

APOGEE 3800

Digital Color Doppler Ultrasound Imaging System

- Compound Imaging
- Tissue Harmonic Imaging
- Adaptive Speckle Reduction
- Panoramic Imaging
- Touch Screen Control



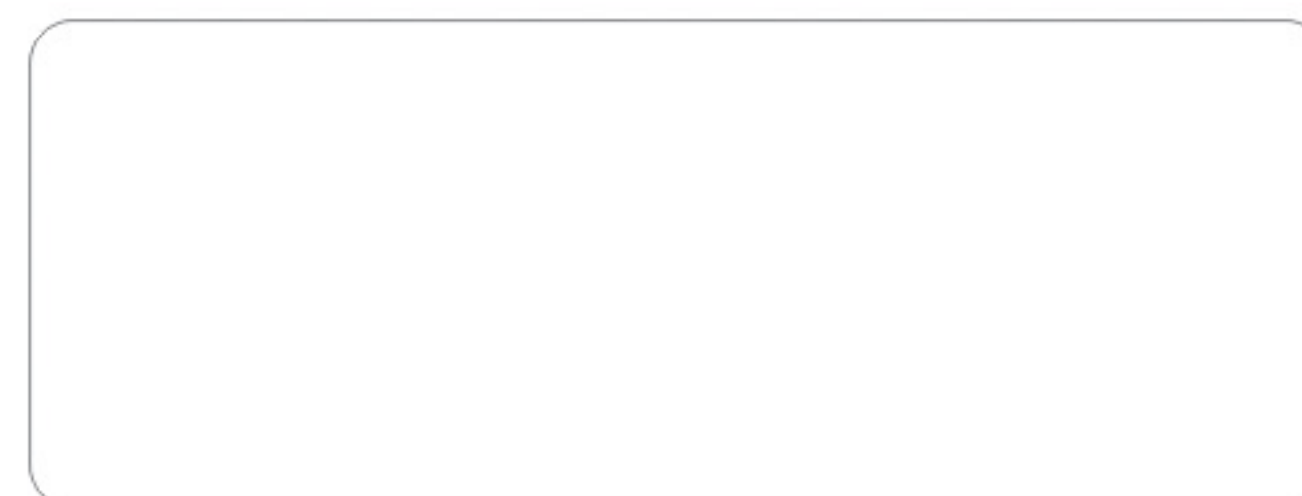
SIUI

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Specifications and appearance are subject to change without prior notice.
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APOGEE 3800 As good as you expect

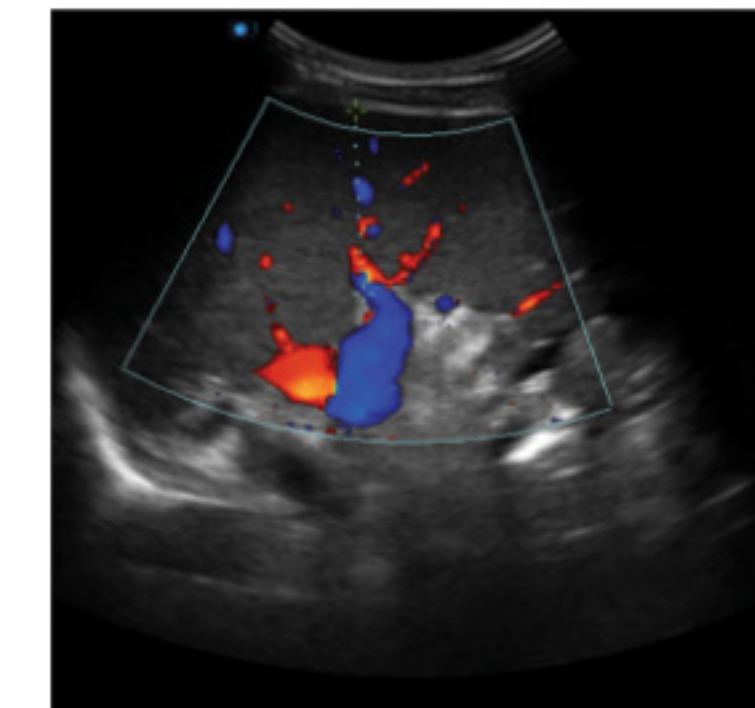
With over thirty years' experience in development and manufacture of ultrasonic imaging systems, SIUI is fully aware of the importance for ultrasound practitioner: imaging quality as clear as visualization, operation flow as smooth as possible. By adopting edge-cutting ultrasound imaging technologies, such as compound imaging, color speckle reduction, tissue harmonic imaging, adaptive speckle reduction, as well as comfortable and convenient operation flow, the Apogee 3800 provides all-in-one and functional clinical solutions for the practitioners.



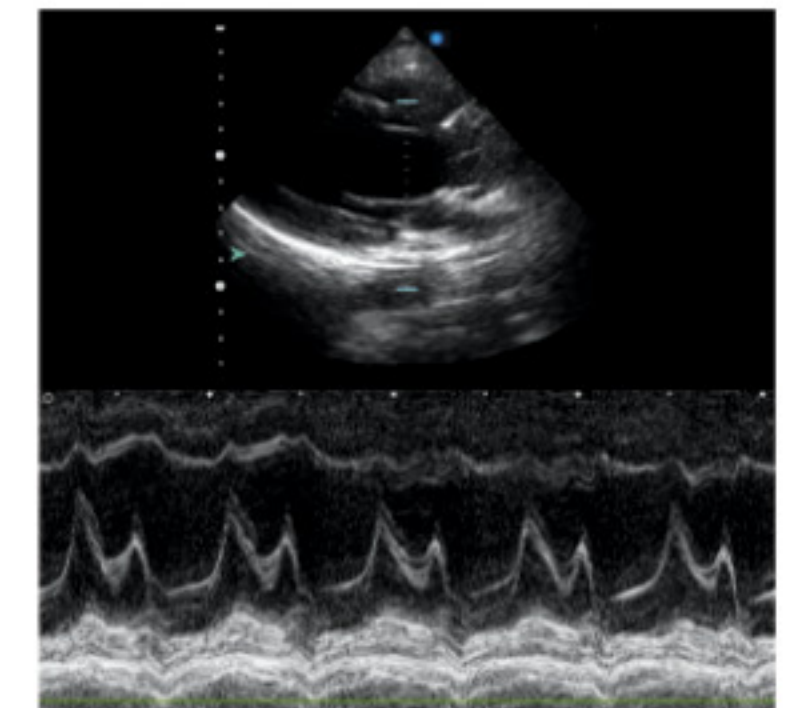
Benefiting from its leading ultrasound imaging technologies and brand-new probe design, the Apogee 3800 enables you to obtain clear images beyond your expectation. The application of numerous edge-cutting ultrasound imaging technologies greatly improves image quality, enabling ultrasound diagnosis as clear as visualization. The system is guaranteed to have extraordinary performance in examination and diagnosis for abdomen, vascular, breast, OB/GYN, superficial structure, musculoskeletal, urology, cardiology, pediatrics/neonates and small parts.



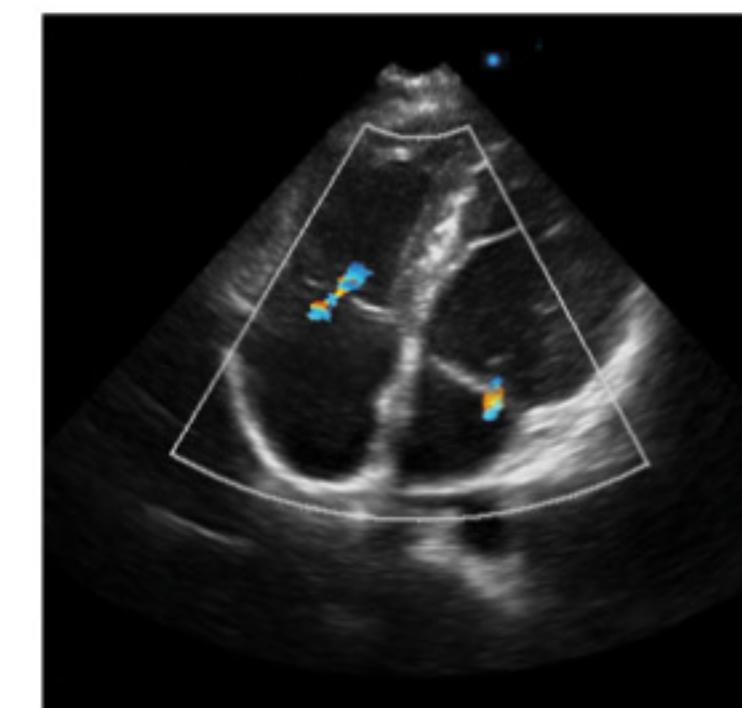
Fetal congenital heart malformation



Splenauze



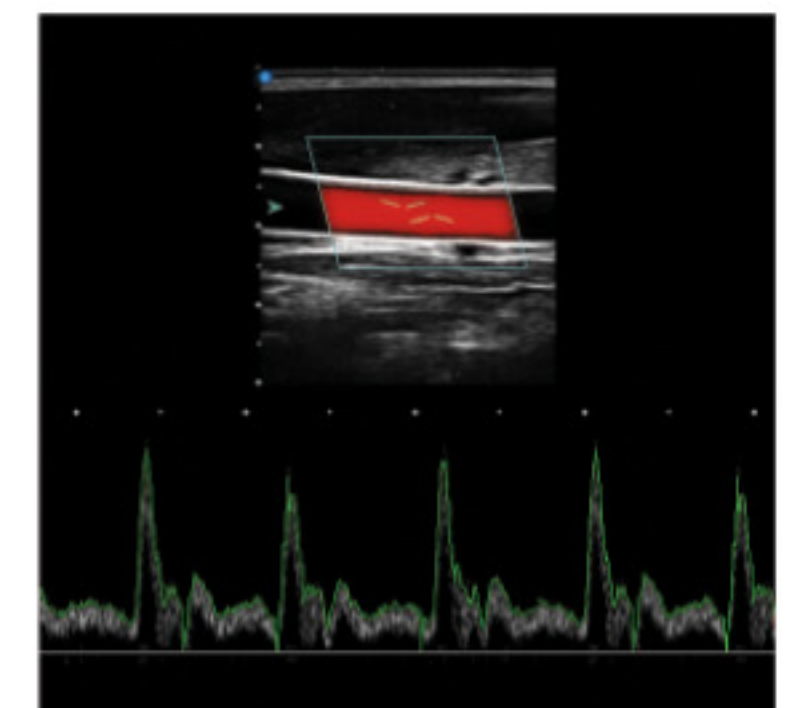
Cardiac M mode



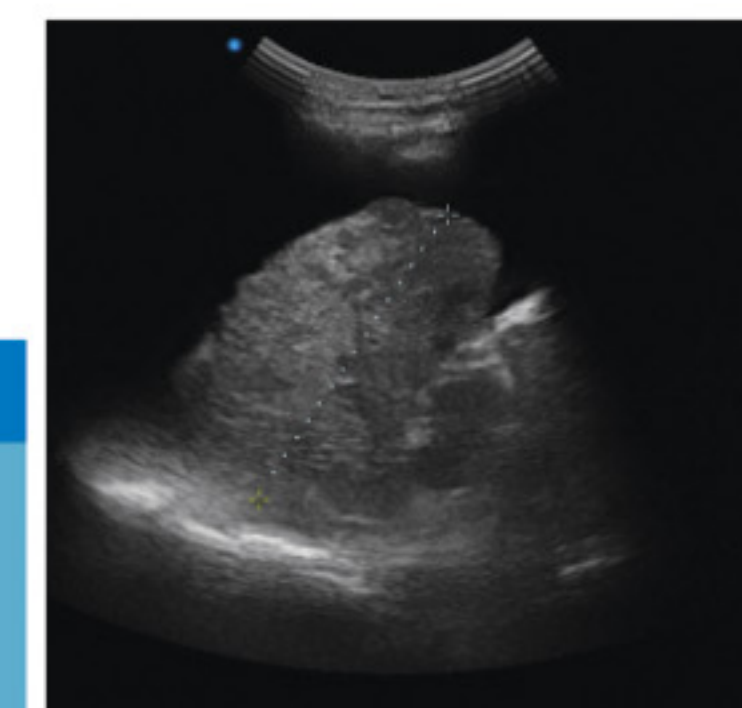
Four chambers



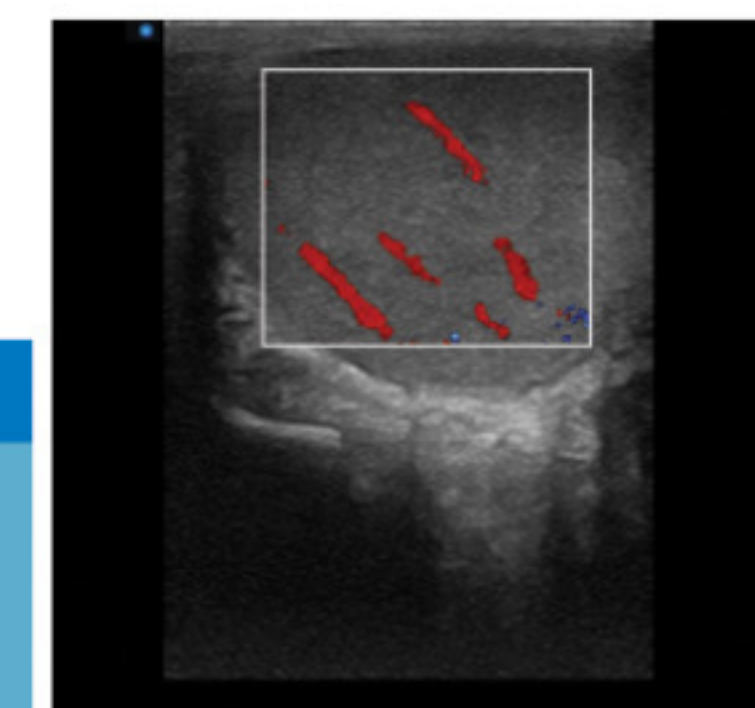
Fetal nose and lip



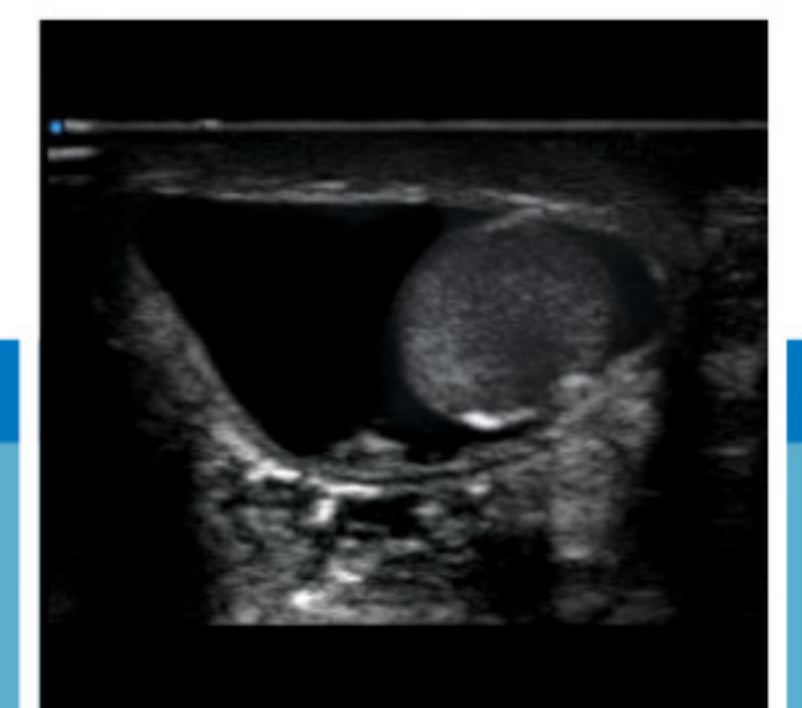
Spectrum envelope



Liver cirrhosis



Testis



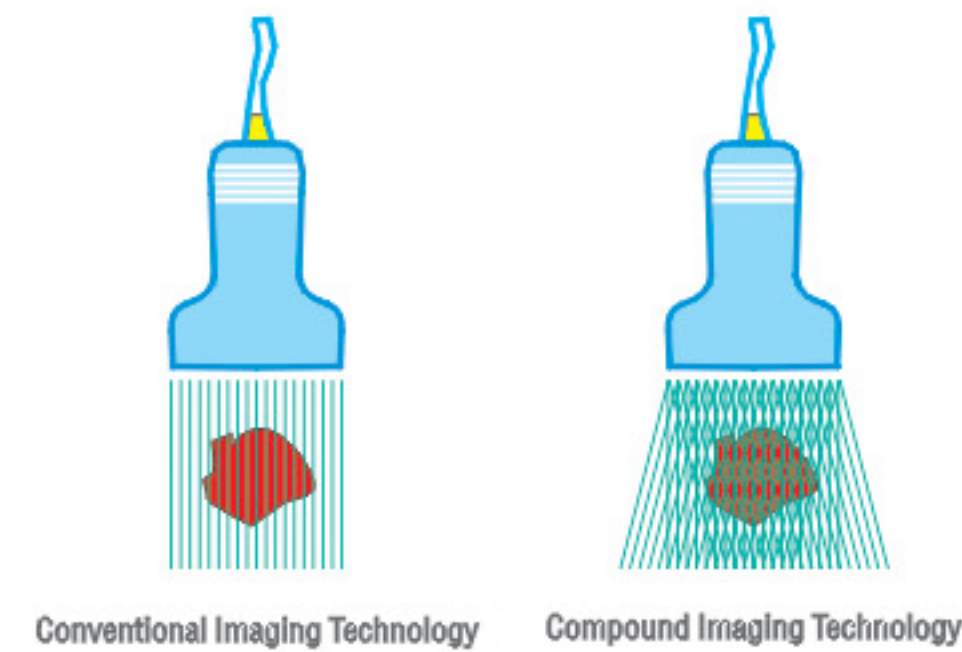
Hydrocele of tunica vaginalis

Cutting Edge Ultrasound Imaging Technology



Compound Imaging

Compound imaging is performed on the same imaging area after adopting real-time multi-angle scanning, so as to reduce speckle noise, clutter, and other ultrasound artifacts affecting image quality. It will significantly improve resolution, resulting in clearer display of tissue boundary composed of different densities, which is conducive to identifying subtle pathological changes in early stage, as well as reducing lateral acoustic shadow shading over tissues at the back.



Color Steering

Flow display usually tends to be insensitive when flow direction is perpendicular to ultrasound beams. The Color Steering function will improve flow sensitivity, with several steering angles for selection.

Adaptive Speckle Reduction

The system will automatically track, identify and intensify useful tissue-characteristic information. Meanwhile, noise is filtered to increase S/N ratio, enabling clearer tissue boundary and more obvious image gradation, which is easy for distinguishing early-stage lesion tissues.

Tissue Harmonic Imaging

All the transducers are featured with Tissue Harmonic Imaging function, which enhances image resolution and reduces signal interference from surrounding tissues, thus image quality is improved greatly.

Color Speckle Reduction

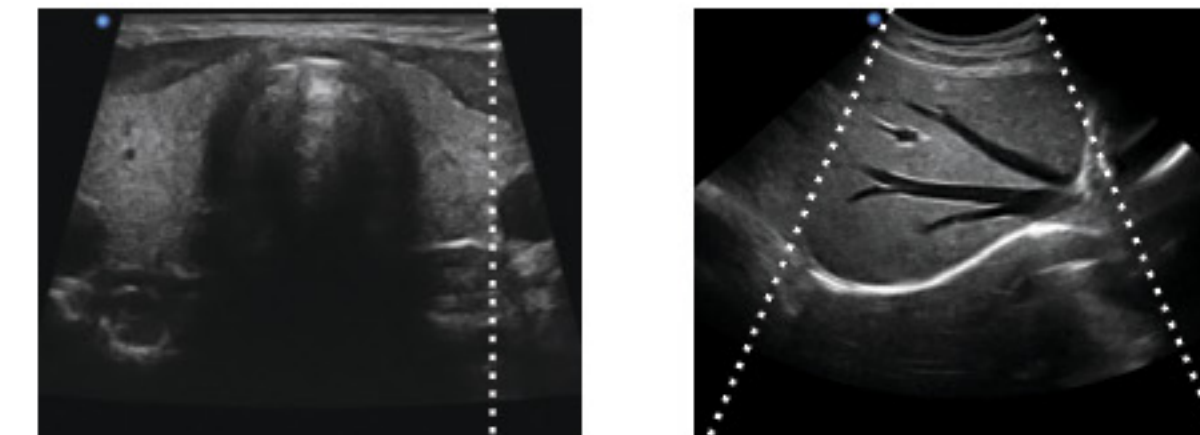
By employing 2D filtering, the system can effectively remove color flow noise, enabling the color flow map smooth and continuous, useful for scanning small vascula.

Directional Power Doppler

Combined with advantages of Color Doppler and Power Doppler, it can not only detect very low speed flow, but also distinguish flow direction and velocity.

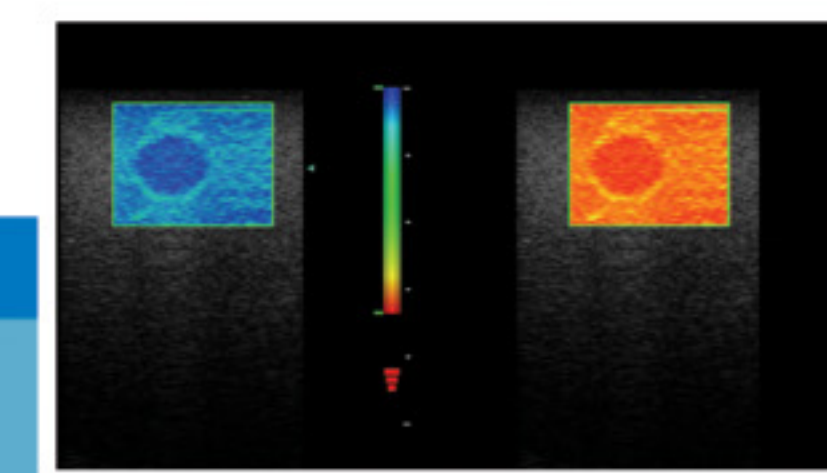
Trapezoidal Imaging

The extended field of view displays more image information without sacrificing image quality, a convenient approach especially for scanning big-size organs.



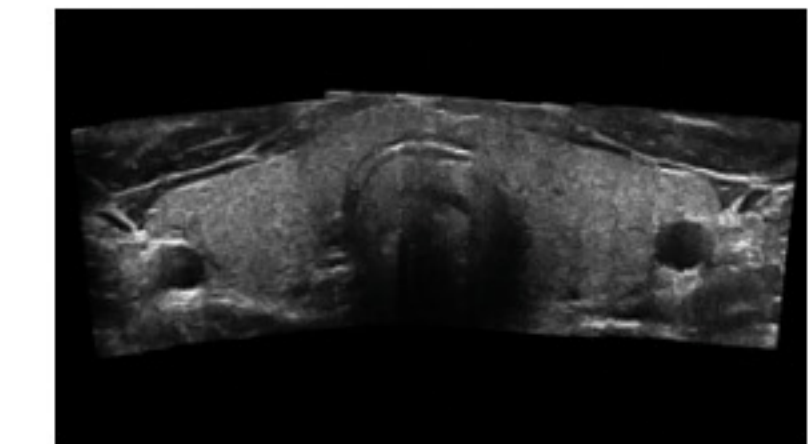
Elastography (Option)

By compressing human tissue to obtain RF signals before and after compression, tissue deformation and elasticity status can be acquired by time delay estimation, which can be used as a tool for cancer detection.



Panoramic Imaging (Option)

For big-size tissues or complicated lesions, a complete sonogram can be displayed, showing the structure relation between lesion and its surrounding tissues, as well as tissue structure of the observed path, resulting more complete observation and more accurate measurement and analysis.

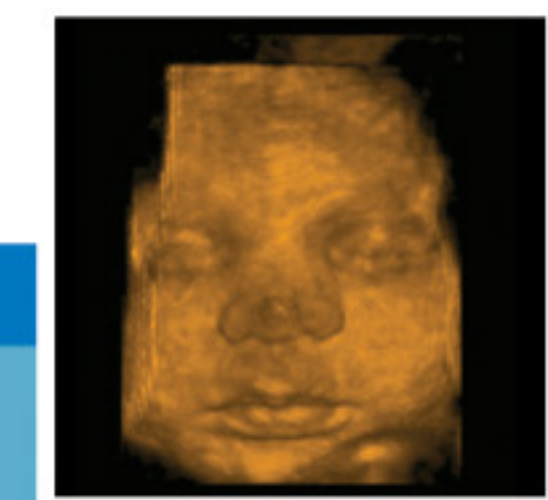


3D Imaging (Option)

A 3-dimensional image can be achieved with 3D software. Processing such as rotation, zoom in/out, trim, image color and background color change can be performed to tailor the image. A number of observation modes are available.

Live 3D Imaging (Option)

Equipped with a 3D volume probe, live 3D imaging function can be easily achieved to real-time display volumetric information of fetus or organ conveniently and efficiently.



Efficient Operation Flow & Interactive Operation System

Sonographers are the key players of ultrasound diagnosis while ultrasound systems are the diagnostic tool for the sonographers. Whether the systems are comfortable to use will have a direct impact on sonographers' diagnostic efficiency. Based on research of most sonographers' operating habits, and integrated with ergonomic design, the Apogee 3800 is provided with efficient operation flow and easy to operate, which is compliant with sonographers' diagnostic thinking features, achieving the perfect match of practicality and comfort.

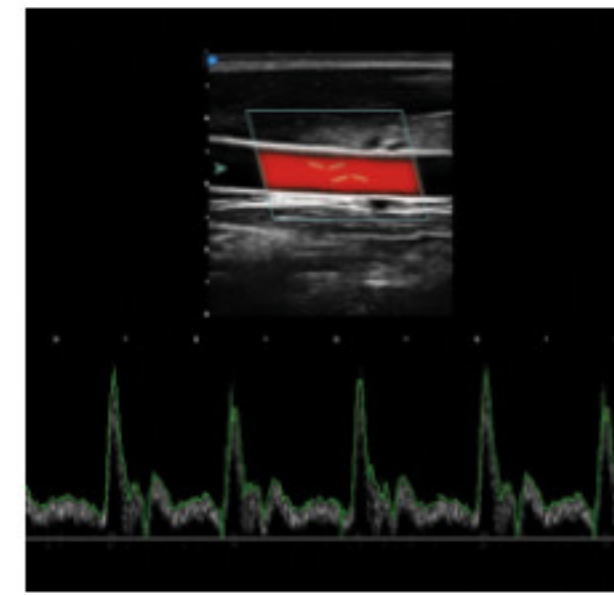
Touch Screen Control

By operating the color touch screen, sonographers may fully understand the current operation flow at a glance and achieve their exams quickly.



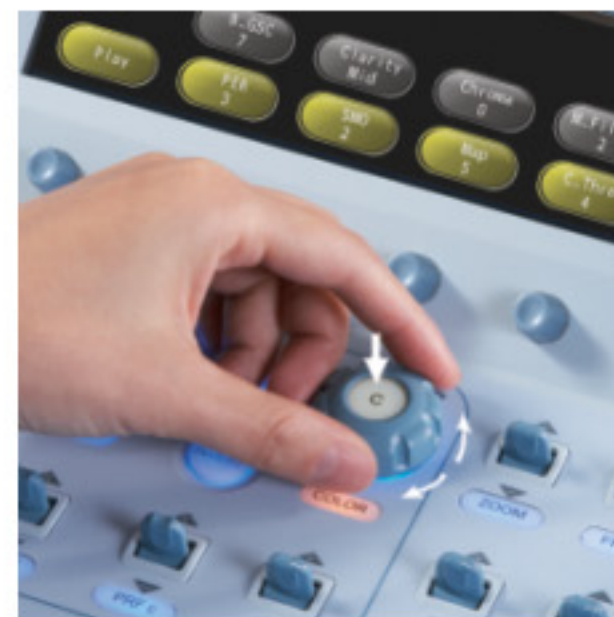
Spectrum Envelope

PW and CW modes are available. Sonographers may choose fully automatic real-time spectrum envelope, manual envelope, or auto envelope by selecting the start point. Hemodynamic data, such as PSV and EDV, will be analyzed and displayed automatically.



Ergonomic-Designed Console

With the ergonomic-designed console, integrated button control, as well as the color touch screen, sonographers may easily complete the operation with one hand.



Thumbnail View

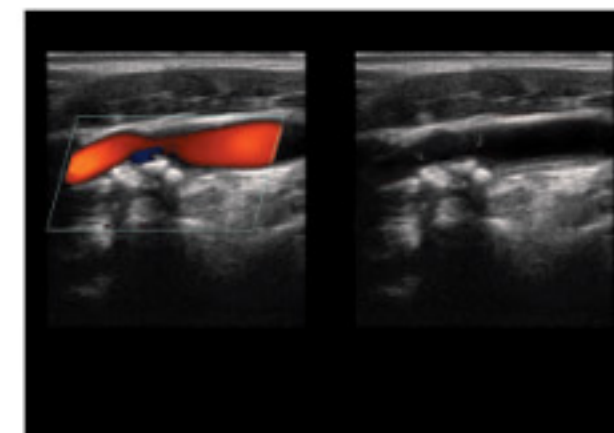
The thumbnails of the currently saved diagnostic images are retained at the bottom of the screen, which can be recalled for comparison and analysis any time.



Browse on the same screen without quantity limit

Split B/Color Mode

Sonographers may observe 2D and color images respectively and make precise diagnosis through comparison.



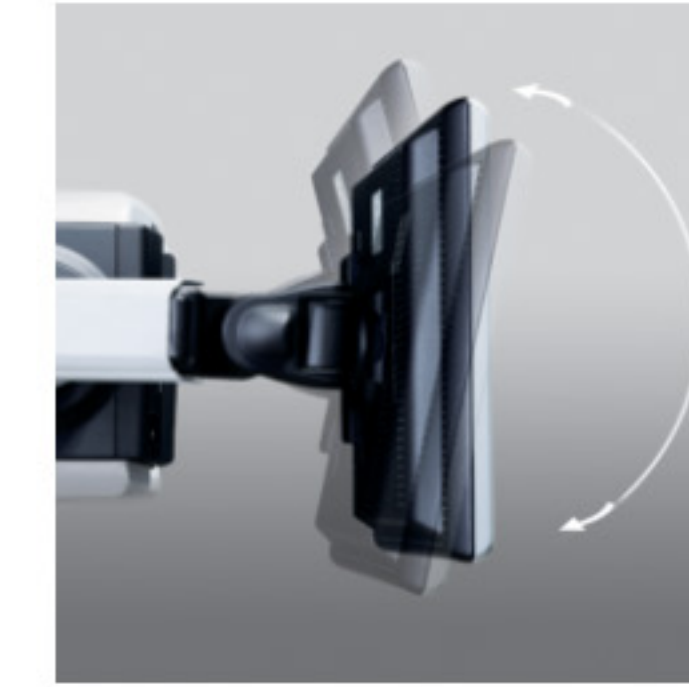
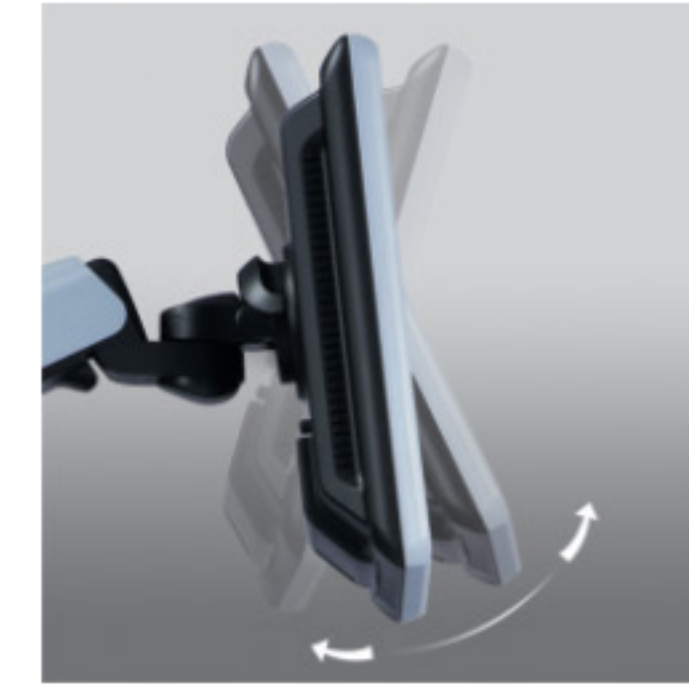
Real-time Triplex

2D images, color images and spectrum images can be displayed synchronously in real time, a facility for easy comparison, analysis and more accurate sampling.

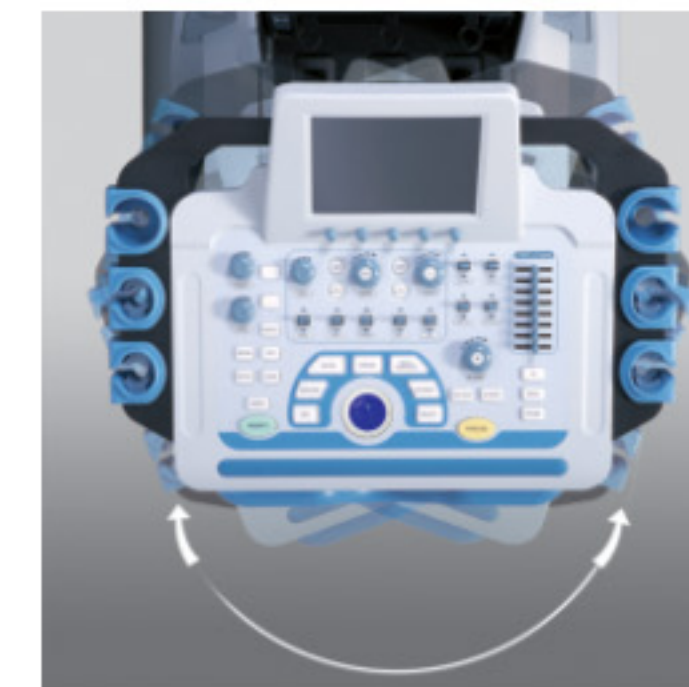
Personalized Function

Sonographers may define exam types/modes and set image parameters based on personal preferences and operating habits, to achieve personalized operation and improve diagnostic efficiency.

Multi-directional revolving high resolution LCD



Elevating and revolving operation console



Drawing keyboard and backlight

