MEMS Vision
YOUR SMART SENSORS EXPERTS

Medical Ultrasound Modules MVUM1000

- Sensitive, compact, and low-power consumption capacitive micromachined ultrasound transducers (CMUT)
- Linear and phased array transducers are available
- Support multiple imaging modes (time-of-flight / doppler)
- Available with integrated front-end electronics, for higher levels of integration and performance

Applications:

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

The Infinite Possibilities of the Infinitely Small ™

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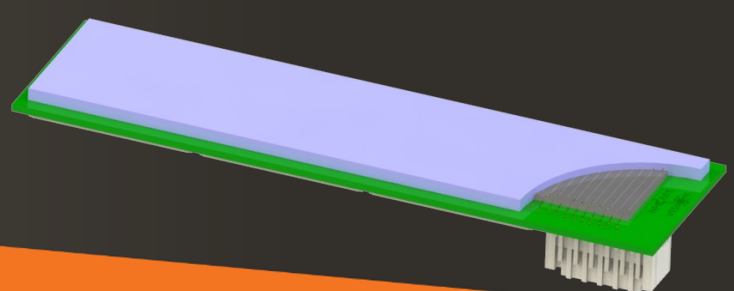
Medical Ultrasound Modules

The MVUM1000 is a 256-element linear ultrasound array for medical imaging. The array is built using capacitive ultrasound micromachined transducers (CMUT) that enable high integrability with interface electronics. Also, the capacitive transduction mechanism ensures low-power consumption, as well as high sensitivity to acoustic pressure.

** Customization is available. Talk to us!*

† For a passive transducer (no ASIC

Centre Frequency	4.5 MHz
Bandwidth	60 – 85%
Number of Elements	Up to 256
Element Pitch	0.22 mm
Elevation Focus	60 mm
Elevation Aperture	9 mm
AC Voltage †	Up to 60V
Bias DC Input †	Up to 120V



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ABOUT MEMS VISION

Headquartered in Montreal, Canada, with offices around the world, MEMS VISION INTL. 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 Consumer, Industrial, Medical, and Automotive markets. Our products include sensors for humidity, temperature, absolute pressure, differential pressure, particulate matter, 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.