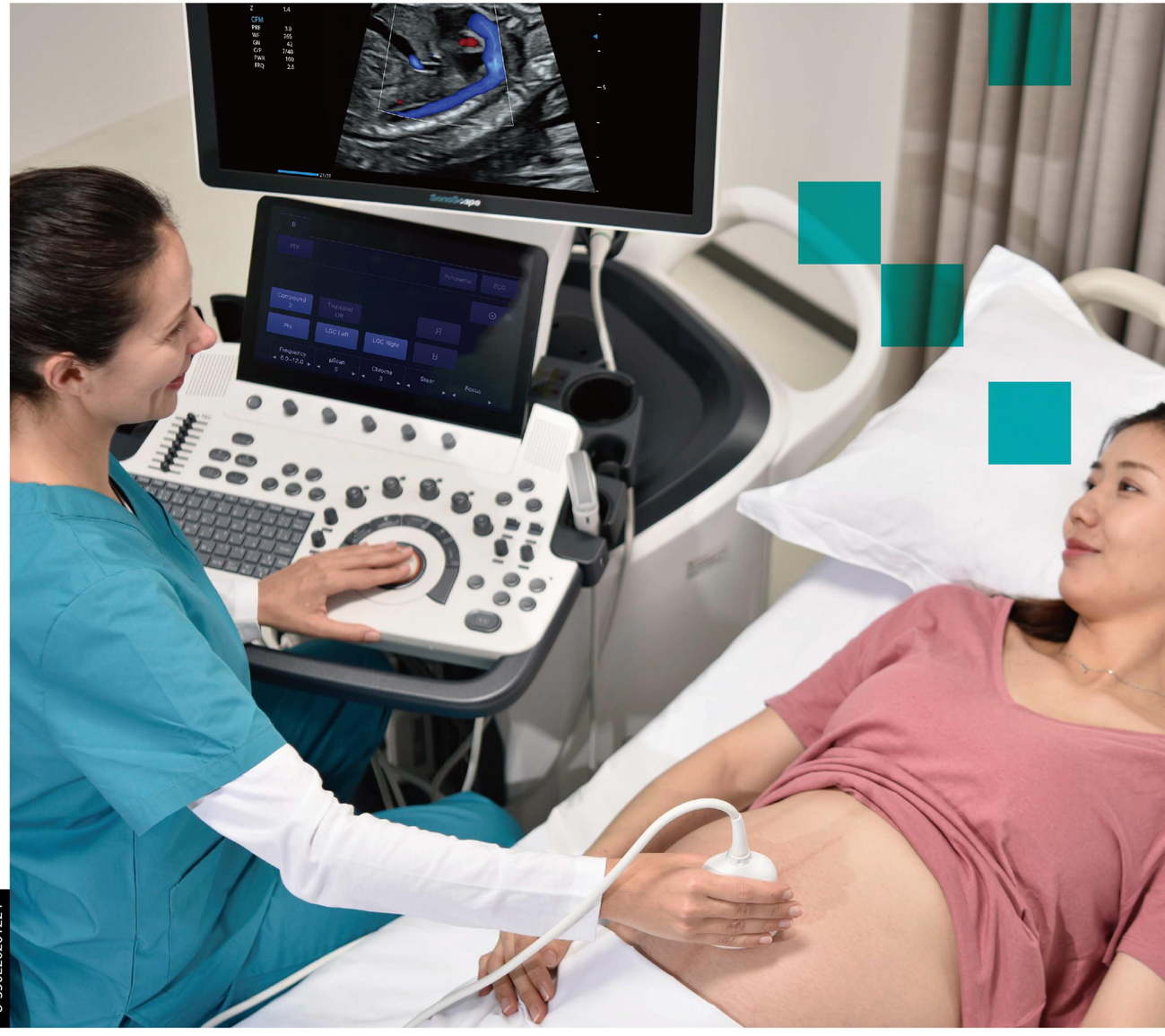
SonoScape

S50 Elite

Discover and Embrace ELITE



SonoScape

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S50 ELITE

Seeing clinicians' key wants and tasks, S50 ELITE revolutionizes your expectations toward an ultrasound system in this segment, especially for OB/GYN applications.
This newest ultrasound system provides clinicians an outstanding combination of clinical precision, elevated productivity and thoughtful workflow. It is our belief and faith to serve clinicians with fast and reliable diagnosis capability and S50 ELITE is the answer.

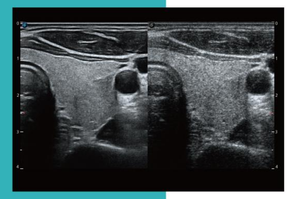
Lucid Imaging Boosted by All-rounded Renovation

Image quality always lies at the core of informative clinical outcomes. ELITE delivers a high-performance and lucid imaging rendered by a powerful architecture, state-of-the-art transducers, and sophisticated processing algorithms, for the next level of clarity and confidence.

Exceptional Imaging Technologies

µ-Scan+

A new generation µ-Scan+, available for both B and 3D/4D modes, is more delicately engineered to distinguish tissue and artifacts. In the meantime of reducing speckles, it can improve image uniformity and enhance border continuity to provide authentic presentation of details and enhanced lesion display.

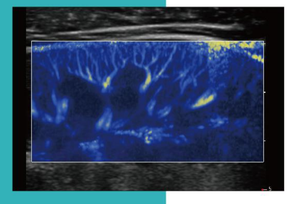


Bright Flow

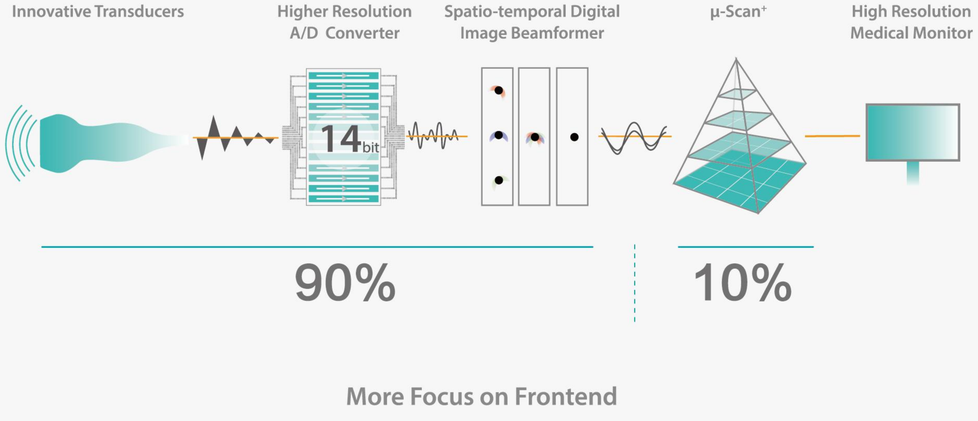
3D-like color Doppler flow without the need of using volume transducer, provided by Bright Flow, strengthens boundary definition of vessel walls. This innovative lifelike style helps clinicians more intuitively visualize blood flow.

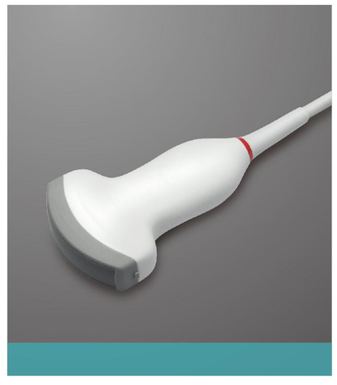
Micro F

Micro F provides an innovative method to expand the range of visible flow in ultrasound, especially for visualizing hemodynamic for tiny vessels. Detailed views of blood flow in relation to nearby tissue also render more diagnostic confidence to evaluate lesions and tumors.



* Compared with previous S50 system





Single Crystal Convex C1-6 / Sector S1-5

Single crystal transducers enable pure imaging, especially for difficult patients, by increasing the uniformity of crystal alignment and raising energy transmission efficiency. Single Crystal C1-6 for abdominal and OB patients and S1-5 for cardiology and transcranial applications.

Composite crystal linear transducers

By reforming the conventional piezoelectric materials, composite crystal transducers achieves a better acoustic spectrum and lower acoustic impedance to serve well in vascular, breast, thyroid, MSK, etc. The combo of 12L-A, 12L-B, 9L-A covers an ultra-wide frequency bandwidth, leaving nearly no blind spot for all sorts of scanning.

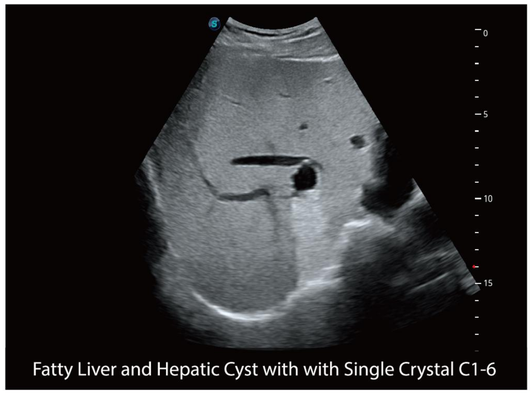
Ultra-light Crafted Volume VC2-9

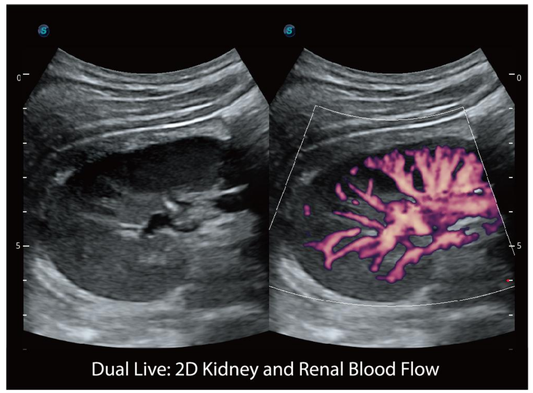
VC2-9 adopts a simple yet powerful design, which not only provides a remarkable enhancement in 3D/4D imaging quality but also reduces the weight of itself for a more comfortable grip by the meantime. Ultra-wide bandwidth, exquisite resolution and penetration at high volume rate make VC2-9 a one-probe-solution throughout nearly the entire pregnancy.

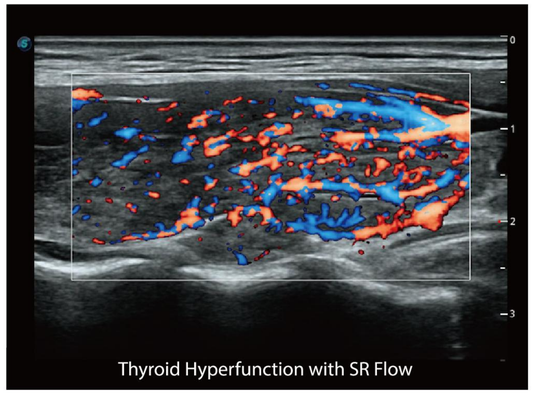
High-performance Transducers

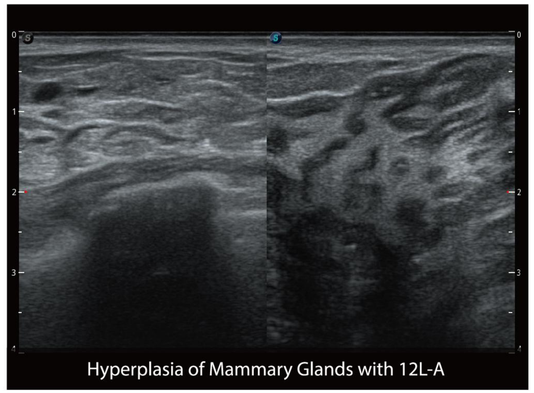
Advanced transducer technology on S50 ELITE is dedicated to creating an easy-to-acquire and simple-to-see scanning experience. Novel material and craftsmanship used on the transducers effectively elevate the acoustic performance and image accessibility, providing clinicians with sufficient ease and confidence in diagnosis, no matter for routine exams or technically difficult patients.

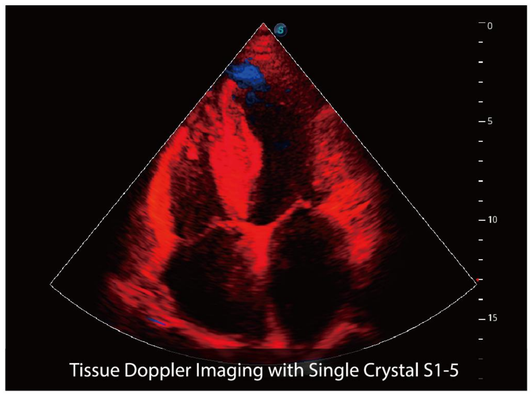
Image Gallery

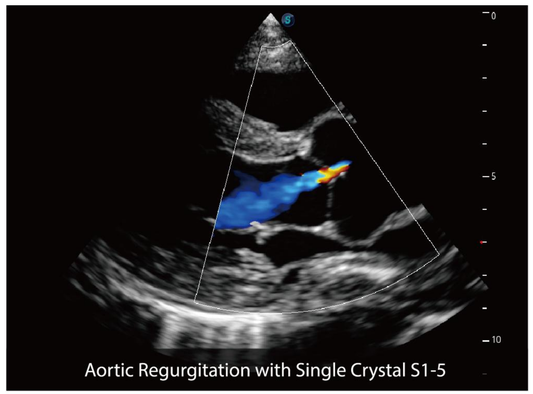

Fatty Liver and Hepatic Cyst with with Single Crystal C1-6

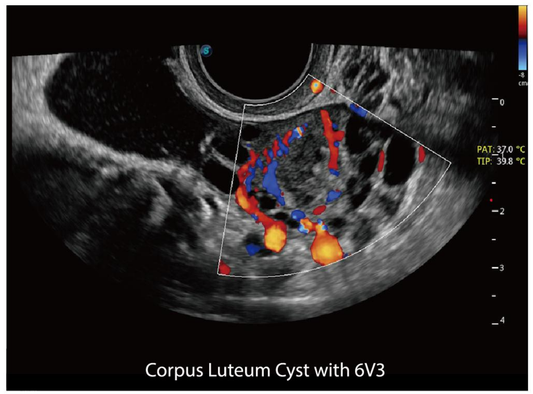

Dual Live: 2D Kidney and Renal Blood Flow


Thyroid Hyperfunction with SR Flow


Hyperplasia of Mammary Glands with 12L-A

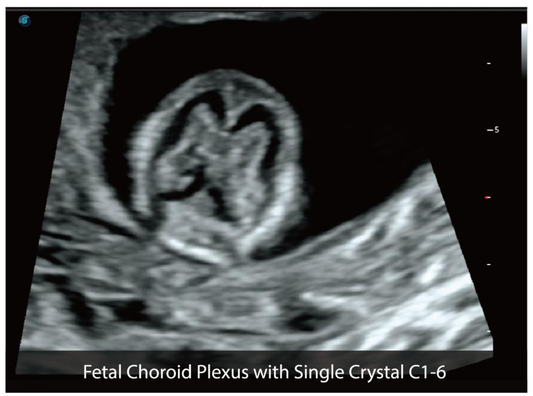

Tissue Doppler Imaging with Single Crystal S1-5

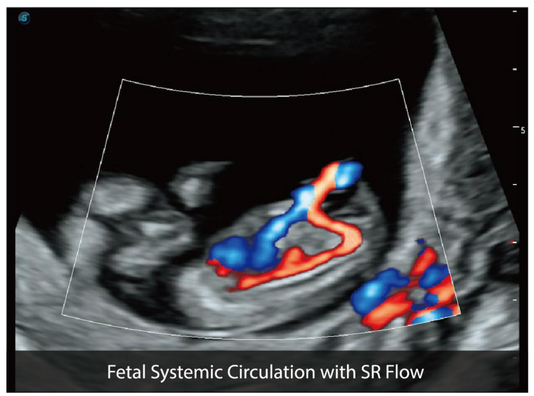

Aortic Regurgitation with Single Crystal S1-5

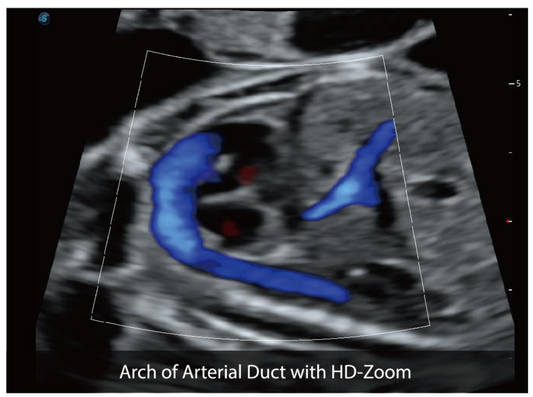


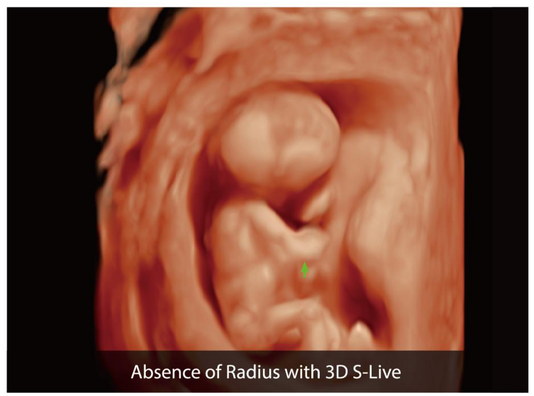
Corpus Luteum Cyst with 6V3


2D NT with Single Crystal C1-6


Fetal Choroid Plexus with Single Crystal C1-6

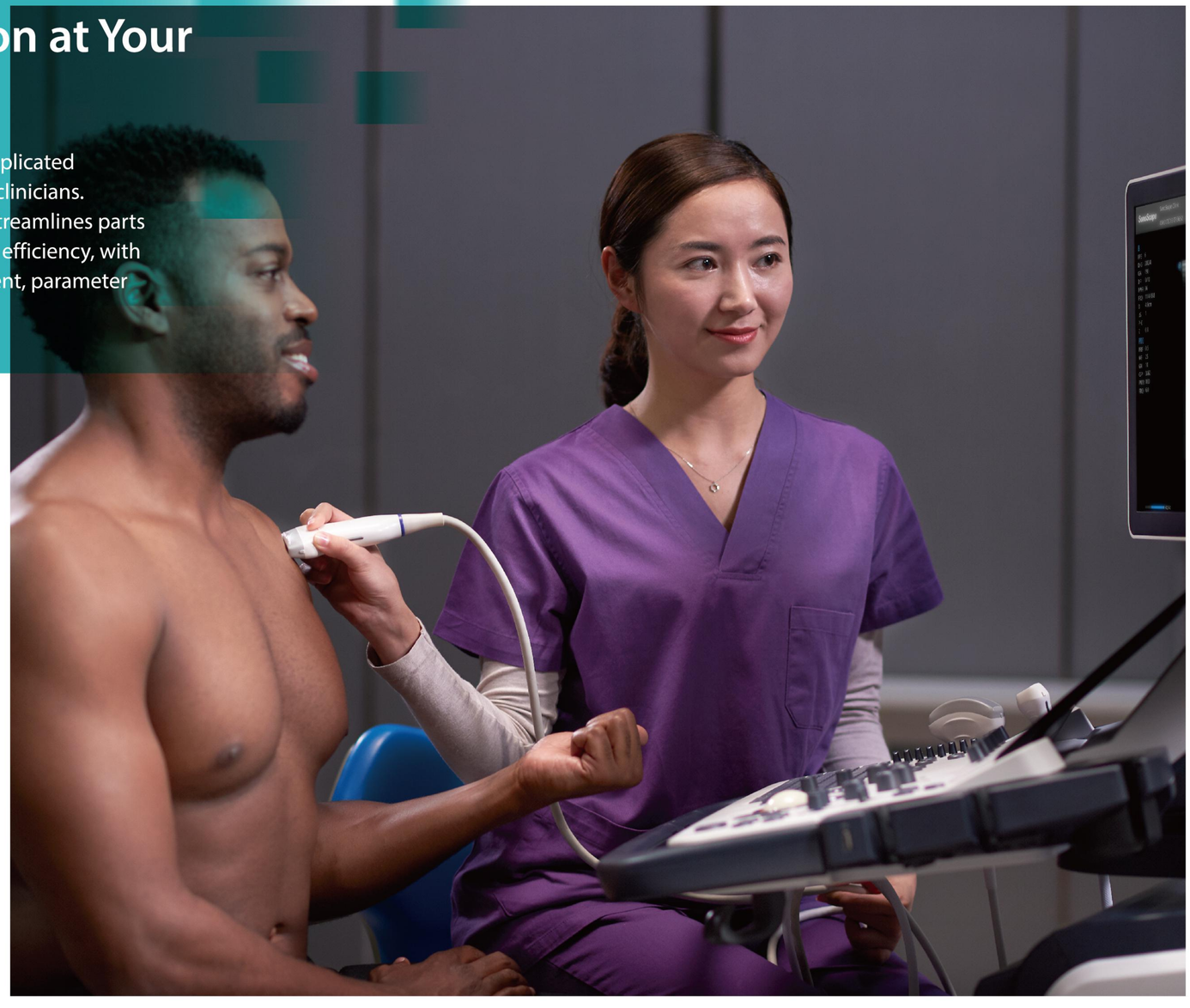

Fetal Systemic Circulation with SR Flow


Arch of Arterial Duct with HD-Zoom


Absence of Radius with 3D S-Live

Intelligent Solution at Your Fingertips

Routine over-repetitive exams and complicated operation are stressing out ultrasound clinicians. Intelligent solution provided by ELITE streamlines parts of the workflow to improve remarkably efficiency, with AI-powered tools including measurement, parameter adjustments, image optimization, etc.



Fast and Efficient Optimization

Auto B/C
Imaging parameter adjustment is now no more done in a laborious manner. Auto B/C helps to optimize the image quality under B and color Doppler mode within just one click. Multiple parameters such as gain, TGC, ROI position, steering angle, etc., are all included in this full automation method.

Auto PW
The PW exam is tremendously simplified and streamlined with Auto PW by auto parameter adjusting and flexible spectrum tracing.

Auto Face
3D fetal face visualization is significant for face anomalies diagnosis. The removal of occlusions and artifacts, such as cord, placenta, uterus and extremities, can be simply accomplished by Auto Face to get a optimal view of fetal face.

Smart yet Simple Measurement

S-Fetus
Based on a big data dependable deep learning algorithm, S-Fetus is a brilliant one-stop solution for automatic standard plane acquisition and measurement. With just one click, common fetal biometry results are obtained with high intelligence, accuracy and efficiency, aiming for an unprecedented ease during operation.

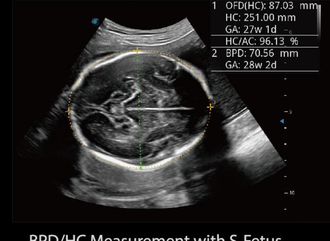
Auto OB
Fast and highly efficient fetal biometry is achieved by the help of Auto OB. Meanwhile, more consistent results given by this deep learning based method can effectively reduce user-dependent variability.

Auto NT
Auto NT provides semi-automatic, standardized measurements of the nuchal translucency thickness in 2D image and reduces operator dependency on the results.

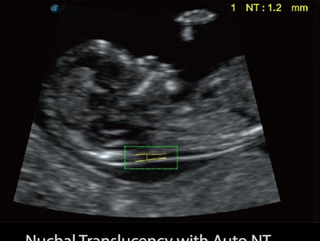
AVC Follicle
High efficiency of follicle analysis is achieved by AVC Follicle, a volume-data based automatic follicular calculation including the number and volume. Follicles are sorted by sizes in the results and rendered in different colors for better visualization.

Auto Bladder
One key bladder wall tracing and volume measurement from Auto Bladder can efficiently provide more accurate contour and results, which is not subject to the bladder shape and size.

Auto IMT
Auto IMT makes the measurement of anterior and posterior intima-media thickness much easier with simple placement of the ROI.

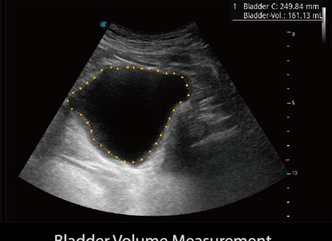


BPD/HC Measurement with S-Fetus



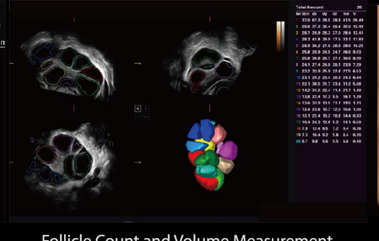
Nuchal Translucency with Auto NT

Femur Length Measurement with Auto OB



Bladder Volume Measurement with Auto Bladder

Intima-media Thickness Measurement with Auto IMT


Follicle Count and Volume Measurement with AVC Follicle

3D Fetal Face Optimization with Auto Face

Talented Features Inspire More Applications

Ultrasound is being versatile and taking on more and more clinical tasks. As a vanguard to help clinicians easily accomplish more, ELITE, is integrated with a comprehensive suite of advanced features covering General Imaging, OB/GYN, Cardiovascular and more.

Contrast Enhanced Ultrasound

MFI

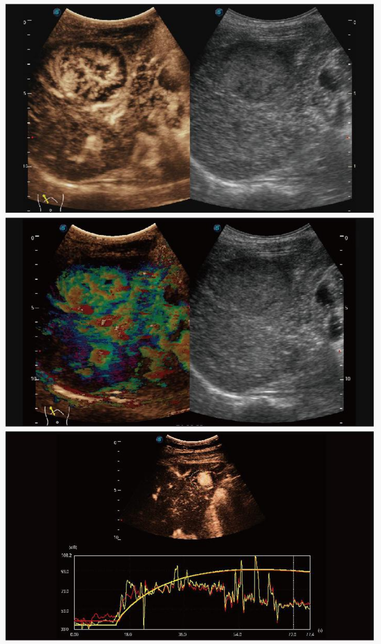
MFI is an enhanced perfusion display enabled by the signal accumulation of contrast agents. It is useful for tracing small bubble populations, even in low-perfused and peripheral regions.

MFI Time

MFI Time provides a color coded parametric view, indicating the uptake time of contrast agents in different perfusion phases to better differentiate tissues.

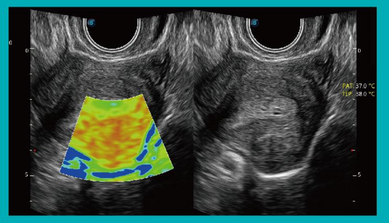
Time Intensity Curve (TIC) Analysis

Quantification analysis is available under TIC to attain the contrast agent enhancement change in terms of time in selected regions of interest.



Strain Elastography

Strain elastography offers a real-time tissue stiffness assessment displayed as a color map to detect potential abnormalities within normal tissue. Available on linear, convex and transvaginal transducers to cover a wide range of regions including breast, thyroid, liver, uterus, urinary structures, etc. Semi-quantitative analysis based on strain ratio between the lesion and normal tissue is able to show the relative stiffness of the lesion.



Advanced Rendering Techniques

S-Live/ S-Live Silhouette

S-Live offers a movable virtual light source to add more lifelike rendering to the surface for a more realistic appearance of natural shadows and skin texture. Through using a shadowing effect, S-Live Silhouette sees through the surface and clearly delineates the outlines of bone, organs, cavities, vessel walls and other internal structures. It is a beneficial tool for identifying normal anatomy and diagnosing complex congenital malformations.

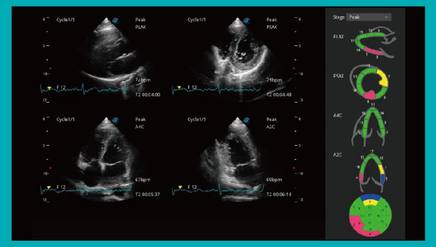
Color 3D

Available on color and power Doppler mode, Color 3D applies advanced rendering, including S-Live, S-Live Silhouette, etc., to blood flow to produce more intuitive and natural hemodynamics of vascular networks with speed and direction information, especially for umbilical cords.

Quantitative Cardiac Analysis

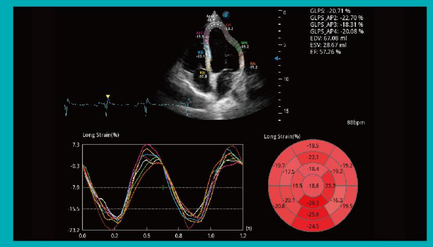
Stress Echo

A straightforward template for clinicians to take multiple dynamic images at rest and after stress and make side by side comparison. Professional wall motion bulls-eye scoring and reporting is provided for further effective evaluation of cardiac muscle viability.



Myocardium Quantitative Analysis (MQA)

Precise quantitative measurement on myocardial mechanics is achieved by MQA based on real-time sensitive wall motion tracking. It provides global and regional assessment including strain, strain rate, displacement, velocity, etc.



Women's Health

4D Hysterosalpingo Contrast Sonography (HyCoSy)

Real-time 4D HyCoSy facilitates gynecological exams for fallopian tube patency assessment in an intuitive and confident way and enhances the 3D display of uterus and fallopian tubes morphology. In addition, real-time perfusion process is clearly visible for more information on the precise diagnosis of tubal patency.

Pelvic Floor Imaging

Working in conjunction with specialized transvaginal probes, both 2D and volume imaging for pelvic floor, provides superior resolution for pelvic floor function evaluation. 4D imaging with high frame rate creates a smooth experience in attaining a whole view of the pelvic floor and is useful in viewing pelvic anatomy like muscles, bladder, uterus, etc. Upcoming artificial intelligence based S-Pelvic fully automates the evaluation of pelvic floor function in both 2D and 3D imaging, maximizing the efficiency for pelvic floor exam.

Pleasing Design

Fully-articulating arm

High Resolution Medical LED Monitor

Intuitive and Tilting Touch Screen

User-friendly Layout

Compact Console

Temperature-adjustable Gel Warmer

Considerate User Interaction

Sono-help

An inspiring tutorial displaying probe placement, anatomy illustration and standard ultrasound image examples. As a useful reference less experienced clinicians could rely on, Sono-help covers a variety of applications including liver, kidney, cardiac, breast, thyroid, obstetrics, vascular, etc.

Sono-drop

Sono-drop provides a fast and convenient ultrasound image transmission between P40 ELITE and the patients' smart devices. The bond between clinicians and patients are supposed to be strengthened through more frequent communication.

Sono-synch

Real-time interface and camera sharing, enabled by Sono-synch, makes it possible to connect two ultrasound in a remote distance and perform remote medical consultation and tutorial.

Sono-assistant

Sono-assistant guides clinicians through the entire exam and provides customizable scanning protocol helps streamline workflow while increasing standardization and reducing keystrokes and exam time.

Easeful Experience within Easy Reach

Hours of work to be done routinely, clinicians all longs for an easeful ultrasound experience without doubt. ELITE takes every tiny detail into consideration and commits to devise a customer-centered interactive system that makes every scan count.