

US-E80 Color Doppler Ultrasound Scanner



I. Features

US-E80 adopts the ARM chip architecture and provides a stable and concise operating system; including B, B+B, B+M, M, 4B imaging modes; image grayscale is 256; image smoothing/sharpening, tissue harmonics, and Ma correction, intelligent 8-segment TGC control, pseudo-color processing and adjustment of up and down, left and right, brightness, focus number, focus distance, focus position, dynamic range, scanning angle, frame correlation, M speed; with date, clock, name, age, Gender, doctor, hospital name, image annotation and other functions; with different species measurement formulas, can measure distance, circumference, area, volume, heart rate and monitor gestational week (BPD, GS, CRL, HD, SLA, HLA, ESD, BTD, BUD), due date, etc.

Scope of application: Mainly used in ultrasound inspection of pigs, cattle, horses, sheep, dogs, cats, etc.

II. Technical Specifications

PARAMETER	SPECIFICATION
Operating system	Adopts ARM chip architecture, stable, concise and powerful
Display	15-inch 1024*768 resolution high-definition LCD screen
Display mode	B, B+B, B+M, M, 4B
Probe array element	The host can automatically identify and use a variety of array element probes (80 array elements.96 array elements.128 array elements)
Image preset	This machine combines a large amount of clinical experience, has different preset adjustment conditions for different species, and has a one-key optimization

	function
Scanning angle adjustment	Adjustable
Image magnification	Separate knob depth adjustment (≥ 20 levels adjustable)
Puncture	With puncture guide line, angle and position are adjustable
Focus	The focus position is adjustable, the focus position adjustment is ≥ 5 gears
Movie playback	≥ 256 frames
Image adjustment:	Up and down, left and right, brightness, focus position, dynamic range, scanning angle, frame correlation, M speed
Image storage	≥ 300 frames. External USB storage, single image storage time is about ≤ 9 seconds (storage speed is related to the USB device used)
Image processing	Image smoothing/sharpening, tissue harmonics, gamma correction, false color
Notes and characters	Date, clock, name, age, gender, doctor, hospital name, image annotation
Position mark	24 kinds
Measurement function	a) Routine measurement: distance, perimeter, area, volume; b) Heart measurement: left atrium, right atrium, left ventricle, right ventricle, aorta, ascending aorta, descending aorta, aortic isthmus; c) Obstetric measurement: gestational age (double parietal diameter, head and tail length, gestational sac, head and neck diameter, stomach long axis, heart long axis, skull diameter, trunk diameter, uterine diameter), yolk sac, abdomen, large brain, amniotic fluid, Fibula length, trunk d) Abdominal measurement: liver, gallbladder, kidney, abdominal aorta, iliac artery e) Superficial measurement: thyroid, sperm cyst, testis, breast mass, skin mass And has different species measurement formulas
Report function	Hospital standard report page settings, you can enter information such as animals, physicians, diagnosis results, etc., and automatically import selected diagnosis pictures and inspection measurement data
External interface	VGA interface, USB2.0 interface, RS232 interface
Power saving mode	The panel button light can be turned on and off with 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
Probe	80 element R60
Detection depth	≥160mm
Lateral resolution mm	≤3(depth≤80)≤4(8 < depth≤130)
Axial resolution mm	≤2(depth≤80)≤3(80 < depth≤130)
Blind area mm	≤5
Horizontal geometric position accuracy%	≤15
Longitudinal geometric position accuracy%	≤10
Probe slice thickness index mm	≤10
Perimeter and area measurement deviation%	±20
M mode time and distance error	±10
The deviation between the working sound frequency of the probe and the nominal frequency of the machine should be within ±15%	
Grayscale	256 levels
Power supply range	AC 100V ~ 240V, tolerance ±10%, 50Hz/60Hz, tolerance ±1Hz. DC 14V ±0.5V, 3A
Continuous working time	≥8 hours
Battery pack standby time	≥2 hours

III. Standard configuration

- Full digital color Doppler ultrasound host: 1 set;
- Battery

IV. Optional

- Rectal probe
- Convex probe
- Micro convex probe: 1 pc;
- Linear probe: 1 pc;