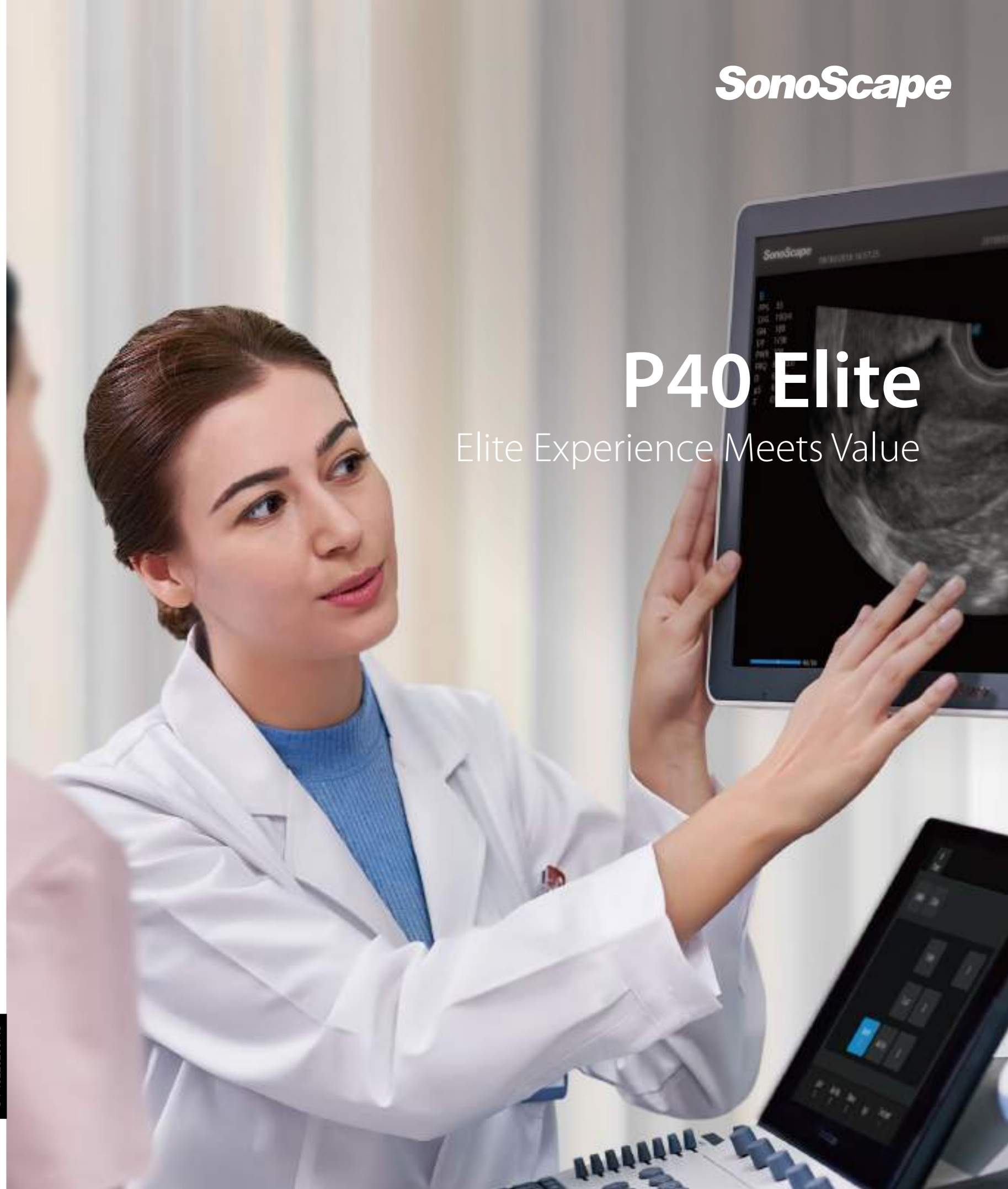# SonoScape

P40 Elite
Elite Experience Meets Value

SonoScape

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ELITE

Lucid Imaging · Intelligent Solution · Talented Features · Easeful Experience

ELITE, a resourceful series achieving multifaceted Evolution, Lucid imaging, Intelligent solution, Talented features, and Easeful experience, takes in the unremitting research efforts on practical clinical needs and is ready to revolutionize the spectrum of patient care with leading edge ultrasound technologies.

Evolved Architecture Sparks Profound Vision

Lucid Imaging Boosted by All-rounded Renovation

Intelligent Solution at Your Fingertips

**T**alented Features Inspire More Applications

Easeful Experience within Easy Reach

P40 ELITE,

defines a meticulous equilibrium of definitive clinical outcomes and bottom-line value beyond your expectation. Making no compromise to premium care, P40 ELITE delivers quick diagnostic information, advanced functionality, ergonomic system to fight against rising patient volume and ever increasing demands for ultrasound applications on all fronts. The marvelous vision is our commitment to help clinicians discover lesion earlier, evaluate more precisely, and intervene sooner.
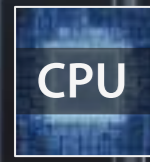
| CPU | **4** times Date Processing Competence | GPU | **10** times Response Rate | FPGA | **2** times System Frame Rate |

Lucid Imaging Boosted by All-rounded Renovation

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

Potent Architecture

Integrated with upgraded CPU and GPU, the processing capability and efficiency of P40 ELITE are boosted by several times*. In addition, system dynamic range is dramatically augmented given the improvement on A/D converter; hence, the imaging on P40 ELITE restores more true reality and subtle detail. Users therefore can enjoy a cozy scanning with silky smoothness and exquisite clarity.

High-performance Transducers

Single crystal transducers enable the 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, 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.

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.

SR-Flow

The separation of blood flow and tissue signal becomes more easily with SR-Flow given the use of a highly effective filter technology. It enables a dynamic and vivid Doppler display with high sensitivity while ensuring a realistic evidence for detection of slow flows.

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.

| Thyroid Image Comparison with μ-Scan⁺ on/off | Neonatal Hepatic Hemangioma with SR-Flow | Fetal Pericallosal Artery with Micro F |

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.

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.

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.

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.

BPD/HC Measurement with S-Fetus
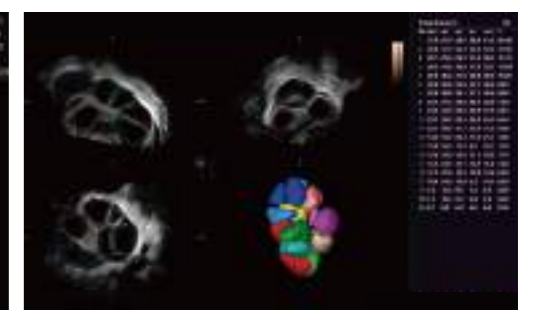

Nuchal Translucency with Auto NT

Femur Length Measurement with Auto OB

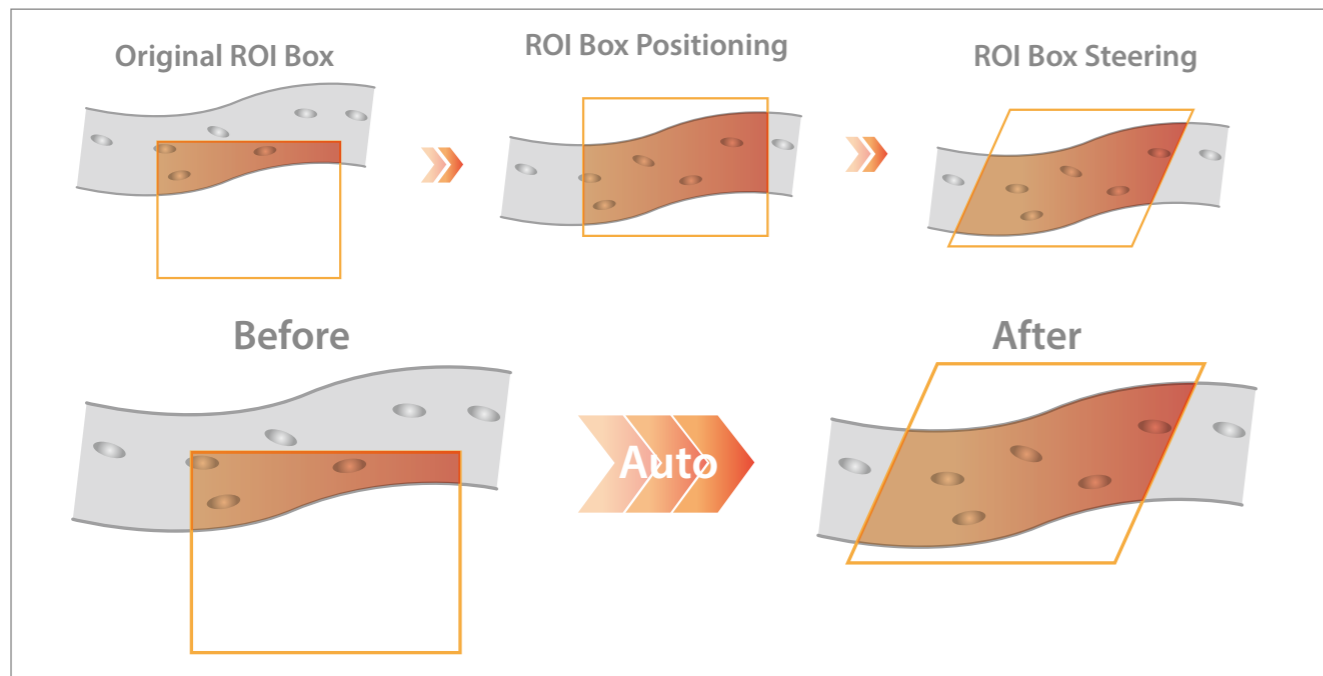Bladder Volume Measurement with Auto Bladder

Intima-media Thickness Measurement with Auto IMT

Follicle Count and Volume Measurement with AVC Follicle

Original ROI Box

ROI Box Positioning

ROI Box Steering

Before

After

Auto

Auto Color Technical Principle

## 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.
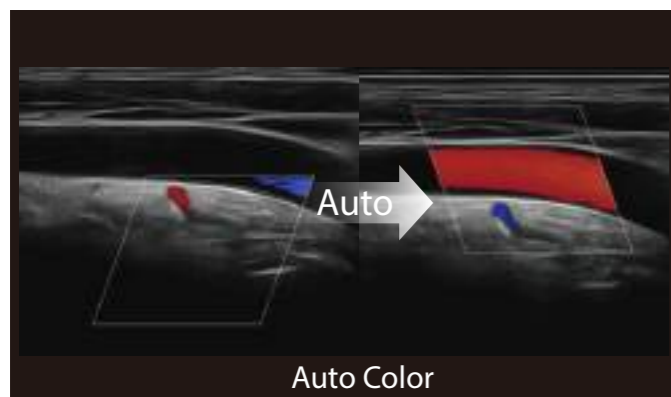
Auto

Auto Color

Auto

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.

Advanced Rendering Techniques

S-Live

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.

S-Live Silhouette

Through the application of an artificial light source and 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 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.
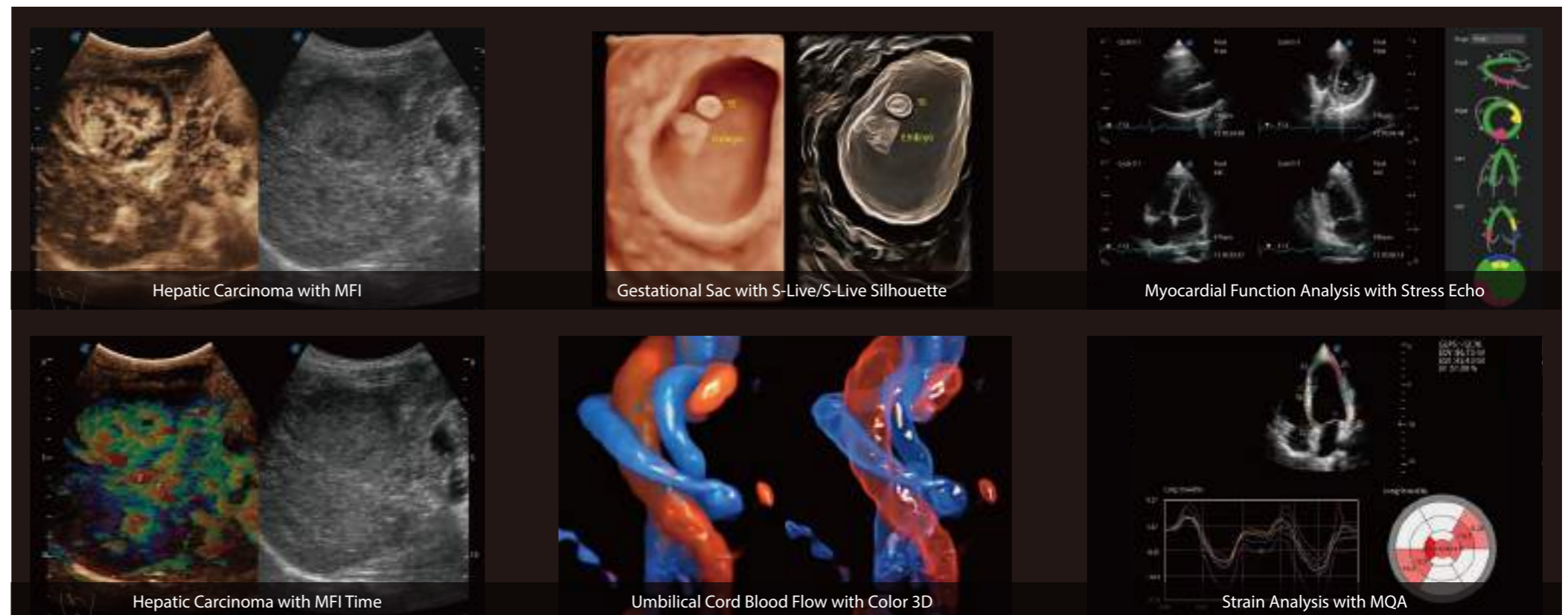
Hepatic Carcinoma with MFI

Gestational Sac with S-Live/S-Live Silhouette

Myocardial Function Analysis with Stress Echo

Hepatic Carcinoma with MFI Time

Umbilical Cord Blood Flow with Color 3D

Strain Analysis with MQA

Easeful Experience within Easy Reach

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.

Pleasing Design

Fully-articulating arm
Easy adjustment for monitor position to enhance visibility

High-resolution monitor & touch screen
21.5 inch monitor and 13.3 inch touch screen for fatigueless view and smooth operation

Intuitive user interface
Straightforward layout effectively reduces keystrokes and manipulations. Customizable keys increase flexibility for different user preference.

Flexible console
Height-adjustable and rotatable console can basically satisfy any scanning requirements.

Compact build
Slim and robust design offers enhanced mobility and easy accommodation even in difficult space.

Long-lasting capability
Power management with a battery supporting 2 hours continuous scanning per charge in case of power failure.

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.
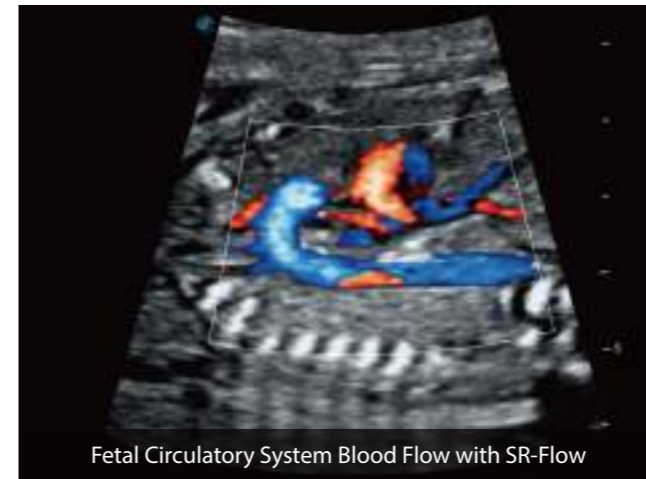
Image Gallery

Fetal Abdominal with Single Crystal C1-6

Fetal Heart with Single Crystal C1-6

Fetal Circulatory System Blood Flow with SR-Flow

Lifelike Fetal Face with S-Live
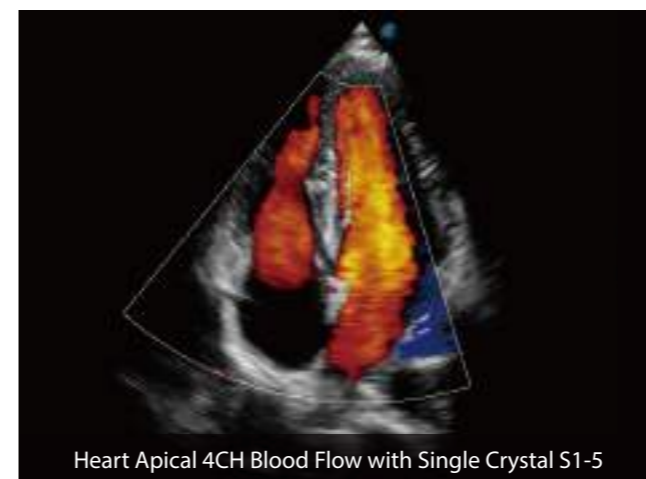
Polycystic Ovarian Syndrome with 6V3

Hepatic Vessel with Color 3D

Thyroid Nodule with SR-Flow

Inferior Vena Cava with μ-Scan+

Heart Apical 4CH Blood Flow with Single Crystal S1-5