



1. General Information

A brand-new ultrasound diagnostic platform with Innovations in areas of digital electronics achieve a new level of ultrasound diagnostic precision and higher diagnostic confidence.

A revolutionary workflow control is provided with the user-centric architecture of the new software platform.

2. Main technical parameters and functions

2.1 Technical platform

★linux +ARM+FPGA

2.2 Channels and elements

★Number of physical channels: ≥ 64

★Number of probe array element number: ≥ 128

2.3 Size and weight

Machine size: 65cm(front-back)*58cm(left-right)*132cm(height)

Packaging size: 75cm(length) * 70cm(width)* 119cm(height)

machine weight: 29.5kg (with no probe)

total weight(include:machine、 wooden box、 2 probes): 52kg

2.4 Monitor

★15-inch, high resolution, progressive scan, Wide Angle of view

Resolution:1024*768 pixels

Image display area is 640*480

2.5 Hard disk

★Internal 500GB hard disk for patient database management

Allow storage of patient studies that include images, clips, reports and measurements

2.6 Transducer Ports

Four universal transducer ports(three active) that support standard(curved array, linear array), high-density Probe

156-pin connection

Unique industrial design provides easy access to all transducer ports

2.7 Probe available

1. 3C6C: 3.5MHz/R60/128, Convex array probe,
Freq: 2.5/3.5/4.5/H5.0/H6.0/D2.5/D3.0 MHz
2. 7L4C: 7.5MHz/L38mm/128, Linear array probe
Freq: 6.5/7.5/8.5/H9.0/H10.0/D5.0/D5.7 MHz
3. 10L25C: 10MHz/25mm/128, Linear array probe

- Freq: 9.0/11.0/14.5/H13.0/H14.0/D6.0/D7.0 MHz
4. 6E1C: 6.5MHz/R10/128, Endocavity Convex array probe;
Freq: 5.0/6.5/8.0/H8.0/H9.0/D5.0/D6.0 MHz
 5. 6C15C: 6.5MHz/R15/128, Micro convex array probe;
Freq: 5.0/6.5/8.0/H8.0/H9.0/D4.5/D5.0 MHz
 6. 3C20C: 3.5MHz/R20/128, Micro convex array probe;
Freq: 2.5/3.5/4.5/H5.0/H6.0/D2.5/D3.0 MHz
 7. ★6I7C: 6MHz/L64mm/128, Intrarectal Linear array probe;
Freq: 4.5/6.0/7.5/H8.0/H9.0/D5.0/D5.7 MHz
 8. ★2P2F: 2.7MHz/L16mm/64 Phased array probe;
Freq: 2.0/2.5/3.0/H3.2/H3.5/D2.0/D2.5 MHz
 9. ★5P2F: 5.0MHz/L10mm/64 Phased array probe;
Freq: 4.0/4.5/5.0/H5.5/H6.5/D4.0/D4.8 MHz

2.8 Imaging modes

B-mode: Fundamental and Tissue harmonic imaging

Color Flow Mapping (Color)

Power Doppler Imaging (PDI)

PW Doppler

M-mode

2.9 frequency number

B/M: Fundamental wave, ≥ 3 ; harmonic wave: ≥ 2

Color/PDI: ≥ 2

PW: ≥ 2

2.10 ★Cine

B mode: ≥ 5000 frames

B+Color/B+PDI mode: ≥ 2300 frames

M、PW: ≥ 190 s

2.11 ★image zoom

available on live, 2B, 4B and reviewed images

up to 10X zoom

2.12 image save

format:

BMP、JPG、FRM(single image);
 CIN、AVI(multiple images)
 ★Support DICOM, conform to DICOM3.0 standard
 Built in workstation,support patient data search and browse

2.13 language

Support Chinese、English、Spanish、[French](#)、[German](#)、[Czech](#) 、[Russian](#) languages.
 Can be easily extended to support other languages

2.14 ★battery

Built in large capacity lithium battery, working condition. Continuous working time ≥ 1 hours. Screen provides power display information

2.15 Other functions

Comment、BodyMark、Biopsy、★Lito, ★[IMT](#) 、★[report template](#), support [usb mouse](#) ,etc

3. imaging Parameters

3.1 B mode

Up to four frequencies in fundamental imaging

Up to two frequencies in Tissue harmonic imaging (probe dependent)

Dynamic range	0-100% ,5% step
SpeckleReduction	8 levels(0-7)
ScanDensity	H, M, L
Gain	0~100 % ,2% step
TGC	eight TGC controls
FrameAverage	8 levels(0-7)
LineAverage	8 levels(0-7)
Edge Enhance	8 levels(0-7)
Gray Maps	15 types(0-14)
Pseudocolor Maps	7 types(0-6)
Thermal Index	TIC,TIS,TIB
2B, 4B formats	/
Invert (U/D) and transposed (L/R)	/
Focus Number	4
Focus Depth	16 levels (depth and probe dependent)
FOV	5 levels

Image depth up to 35 cm in 0.5~4cm increments (depth dependent)
Phase inversion harmonic imaging technique is available for all probes

3.2 Color mode

Frequency	2 levels
Gain	0~100% ,2% steps
Wall filter	8 levels(0-7)
Sensitivity	H,M,L
Flow	H,M,L
Packet Size1	5 levels(0-4)
FrameAverage	8 levels(0-7)
PostProc	4 levels(0-3)
Invert	On/Off
Baseline	7 levels(0-6)
Color Maps	4 levels(0-3)
Color/PDI Width	10%-100%, 10%
Color/PDI Height	0.5-30cm(probe dependent)
Color/PDI Center Depth	1-16cm(probe dependent)
Steer	+/-12° ,7° (linear probe)

3.3 PDI mode

Frequency	2 levels
Gain	0~100% ,2% steps
Wall filter	8 levels(0-7)
Sensitivity	H,M,L
Flow	H,M,L
Packet Size1	5 levels(0-4)
FrameAverage	8 levels(0-7)
PostProc	4 levels(0-3)
Invert	On/Off
Baseline	7 levels(0-6)
PDI Maps	2 levels(0-1)
Color/PDI Width	10%-100%, 10%
Color/PDI Height	0.5-30cm(probe dependent)
Color/PDI Center Depth	1-16cm(probe dependent)
Steer	+/-12° , +/-7° (linear probe)

3.4 PW mode

Frequency	2 levels
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Sweep speed	5 levels(0-4)
Scale	16 levels(0-15) (depth and probe dependent)
Scale Unit	cm/s,KHz
Smooth	8 levels(0-7)
Pseudocolor Maps	7 types(0-6)
Dynamic range	24-100, 2 step
Gain	0-100%, 2% step
Wall filter	4 levels(0-3)
Dynamic range	24-100, 2 step
Gain	0-100%, 2% step
Wall filter	4 levels(0-3)
Angle correction	-89+89,1 step
Gate size	8 levels(0-7mm)
Wall filter	5 levels(0-4)
Invert	On/Off
Baseline	7 levels
Real-time auto Doppler trace: maximum velocity, mean velocity	

3.5 M Mode

Frequency	Up to 3 fundamental and 2 harmonic imaging frequencies
Edge enhance	8 levels(0-7)
Dynamic range	0-100%,step 5%
Gain	0-100, step 2
Gray Maps	15 levels(0-14)
Pseudocolor Maps	7 (0-6)
Sweep speed	5 levels(0-4)

3.6 image parameter save and restore

- ★user can press one key to save image parameters in screen
- ★user can press one key to restore image parameters to default status.

4. Ergonomic Design

Frequently used controls centre around the trackball

Control panel is backlighted, waterproof and antisepticed

Two USB port are at the back of the system, which is more convenient for use

5. Exam Modes

Abdomen

Obstetrics
Gynecology
Fetal Heart
Small parts
Urology
Carotid
Thyroid
Breast
Vascular
Kidney
Pediatrics

6. Product configuration

6.1 Standard configuration

Host(Built-in 500G hard disk)
3C6C convex array probe
7L4C linear array probe
User's Manual
Power cable

6.2 Optional Accessories

6E1C Endocavity Convex probe
10L25C linear array probe
6I7C Intrarectal Linear probe
6C15C Micro convex probe
3C20C Micro convex probe
2P2F Phased array probe
USB report printer
B/W or color Video printer
Puncture rack
Foot switch
U disk and USB extension line