

VINNO^QSERIES

(USB type)



Data sheet
V1.9.60



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1. Product Description

VINNO Q series products for its excellent innovative idea and highly integrated design, makes the small and light are suitable for all kinds of scenarios to use the product, can be convenient for various application scenarios provides excellent visual image and professional services for scan and analysis, meet the doctors, nurses, and with the view needs of various users.

2. System Architecture

2.1 System capability:

Based on the development of processing algorithms on a large amount of raw data, the image has ultra-clear contrast and resolution. It supports a new generation of digital broadband and high resolution beamforming devices up to 25 MHz with high efficiency processor performance up to 720 000 processing channels;

With a dynamic range up to 280 db, 2D image data performance is refined and enriched, and multi-angle spatial synthesis technology is equipped to obtain more detailed organization details and eliminate artifacts caused by organization Angle deviation;

A new generation of noise and artifact removal image processing technology improves tissue presentation and boundary resolution.

3. General Configuration

3.1 Dimensions and Weight:

7L: 59.2*183*27mm

3C: 59.2*186.9*27mm

2P: 59.2*186.5*27mm

Weight: 340g

3.2 Electrical Power:

Voltage : AC 100~240V $\pm$ 10%

DC 20V $\pm$ 10%

Frequency: 50/60Hz $\pm$ 1Hz

Battery working time: minim 8 hours.

3.3 Structure design:

Highly integrated and integrated design, with multi-purpose probe can be configured with shortcut keys, comfortable and convenient operation, cold light LED indicator design, users can clearly identify the direction;

3.3.1 Connector:

Type C interface combines power supply and signal transmission of the host.

3.3.2 Display requirements

High sensitivity capacitive touch screen;

System Resolution FullHD 1920x1200 and above;

System requirements :WINDOWS 10 and Android

Other requirements: Support Bluetooth 5.0 ; Support Wi-Fi 6: 802.11

3.3.3 Control Panel:

Full touch screen control panel

3.3.4 Keyboard:

Hard keyboard or touch-screen soft keyboard, which is convenient for users to use

3.3.5 Memory Store:

Hardware requirements:

Memory 8 Gb, Hard disk 256 Gb

4. System Overview

4.1 Applications

- Abdomen
- Obstetric
- Gynecology
- Cardiology
- Urology
- Vascular
- Vertebral Arteries
- Small Parts
- Pediatrics

- MSK

4.2 Transducer types

- Convex array
- Linear array
- Phase array

4.3 Display Modes

Synchro function

- 2D/PW
- 2D/CF or PDI
- 2D/M
- 2D/2D
- 2D/2D+CF or PDI
- Duplex 2D/PW Doppler
- Triplex 2D+PW+CF
- Time line display
- Independent dual 2D/PW or CW
- Timed based sweep update mode

4.4 Imaging modes

B mode

Tissue Harmonic mode

Phase Inversion mode

M mode

Multi-angle M mode (MAM) (optional)

CF mode

Dual real-time display mode

Power doppler mode, support directional energy doppler imaging function (PDI)

PW mode, including high PRF



Color motion mode(CM) (optional)
TView
PView
Needle enhancement (optional)

Probe & App
2D mode
CF mode
Freeze/Unfreeze
PW mode
M mode
PDI mode

5. User interface

5.1 Control panel and probe

Lightweight product design, sand-resistant hand-held anti-slip structure, the body is equipped with three multi-function buttons; Panel size : 12/14.6 inch highly sensitive touch screen, adjustable backlight brightness compatible with physical keyboard or touch-screen alphabet keyboard, easy for users to use; Intuitive touch parameters interface, support users to configure the layout of parameters on the touch screen: such as the mode application measurement notes and main mode menu; Built-in integrated high fidelity speaker; Professional application of preset gamma curve

Measurement
Comments
Body pattern
Store
TGC line
Display area
Gain control
Depth control
Imaging parameters
Tablet display connection control

6.2 2D mode (Freeze)

System setting
New patients
Probe & Apps
Freeze/Unfreeze
Measurement
Comments
Body pattern
Store
2D mode
Display area
Gain control
Cine loop
Imaging parameters
Tablet display connection control

6. Touch panel

6.1 2D mode (unfreeze)

System setting
New patients



6.3 M mode (Unfreeze)

System setting
New patients
Probe & App
2D mode
CF mode
Freeze/Unfreeze
PW mode
M mode
PDI mode
Measurement
Comments
Body pattern
Store
TGC line
Display area
Gain control
Depth control
Imaging parameters
Tablet display connection control

6.4 M mode (Freeze)

System setting
New patients
Probe & Apps
Freeze/Unfreeze
Measurement
Comments
Body pattern
Store
2D mode
M mode
Display area

Gain control
Cine loop
Imaging parameters
Tablet display connection control

6.5 CF mode (Unfreeze)

System setting
New patients
Probe & App
2D mode
CF mode
Freeze/Unfreeze
PW mode
M mode
PDI mode
Measurement
Comments
Body pattern
Store
TGC line
Display area
Gain control
Depth control
Imaging parameters
Tablet display connection control

6.6 CF mode (Freeze)

System setting
New patients
Probe & Apps
Freeze/Unfreeze
Measurement
Comments



Body pattern
 Store
 2D mode
 CF mode
 Display area
 Gain control
 Cine loop
 Imaging parameters
 Tablet display connection control

New patients
 Probe & Apps
 Freeze/Unfreeze
 Measurement
 Comments
 Body pattern
 Store
 2D mode
 PDI mode

6.7 PDI mode (Unfreeze)

System setting
 New patients
 Probe & App
 2D mode
 CF mode
 Freeze/Unfreeze
 PW mode
 M mode
 PDI mode
 Measurement
 Comments
 Body pattern
 Store
 TGC line
 Display area
 Gain control
 Depth control
 Imaging parameters
 Tablet display connection control

Display area
 Gain control
 Cine loop
 Imaging parameters
 Tablet display connection control

6.9 PW mode (Unfreeze)

System setting
 New patients
 Probe & App
 2D mode
 CF mode
 Freeze/Unfreeze
 PW mode
 M mode
 PDI mode
 Measurement
 Comments
 Body pattern
 Store
 TGC line
 Display area
 Gain control
 Depth control
 Imaging parameters

6.8 PDI mode (Freeze)

System setting



Tablet display connection control

6.10 PW mode (Freeze)

System setting

New patients

Probe & Apps

Freeze/Unfreeze

Measurement

Comments

Body pattern

Store

2D mode

CF mode

PW mode

Display area

Gain control

Cine loop

Imaging parameters

Tablet display connection control

Depth: 36 cm

Gain compensation: 8 levels TGC

Gray Scale: 256 levels

Selectable Dynamic Range: 280 dB

Auto optimization: One key automatically optimizes 2D image gain display

Flip: Support up to down and left to right

Cine loop: Acquisition, storage in memory and display of up to 1500 seconds long of 2D,M,Color flow and PW images for review

Display format: Support single/ double / four

Full screen

Pan/Zoom : on Freeze and Realtime image

7.2 M mode

Imaging Parameters

Display format: Selectable display format prospective or retrospective (1/3-2/3, 1/2-1/2, 2/3-1/3, side by side 1/2-1/2, side by side 1/3-2/3, full screen)

sweeping rates: Selectable sweeping rates, including 1-2-3-4-5-6-8-10-12-16s

Time marks: 0.025 – 0.5 second

Cine loop: Cine loop review for retrospective analysis

7.3 Color flow

Suitable for all transducers, adaptively

7. Imaging mode

7.1 2D Imaging

Including fundamental wave imaging tissue harmonic and pulse reversal harmonic imaging

Imaging Parameters

Image quality: Resolution/ General/ Penetration.

Focus: Focus position

Support maximum 4 focuses on image

Focus width: Including 0-1-2, 3 levels



adjusts transmit and receive bandwidth to support movie playback based on the position of the color sampling box;
Support cine loop

Imaging Parameters

Flow speed: High/ Mid / Low

Flip angle: The linear array probe supports Angle deflection with a maximum Angle range of 30 degrees

Gain: Color flow gain including 0-100%

ROI box:

The ROI box size and position can be adjustable

Base line: Support for adjustable baseline position, support for baseline invert

Auto optimization: One key automatically optimizes the position and direction of the color box and the color gain display

Synchronous display: Simultaneous mode during 2D mode/PWD

Display format: Full screen

Support single/ double / four

7.4 Power doppler imaging

Imaging Parameters

Flow speed: High/ Mid / Low

Gain: Independent gain control, including 0-100%.

ROI box: The ROI box size and position can be adjustable

Flip angle: The linear array probe

supports Angle deflection with a maximum Angle range of 30 degrees

Synchronous display: Simultaneous mode during 2D mode

Display format: Full screen

Support single/ double / four

7.5 PWD Imaging

Imaging parameters

Flow speed: High/ Mid / Low

Angle correction:

Range : 0 ± 80 degree, step size is 1 degree

Sample volume: Range 0.5mm-28mm, including 0.5-1-1.5-2-3-4-5-6-7-8-10-15-20-25-28

Auto optimization: One key automatically optimizes spectrum

Doppler display

Base line: Range 5%-95%, step size 2-3

Auto trace:

-Sensitivity: range 0-20, step size 1

-Mode: Max/Mean

-Direction: up/down or up and down

-Heart Cycle: 1-5 levels

Display format: Selectable display format prospective or retrospective (1/3-2/3, 1/2-1/2, 2/3-1/3, side by side 1/2-1/2, side by side 1/3-2/3, full screen)

sweeping rates: Selectable sweeping rates, including 1-2-3-4-5-6-8-10-12-16s

Time marks: 0.025 – 0.5 second

Cine loop review for retrospective



analysis

In freeze, support to adjust the settings including map/baseline reversal

Synchronization display: 2D color doppler pulse doppler dual synchronization

- Power Doppler imaging
- Pulse wave Doppler imaging
- Duplex 2D/PW Doppler
- High PRF pulsed wave Doppler
- Zoom
- FULL screen imaging to enlarge imaging size
- TView for trapezoidal imaging

8. Features

8.1 Standard features

Patient information database management, can store up to 1500 seconds of HD movies;

Support hard drive image archive; Support fast storage to USB and fast storage to hard disk; 256 GB SSD quickboot up and storage

Support network storage and printing. Report package

Network storage and printing

Full measurement and analysis package SSD for quick bootstrap

8.2 Image features

- 2D grayscale imaging
- Harmonic imaging both in tissue harmonic and pulse inversion harmonic technologies
- Auto imaging optimization
- Easy Comparative Function to compare previous exam
- M Mode imaging
- Color Doppler imaging

8.3 Software features

- 1 USB port
- 1 voice output port
- 1 keyboard
- 1 external monitor
- Wireless network card facilitates data sharing and data transmission printing (optional)
- Auto IMT (optional)
- Auto EF (Optional)
- Auto Follicle (Optional)
- VReport (Optional)
- Real time or Freeze auto wave Doppler track and calculations
- Puncture guidance, convex array/line array/phased array can be supported, Multi- angles adjustable
- DICOM 3.0 port (Storage/Export/Print/Work list) (Optional)
- VCloud
- Postprocessing

9. Probe

- Xcen technology for wideband frequency



- Type C Standard probe port connector

9.1 Transducer types

- Convex array
- Linear array
- Phase array

9.2 Transducer selection

- Customizable imaging presets for each transducer and application
- Automatic dynamic receiving focus in all transducers
- Multiple adjustable transmit focal zone, up to 4 focal zoom

9.3 Probes

3C

- FOV: 59 degree
- Physical size: 65mm*17mm
- Radius: 50mm
- Elements: 128
- Application: Abdomen, Ob/Gyn, Urology, Pediatric, Fast
- Center frequency: 3MHz
- Frequency range (MHz):
B&HAR mode: 1-6.5
CF/PW : 2-4
- Pulsed wave Doppler, color Doppler, power Doppler, harmonic

- Multi-imaging frequency setting in 2D, Harmonic, color Doppler and Wave Doppler modes
- Reusable biopsy guide available, support three angles adjustable

7L

- Physical size: 44mm* 9mm
- Elements: 128
- Application: Vascular, Small parts, MSK, Nerve, Fast
- Center frequency: 7.3MHz
- Frequency range (MHz):
B&HAR mode: 3-16
CF/PW : 3-6.3
- Pulsed wave Doppler, color Doppler, power Doppler, harmonic
- Multi-imaging frequency setting in 2D, Harmonic, color Doppler and Wave Doppler modes
- Reusable biopsy guide available, support three angles adjustable

2P

- FOV: 90 degree
- Physical size: 21mm*14mm
- Elements: 64
- Application: Cardiac, Abdomen, Fast
- Center frequency: 2.8MHz
- Frequency range (MHz):
B&HAR mode: 2-3.5



CF/PW : 1.7-3.3

- Pulsed wave Doppler, color Doppler, power Doppler, harmonic
- Multi-imaging frequency setting in 2D, Harmonic, color Doppler and Wave Doppler modes
- Reusable biopsy guide available, support three angles adjustable

10. Advanced Imaging controls

10.1 TView

- Expand view of scanning
- Available on linear transducers

10.2 Auto optimization

- One - click automatic intelligent image optimization in 2D and color doppler modes 2D
- In spectral doppler mode, the doppler pulse repetition frequency and baseline are automatically adjusted by one key

10.3 Auto IMT (Optional)

- Automatically detects the inner and middle membrane in the box
- Auto display inner and middle film thickness value
- Only for linear probes

10.4 Auto EF (Optional)

- The area and volume of cardiac cavity were measured automatically along endocardium on selected 2d images of end-diastolic and end-systolic phases
- Ventricular ejection fraction was calculated automatically

10.5 Auto OB

- Used in obstetrical applications
- Auto measurement items including NT/BPD/HC/AC/FL
- Automatic display of fetal GA and ultrasonic estimation of EDD
- Both two-dimensional and volumetric probes are supported

10.6 Auto bladder

- Use in urology
- The system measured the transverse diameter, wide diameter and sagittal section diameter of bladder automatically
- Automatic display of bladder volume
- Both two-dimensional and volumetric probes are supported

10.7 VReport (Optional)

- According to different requirements,



you can customize the report template to import into the machine

- Use with the Flyinsono

10.8 Tutorials

- Includes the scanning method description and the scan flow chart
- The image includes the schematic diagram of dynamic scanning human model and the schematic diagram of dynamic ultrasound
- The site includes the abdomen routine small organ blood vessel musculoskeletal and so on
- Dynamic images can be displayed on the display screen. Dynamic schematic diagrams can be viewed at the same time and images can be scanned. Real-time comparison of scanning techniques and scanning sections can be made
- It can be used with remote diagnosis function

10.9 VCloud

- Connect to the network, you can choose wired or wireless connection
- The ultrasonic image can be uploaded to the cloud in real time, and the consultation or report can be conducted through the mobile phone or computer
- Support real-time live consultation

by Flyinsono

- It can be used with Tutorials

10.10 Auto Follicle(2D) (optional)

Just click on the area of follicle in B mode, the area of this follicle will be reported automatically

Report the area of different follicle in the volume data automatically

11. System Feature

11.1 Display modes

- Simultaneous capability
 - 2D/PW
 - 2D/CF or PDI
 - 2D/M
 - Dual, 2D/2D
 - Dual, 2D/2D+CF or PDI
 - Dual, duplex
 - Duplex mode
- Time line display
 - Independent dual 2D/PW
 - Timed based sweep update

mod

11.2 Display annotation

- Institution/hospital name
- Date: 2 types selectable, YY/MM/DD, MM/DD/YY
- Time: 2 types selectable, 24hours



and 12 hours

- Operator identification
- Patient name, first, last
- Patient identification: 30 characters
- Gestational age from LMP/EDC/GA/BBT
- VINNO image symbol: Ginkgo leaf

- Power output index
 - MI: mechanical index
 - TIS: thermal index soft

tissue

- TIC: thermal index cranial (Bone)
- TIB: thermal index bone
- Probe orientation marker: coincide with the LED light on the probe
- Gray/color bar
- Measurement result window
- Probe type
- Application name
- Image depth
- Imaging parameters by mode
 - 2D/M mode: acoustic power output, gain, frequency, frame rate, dynamic range
 - Color mode: color acoustic power output, color gain, color flow frequency, PRF, wall filter
 - PW mode: Doppler acoustic power output, Doppler gain, Doppler frequency, PRF, wall filter, sample depth
- Focus zone marker
- Body pattern

- PW scale markers: time/speed
- M scale markers: time/depth, time
- System measurement display
- System message display
- Biopsy guide line
- Heart rate

• Cineloop

- Acquisition, storage in memory and display of up to 1500 seconds/ 500 mB/5 min long of 2D, color and PW images for review

11.3 Compare

- Compare live imaging with stored imaging.
 - Quick save feature
- The system provides quick save function through USB stick, internal/external HDD during or after exam
- Configurable saving file format, VRD (VINNO Raw Data), DICOM, JPEG, BMP, PNG and AVI

11.4 Archive

- Patient data input which include patient ID, name, nationality, birth date, sex, exam physician, quality check, exam operator
- Physical data such as weight, height
- Patient exam management
- Patient exam images storage and



management

- Import VRD format data into the system from outside media, such as USB stick, external HDD
- Export patient data into outside medias

11.5 Report

- Automatically pull patient data into the report
- Automatically load measurement worksheet into the report
- Pull related exams' images into the report
- Write comments in the report
- Print report through network or local printer

11.6 Connectivity

- Standard connectivity features
 - Image export to removable media (external HDD, USB stick)
- Network linkage
 - Image export to network storage servers
 - DICOM export and retrieve *(optional)
- Mobile data transfer solution by
 - Blue tooth*(optional)
 - Email*(optional)
 - Hot point connection
- DICOM workstation for remote

diagnostic solution *(optional)

- DICOM, JPEG, BMP, PNG, AVI
 - VRD and DICOM images stored in disc

can be recalled on the VINNO system

- JPEG, BMP, PNG and AVI images can be played on normal computers

- On-board patient exam storage
 - Direct digital storage of static image or cineloop images to internal hard disk drives
- Fully integrated user interface

11.7 Probes/application

- Selectable multiple applications
- Edit exist application preset
- Edit user defined preset
- Rename preset; support maximum 16 user preset
- Return to factory preset
- Quick save user defined parameters in related application

12. Measurement and Analysis

12.1 Generic Measurement in 2D mode

- Depth
- Distance
- Perimeter



- Length and width method
- Ellipse method
- Polygon method
- Spline method
- Tracing method
- Area
 - Length and width method
 - Ellipse method
 - Polygon method
 - Spline method
 - Tracing method
- Volume
 - Single line method
 - Dual line method
 - Triple line method
 - Single ellipse method
 - Single ellipse and single line method
- Angle
- Stenosis
 - Diameter method
 - Square meter method
- A and B ratio
 - Diameter ratio
 - Square meter ratio

12.2 Generic Measurement in M mode

- Depth
- Distance
- Time
- Slope
- Heart rate
- Stenosis

- A and B ratio
 - Diameter ratio
 - Time ratio
 - Velocity ratio

12.3 Generic Measurement in CFM mode (Optional)

- CFV
 - point
 - profile

12.4 Generic Measurement in PW mode

- Speed (include PV (Peak Velocity))
- Time (include AT (Accelerate Time))
- Acceleration
- PS (Peak Speed in systole period)
- ED (The speed in the end of diastole period)
- MD (Minimum speed in diastole period)
- TAMAX (maximum speed in time average)
- TAMEAN (mean speed in time average)
- TAMIN (minmum speed in time average)
- PI (Pulsatility Index)
- RI (Resistance Index)
- PS and ED ratio
- ED and PS ratio
- A and B ratio (A/B ratio)
 - Speed ratio



- Time ratio
- Acceleration ratio
- FLOWVOL (Flow Volume)
- MaxPG (maximum pressure gradient)
- MeanPG (Mean pressure gradient)
- SV (Stroke Volume)
 - Each volume diameter

cardiac

Time mean speed in each stroke volume

- Cardiac output
- Heart rate
- $SV(LVOT)/SV(RVOT)$

12.5 Abdominal Measurement

- General abdomen
- Difficult abdomen
- Kidney
- Renal vessel
- Abdominal trauma

12.6 Small Part Measurement

- Thyroid
- Breast
- Testis
- Musculoskeletal
- Upper and lower extremity joint
- Nerve block

12.7 Vessel Measurement

- Carotid artery
- Upper artery
- Upper vein
- Lower artery

- Lower vein
- Vessel puncture
- Transcranial Doppler

12.8 Gynecology Measurement

- Uterus and Pelvis
- Follicle

12.9 Urology Measurement

- Bladder
- Prostate
- Renal
- Kidney and ureter
- Pelvic Floor dysfunction

12.10 Pediatric Measurement

- Neonatal Head
- Neonatal Abdomen
- Pediatric Abdomen
- Pediatric Hip
- FAST

12.11 Obstetrics Measurement

- OB Early
- OB Mid
- OB Late
- Fetal Heart

12.12 Cardiac Measurement

- General
- LV



- MV
- Ao
- AV
- LA
- RV
- TV
- PV
- RA
- System

IEC 60601-1-6:2010 Usability

IEC 60601-2-37:2007 Medical electrical equipment - Particular requirements for the safety of ultrasonic medical diagnostic and monitoring equipment

IEC 61157:2007 Declaration of acoustic output parameters

ISO 10993-1:2009 Biological evaluation of medical devices

IEC 62304:2006 Medical device software – Software life cycle processes

IEC 62366:2007 Medical devices - Application of usability engineering to medical devices

Council Directive 93/42/EEC on Medical Device

WEEE according to 2012/19/EU

RoHS according to 2011/65/EU

13. Safety Conformance

13.1 Regulatory Notice:

This device is tested to meet all applicable requirements in relevant. According to 93/42 EEC, it is class IIa medical device.

13.2 Conformity to Standards:

IEC 60601-1 : 2012 Medical electrical equipment - Part 1: General requirements for basic safety and essential performance

IEC 60601-1-2:2007 Electromagnetic compatibility - Requirements and tests



VINNO Technology (Suzhou) Co., Ltd

VINNO is focusing on producing premium diagnostic ultrasound development to provide customer clinical value through Continuous Innovation, Excellent Performance and Accessible Solutions.



Thanks you for your interest in VINNO.

You can contact us by phone and email (below) or contact our local representatives.

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