APOGEE 1100

Digital Color Doppler Ultrasound Imaging System

Portable Color Doppler

Speckle Reduction Technology

Tissue Harmonic Imaging

Panoramic Imaging

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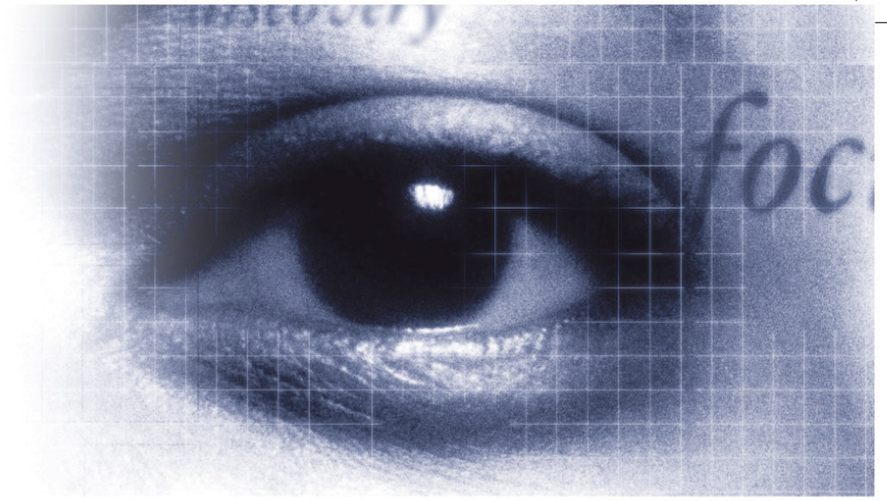
APOGEE 1100

A perfect ultrasound imaging tool for you

With respect to most portable color ultrasound systems, the designers usually have to compromise image quality in order to achieve device portability. The launch of Apogee 1100 completely breaks this rule. It significantly improves image quality of ultrasonic systems, which enables the compact system with advanced features you can only find in high-end trolley color Doppler.



Speckle Reduction Technology (SRT)

——Real representation of fine tissues and structures

When observing an object, human eyes tend to selectively pick up the useful information and reflect it to the brain, thus certain details are clear to the brain and impressive to the memory. Based on such characteristics of eye identification and brain thinking, the Apogee 1100 originally adopts SRT technology. The system can automatically trace useful tissue characterization, consolidate such information and reject surrounding noise. The successful application of this technology improves image resolution remarkably, which delivers more clear-cut tissue edge and better shading. Tissue and structure with lesion can be identified easily. Even minor early lesion can be distinguished clearly, really beneficial to early diagnosis of disease.

Conventional image

SRT image

Excellent Imaging Technologies

Graphics Processing Unit

With the introduction of advanced Graphics Processing Unit (GPU), image processing speed is accelerated and frame rate is improved, which is good for capturing fast-moving organs and tissues. Moreover, GPU is achieved by multi-pipeline processing method, leading to more precision interpolation and smoother images, significantly facilitating minute lesions observation.

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.

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.

Panoramic Imaging (Option)

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

Elastography (Option)

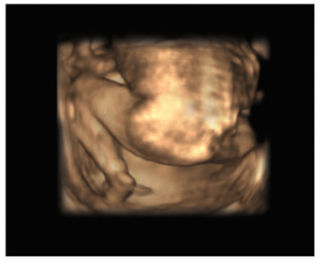
By compressing human tissue to obtain RF signals before and after compression, tissue deformation and elasticity status can be acquired by time delay estimation, which can be used as a tool for cancer detection.

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.

Face

Yawning



Lower Limb

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.

Outstanding Clinical Functions

Full Application Line

The system is featured with rich functions and has extraordinary performance in examination and diagnosis for **abdomen, vascular, breast, OB/GYN, superficial structure, musculoskeletal, urology, cardiology, pediatrics/neonates and small parts.** It is especially suitable for prenatal examination and early screening of birth defects.

Various Exam Modes

The system is featured with various exam modes, such as B, 2B, 4B, M, B/M, 4D, B+CFM/CPA, B+PW, B+CFM/CPA+PW, which can be applied in different applications.

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.

Spectrum Envelope

PW and CW modes are available. Clinicians 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.

M Zoom

Especially good for M-mode exam on fetal heart. Analysis is more intuitive and measurement more accurate.

Personalized Function

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

Ultra-wide Field of View

The transducer maximal angle is up to 180° and the maximal depth is 30cm. With the wide field of view, the operator may view spatial location of tissues and organs clearly at one glance, making the operation more convenient and the diagnosis more precise.

Split B/Color Mode

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

Portable and Compact Design

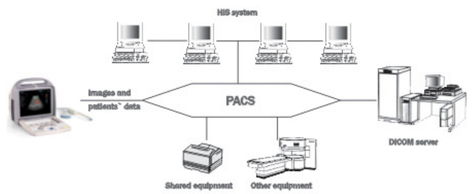
The whole unit weighs 10kg only. Compared with other portable color Doppler systems, the compact design makes the Apogee 1100 more portable, meeting ultrasound diagnosis requirements in different environments, especially suitable for house calls, emergency calls and bedside exams.

Powerful Document Management System

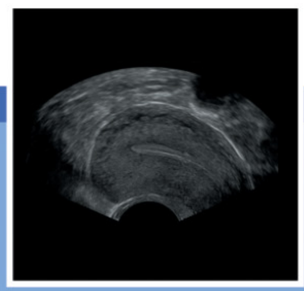
Large Capacity Hard Drive		USB Port	
S-Video Out		HMDI Port	
VGA Port		Network Port	

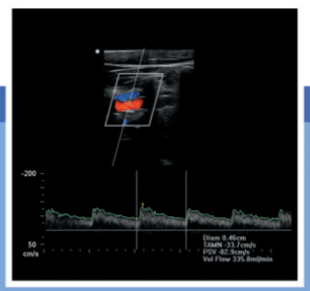
DICOM 3.0 (Option)

PACS and HIS systems can be connected via DICOM 3.0 (option) to achieve online teleconsultation.

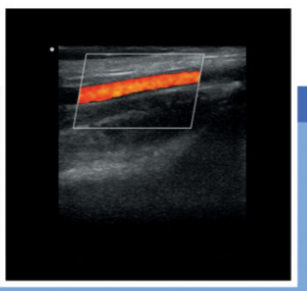


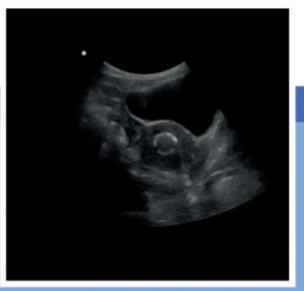

Cardiology


Uterus


Vertebral Artery


Early Pregnancy


Radial Artery


Contraceptive Ring