



- ABDOMEN
- UROLOGY
- SMALL PARTS
- THOPEDICS
- AND MORE



Dawei Medical

DW-F3

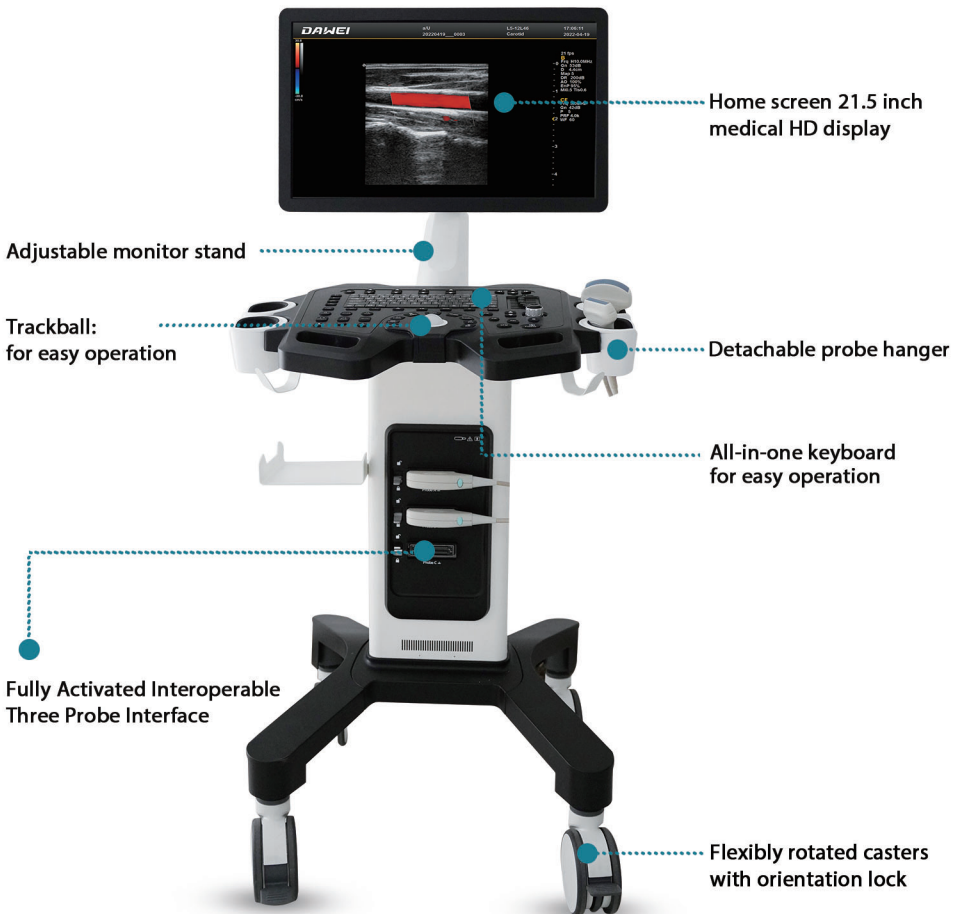
COLOR DOPPLER
ULTRASOUND SYSTEM



Full digital color Doppler ultrasound diagnostic instrument

The F3 has been designed from the relentless focus on delivering uncompromising performance at a cost-effective price. Equipped with high-end imaging technology, color images more delicate, higher clarity. With ergonomic design, High resolution medical display, image loss free.

SMART COLLABORATION RELIABLE OPERATION



Smooth Workflow

One-click intelligent optimization,
fast access to quality images
All-in-one clipboard
Smooth processing
Edge enhancement processing
The host built-in



Excellent image quality

Spectral pulse Doppler
Directional energy Doppler
Spatial composite imaging
Tissue harmonic imaging
technique
4B imaging mode

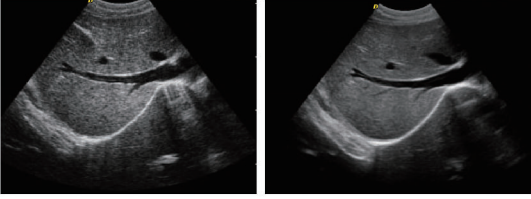
User-friendly operation

Backlit, easy-to-use control panel
the classical ergonomic design
With DICOM3.0 protocol, PACS
system can be connected



As an intelligent application of color Doppler ultrasound in Dawei Medical, it adopts the independent research and development and innovative ultrasonic operation platform – "Yunhai", which is equipped with an excellent-performance hardware structure and a rapid information transmission module, combining advanced probe configurations and technologies. Compared with the former ultrasound imaging system, it presents a clearer, more realistic, more sensitive and smoother ultrasound image. With various imaging function, perfect clinical solutions, this machine (DW-F3) operates simpler and more efficiently, which considerably improve staff efficiency and optimize interactions experience.

Clear image visualization



The research and development team of Dawei Medical has spent three years, integrating the most advanced design concept and technological innovation, to create DW-F3 full digital high performance full digital color Doppler ultrasound diagnostic instrument.

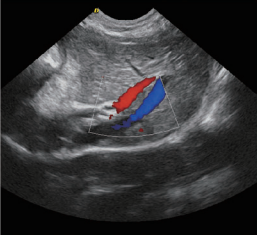
Intelligent operation process, humanized appearance

design and intimate human-computer interaction as a whole, so that doctors in the process of clinical diagnosis will focus on the patient itself.

Micro imaging technology

Micro imaging technology, real-time tracking of different tissue edge specific signals, to achieve edge enhancement, while monitoring every pixel; The internal signals of the organization are optimized and the edge information and the internal pixel information are perfectly fused to restore the real and delicate 2D image with excellent hierarchical contrast.

Tissue harmonic imaging (THI)



By improving tissue contrast resolution, spatial resolution and eliminating near-field artifact, image clarity can be improved. It is mainly used in the diagnosis of cardiovascular and abdominal diseases, and plays an important role in the evaluation of lesion areas and demarcation of difficult imaging. This technology has been fully recognized by clinicians. Harmonic technology retains the second harmonic signal to the maximum extent on the basis of removing the fundamental signal, which increases the signal intensity by more than 30% compared with the traditional signal processing, reduces noise and artifacts, and improves the contrast resolution of tissue image.

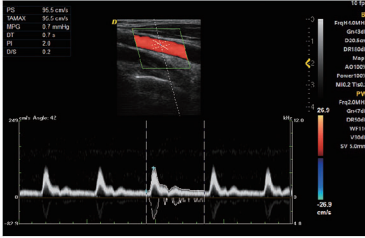
Trapezoidal imaging



It is a kind of extended imaging. On the basis of the original rectangle, it is transformed into trapezoid. The left and right sides are expanded to a certain extent to achieve a wider visual field.

The principle of ultrasound imaging is to use ultrasonic beam scanning organs, through the reception and processing of reflected signals, to obtain images of internal organs.

Carotid spectrum

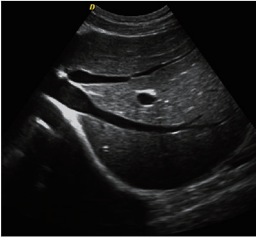


Spectral ultrasonography of carotid artery can provide a noninvasive, simple and reproducible method for the diagnosis of atherosclerosis. However, multi-parameter analysis should be advocated in the analysis of detection results. Besides the flow velocity of relevant vascular segments, pulsing index, spectral morphology, blood flow direction and blood flow sound should also be considered.

Carotid ultrasound is helpful to determine the nature of the ischemic cerebrovascular disease of carotid artery atheromatous plaque and stability, and to determine the degree of carotid atherosclerosis and

carotid stenosis, especially in the display has the advantages on the change of the arterial wall structure, for the early prevention and treatment of atherosclerosis provide objective basis, actively treating atherosclerosis and carotid stenosis in preventing ischemic brain have important significance.

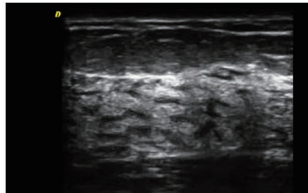
HD liver imaging effect



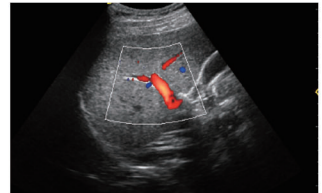
2D real-time ultrasound imaging is mainly used for the change of liver morphology. Ultrasound examination shows the pathological image of liver, which belongs to the change of acoustic physical properties. For the same lesion, different stages of disease development, ultrasonic image performance is different.



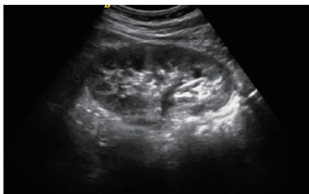
Biparietal Diameter



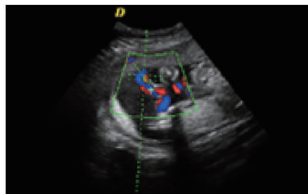
Breast



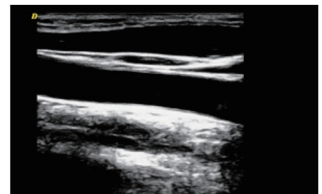
Liver



Kidney



Fetal Umbilical Blood Flow



Carotid Artery

Excellent Image Convenient Operation

Various software measurement packages to meet the increasingly complex clinical examination needs; Intelligent operation process, simple user interface & plenty imaging technology that can significantly improve the daily work efficiency, help doctors quickly collect images, and achieve more accurate output of diagnostic results.

Abdominal tissue
Musculoskeletal
system

Vagina
Rectum

Newborns
Peripheral
vessels
Small
organ

Clinical Trial Range >>

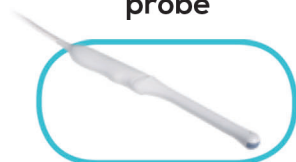
Imaging with clarity and accuracy

Transducers >>

Convex
probe



Trans-vaginal
probe



Linear
probe



Micro-convex
probe



Trans-rectal
probe

