



YJ-PE80 Color Doppler ultrasound diagnostic system



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 Size and weight

Machine size:40cm(front-back)*38cm(left-right)*35cm(height)

Packaging size: 44cm(length) * 44cm(width)* 22cm(height)



machine weight: 5.5kg (with no probe)

total weight(include:machine、 wooden box、 2 probes): 9kg

2.3 Monitor

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

Resolution:1024*768 pixels

Image display area is 640*480

2.4 Hard disk

★Internal 128GB Solid state disk for patient database management

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

2.5 Transducer Ports

Two universal transducer ports

156-pin connection

Unique industrial design provides easy access to all transducer ports

2.6 Probe available

3C6C: Wide convex

7I4C/10L25C: Linear

3C25: Micro convex

7E10: Endocavity Convex

★7C10: Intrarectal Linear

★3P20: **Phased array**

2.7 Imaging modes

B-mode: Fundamental and Tissue harmonic imaging

Color Flow Mapping (Color)

Power Doppler Imaging (PDI)

PW Doppler

M-mode

2.8 frequency number

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

Color/PDI: ≥ 2

PW: ≥ 2



2.9 ★Cine

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

2.10 ★image zoom

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

2.11 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

2.12 language

Support Chinese、English、Spanish、French、German、Czech、Russian languages.
Can be easily extended to support other languages

2.13 ★battery

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

2.14 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
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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
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)
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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 128GB Solid state disk)
convex array probe
linear array probe
User's Manual
Power cable

6.2 Optional Accessories

7E10 Endocavity Convex probe
7L38 linear array probe
7C10 Intrarectal Linear probe



Forever Medical

3C25 Micro convex probe
3P20 Phased array probe
USB report printer
B/W or color Video printer
Puncture rack
Foot switch
U disk and USB extension line

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