



1. Main technical parameters and functions

1.1 Technical platform

★linux +ARM+FPGA

1.2 elements

★Number of probe array element number:80

1.3 Monitor

15-inch, high resolution, progressive scan, Wide Angle of view
Resolution:1024*768

Hard disk

★Internal 128GB hard disk for patient database management
Allow storage of patient studies that include images, clips, reports and measurements

1.4 Probe Ports

Two active universal Probe ports that support standard(Convex array, linear



array)Probe, Unique industrial design provides easy access to all Probe ports

1.5 Probe available

3C6A: 3.5MHz/R60/80, Convex array probe
7L4A: 7.5MHz/L38mm/80, Convex array probe
6E1A: 6.5MHz/R10/80, Endocavity Convex array probe;
6C15A: 6.5MHz/R15/80, Micro convex array probe; ;
3C20A: 3.5MHz/R20/80, Micro convex array probe;

1.6 Imaging modes

B-mode: Fundamental and Tissue harmonic imaging
Color Flow Mapping (Color)
★B/BC Dual Real-Time
Power Doppler Imaging (PDI)
PW Doppler
M-mode

1.7 frequency number

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

1.8 Cine

B mode: ≥ 5000 frames
B+Color/B+PDI mode: ≥ 2500 frames
M、PW: ≥ 190 s

1.9 image zoom

available on live, 2B, 4B and reviewed images
up to 10X zoom

1.10 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

1.11 language

Support Chinese、 English、 Spanish

Can be easily extended to support other languages

1.12 battery

Built in large capacity lithium battery, working condition. Continuous working time ≥ 1.5 hours. Screen provides power display information

1.13 Other functions

Comment、BodyMark、Biopsy、PICC、★Lito、★IMT、★Report template、★Support USB mouse, etc

2. imaging Parameters

2.1 Bmode

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	



2.2 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)

2.3 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)

2.4 PW mode

Frequency	2 levels
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	

2.5 MMode

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)

2.6 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.

3. Exam Modes

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



Pediatrics

4. Measurement and Calculation

1. B/C mode routine measurements: distance, area, circumference, volume, angle, area ratio, distance ratio
2. M mode routine measurements: time, slope, heart rate, distance
3. Doppler mode routine measurements: heart rate, flow velocity, velocity ratio, resistive index, pulsatility index, manual/★automatic envelope tracing, acceleration, time, heart rate
4. Obstetric B and PW mode application measurements: including comprehensive obstetric linear measurements, fetal weight, singleton gestational age and growth curves, amniotic fluid index, fetal biophysical profile scoring, etc.
5. Gynecological B mode application measurements
6. Cardiac B, M, and PW mode application measurements
7. Vascular B and PW mode application measurements, with support for: ★automatic IMT intima-media thickness measurement
8. Small-organ B mode application measurements
9. Urological B mode application measurements
10. Pediatric B mode application measurements
11. Abdominal B mode application measurements

5. Reporting and Printing

Supports report editing, report printing, and report templates;

Report printers supported: black-and-white/color laser printers, color inkjet printers;

Video printers supported: black-and-white/color video printers.

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