Overall Efficient Workflow

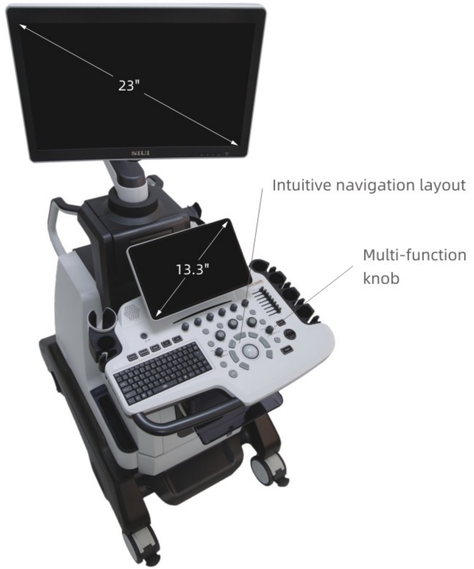
Allocate your precious time in image and diagnosis rather than searching and switching from items and buttons. The efficient workflow is aimed at improving your manipulation experience. Highly customized calculation and measurement tools are available with fewer steps needed.

Quick ID

Create ID quickly without patient information input, suitable for emergency situations.

Q-preset

Without entering setup interface, user-defined parameters can be saved quickly with one click.



S-helper

Embedded teaching software with 3D animation facilitates your practices.

S-view

Simultaneous comparison among images and cines assists your diagnosis.

S-station

Personalized editing tools and report templates ease your work.

SIUI

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Apogee 5800 Ace

Digital Color Doppler
Ultrasound Imaging System

SIUI

High-end ultrasound system inspires your daily work

Apogee 5800 Ace is designed with cutting-edge diagnostic features and functions. Top-tier technologies based on the novel platform Realview⁺ improve your diagnostic confidence while efficient workflow supports your effort involved in the scanning during daily work.

RealView⁺

Applied with innovated algorithm, **RealView⁺** embodies enhanced scanning efficiency and user-oriented commitment. The platform empowers next-level imaging experience and solutions to satisfy diagnostic demands.

Algorithm for automatically compensating nonlinear errors in signal propagation in tissues

Energy distribution equalization algorithm for transmitting and receiving

30x
Operation speed increased

Echo spectrum dynamic analysis and extraction algorithm

Parallel hybrid architectures, algorithms and programming

8x Information extraction efficiency increased

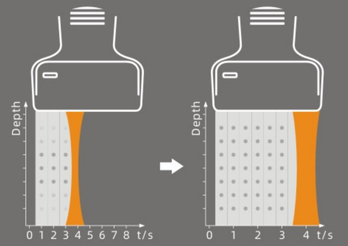
Signal variability corrections

Optimal hardware resource allocation

8.1 TFLOPS

Pixel Echo Zone (PEZ)

During wide band imaging processing, the system automatically collects echo information by larger processing zone to enhance acquisition efficiency and computing speed. Increased image frame rate facilitates a better and faster diagnostic experience.

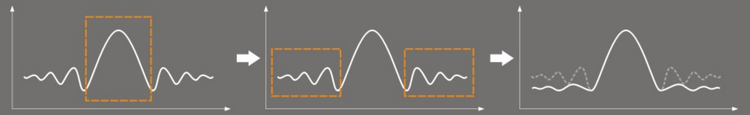


Target Focus

The image focus in near and far field requires different signal intensity. This upgraded technology provides automatic compensation in signal transmission to further improves focus accuracy and image uniformity in the entire image area.

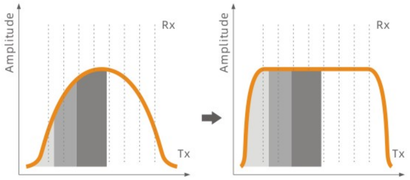
Tailored Filter

Invalid signals during transmission disturb imaging process inevitably. To reduce this impact, valid signals need to be strengthened. This technology filters signals in overall frequency band at different depth. Tailored processing will be made for enhancing valid signal and suppressing invalid signals to increase S/N ratio for a better image contrast.



Weighted Fusion (W-Fusion)

Dynamic analysis of Doppler echo spectrum enables the system to capture effective signal in both low and high frequency range. Precise control and fusion of these signals contribute to optimal image with better combination of resolution and penetration.

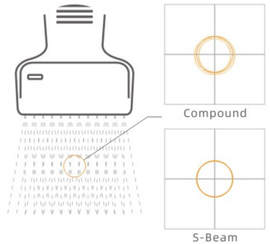


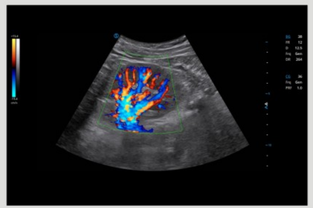
Echo Tune

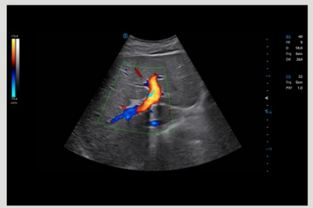
Real-time intellectual analysis during wide band beam forming enables self-tuning in energy emitting and receiving. The image uniformity will be enhanced without compromising resolution of focus area.

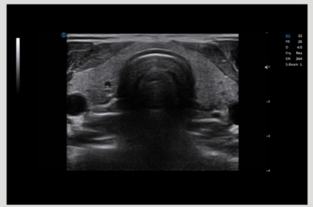
S-beam

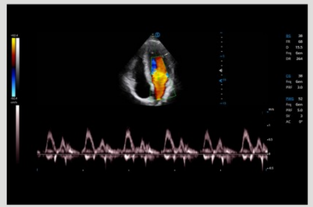
This technology traces and analyzes image information on multi-direction to suppress artifacts that come from tissue movement and rotation. The image quality and real-time capability are greatly boosted in special compound imaging.



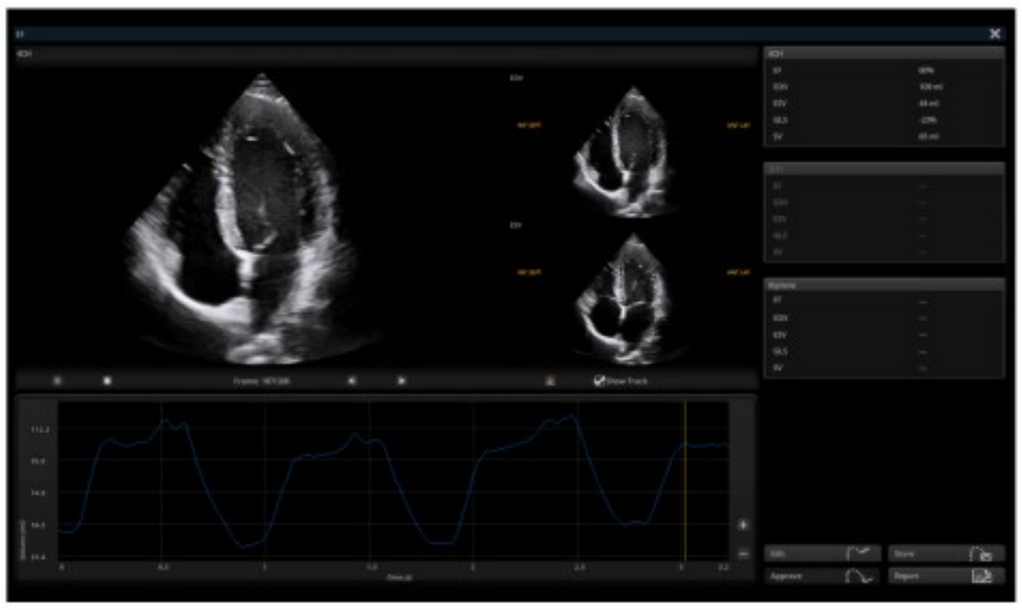

Kidney


Liver


Thyroid

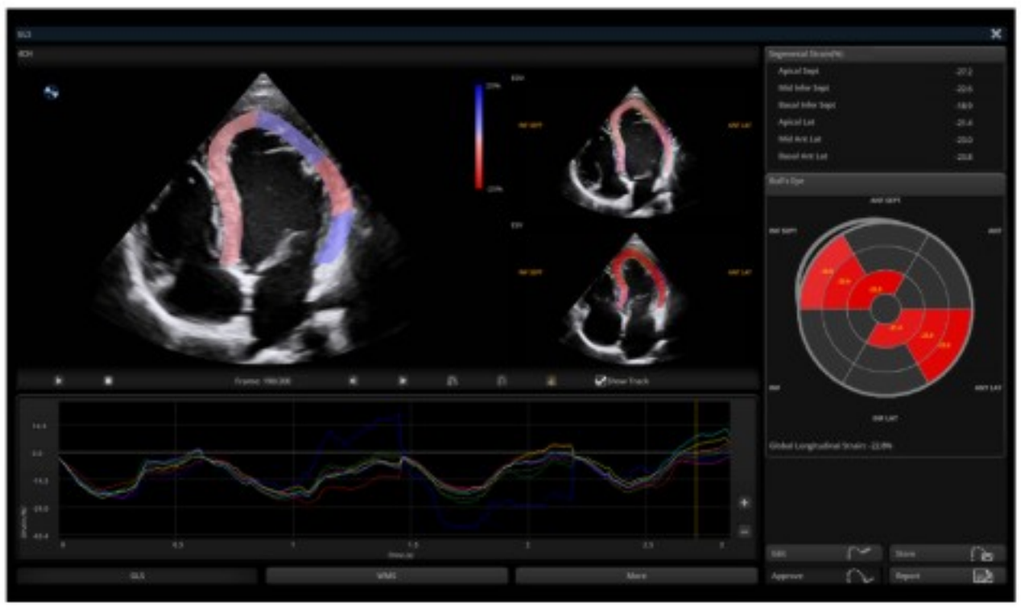

Heart

CARDIOLOGY



Auto EF

Cardiac function evaluation requires accuracy and speed as various calculations needs to be made. Auto EF, based on speckle tracking technology, acquires 2D EF and volumes within streamlined workflow.

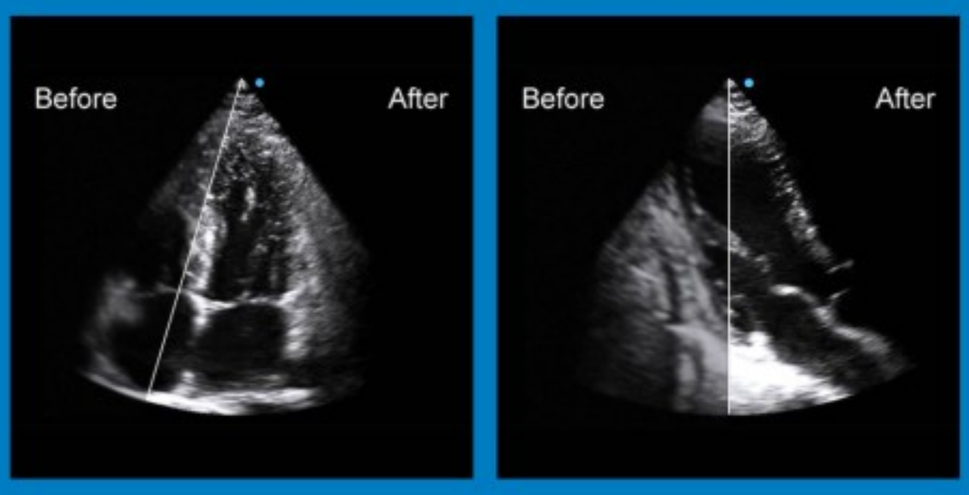


Auto SG

Global and regional myocardial function can be evaluated by Auto SG, an automatic quantitative assessment tool.

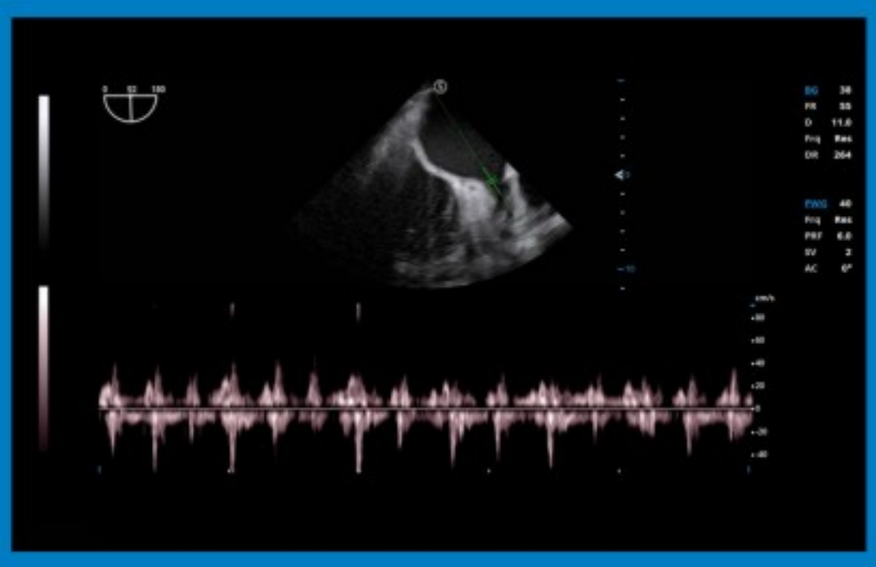
Crystal Purity Transducer

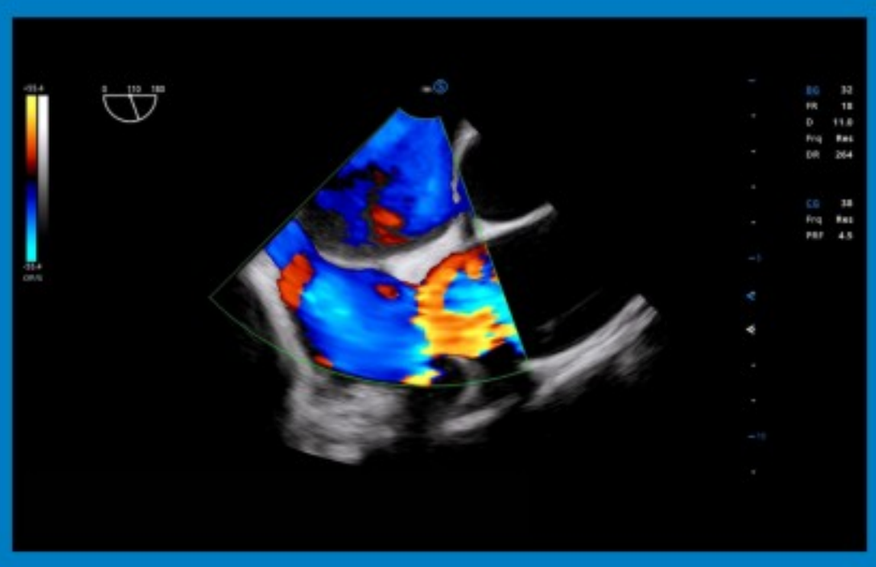
Equipped with the crystal purity transducer, Apogee 5800 Ace conducts superb scanning on cardiac diseases such as CHD (congenital heart disease).



TEE

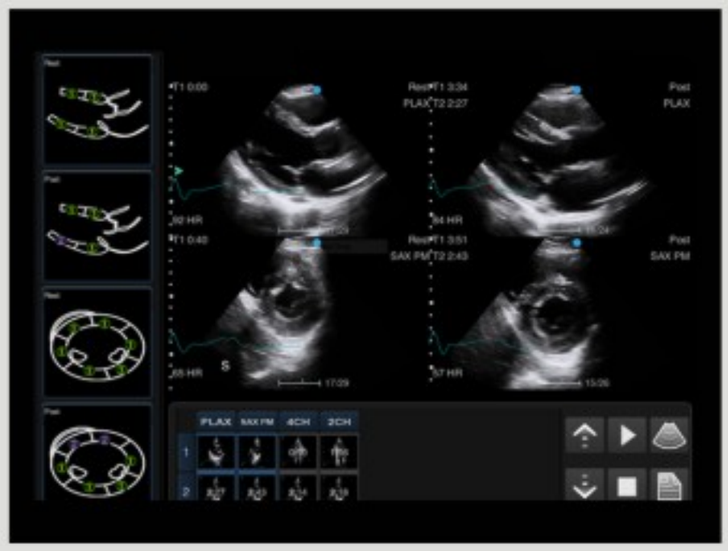
As a minimally invasive diagnostic way and real-time cardiac imaging device, TEE (Transesophageal echocardiogram) ultrasound is capable of providing additional diagnostic information.





Stress Echo

Stress Echo is a well combination of ultrasound scanning and stress test to detect a decrease in blood flow to the heart from narrowing in the coronary arteries. Fully integrated function enables simple operation with high efficiency.



TDI

TDI helps to assess the directional and temporal phase of cardiac, so as to display the movement state of vascular wall and the movement speed of heart.