

ES - 3002

4D High End Echocardiography Machine



EPCC / PRODUCTS / APPLICATION / SOFTWARE / ACCESSORIES / CONSUMABLES / SERVICES

Analytical Technologies Limited

An ISO 9001 Certified Company

www.analyticalgroup.net

►► **Product Introduction**

Powerful Echo Ultrasound, Professional Cradiac Ultrasound Machine

The high-end ultrasound this device model applies outstanding image resolution, intelligence operation flow, ergonomic design and intimate man-machine interaction as an organic whole.

Operation Panel 110° Horizontally Adjustable



OPERATION PANEL 18CM VERTICALLY LIFTING
TOUCH SCREEN: 0°-45° ADJUSTABLE FLIP

Home Screen 21.5 inch medical HD display

Touch screen 13.3-inch oversized touch screen
Touch screen fast navigation, simplify
operation, reduce user fatigue, improve
the work efficiency of doctors

Integrated keyboard, easy to operate

Rich Optional Transducers

- Trans-vaginal probe
- Convex probe
- Linear probe
- Micro-convex probe
- Trans-rectal probe
- Phased array probe
- 4D Volume probe

Four wheels are all equipped with foot brakes



▶▶ **Smooth Workflow**

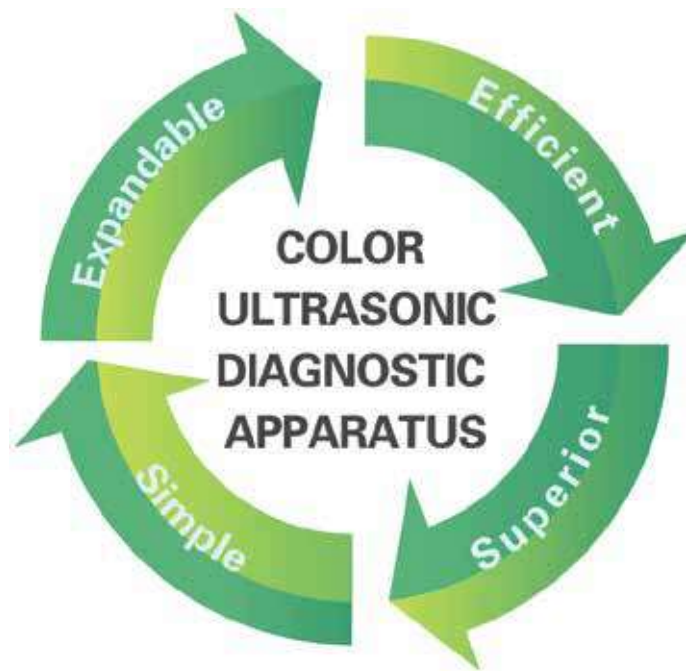
The whole is elegant and beautiful, the diagnostic measurement package is rich and comprehensive, and the operation process is simple and fast.

▶▶ **Expandable**

Four fully activated probe interfaces. USB image storage export. Can connect external monitor and printer.

▶▶ **Efficient**

- Built-in file information management system can record the number, name, check number, check date, and so on, and can search through the number, check number, name and so on.
- The diagnostic report can be edited, ultrasound diagnostic image can be embedded in the report, and directly printed.



▶▶ **Simple**

Integral small keyboard, easy to operate. Probe storage tank free combination.

▶▶ **Superior**

- Main screen is 21.5-inch and auxiliary screen is 13.3-inch medical ultrasonic touch screen, to meet the needs Of doctors from different angles.
- The full use Of touch screen can reduce inaccurate operation caused by button contact and pressing, and minimize user fatigue.

▶▶ **Clear Image Visualization**

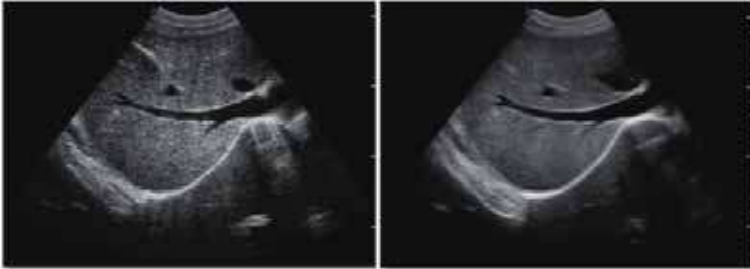
High quality clinical performance, rich measurement software can quickly and conveniently solve the needs of cardiology, abdominal, peripheral vascular, superficial parts, skeletal muscle, gynecology, obstetrics, urology, newborn and other clinical diagnosis. Stable platform and user-friendly operation design improve the work efficiency of doctors to a greater extent.

- Continuous wave Doppler Imaging(CW)
- Anatomic 3M Mode Imaging
- Auto 'MT (intima—media thickness) Measurement
- 3D/4D Imaging
- Trapezoidal Imaging & Panoramic Imaging
- Speckle Noise Suppression



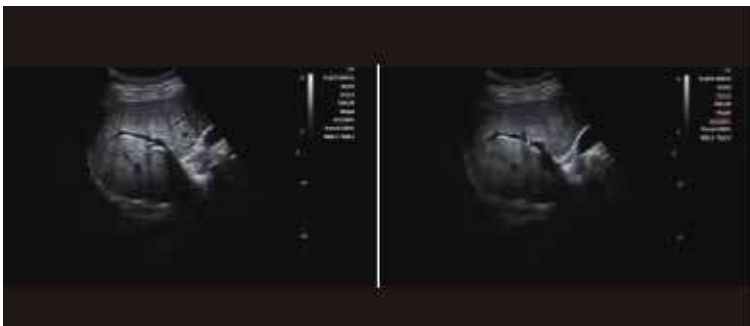
▶▶ **Micron imaging technology**

Micron imaging technology, real-time tracking Of specific signals at the edges Of different tissues, to achieve edge enhancement, and monitor each pixel at the same time; optimize the internal signal Of the organization and perfectly integrate the edge information and the internal pixel information Of the organization to restore the real and delicate, excellent level contrast Two-dimensional image.



▶▶ **Harmonic imaging technology (THI)**

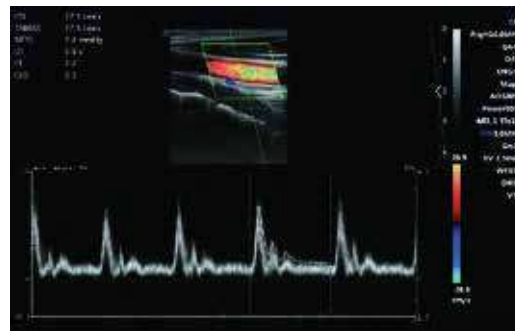
It improves image clarity by improving tissue contrast resolution, spatial resolution, and eliminating near-field artifacts. It is mainly used for the diagnosis Of cardiovascular and abdominal diseases. It plays an important role in evaluating the lesion area and boundary division Of patients with imaging difficulties. The technology has been fully approved by clinicians. Harmonic technology retains the second harmonic signal to the greatest extent based on removing the fundamental signal, which increases the signal strength by more than compared with the traditional signal processing, reduces noise and artifacts, and improves the contrast resolution Of tissue images.



▶ **Trapezoid imaging**

Trapezoid imaging is a kind of expanded imaging, which is transformed into a trapezoid based on the original rectangle, and the left and right sides are expanded to a certain extent, achieving a wider field of view.

The principle of ultrasound imaging is to scan the human body with ultrasonic sound beams, and obtain images of internal organs by receiving and processing the reflected signals.



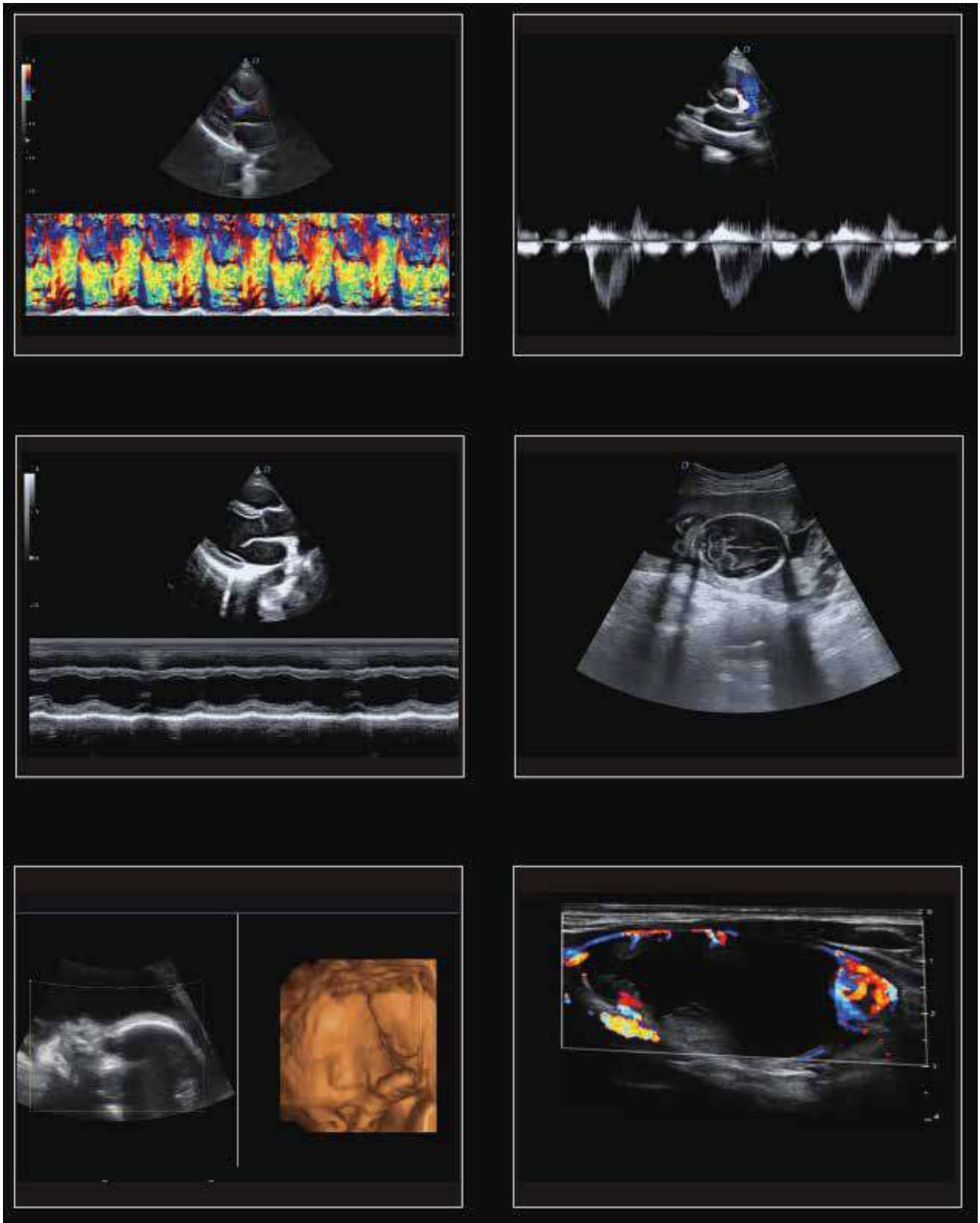
▶ **Automatic spectrum tracking measurement technology**

Ultrasound Doppler technology is used in the ultrasound system for examining the heart and arteries and veins. It is necessary to extract relevant parameters from the Doppler spectrogram to evaluate the hemodynamic status of the heart and blood vessels. The disadvantage of manual detection is that the operator's marking of the peak velocity is relatively monotonous and time-consuming, with poor repeatability and low estimation accuracy; and during the detection, in order to mark the peak velocity, the operator needs to interrupt the acquisition of Doppler signals, which makes it impossible to estimate in real time. This host contains an automatic envelope detection module, which can automatically track the time-related changes of the peak blood flow velocity and average velocity, and display them in real time on the Doppler spectrogram.



Versatile Applications

▶▶ **Clinical image cases**



►► **Part of the probe display**



Convex probe
Application: Abdomen,
Obstetrics,
Gynecology



Linear probe
Application: Small Parts,
Vascular,
Musculoskeletal



Trans-vaginal probe
Application: Obstetrics,
Gynecology,
Urology



4D Volume probe
Application: Abdomen,
Obstetrics,
Gynecology



Micro-convex probe
Application: Small parts,
baby organs



Phased array probe
Application:
Heart and chambers,
cardiac function, pericardial
effusion



Trans-rectal probe
Application: prostate gland

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HPLC Servicing :HPLC Servicing : We have team of service engineers who can attend to any make of HPLC promptly @the most affordable cost.

Trainings :We also take up preventive Maintenance to reduce downtime of HPLC's Trainings.

AMC's/CMC :AMC's/CMC :We offer user training both in-House and at customer sites on HPLC principles, operations, trouble-shooting.

Validations :Validations :We have protocols for carrying out periodic Validations as per GLP/GMP/USFDA norms.

Instruments :Instruments :We offer instruments/Renting Services Modules like pumps,detector etc. on Rent.



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Infra FTIR



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Chromatograph
3007



Optima Gas
Chromatograph
2979 Plus



Flash
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Atomic Absorption
Spectrophotometer



Liquid Particle
Counter



Optical Emission
Spectrophotometer



DSC/TGA



Semi Auto Bio
Chemistry Analyzer



HEMA 2062
Hematology
Analyzer



Micro Plate
Reader/Washer



URINOVA 2800
Urine Analyzer



Total Organic
Carbon 3800



Fully Automated
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TOC
Analyzer



Laser Particle
Size Analyzer



Ion Chromatograph



Water purification
system

Regulatory compliances



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