vantage 64 LE, 128 & 256 HIFU	Vantage 64 LE, 128 & 256 HIFU

## 05 VERASONICS + SONIC CONCEPTS



Verasonics, Inc. is a privately held company founded in 2001, with headquarters in Kirkland, Washington, USA. As the leader in research ultrasound, Verasonics is focused on providing researchers and developers with the most advanced and flexible tools enabling them to develop new algorithms and products used in biomedical ultrasound, materials science, earth sciences, and the physics of acoustics and ultrasonics. Verasonics also licenses its technology to companies for use in their commercial products. Verasonics has customers located in 34 countries across North and South America, Europe, Asia and Australia.



Sonic Concepts, Inc. founded in 1986 in Bothell, Washington delivers premium ultrasonic systems to biomedical, industrial, marine, and research markets. They specialize in designing and manufacturing High Intensity Focused Ultrasound (HIFU) transducers, electronics and software. Their systems are installed in leading corporate and academic research labs around the globe.



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