SonoScape

INTELLIGENCE
ARTICULATED

P60

Color Doppler Diagnostic Ultrasound System

SonoScape

SonoScape Medical Corp.

2F, 12th Building, Shenzhen Software Park Phase II, Keji Middle 2nd Road,
Nanshan District, Shenzhen 518057, Guangdong, China
Tel: +86-755-26722890   Fax: +86-755-26722850
Email: market@sonoscape.net   www.sonoscape.com

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Intelligence Articulated

P60, configured with SonoScape's latest prominent Wis$^+$ platform, is designed to provide more insightful and constructive evidence for diagnosis through authentic detail display, easy-but-effective intelligent analysis and streamlined workflow. Not only does P60 inherit SonoScape's consistent advantages in extraordinary imaging quality and optimized operation, but it also now benefits from the integration of state-of-the-art artificial intelligence technology and is dedicated to offering exceptional user-experience for a wide range of applications.

Wis$^+$
An Artificial Intelligence Based Ultrasound Platform

Wis$^+$ is a newly-developed ultrasound platform seamlessly incorporated with Artificial Intelligence. The built-in deep-learning based algorithms, Convolutional Neural Networks, mimic the function of the human brain and are capable of learning and evolving with data. Thanks to the assimilation of big data, Wis$^+$ is equipped with versatile features that can achieve automated recognition and analysis of tissue structures and lesion characteristics. With Wis$^+$, the acquisition and interpretation of ultrasound images become unprecedentedly efficient, convenient and more importantly, accurate.

AI
Intelligent

Accurate

Efficient

Micro F

## Enables visualization for micro-vascularized structures

Micro F provides an innovative method to expand the range of visible flow in ultrasound, especially for visualizing slow flow tiny vessels. By adopting an advanced adaptive filter and accumulating temporal and spatial signals, Micro F can distinguish minute flow from overlaying tissue movement effectively, and depict hemodynamic with higher sensitivity and spatial resolution. Detailed views of blood flow in relation to nearby tissue offered by Micro F render more diagnostic confidence to evaluate lesions and tumors.

Micro F clearly shows the anatomical structure of renal vessel branches, even the tiniest ones near the cortex.
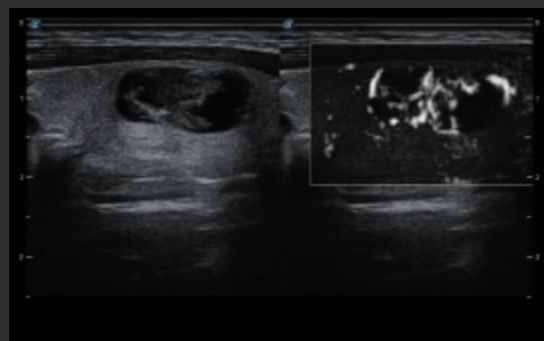
Micro F's superb vascular visualization is capable of enhancing the diagnostic evidence for assessing tumors and lesions.
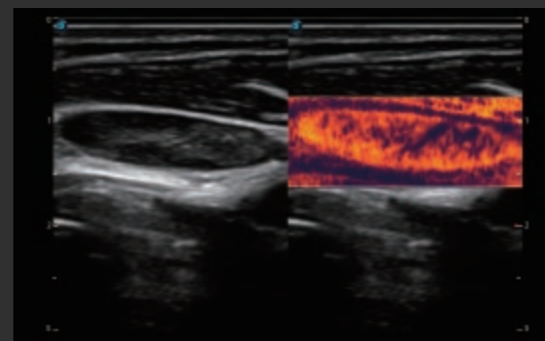
Micro F provides abundant and detailed flow information of the cervical lymph node.

CEUS
Exerts the full potential of micro flow imaging

The comprehensive contrast-enhanced ultrasound imaging and quantification package on P60 offer doctors a thorough solution to evaluate perfusion dynamics in a wide range of clinical settings. Dynamic Acoustic Control technology can generate a uniform acoustic pressure along the whole field and therefore elongate contrast agent duration and improve lesion perfusion. The combination of MFI, MFI Time and MFI Mix allows doctors to view the lesion perfusion from different perspectives and hence diagnose more easily and precisely.
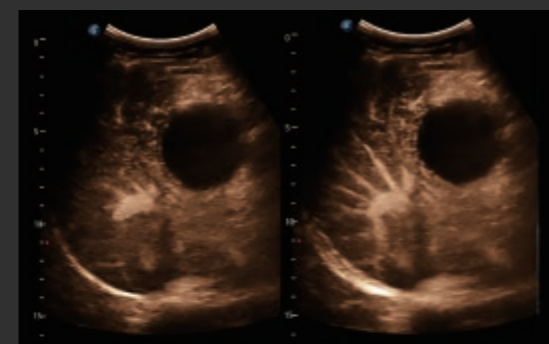

Obstructive Cholestasis with MFI

Micro Flow Imaging automatically accumulates uptake of contrast agent and helps you trace small bubble populations, even in very low-perfused and peripheral areas.
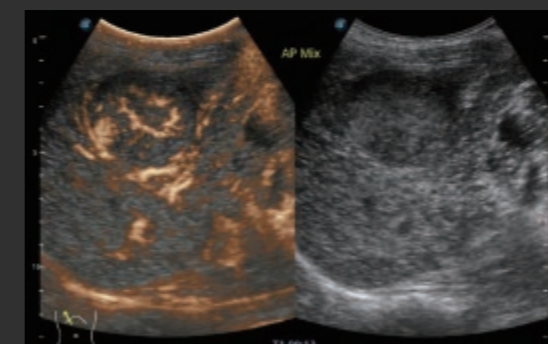
HCC with Mix Mode

Mix Mode offers an overlapped display of the contrast enhanced image together with the fundamental B mode image to help doctors better locate target lesion correctly.
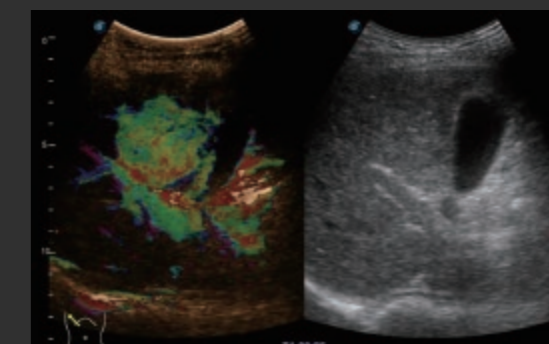
HCC with MFI-Time

MFI-Time helps to visualize both vascularization and perfusion intuitively by color coding the arrival times of contrast agents on different phases.

Artificial Intelligence*

Brings unprecedented improvement on efficiency and accuracy

The adoption of AI on P60 not only simplifies the workflow greatly, but also provides enhanced reproducibility and consistency in measurement. With well-trained AI algorithms, the burdensome structure recognition and manual measurement procedures are now replaced with one-key operation. Given the big data used in the algorithms, the variables, which may affect the diagnosis consistency and repeatability, for example doctors' experience, conditions, could no more be a problem because of the uniform and precise guidelines built by AI. AI features are now available on S-Breast, S-Thyroid, S-Fetus and S-Pelvic.

S-Breast

By simply setting ROI frame on a suspicious lesion, S-Breast helps to outline the lesion border and report the classification of suspicious breast lesions according to BI-RADS (Breast Imaging-Reporting and Data System) standard. The simplified workflow can both improve efficiency and provide standardized reporting on the classification of benign and malignant masses.
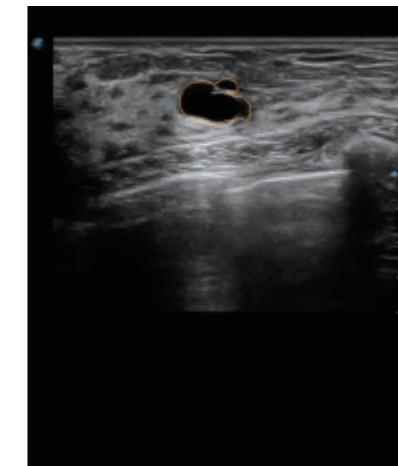
5 Lt-Les_H:
6.32 mm
Lt-Les5_W:
10.14 mm
Lt-Les5_Area:
48.47 mm^2
BI-RADS
1 Shape
Irregular
2 Orientation
Parallel
3 Margin
Circumscribed
4 Echo pattern
Anechoic
5 Posterior feature
Enhancement
6 Calcifications
None
BR2

S-Thyroid

S-Thyroid is an advanced tool in detecting and classifying suspicious thyroid lesions based on ACR TI-RADS (American College of Radiology Thyroid Imaging Reporting and Data System) guideline. After selecting the region of interest, S-Thyroid can automatically define the lesion boundaries and generate a report regarding the features of the suspicious lesion.
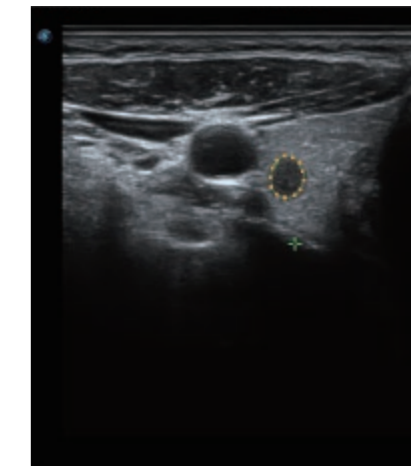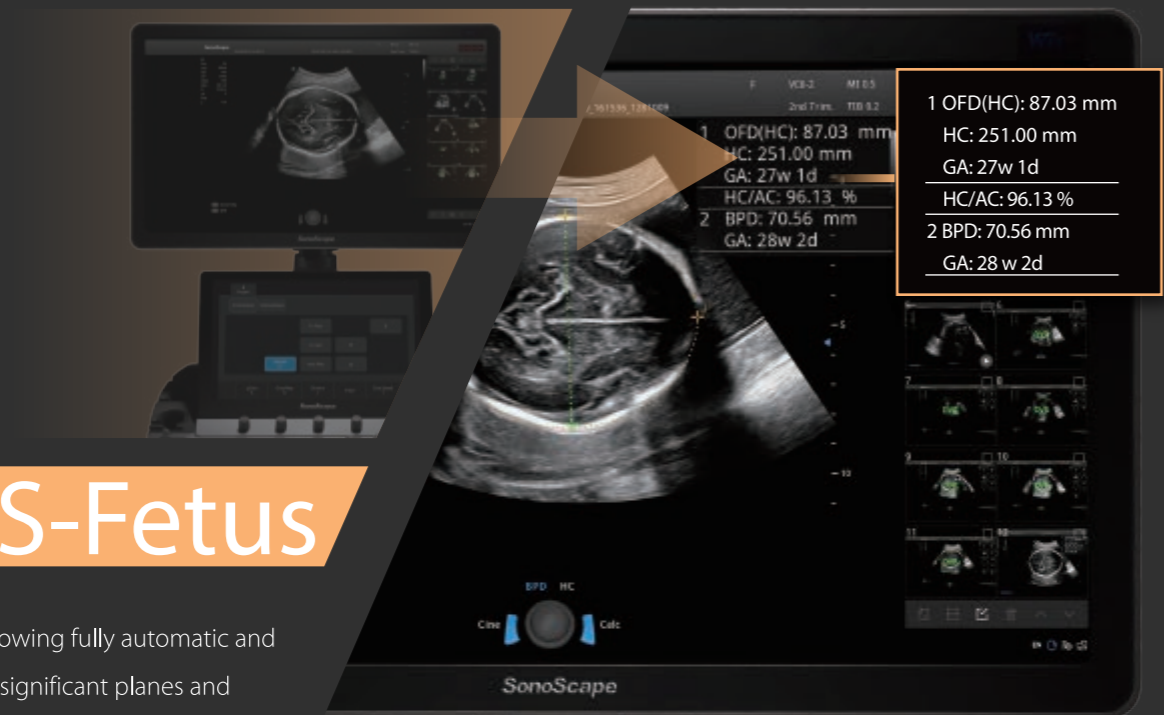
Tumor_H:
4.58 mm
Tumor_W:
3.71 mm
Tumor_Area:
0.13 mm^2
Shape
Taller than wide   3
Margin
Lobulated or irregular   2
Echogenicity
Hypoechoic   2
Echogenic Foci
None or large comet tall artifacts 0
Composition
Solid or almost completely solid   2
Total Points: 9
TI-RADS: TR5
Advice: >=1.0cm   Follow
             >=1.5cm   FNA

1 OFD(HC): 87.03 mm
HC: 251.00 mm
GA: 27w 1d
HC/AC: 96.13 %
2 BPD: 70.56 mm
GA: 28 w 2d

S-Fetus

S-Fetus is a user-friendly tool allowing fully automatic and accurate detection of the most significant planes and frequently used measurements of fetal biometry. Automatic standard plane acquisition and biometry measurements are the two main components of S-Fetus. With a cine loop of the fetal head, S-Fetus can extract the standard planes and display the measurement results in 2 seconds, reducing the required keystrokes and working time remarkably by several times. It is designed to transform obstetric ultrasound examinations into a much cozier, faster and more delightful experience.
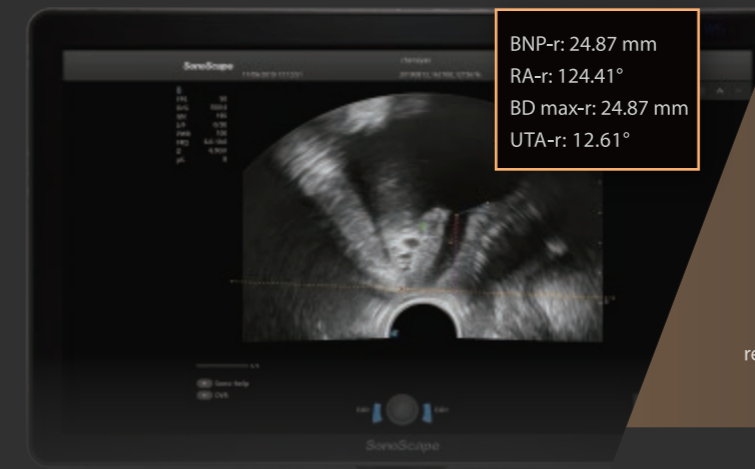
S-Fetus(acq.)
&
S-Fetus(meas.)

BNP-r: 24.87 mm
RA-r: 124.41°
BD max-r: 24.87 mm
UTA-r: 12.61°

2D: Auto Anterior Compartment Evaluation

After the acquisition of standard middle sagittal view, S-Pelvic helps to evaluate anterior compartment automatically. Two mainstream systems of coordinates, referring to horizontal line or 135° to the central axis of symphysis pubis, are available to meet doctors' different requirements. Bladder neck mobility and urethral rotation are displayed right after measurements done under rest and Valsalva maneuver.

Lev.Hiat A-r: 16.33 cm2
Lev.Hiat H-r: 53.70 mm
Lev.Hiat W-r: 43.96 mm
Lt-LUG-r: 24.16 mm
Rt-LUG-r: 19.94 mm

3D/4D: Auto Levator Hiatus Evaluation

Trace of Volume of Interest (VOI) can be exhausted and time-consuming in manual levator hiatus evaluation. However, S-Pelvic makes it no longer an annoying process by automating the trace and measurement with one-key operation. Measurement items including area, height, width of levator hiatus and levator-urethra gap are acquired at once after the trace completes in less than 1 second.

S-Pelvic

S-Pelvic is an advanced tool designed to reinvent the way clinicians evaluate Pelvic Floor Dysfunction (PFD). Due to highly intelligent capabilities, full automation of pelvic floor anatomy recognition, trace and measurement are now available, and can be achieved with one click at unprecedented ease. Moreover, S-Pelvic fulfills auto anterior compartment evaluation in 2D and auto levator hiatus evaluation in 3D/4D, and takes both rest and Valsalva maneuver into consideration, aiming to cover as many as possible steps and details in pelvic floor ultrasound and offer a comprehensive user experience.

Advanced Cardiovascular
Strives for a comprehensive solution for cardiac evaluation

The remarkable upgrade P60 has made on both imaging quality and accurate quantification makes it the most versatile ever model of SonoScape in cardiovascular. Clear display of anatomical structures and hemodynamics and precise functional assessment are at the core of diagnosis evidence in cardiovascular imaging. Equipped with SonoScape's unique pure single crystal phased array transducers and state-of-the-art processing technology, P60 is committed to restore every fine detail and element for precise diagnosis. New Myocardium Quantitative Analysis (MQA) provides in-depth quantitative report on global and regional myocardial wall motion dynamics of the left ventricle, offering doctors a comprehensive assessment of myocardial functions.
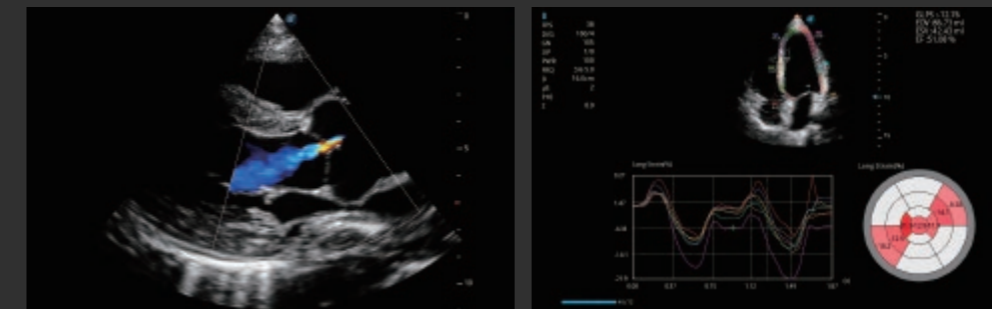
Extraordinary performance in 2D and color mode presents authentic cardiac anatomy details. Combined with SonoScape's advanced wall motion tracking technology, P60 can provide precise analysis on myocardial functions.
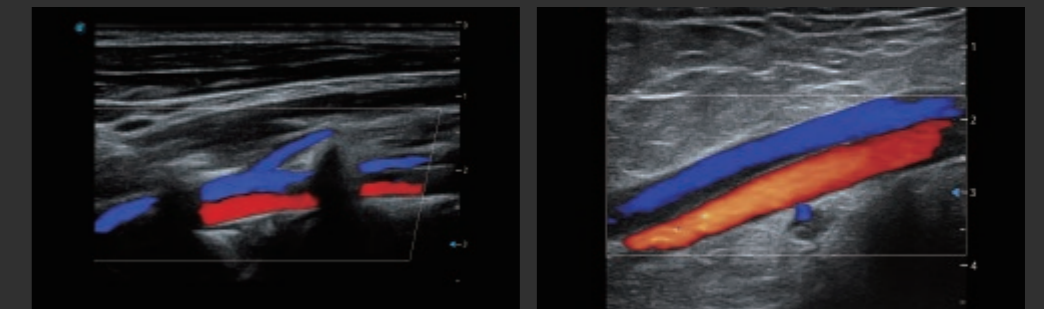
Exquisite blood flow sensitivity, penetration, temporal and spatial resolution achieved by P60 clearly exhibits the profile of blood flow velocity and every detail of hemodynamics, even at deep parts.

Optimized Design

Inspires every ergonomic scanning

Compact yet Powerful Design

The design of P60 focuses on simplicity and compactness but makes no compromise to powerful performance. Height adjustable and lateral rotatable panel and an articulating monitor arm can basically satisfy any requirements under different scanning conditions.

Gel Warmer

To ensure a comfortable patient experience, a gel warmer is available to be installed on the side of the control panel.

24-inch LED Monitor (*optional)

P60 features a large size 24-inch high definition LED monitor, providing excellent image display to users.

13.3-inch Tilting Touch Screen

13.3-inch touch screen allows users to browse and select functions with ease. A tilting design works for adjustment in terms of users' needs.

User-friendly Layout

Unique console design provides easy access to all kinds of common-used operation. Shortcut and customizable keys make it possible for users to tailor the workflow at their convenience.

Built-in Battery

A built-in battery supports P60 to work for 2 hours without power supply, leaving users no worry about accidental pause and data loss due to power outage.

Streamlined Workflow

## Makes the interaction with ultrasound silky smooth

It is our commitment to make the user interaction with ultrasound as delightful and easy as possible through an ingenious design and diverse automation tools. P60 is exactly a combination of both and enhances efficiency greatly by reducing keystrokes.

Auto button

Auto is a shortcut key on the control panel that helps to adjust important imaging parameters automatically. It is available under B mode, CFM mode and PW mode. Moreover, it can be user-defined to activate AI-featured functions (S-Fetus, S-MSK, S-Breast, S-Thyroid), and therefore users won't be bothered searching on the touch screen. It is a unique design for saving doctors' much time and effort and allowing them to stay focused on the patient instead of being distracted with system operation.
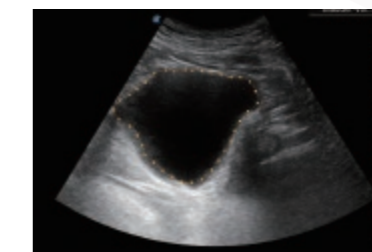
Automated tools

Automated measurement and analysis tool package on P60 makes every exam more consistent, accurate and fast in different applications.
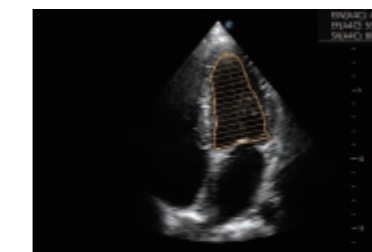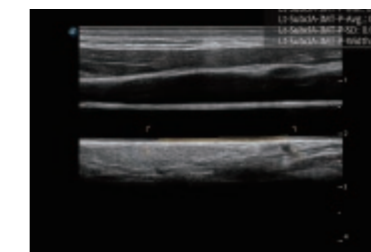
| Auto EF | Auto IMT | Auto Bladder | Auto OB (NT) |