FOR LOVE
IMAGE THE WORLD

DW–P8

PORTABLE FULL DIGITAI COLOR DOPPLER ULTRASOUND SYSTEM

PROFESSIONAL CARDIAC ULTRASOUND MACHINE

Ingenuity
Serve The Sound

15" high resolution display,rechargeable battery for over 2 hours continuously work. Comprehensive ultrasound diagnostic solutions, rich software for Cardiology,Abdominal,Gynecology,Obstetrics, Vascular,Neonatal and Pediatrics,Musculoskeletal,Urology,Small parts and other applications. Advanced functions and analysis tools can be incorporated into your daily routine.

15-Inch full-view medical HD display on the main screen

USB 3.0 interface clinical picture, video, report storage, export

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 •

Smooth Workflow

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

Portable

□ Smaller size, easy to move,suitable for ultrasound examination applications in various environments, long standby time.

More powerful

□ To have powerful image processing functions, a wide range of technical applications, harmonic imaging, harmonic fusion, free arm 3D, elastography, trapezoidal imaging, contrast imaging.

Wide range of applications

□ The systemic application type is mainly used in the diagnosis and research of abdominal and obstetric and gynecological ultrasound. It has the application capabilities of cardiovascular, peripheral blood vessels, obstetrics and gynecology, abdomen,fetal heart, superficial tissues and small organs, intraluminal and puncture interventional ultrasound with powerful 4D analysis functions.

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.

□ **Real-time wide-field imaging (WFOV)**

□ **Trapezoidal imaging, continuous Doppler imaging**

□ **Free anatomy 3M imaging**

□ **IMT automatic measurement of blood vessel intima**

□ **Free arm 3D imaging, real time 4D imaging**

□ **Tissue Doppler imaging (TDI)**

□ **Spatial composite imaging,speckle noise removal technology**
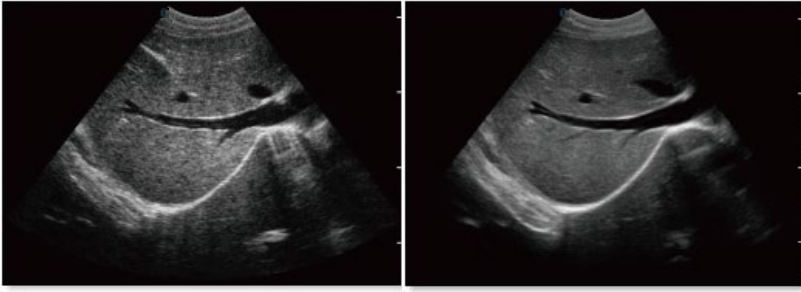
◄ **Micron imaging technology**

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.
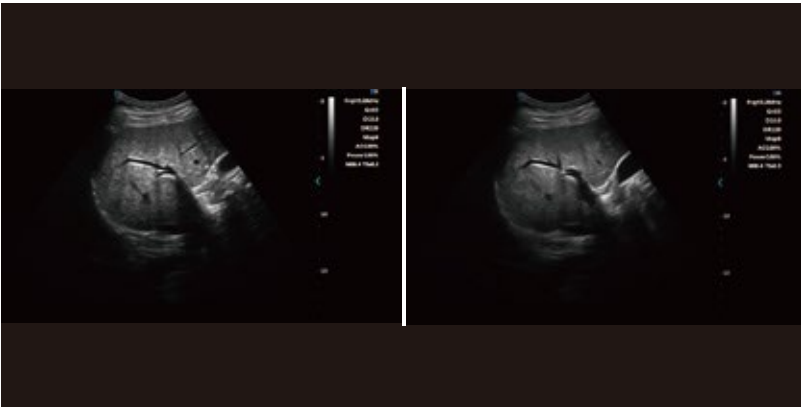
◄ **Harmonic imaging technology（THI）**

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 30% compared with the traditional signal processing, reduces noise and artifacts, and improves the contrast resolution of tissue images.
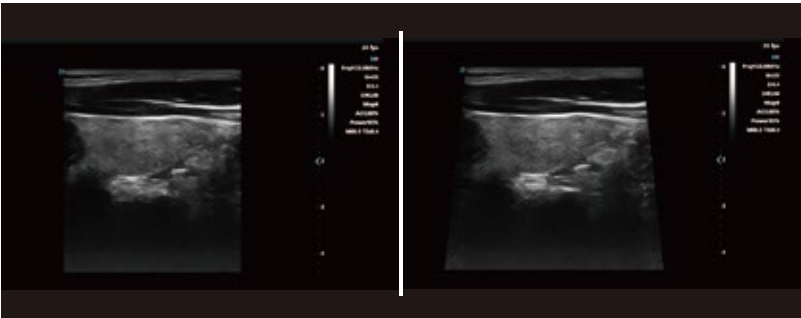

◄ **Trapezoid imaging**

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.
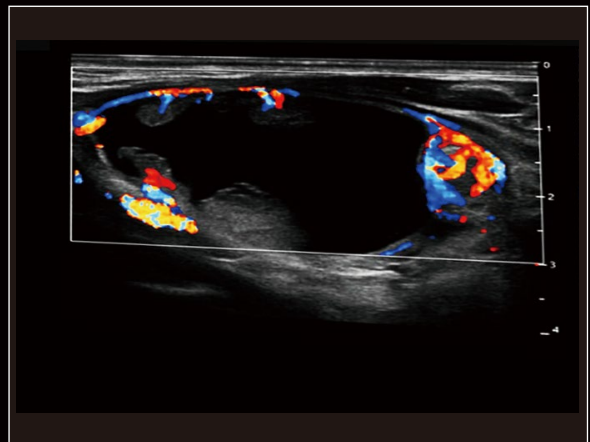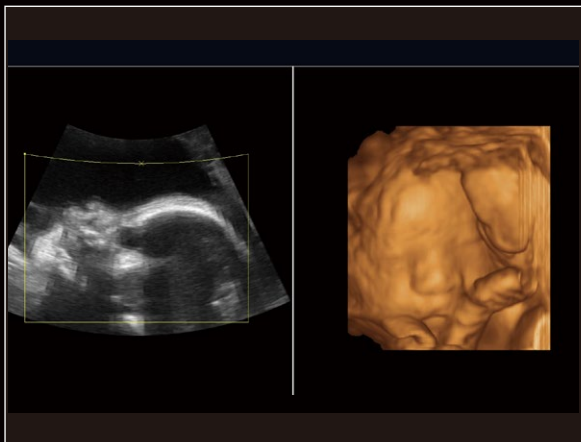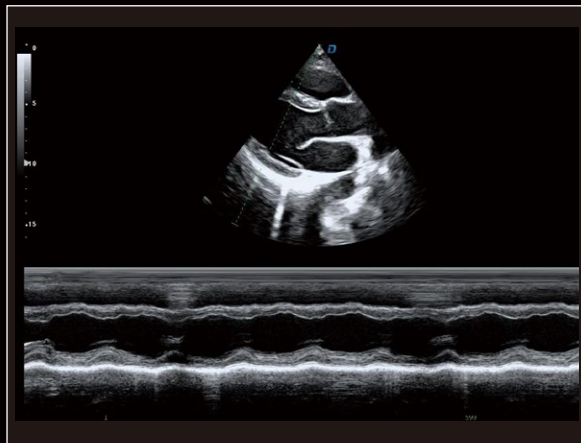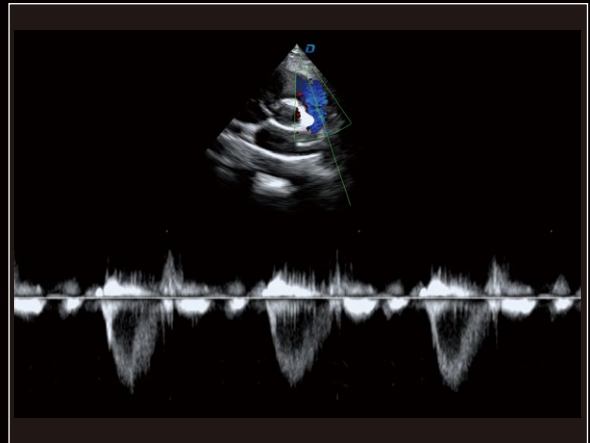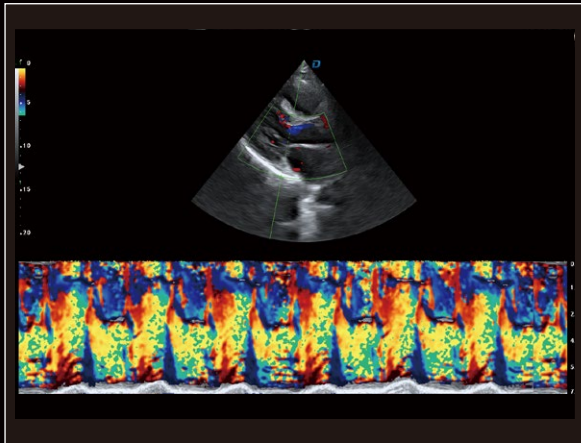This host contains an automatic envelope detection module, which can automatically track the time-related changes of the peak blood flow velocity and average velocity, and display them in real time on the Doppler spectrogram.
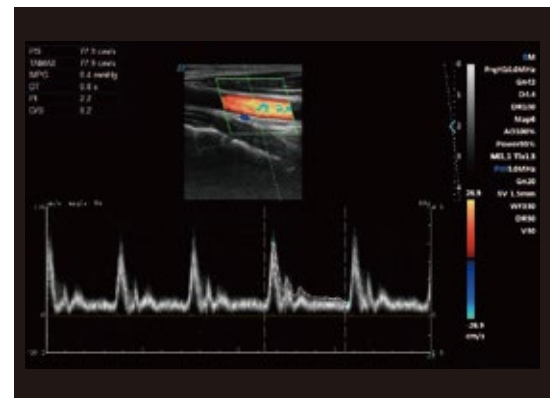
Versatile Applications

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


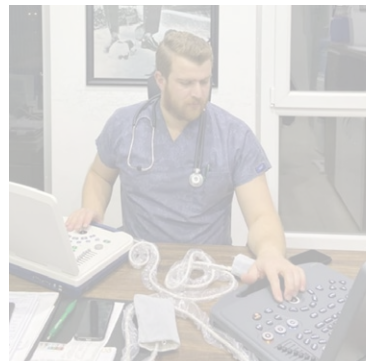**Trans-rectal probe**

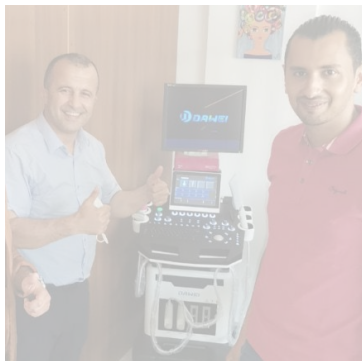Application: prostate gland

Sub–array technology

The dedicated high-density probe adopts a brand-new array design technology and a unique sub-array element technology. The second cutting of independent wafers can completely control the entire process of wafer vibration, thereby reducing side lobe artifacts and enhancing the fine resolution of tissues. The boundary between adjacent strong echo reflectors is sharper. It fully demonstrates the high-resolution images brought by the high-density probe, perfectly presents the image details, and increases the accuracy of clinical diagnosis.
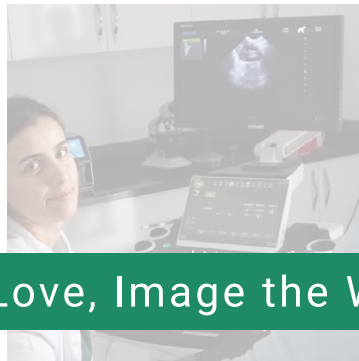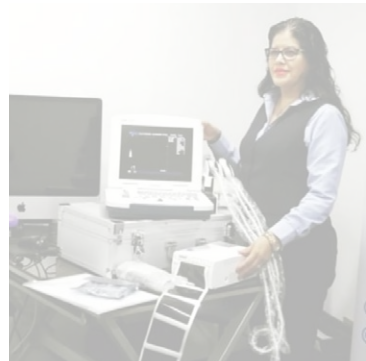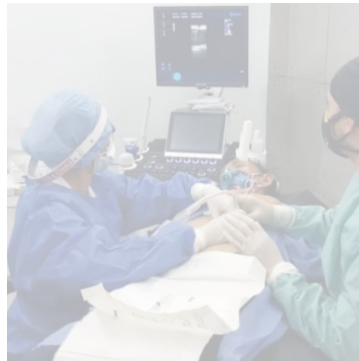
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