Vevo® MD
The World’s First Ultra High Frequency Ultrasound Imaging System

Designed for Clinical Research
Up to 70 MHZ
The wait is over

After years of developing ultrasound systems for research, FUJIFILM VisualSonics is pleased to introduce the world’s first Ultra High-Frequency ultrasound system for clinical use.

Vevo MD allows healthcare professionals to:

- **Visualize tiny anatomy not visible with conventional ultrasound**
- **Champion new medical breakthroughs by using cutting edge technology**
- **Experience a user-friendly customizable touchscreen interface, to improve workflow and reduce examination times**
- **Utilize a range of highly advanced transducers, designed for the smallest of patients**

Ultra high frequency means the highest resolution diagnostic ultrasound available today. This groundbreaking development opens up new possibilities for medical imaging that have never been seen before. Whether imaging tiny infants in the neonatal ward, detecting the tiniest of suspicious lesions or monitoring the subtle changes in blood flow in the major arteries of the body, the Vevo MD produces unparalleled image resolution. Resolution as fine as 30 µm. Yes, 30 µm. That is less than half the size of a grain of sand.

Imagine the potential of such ground-breaking technology and its impact on the medical field to see what has never been seen before. When it comes to patient care and uncovering the smallest and most detailed information, the Vevo MD is the most revolutionary ultrasound technology to come along in decades. FUJIFILM VisualSonics designed this latest system because we care, because we can, and simply because...Seeing More Matters.

“Every healthcare professional should have the opportunity to experience the exquisite resolution of the Vevo MD, simply because Seeing More Matters.”
Discover the power of high resolution

1 mm

Visualize the first 3 cm in the highest resolution available

Now see more than ever before

VEVO MD UHF TRANSDUCERS
The UHF Series Transducers are designed specifically for use with the Vevo MD with ergonomics and ease-of-use in mind. These transducers come in a range of frequencies from 22-70 MHz.

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*Please note: Values of resolution are specific to the physical characteristics of the transducers and represent best case values. Depending on exam type, integration of the UHF transducers with the Vevo MD system may use different transmit conditions to find a compromise between resolution and depth of field. In these cases the resolution values may be up to 50% higher than what is shown here.*
When it comes to ultrasound, not all systems are created equal. The Vevo MD stands apart from the rest, especially for the smallest of patients. Small patients require small transducers with great resolution. The Vevo MD is designed to see the smallest of patients in the greatest detail and resolution possible. Imagine the challenges faced when imaging a high risk premature newborn infant; trying to visualize tiny vessels and structures in their body. For example, in a Neonatal Intensive Care Unit (NICU) a doctor may try to perform a line insertion into a critically ill premature newborn. This involves finding a blood vessel in a baby with a wrist that is the size of your pinky finger. Only the Vevo MD can perform the proper visualization in this scenario within the critical time window that is required.


Radial Artery—8 months
Lymph Node—8 months
Gall Bladder—1 month
Spinal Cord—1 month
Abdominal Wall
Esophagus (Sagittal)—8 months

Using conventional ultrasound
Using Vevo MD

Seeing more matters in Neonatology and Pediatrics
The Vevo MD was designed specifically with vascular applications in mind. The ultra high frequency resolution allows for visualization of the smallest vascular anatomy imaginable:

- Arteries and veins in pediatric and neonatal patients
- Sub-millimeter measurement of Intima-Media Thickness (IMT) for research and assessment of cardiovascular health
- Assessment of vein wall morphology for cannulation readiness in AV fistula patients
- Assessment of peripheral vessels in diabetes and other circulatory conditions
- Visualization of flow patterns in atherosclerotic or abnormal vessels

### Vascular

Musculoskeletal (MSK) imaging involves study of the many superficial targets in the hands, wrists, feet, knees, hips, arms and shoulder regions. Many of these areas are within the first 3 cm of the skin surface and are ideal targets for ultra high frequency ultrasound. The Vevo MD can provide unparalleled image resolution in the following MSK applications:

- Detection and monitoring of Inflammatory Arthritis through better definition of synovium and cartilage of the finger and wrist joints
- Differentiation of normal vs. inflamed tendons (Tenosynovitis)
- The "Anatomical Snuffbox"
- Carpal and Tarsal Tunnel Syndrome
- Assessment of Tendons and Pulleys
- Assessment of Pediatric Hip Dysplasia

### Dermatology

Imaging the skin layer is often difficult with conventional ultrasound. The Vevo MD is the world’s first system designed specifically for imaging superficial anatomy and is ideally suited to image the following dermatological applications:

- Skin layers
- Melanoma
- Lipomas
- Hair follicles (hair loss)
- Foreign Body Identification
- Lumps and Bumps

### Small parts

Small anatomy requires high resolution to be properly visualized. The Vevo MD can be used to image:

- Nerves
- Hand transplants
- Thyroid and glands
- Lymph nodes
- Male reproductive organs

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Customized workflow—at your fingertips

Intuitive start-up screen to get you imaging quickly

The most important functions are intuitive to use and accessible on your screen at all times

Controls contain smart defaults to help optimize your image quickly

Screen layouts can be customized and saved to fit your personal workflow so you only see the controls that are the most important to you

Measurements and annotations are quick and easy to use and can be made on current or saved images

Images are presented in a straightforward scrollable thumbnail view to enable management and review

Context sensitive help shows you exactly what you need to know, when you need to know it

Summary

“Through bold innovation, we empower those dedicated to the advancement of human health.”

Timeline of technology innovation

At FUJIFILM VisualSonics, we continuously develop and deliver increasingly advanced technologies designed specifically with the researcher in mind. We are motivated to provide researchers and clinicians the right tools so that you may one day be able to bring to humanity the next medical breakthrough. Our sole purpose is to empower you to take your discoveries out of the lab and ultimately to the patients that need them the most.

With the launch of Vevo MD and together with you, we are bringing discoveries to patients.

Vevo Support

The Vevo MD Ultra High-Frequency Imaging System is accompanied by an integrated approach to service and support.

Applications Support and Training
Customized to Your Needs
• Customer On-site Training
• Workshops
• User Manuals

Online Resources
• Live Webinars
• Imaging Guides and Videos
• Grant Support Program

Technical Support
• On-site Support
• Online Support

For additional resources, support or service requests, visit our website:

visualsonics.com
"The Vevo MD is a unique machine allowing imaging of very small, superficial structures previously invisible to conventional ultrasound. As a Pediatric Anesthesiologist it has been extremely useful for peripheral and central vascular access. It is also finding a niche in regional anesthesia, by allowing us to place peripheral nerve blocks in infants that would previously not have been attempted. With the Vevo MD we are able to safely and precisely perform transversus abdominis plane and ilioinguinal blocks in infants.

I believe that this era of ultra high frequency ultrasound imaging is just beginning and I think there are many more clinical applications as yet undiscovered."

- Dr Daniel Low, Assistant Professor, Dept. of Anesthesiology and Pain, Seattle Children’s Hospital, USA