VINNO6^{LAB}

Technical specifications

1. Equipment name: VINNO 6 Lab portable high-end color doppler ultrasound diagnostic instrument
2. Description of equipment usage: it can be used for pre-clinical ultrasound diagnosis of cardiovascular, tumor, urogenital, small organs, peripheral blood vessels and other aspects of laboratory mice/rat, with systemic application function.

System Overview

Architecture

- The revolutionary RF platform , The First In The World , allows for more accurate information. This platform transfers all RF data for computing w ithout any informat ion loss. It has a much better advantage in detail imaging than current advanced platforms.
- Thanks to the RF platform , it allows the development of many RF-based processing algorithms , which have ultra-premium contrast and resolution imaging
- This unique platform is capable of processing multiple data streams simultaneously
- Directional-enhanced information compiling for more tissue detail and reduction of angle-generated artifacts
- Next generation adaptive image processing for noise and artifact reduction that improves tissue presentation and edge definition
- Fully independent ,triplex multiple mode operation for easy in Doppler procedures
- Multi-processors allow simultaneous mode changes and support for advanced system functionality
- World-class design to be thinner and lighter
- First in class to introduce capacity touchpanel in portable ultrasound system to simplify workflow and customized workflow possibility
- Less 20 sec boot up time for easy mobile ability

Applications

- Abdomen
- Obstetr ic/Reproduction
- Gynecology
- Cardiology
- Urology
- Vascular
- Small Parts

Imaging features

- 2D grayscale imaging
- Harmonic imaging both in tissue harmonic and pulse inversion harmonic technologies
- VFusion,directional-enhanced information compounding
- Vspeckle I,specialized and adeptive imaging processing to remove speckle noise artifacts and enhance tissue edge for clarity and accuracy

- VTissue, the advanced adaptive imageprocessing to compensate for sound and speed variation in different tissue (optionl)
- Auto imaging optimization
- Easy Comparative Function to compare prevlous exam
- Color Doppler imaging
- Power Doppler imaging
- Pulse wave Doppler imaging
- Simultaneous 2D and M mode
- Duplex 2D/PW Doppler
- Triplex 2D/Color/PW Doppler
- High PRF pulsed wave Doppler
- Continuous wave Doppler
- Zoom
- FULL screen imaging to enlarge imaging size
- Dual real time imaging without compromlsmg Imagmg size
- TView for trapezoidal imaging
- PView for panoramic imaging(option)
- Three leads ECG function(option) *
- Tissue Doppler (TO) mode
- Tissue Ve locity Imaging (TVI) mode(option)
- Tissue Ve locity M mode (TVM)(option)
- Multi-angle M mode (option)

Standard features

- Up to 25Mhz high frequency in system platform
- RF platform and RF data processing
- Up to 1000 seconds cine storage
- 250GB SSD quick boot up and storage
- Patient information database
- Image archive on hard drive
- Quick store to USB memory stick
- Quick store to hard drive
- Report package
- Quick print to B/W and color thermal video printer
- Network storage and printing
- Full measurement and analysis package
- Real time auto wave Doppler track and calculations
- Vascu lar calculations
- Cardiac calculations
- OB /Reproduction calculations and tables
- Gynecological calculations
- Renal calculations
- Wireless networking for easy data sharing , storage and printing*(option)
- Up-to-date connectivity and data management solutions , wireless , LAN , integrated database *(option)
- Capability to send data to mobile by mail and blue tooth*(option)

- Total mobile medical solution for remote data transfer and diagnostic
- DICOM compatibility*(option)
- 2USB ports
- 6 TGC slides
- Average 4 multiple adjustable frequency in every probe and mode
- Up to 512 line density

Ergonomics

- Unique human oriented design for comfort and convenience
- 15.6-inch high resolution flat panel display with nearly infinite positioning adjustments
- Easy to carry by integrated handle
- Full integrated probe to reduce overall space
- Integrated touchable alphabetic keyboard
- Integrated capacity touch panel to easy and simplify workflow
- Cart support up to 200mm up/down operation panel*(option)
- USB DVDRW *(option)

Keyboard

- Highly sensitive 8 inch capacity touch panel
- Intuitive , configurable and touch interactive operation interface
- Ergonomic hard keys for general ultrasound operations
- 6 TGC slides , functionality at any depth
- Backlight keys

Image display screen

- 15.6 inch high resolution IPS , LED technology,pixel resolution
- Big angel tilting capability

Peripherals

- B&W thermalvideo printer: Sony UP-D897MD (option)
- Color thermal video printer: Sony UP- 25MD (option)
- Memory stick (option)

Dimensions and Weight

- Length: 387mm
- Width: 340mm
- Depth: 47.5mm
- Weight: 3.5kg

Electrical Power

- Voltage: 100-240V AC
- Frequency: 50/60Hz
- Power: Max.120VA

Transducers

Transducer Technology

- Xcen technology for w ideband frequency
- Pure wave technology for high resolution Imagmg

- Unique and high technical Xcen probe connector to adapt all different type of VINNO product models

Transducer types

- Convex array
- Linear array
- Phase array
- Endocavity probe
- Micro-convex array

Transducer selection

- Electronic switching of transducers
- User customizab le imaging presets for each transducer and application
- Automatic dynamic receiving focus in all transducers
- Multiple adjustab le transmit focal zone , up to 8 focal zoom

X6-16L broadband Iinear array

Laboratory rat heart, blood vessels, abdomen, tumor
- Fine pitch , high resolution
- Applications:vascular , small parts
- Frequency range: 6.5 -18MHz
- Pulsed wave Doppler , color Doppler , power Doppler , harmonic
- Multi-imaging frequency setting in 2D , Harmonic , color Doppler and Wave Doppler modes

X10-23L broadband linear array

Laboratory mice heart, blood vessels, abdomen, tumor
- Fine pitch , high resolution
- Applications:small parts
- Frequency range: 10 -23MHz
- Pulsed wave Doppler , color Doppler , power Doppler , harmonic
- Multi-imaging frequency setting in 2D , Harmonic , color Doppler and Wave Doppler modes

Contact us

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