ContextVision

Rivent™ series

ULTRASOUND 2D/3D/4D

Trusted in more than 400,000 systems worldwide

# **At the forefront** of ultrasound imaging

ContextVision gives manufacturers of ultrasound equipment world-leading image quality while providing clinicians with the greatest diagnostic confidence. Discover our portfolio for 2D/3D/4D ultrasound – based on the latest advances in image enhancement, and designed for both manufacturers and end users.
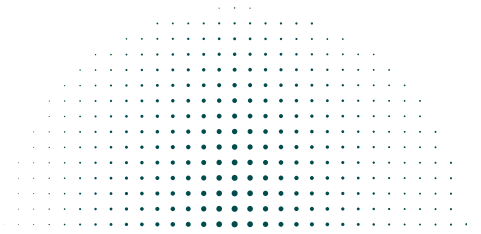
THYROID
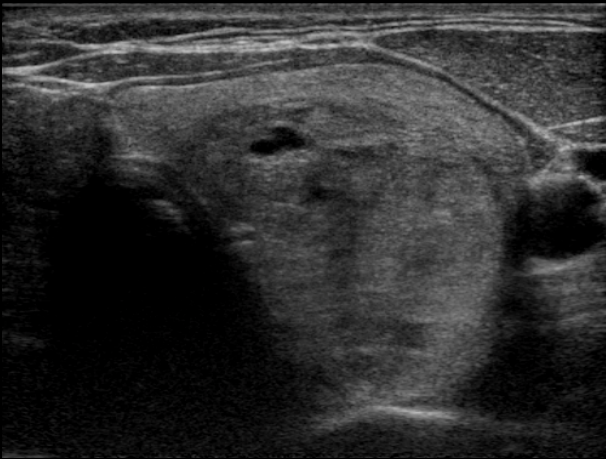
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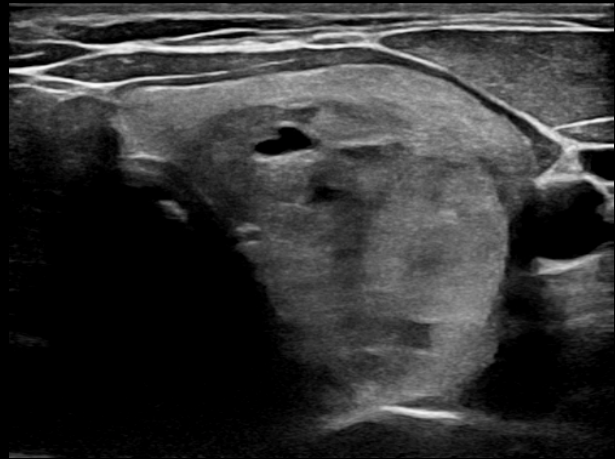
PROCESSED WITH RIVENT™

All of our ultrasound products provide reliable, adaptive image enhancement in real time, thanks to highly intelligent algorithms that analyze every pixel/voxel in its context, frame by frame. These algorithms draw on the latest technology to distinguish and enhance true clinical information, while simultaneously suppressing noise and other artifacts. The results? Unrivaled image quality, powerful performance – and maximum diagnostic confidence.

Designed for seamless integration with all types of ultrasound systems and applications – as well as easy customization to individual preferences – each product allows for superior flexibility and a tailored user experience.

ContextVision offers you a leading position in ultrasound, through continuous development and innovative technology – today and tomorrow.

Rivent™ series

Rivent™
Rivent™ Plus

Image processing for 2D ultrasound

Unparalleled image quality, maximum flexibility

Addressing increasing demands for stronger processing with high detail preservation, Rivent provides maximum flexibility for customization to all preferences. Rivent Plus goes above and beyond what a great ultrasound image can be.

Designed for all systems and applications

Rivent brings unparalleled image quality to all types of ultrasound systems, and is designed to meet the needs of all clinical application areas.
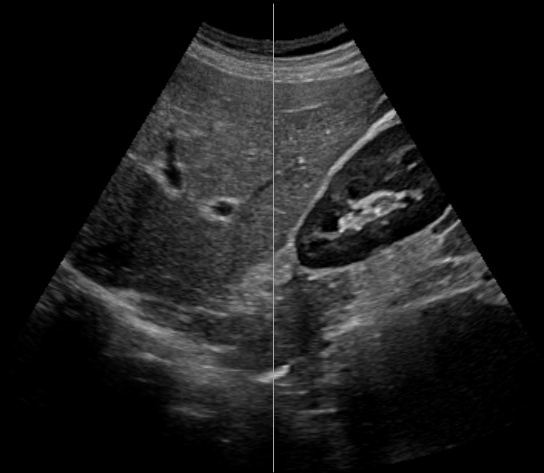
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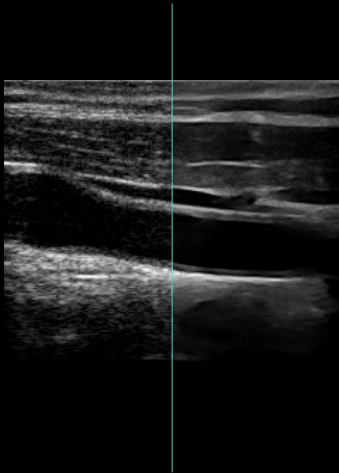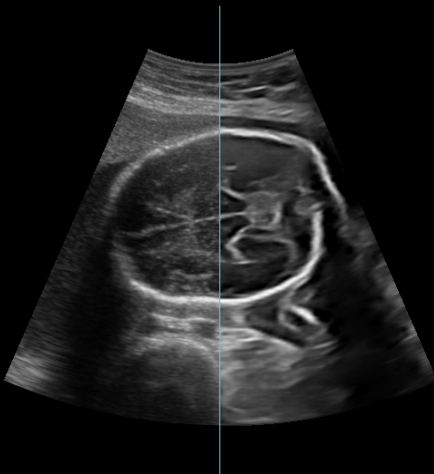

UNPROCESSED   PROCESSED

LIVER

UNPROCESSED   PROCESSED
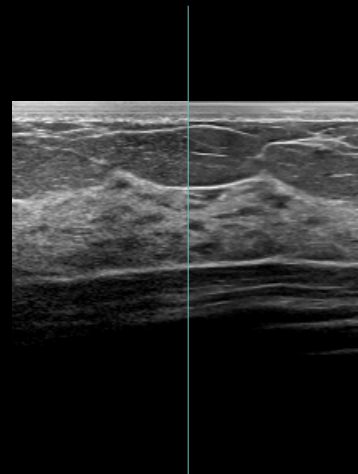
FETAL HEAD

UNPROCESSED   PROCESSED

BREAST

UNPROCESSED   PROCESSED

Maximum flexibility for all preferences

Our products are highly customizable. The processing can be adapted to different systems and individual customer requirements.
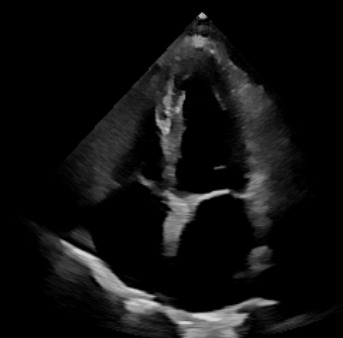
PANCREAS

UNPROCESSED   **EXAMPLES OF PROCESSING**

HEART

UNPROCESSED   **EXAMPLES OF PROCESSING**

FEATURES & BENEFITS

- **Highly efficient noise reduction enabling smooth, homogenous tissue with enhanced contrast and detail resolution**
- **Clear tissue differentiation**
- **Great depth perception**
- **Reliable black areas**
- **"MRI look"**
  (Rivent Plus exclusive)
- **Compensation for vertical information loss**
  (Rivent Plus exclusive)
- **Advanced line and edge enhancement**
  (Rivent Plus exclusive)

API FUNCTIONS

- **Automatic adaption to varying resolution, e.g. line density or acoustic zoom**
- **Optimized image quality in near and far field simultaneously**

PLATFORMS

- **Available on CPU and GPU**
- **Supported platforms: Windows and Linux**

Rivent™

→ **Powerful processing while maintaining tissue information**

→ **Unparalleled noise supression**

→ **Customizable for all systems, applications and image preferences**

Rivent™ Plus

→ **All the benefits of Rivent**

→ **Extra crisp images with high spatial resolution**

→ **Tissue smoothing with outstanding detail preservation**

→ **Signature "MRI look"**

Rivent™ series

Rivent™ Mobile

Image processing for handheld ultrasound

A tailored handheld experience

Rivent Mobile builds on our broad experience in enhancing ultrasound image quality and deeply investigating the mobile diagnostics market. Our solution has features tailored to the handheld units and their users' needs, resulting in excellent image quality.

FEATURES & BENEFITS

- **State-of-the-art image enhancement for handheld ultrasound**
- **Powerful noise suppression**
- **Enhanced contrast and detail resolution**
- **Optimized image quality in near and far field simultaneously**

PLATFORMS

- **Supported on iOS/Android/ Windows platforms**

Rivent™ Mobile

→ **Support for all major mobile platforms**

→ **Optimal processing for mobile devices**

→ **Advanced noise reduction**
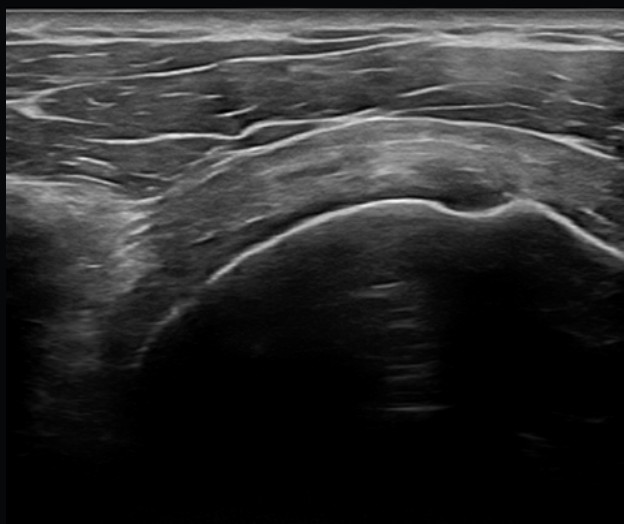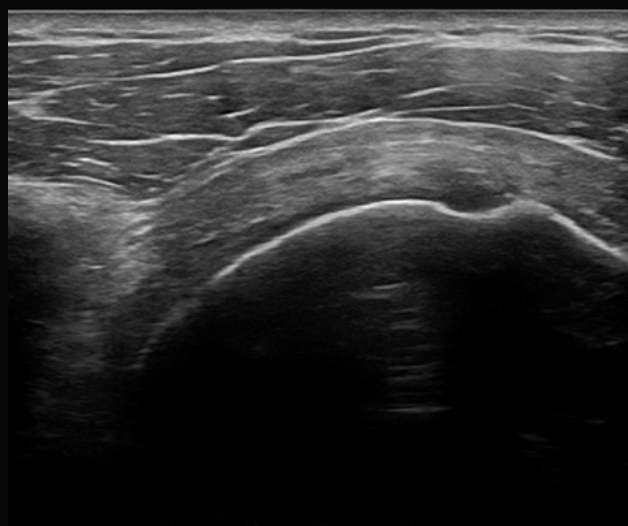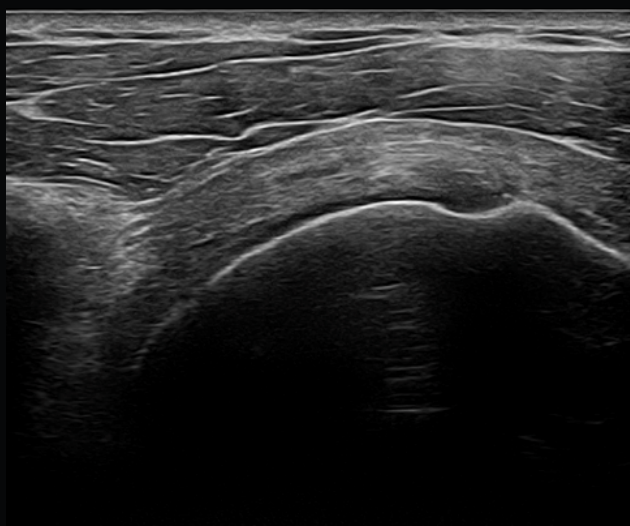
Rivent™ **series, add-on**

OEM Tuning Interface Rivent™

For ultimate flexibility

With OEM Tuning Interface Rivent we want to give our customers freedom to fine tune their images themselves. This tool ensures maximal customizability and can be used in combination with Rivent and Rivent Plus.

MSK

EXAMPLES OF PROCESSING WITH RIVENT™

Rivent™ series

Rivent™ 3D

Image processing for 3D/4D ultrasound

Clarity close to reality

Rivent 3D combines the benefits of volumetric processing with unique capabilities to process images powerfully while maintaining a natural appearance. By analyzing data in all dimensions, Rivent 3D takes image quality to a level beyond conventional 2D enhancement technology.

Optimized image quality resulting from
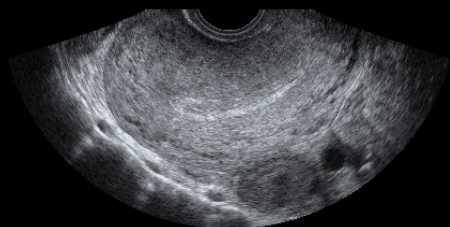a holistic approach on 3D image formation

UNPROCESSED

PROCESSED WITH RIVENT™ 3D
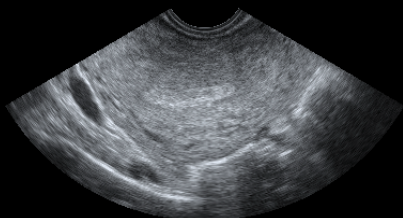
Superior visualization in every dimension by Rivent™ 3D

Intelligent noise reduction reveals "hidden" information by using data from all dimensions.
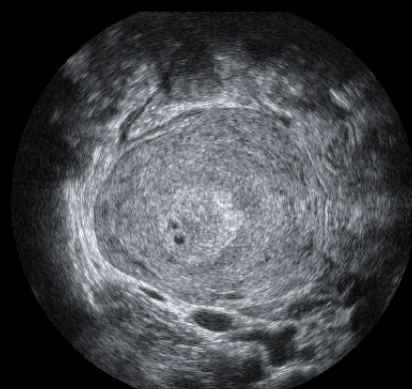
UTERUS

UNPROCESSED

PLANE A
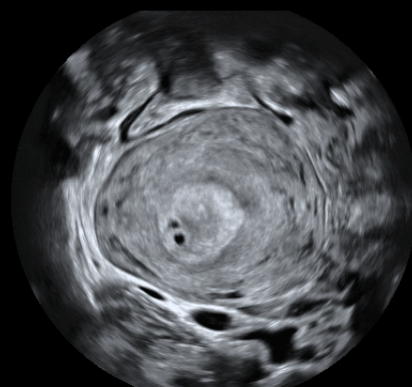
PLANE B

PLANE C

PROCESSED WITH RIVENT™ 3D

PLANE A

PLANE B

PLANE C

FEATURES & BENEFITS

- Full 3D contextual analysis of each voxel in real time
- Optimized image quality resulting from a holistic approach on 3D image formation
- Intelligent noise reduction reveals "hidden" information by using data from all dimensions
- Excellent edge and contrast enhancement
- Advanced homogeneity filtering
- Dedicated near and far field filtering
- Highly customizable for different rendering and visualization techniques
- High visibility in deep tissue
- Structures in all dimensions are clearly visible in arbitrary planes

PLATFORMS

- Available on GPU
- Supported platforms: Windows and Linux

Rivent™ 3D

→ High flexibility for optimization of rendered views and MPR

→ Powerful noise suppression with preserved detail

→ Robust processing consistency between images in the 3D volume
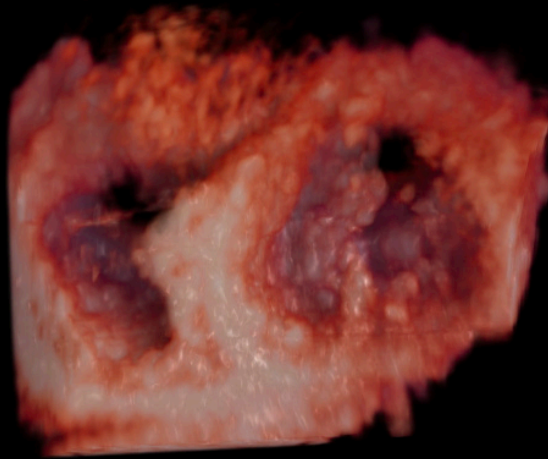
Rivent™ **series, add-on**
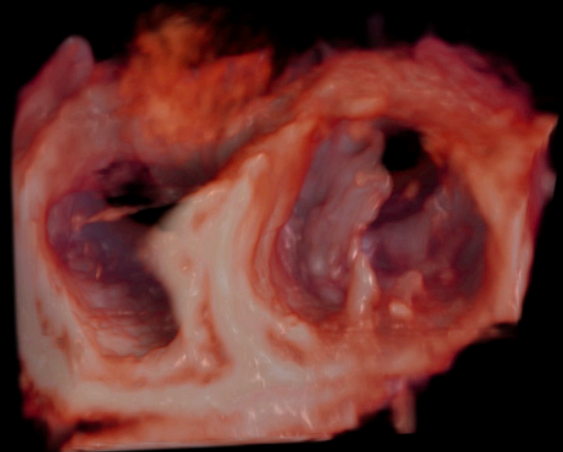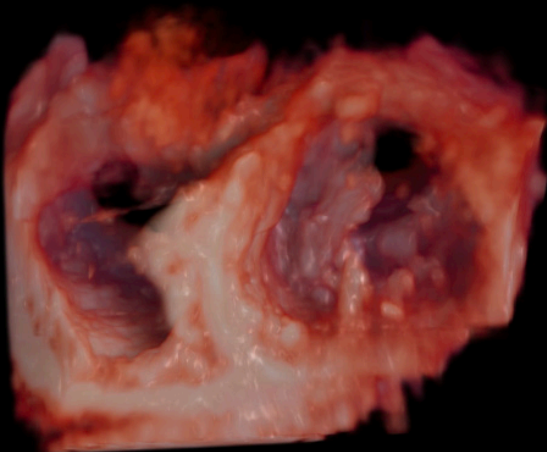
OEM Tuning Interface Rivent™ 3D

For extended customizability

OEM Tuning Interface Rivent 3D gives even more control over Rivent 3D to our customers. This tool can be used to adapt existing parameter files or create a completely new appearance.

HEART

UNPROCESSED

EXAMPLES OF RIVENT™ 3D PROCESSING

Building **strong** partnerships

We offer you almost 40 years of experience in medical imaging through state-of-the-art image enhancement software and professional support.

With a versatile and configurable design, ContextVision's products can be customized to all needs regarding clinical applications and customer preferences.

All ContextVision products are designed for seamless integration. The products are delivered as an SDK containing a .dll file together with parameter files (XML files). The parameter files control the settings of the image features of the algorithms.

With our continuous development and innovative technology, a partnership with ContextVision offers you a leading position in ultrasound – today and tomorrow.

Contact ContextVision for more information about the best solution for your needs and visit our website at www.contextvision.com.
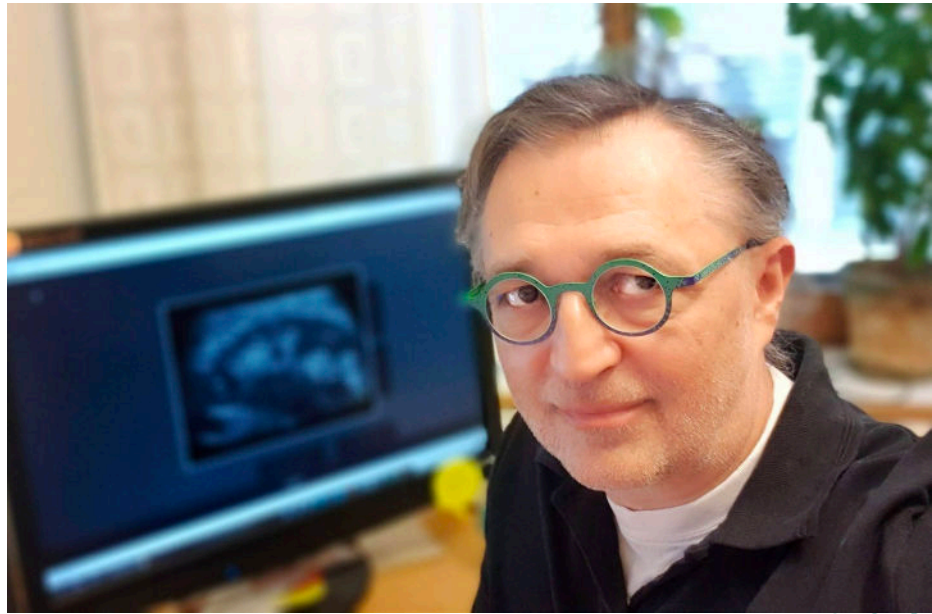
" Recent developments have brought many exciting features to ultrasound, but image quality is still in first place. Clear images facilitate routine exams and allow me to feel confident that I'm providing my patients with the best possible care.

Srecko Rijetkovic
Assistant professor, Karolinska Institutet
Stockholm, Sweden

Let's improve image quality –
together.

ContextVision

ContextVision is a medical technology software company specialized in image analysis and artificial intelligence. As the global market leader within image enhancement, we are a trusted partner to leading manufacturers of ultrasound, X-ray and MRI equipment around the world.

Our expertise is to develop powerful software products, based on proprietary technology and artificial intelligence for image-based applications. Our cutting-edge technology helps clinicians accurately interpret medical images, a crucial foundation for better diagnosis and treatment.

The company, established in 1983, is based in Sweden with local representation in the U.S., Japan, China and Korea. ContextVision is listed on the Oslo Stock Exchange under the ticker CONTX.

For more information, please visit www.contextvision.com ⟶