

# MEDICAL ULTRASOUND MODULES

## *Imaging Probe Core*

- Based on an innovative CMUT technology for a sensitive, compact, and low-power consumption probe
- Modules available with built-in amplifiers & HV pulsers, for optimum integration and performance
- Linear and phased array offerings
- Support multiple imaging modes (B-mode and M-mode)



## Applications

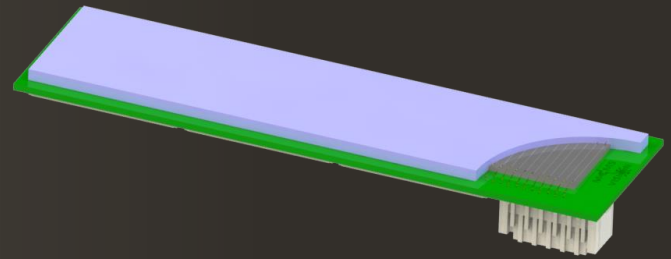
- Point-of-care, handheld ultrasound probes
- Cart-based ultrasound probes

**INNOVATING SENSORS**

**FOR A BETTER WORLD!**

## Modules MVUM1000 Medical Ultrasound

The MVUM1000 stands out as a 256-element linear ultrasound array for medical imaging. It is unique in using capacitive ultrasound micromachined transducers (CMUT), allowing seamless integration with interface electronics. This innovative CMUT ensures not only low power consumption but also high sensitivity to acoustic pressure, making it a valuable tool in medical imaging.



Centre Frequency	3.5 MHz
Bandwidth	70 – 85%
Number of Elements	Up to 256
Element Pitch	0.22 mm
Elevation Aperture	10 mm
HV Pulsers	Up to 50V
Bias DC Input	Up to 50V

\* Passive transducers and customizations are available. Talk to us!

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### **GENERAL ENQUIRIES**

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## **ABOUT MEMS VISION**

Headquartered in Montreal, Canada, with offices around the world, MEMS Vision capitalizes on a strong portfolio of patents and intellectual property on MEMS and ASICs (integrated circuits), and a team of highly qualified personnel, to offer hardware and software smart sensing solutions to its customers and partners serving the Industrial, Automotive, Medical, and Consumer markets. Our products include sensors for humidity, temperature, absolute pressure, particulate matter, differential pressure, as well as ultrasonic sensors.

Our expertise in developing and manufacturing smart sensors, based on our proprietary MEMS, ASICs, and calibration technologies, enables us to deliver sensor solutions with very low power consumption, very small form factor, and a world-class performance, all at competitive pricing.