AeroSCAN

CD50 AI PRO

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Lucid Imaging · Intelligent Solution · Talented Features · Easeful Experience

CD50 AI Pro, 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 CD50 AI Pro to revolutionize the spectrum of patient care, with leading edge ultrasound technologies.

Evolved

Lucid Imaging

Image quality always lies at the core of definitive clinical outcomes. CD50 AI Pro 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.

Intelligent Solution

Routine over-repetitive exams and complicated operation are stressing out ultrasound clinicians. Intelligent solution provided by CD50 AI Pro streamlines parts of the workflow to improve remarkably efficiency, with AI-powered tools including measurement, parameter adjustments, image optimization, etc.

Talented Features

Ultrasound is being versatile and taking on more and more clinical tasks. As a vanguard to help clinicians easily accomplish more, CD50 AI Pro, is integrated with a comprehensive suite of advanced features covering General Imaging, OB/GYN, Cardiovascular and more.
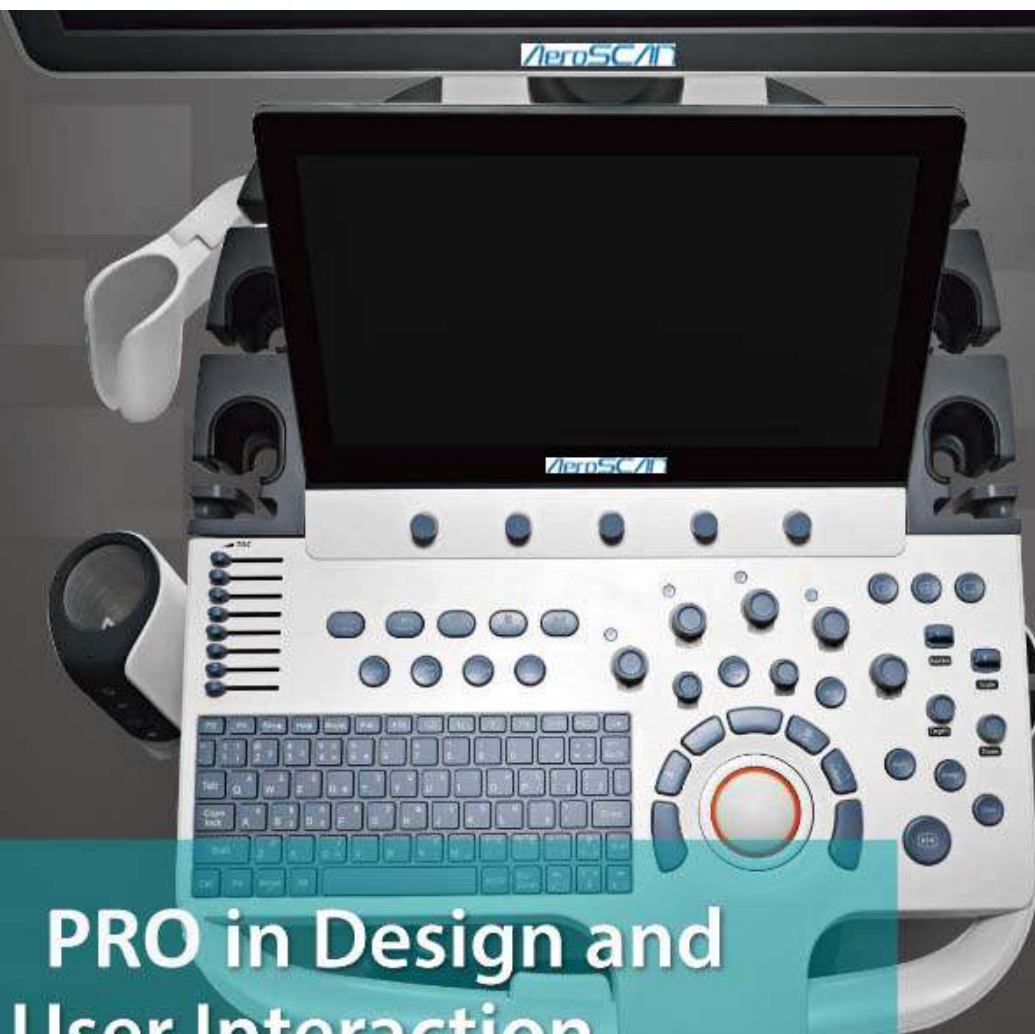
Easeful Experience

Hours of work to be done routinely, clinicians all longs for an easeful ultrasound experience without doubt. CD50 AI Pro takes every tiny detail into consideration and commits to devise a customer-centered interactive system that makes every scan count.

CD50 AI PRO

designed to generate a sheer ELITE performance, is a trustworthy partner aiding in the acquisition of informative clinical evidence and evaluation across a wide range of applications with intuitive operation. Made to inspire every each scan, it is our commitment to create elegance and comfort for you to enjoy CD50 AI Pro with limitless possibilities, from now to the future.

- 21.5" high resolution LED monitor with articulating arm and 13.3" high sensitivity touch screen for improved user experience.

- Compact, robust design offers enhanced mobility and easy accommodation even in difficult space.

- Power management with a battery supporting 2 hours continuous scanning in case of power failure.

- Simplified control panel and customizable keyboard help to optimize exam workflow and increase flexibility for different user preference.

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

PRO in Design and User Interaction

Taking into consideration the evolving expectations and needs for ultrasounds, the compact build of **CD50 AI Pro** elevates the accessibility of precision imaging to serve more patients with its lightweight portability, a highly functional, rear-handle trolley system that is easy to move around and also fit in tight, insufficient space. Ingenious design, constituted with flexible mechanical adjustment, high-definition interface and freely customized setting, touches every element and provides ease of use covering a variety of scenarios throughout clinicians' daily work.

Aero-help

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

Aero-drop

Aero-drop provides a fast and convenient ultrasound image transmission between CD50 AI Pro and the patients' smart devices. The bond between clinicians and patients is strengthened through more frequent communication.

Aero-synch

Real-time screen and live video sharing, enabled by **Aero-synch**, makes it possible to connect two ultrasound in a remote distance and perform remote medical consultation and tutorial.

Pro in General Imaging

Versatile capability in multi-field makes CD50 AI Pro a perfect match to the use in general imaging. More accurate and fast diagnosis is facilitated by CD50 AI Pro with advanced imaging tools.

Thyroid Nodule with SR-Flow

Renal Blood Flow with Bright Flow

Renal Blood Flow with Micro F

Hepatic Carcinoma with MFI Time

Contrast Time Intensity Curve

Thyroid Stiffness Evaluation with Strain Elastography

High Quality 2D/Doppler Imaging

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.

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.
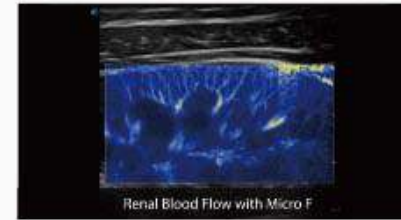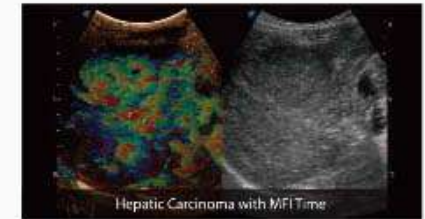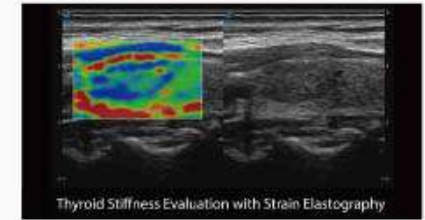
Micro F

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.

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.

PRO in OB/GYN

The caring for maternal and fetal well-being is underlying the conception of designingCD50 AI Pro. Outstanding 3D/4D imaging. Intelligent evaluation. Streamlined workflow. Those are the exact ways how CD50 AI Pro is transforming OB/GYN exams.



Realistic 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, 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.
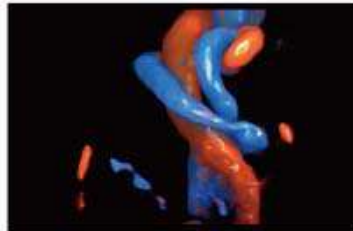
Smart Fetal Biometry

S-Fetus

Based on a big data dependable deep learning algorithm derived from big data, 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.

Women's Health

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. 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.
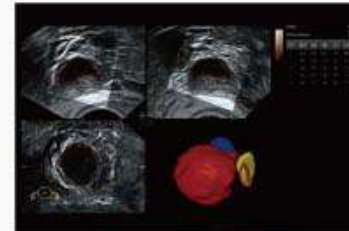
PRO in Cardiovascular

CD50 AI Pro takes the following as its duty; visualize anatomy more confidently with enhanced 2D and color image quality; accelerate exams with automated expert tools; gain quantitative results with advanced capabilities for heart function assessment.

Enhanced 2D/Doppler Imaging

Compatible with advanced phased array transducers, single crystal S1-5 and high frequency 7P-A, **CD50 AI Pro is capable of** providing images with extraordinary spatial and temporal resolution for confident cardiac diagnosis. Excellent Doppler sensitivity empowers effective and accurate assessment of key cardiac performance including wall motion, wall thickness, valve function and hemodynamics.


Confident Evaluation

### Tissue Doppler Imaging (TDI)

TDI uses myocardial Doppler frequency shifts to quantify myocardial tissue motion. Color Doppler and pulsed Doppler are both available, the former for clear view of myocardial movement and the latter for spectrum based informative 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.
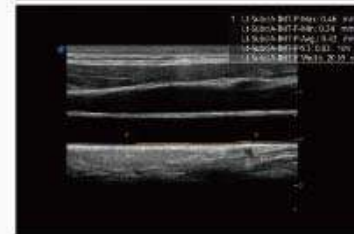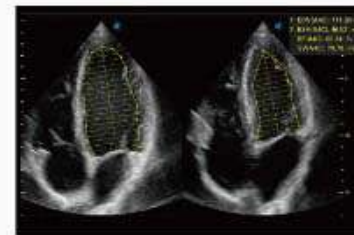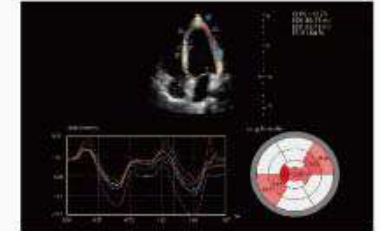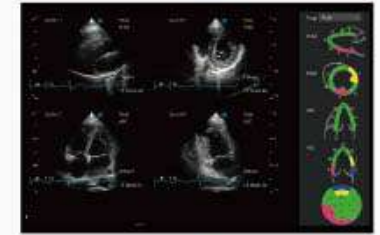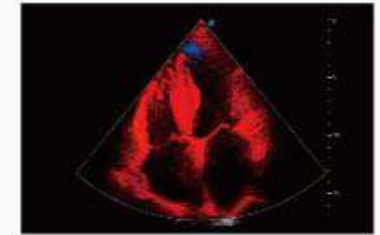
Simplified Workflow

Auto EF

Save more time and efforts compared with manual measurement with Auto EF, which calculates ejection fraction based on left ventricular wall tracing and Simpson's rule.

Auto IMT

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

Image Gallery

Abdominal Aorta with μ-Scan

Liver and Kidney with Single Crystal C1-6

Vertebral Artery PW with Auto Trace

Thyroid Blood Flow with SR-Flow

Uterus with 6V3

NT Analysis with HD Zoom

Fetal Placenta Blood Flow with Micro F

Lifelike Fetal Face with 5-Live

Aortic Regurgitation with S1-5