AeroSCAN®

CD50 PRO AI

CD50 PRO AI

An Intelligent Premium
Ultrasound System

CD50 PRO AI, powered by Wis+ platform, carries forward the premium performance in achieving multifaceted Evolution, Lucid imaging, Intelligent solution, Talented features, and Easeful experience. The unremitting research efforts on practical clinical needs boost the potential of ELITE to revolutionize the spectrum of patient care, with leading edge ultrasound technologies

Wis⁺ Platform

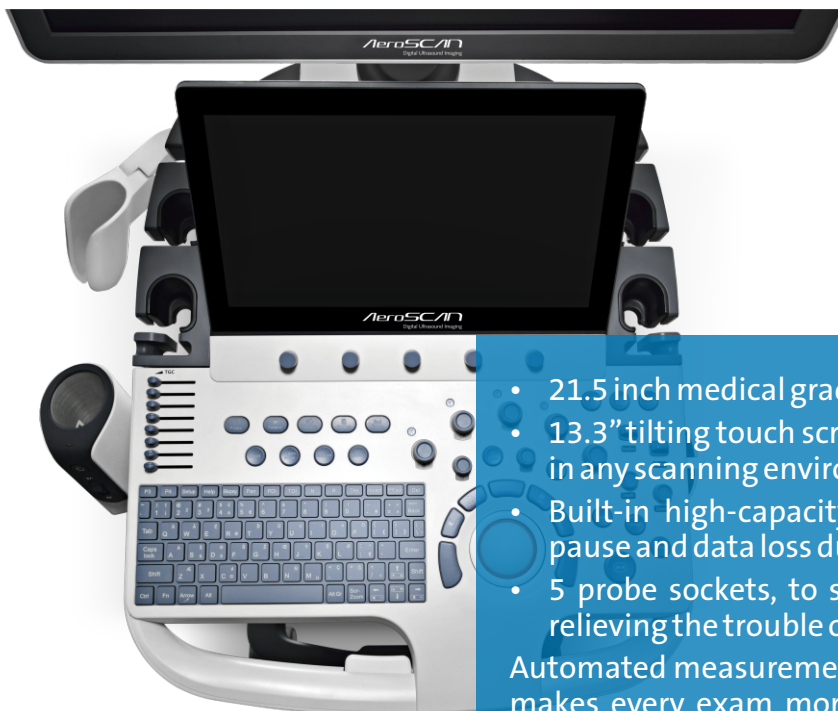An Intelligent Premium Ultrasound System

Single Crystal Convex and Cardiac Probes

Automated recognition and analysis

Unprecedentedly efficient

- 21.5 inch medical grade monitor
- 13.3" tilting touch screen, accommodates user viewing preference in any scanning environment
- Built-in high-capacity battery to protect users from accidental pause and data loss due to power outage
- 5 probe sockets, to save clinicians valuable time and energy by relieving the trouble of changing transducers frequently

Automated measurement and analysis tool package on CD50 PRO AI makes every exam more consistent, accurate and fast in different applications.

| Auto OB | Auto Optimization | Auto NT | Auto EF |

General Imaging

Versatile capability in multi-field makes CD 50 PRO AI a perfect match for the use in general imaging.
More accurate and fast diagnosis is facilitated by CD 50 PRO AI with advanced imaging tools.

High Quality 2D/Doppler Imaging

Two - Level
Adjustable gel warmer

μ- Scan[+]

A new generation u-scan, available for both B and 3D/4D modes, is more delicately engineered to distinguish tissue and artifacts. It reduces speckles, it can improve image uniformity and enhance border continuity to provide authentic presentation of details and enhanced lesion display.

SR-Flow

The differentiation between blood flow and tissue signal becomes more clear 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.

Bright Flow

3D-like color doppler flow without the Need of using volume transducer, provided By bright flow, strengthens boundary Definition of vessel walls and helps in clear & intuitive visualization of blood flow
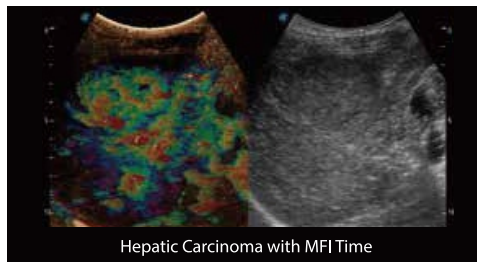
Micro F

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.
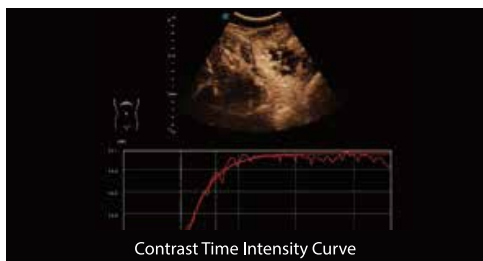
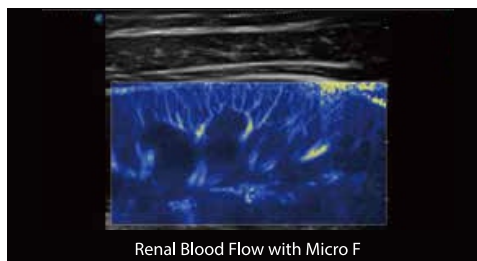## Clinical Image Gallery

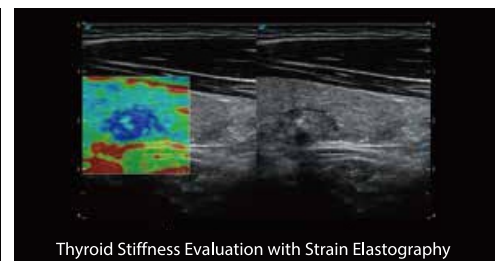Thyroid Nodule with SR-Flow

Hepatic Carcinoma with MFI Time

Renal Blood Flow with Bright Flow

Contrast Time Intensity Curve

Renal Blood Flow with Micro F

Thyroid Stiffness Evaluation with Strain Elastography

Optional Features

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.

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.

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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 trans vaginal transducers to cover a wide range of regions
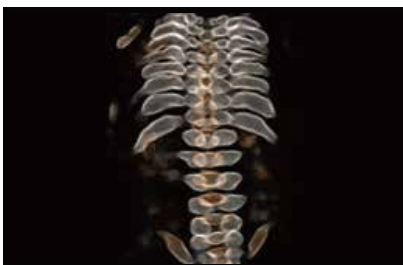
OB/GYN
Realistic Rendering Techniques

S-Live
S-Live offers a movable virtual light source to add more life like 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 & other internal structures.
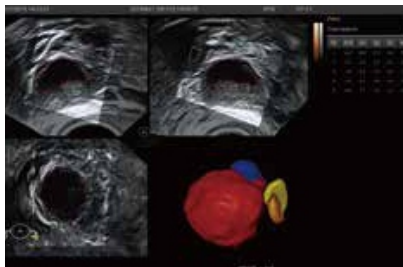

Color 3D
Available on color and power Doppler mode, Color 3D applies advanced rendering, including S-Live, S-Live Silhouette, etc., to blood flow to produce more intuitive & natural hemodynamics of vascular networks with speed and direction information, especially for umbilical cords.

Optional Features

S-Fetus
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.
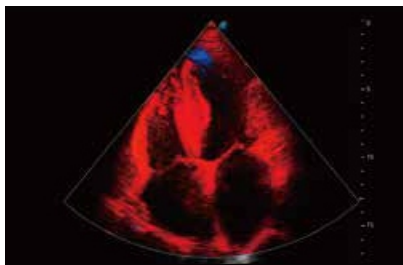

AVC Follicle
High efficiency of follicle analysis is achieved by AVC Follicle, a volume-data based automatic follicular calculation including the number and volume. Follicles are sorted by sizes in the results and rendered in different colors for better visualization.
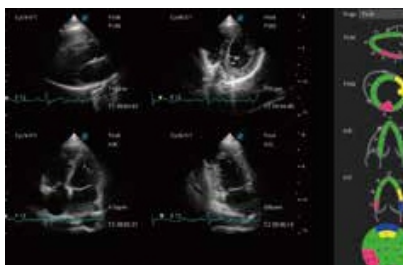

Pelvic Floor Imaging
Working in conjunction with specialized transvaginal probes, both 2D and volume imaging for pelvic floor, provides superior resolution for pelvic floor function evaluation A whole view of the pelvic floor is useful in viewing pelvic anatory like muscles, bladder, uterus, etc.
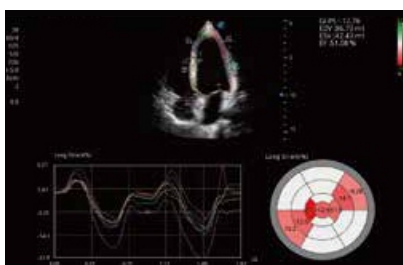

Tissue Doppler Imaging (TDI)
Tdi uses myocardial doppler frequency shifts To quantify myocardial tissue motion. Color Doppler and pulsed doppler are both available

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.

Technical Specifications

Imaging Mode	B-Mode, THI, PHI, Color Doppler Mode, Power Doppler, Directional Power Doppler Imaging, Tissue Doppler Imaging, Pulsed Waved Doppler, Continous Wave Doppler, HPRF, M-Mode, Color M mode, Anatomic M-Mode, Freehand 3D Imaging, Static 3D, 4D Imaging
Clinical Application	Abdomen, Cardiovascular, Obstetric, Gynecology, Musculoskeletal, Small parts, Anesthesia, Interventional ultrasound, Vascular, Urology, Pediatrics, Orthopaedics.
Probe Frequency	1 - 17 Mhz

Ergonomics

Display	21.5-inch high resolution color monitor, user friendly touchscreen 13.3" wide with high sensitivity touch & anti-glare, east to control
Probe connector	5 Probe sockets (4+1) and 1 pencil probe connector
Connectivity	USB, VIDEO/S-VIDEO Output, DVI/HDMI Output, VGA/RGB Output
Image Magnification	Image zoom (Ratio of 0.8 to 10 times), Full screen zoom

Premium Capabilities (Optional)

4D Imaging	S Live & S Depth, S Live Silhouette, Multi-Slice, Auto face, AVC, Follicle, STIC, VCI, Colour 3D, Free View
Strain Elastography	High Strain Sensitivity with good image stability, available with the quatitative assessment of tissue characterization
Contrast Imaging	Optimized Signal Processing Technology, improved image resolution & penetration. With TIC (Time intensity curve) & Dynamic Acoustic Control
Cardiology	Auto - EF, Strain & Strain Rate, Stress Echo

Wide Application Transducers

Convex Probe – SC3A-50
Bandwidth – 1.0 – 7.0 MHz*

Linear Probe – SL12A-50
Bandwidth – 3.0 – 17.0 MHz*

Endocavity Probe –SV6V3N-50
Bandwidth – 3.0 – 15 MHz*

Cardiac Probe- SP51-50
Bandwidth – 1.0 – 7.0 MHz*

Single Crystal Convex – SC16-50
Bandwidth – 1.0 – 7.0 MHz*

Linear Probe – SL9A-50
Bandwidth – 4.0 – 16.0 MHz*

Volume Endocavity Probe – VE95-50
Bandwidth – 3.0 – 15 MHz*

Volume Convex Probe – VC62N-50
Bandwidth – 2.0 – 7.0 MHz*