we work
Life

WE WORK LIFE - *Produtos Farmacêuticos Unipessoal, Lda*
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CENTRAL WORK - *29 BLVD Tower 1 & 2 - Emaar*
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Summary

Laptop ultrasound diagnostic system（the followingReferred to as instrument）is composed of a host, a 3.5MHz convex probe and a power adapter. A 7.5MHz high frequency linear probe, a 6.5MHz intracavity probe, a 6.5MHz micro convex probeand battery are selected.According to different configurations, it is divided into two models: K500 and K600.

The instrument uses the ARM chip architecture to provide a stable and concise operating system.Including B, B+B, B+M, M, 4B imaging modes;Image grayscale is 256; Itcan perform image smoothing/sharpening,tissue harmonics,gamma correction,intelligent 8-segment TGC control,false color processing and adjustment of up and down, left and right, brightness, focus number, focus distance, focus position, dynamic range, scan angle, frame correlation, M speed adjustment；With functions such as date, clock, name, age, gender, doctor, hospital name, image annotation, etc; Including abdomen, heart, urology, gynecology, obstetrics, small organs, blood vessels, musculoskeletal and other multi-department software packages;, It has different ethnographic measurement formulas, which can monitor gestational week (BPD, GS, CRL, FL, HC, AC, EDD, AFI) and expected date of delivery, fetal weight , last menstrual period, etc;Multi-language interface can be realized: Chinese, English, German, French, Spanish, Portuguese, Russian, Persian, Arabic, etc.

Scope of application

Mainly used in ultrasound examination of heart, abdomen, urology, obstetrics and gynecology, pediatrics, musculoskeletal, etc.

Main functions

1. Operating system: using ARM chip architecture, stable, concise and powerful

2. Display: 12-inch 1024*768 resolution high-definition LED LCD screen

3.Imaging modes:B, B+B, B+M, M, 4B

  Probe array element：automatically identify and use a variety of array element probe （80 elements,96 elements,128 elements)

4.Image preset: The system combines a large amount of clinical experience, has different preset adjustment conditions for the parts

or organs, and has a one-key optimization function.

5.Cine playback：≥500 frame

6.Image storage：≥64 frame.External USB storage，Single image storage time≤9s.（Storage speed is related to the USB device used)

7.Scanning angle adjustment: adjustable

8.Image enlargement: Separate swirl depth adjustment (16 levels adjustable)

9.Puncture: with puncture guide line, angle and position are adjustable

10.Focus: 5 levels of focus position adjustment

11.Image adjustment:up and down, left and right, brightness, focus number, focus position, dynamic range, scan angle, frame correlation, M speed

12.Image Processing:image smoothing/sharpening,tissue harmonics,gamma correction,false color

13.Notes and characters:date, clock, name, age, gender, doctor, hospital name, image annotation

14.Position mar:≥97 kinds

15.Measurement function

a) Routine measurement: distance, circumference, area, volume;

b) Heart measurement: left atrium, right atrium, left ventricle, right ventricle, aorta, descending aorta, aortic isthmus;

c) Obstetric measurement: gestational sac, biparietal diameter, head circumference, abdominal circumference, femur length, fibula length, head hip diameter, yolk sac, abdomen, cerebrum, cerebellum, amniotic fluid, gestational age, expected date of delivery, fetal weight, etc;

d)Gynecological measurement: uterus, cervix, endometrial thickness, ovaries, follicles;

e)Urology measurement: kidney, adrenal gland, prostate, testicular mass, epididymis, etc;

f)Pediatric measurement: common liver duct, common bile duct, pancreas, spleen, kidney, adrenal gland, etc;

g)Small organ measurement: thyroid, seminal vesicle, testis, scrotum, breast mass, skin mass, etc.

16.Report function: automatically generate reports on abdomen, urology, obstetrics, heart, etc.

17.External interface: VGA interface, USB2.0 interface, RS232 interface

18.Power saving mode: the panel button light can be turned on and off by one button, and the instrument will automatically turn off the power if it is not used for 6 minutes. Press any key to resume operation

19.Language settings: Chinese, English, German, French, Spanish, Portuguese, Russian, Persian, Arabic, etc.

20.Built-in operating instructions

Performance indicators

Probe frequency(MHz)	3.5MHz	6.5MHz	7.5MHz
Probe type	Convex probe	Intracavitary probe	High frequency

			linear probe
Probe model	C5-2/60R/3.5MHz	EC1-3/13R/6.5MHz	L1-4/7.5MHz
Detection depth(mm)	≥220	≥40	≥50
Lateral resolution(mm)	≤3（depth≤80） ≤4（80＜depth≤130）	≤2（depth≤30）	≤2（depth≤40）
Axial resolution(mm)	≤2（depth≤80） ≤3（80＜depth≤130）	≤1（depth≤40）	≤1（depth≤50）
Blind spot(mm)	≤5	≤4	≤3
Horizontal geometric position accuracy(%)	≤15	≤10	≤10
Longitudinal geometric position accuracy(%)	≤10	≤5	≤5

Slice thickness(mm)	≤10	≤10	≤10
Perimeter and area measurement deviation(%)	±20	±20	±20
M mode time display error	±10	±10	±10
M mode distance display error	±10	±10	±10

Monitor: 12 inch 1024*768 resolution HD LED screen

Grayscale: 256 levels

Continuous working time: ≥8 hours

Standby time time of battery pack: ≥2 hours

weight: about 3.5 kg

Machine　Size: 316×314×69 (length×width×height) (mm3)