



FETAL BRAIN ORIGINAL



PROCESSED WITH US PLUSVIEW

QUICK FACTS

Ability to direct and focus image enhancement on specific features

A new dimension of adaptivity enables highly efficient noise suppression

Improved visualization of organ boundaries and texture

Ability to enhance images in the far field

## THE MODULAR SOLUTION TO ALL OF YOUR ULTRASOUND IMAGING NEEDS



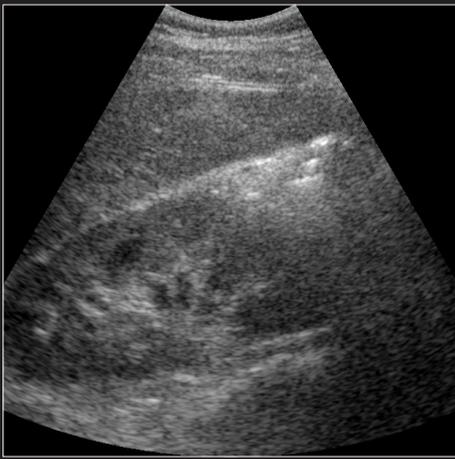
Contextvision presents the 3rd generation of ultrasound products designed to meet all of your image enhancement needs for your entire product line.

Your performance is guaranteed when you have the flexibility to allow your customers to select the degree of image enhancement that they want and need. Based on ContextVision's cutting edge GOP® technology, the US PLUSView Family offers a modular solution configurable to optimize image quality and performance. The US PLUSView Family enables directed, focused image enhancement of selected features and depths without affecting the overall enhancement of

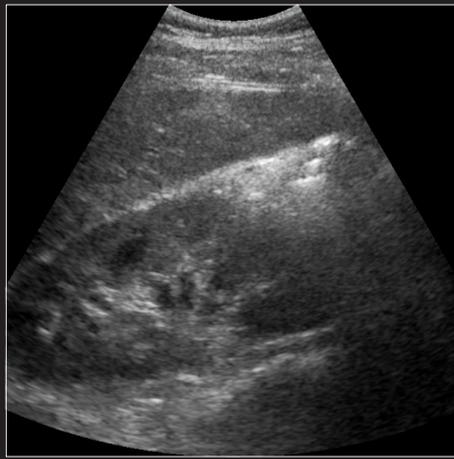
the image. This breakthrough technology is powered by the GOP and is enabled to run on standard CPUs and GPUs. Additionally, the Family comes with a tuning interface which allows the manufacturer to achieve the optimal image enhancement for their tastes and needs.

**“Now I can see details, better outlines and improved texture. This is the standard of tomorrow.”**

PROF. ANDERS SELBING  
KAROLINSKA UNIVERSITY HOSPITAL,  
STOCKHOLM



ORIGINAL



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#### KIDNEY

High resolution noise reduction. Note how the capsule of the kidney is highlighted and details are brought forth.



ORIGINAL



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#### LIVER

High resolution noise reduction. With strong speckle reduction and excellent edge and contrast enhancement.

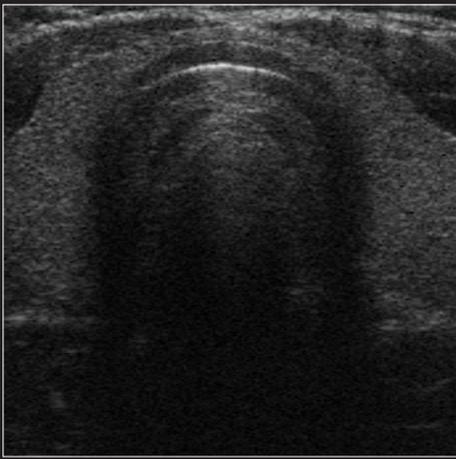
## US PLUSView™ Family



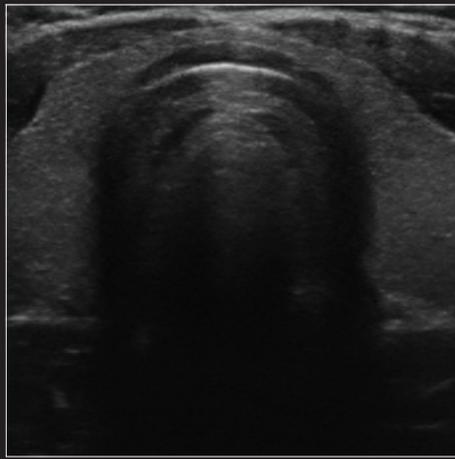
US PLUSView is the third generation of ultrasound solutions from ContextVision. The product is founded on the highly appreciated GOP algorithm, which is adaptive and mimics the human visual system in its method of finding image structures. The algorithm distinguishes between true information and artifacts such as noise and speckle. With US PLUSView, the GOP algorithm is even more sophisticated, which allows for high resolution noise and speckle reduction, greater edge definition and contrast, along with good tissue homogeneity.

In addition to the adaptive GOP algorithm, a new module – the Adaptive Motion Control – offers even stronger speckle reduction in combination with greater margin continuity. This certifies good image quality all over the sequence without blurring effects that could otherwise occur as a side effect of temporal or spatial compounding.

The image quality delivered by US PLUSView harmonizes perfectly with GOPiCE US, the 3D/4D ultrasound product offered by ContextVision.



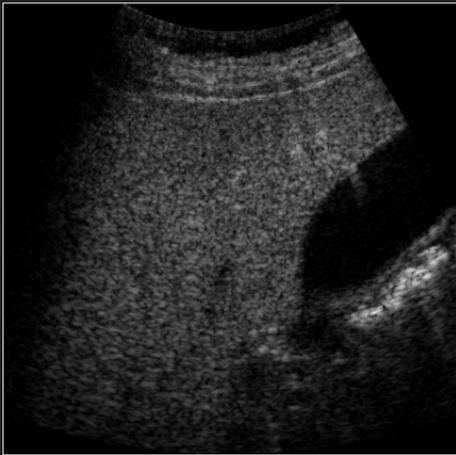
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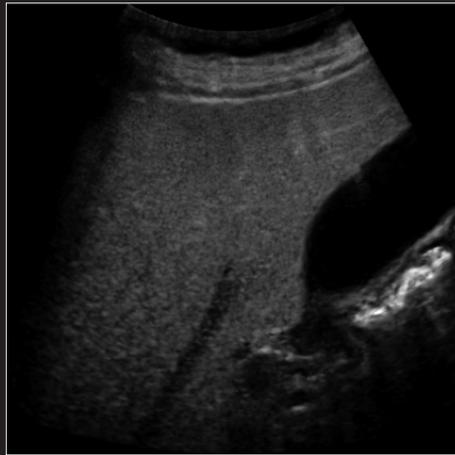
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#### THYROID

Efficient noise reduction with maintained edges and contrast enhancement.



ORIGINAL



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#### IMAGE

With DFE you are able to pinpoint and enhance specific structures in the image, in this case a blood vessel.

Moreover, US PLUSView enables directed, focused enhancement (DFE) which allows the user to target specific highlights or features in the image. Thus, the user may select anatomy specific settings within this module such as the gall bladder, the kidney, the liver or the fetal brain, and gain better enhancement targeted at the selected organ or site. DFE enables a new dimension of adaptivity.

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ContextVision's cutting edge GOP technology for medical image processing is widely used by leading medical companies all over the world as easily embedded software for imaging systems.

## US PLUSView™ Family SPECIFICATIONS



### Software development kit

US PLUSView includes a dynamic linkable CVIE library (.dll and a .h file), a console example program with source code and Application Programming Interface (API) documentation. Available on PC with Windows XP, Windows 7 and Linux (.so).

### Operation

The operation runs on images from memory to memory. An OEM external tuning Interface is included to allow for optimal imaging.

### Parameter adjustments

The operation can be customized with parameter files according to different usage scenarios. Parameters are read from files. Each parameter file might contain several filter settings from which the application can select.

In addition, the OEM can tune the parameter files more specifically using the supplied tuning interface to suit their particular tastes and needs. ContextVision's medical imaging application engineers provide support for tuning these parameters.

### Data formats

8 bits monochrome pixel data. Any image size (height or width) can be used.

### Performance

Real time performance on CPU. Performance may depend on the complexity of the image enhancement. With NVIDIA GTX 580 up to 250 frames/s.

### Licensing

Rainbow SafeNet Sentinel SuperPro USB dongle and/or Hardware ID.

### Technology base

ContextVision's proprietary adaptive algorithms are based on the GOP technology. All algorithm implementations are optimized for quality and speed without introducing any artifacts.

#### NOTE

ContextVision's quality management system is certified as conforming to the requirements of SS-EN ISO 13483:2003.

Since 1983, ContextVision has been a leading provider of image enhancement software to the global medical imaging industry, with the versatile GOP® technology at the core of all our imaging solutions. We play a key role in helping manufacturers by offering clinicians unparalleled diagnostic image quality, ultimately providing patients with better care. ContextVision continues to offer the latest software and expertise within ultrasound, x-ray, magnetic resonance imaging, mammography, fluoroscopy and computed tomography. Our groundbreaking technology and lengthy expertise have granted us a pioneer position within 2D/3D/4D image enhancement across multiple modalities.

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