

US-P60 Color Doppler Ultrasound Scanner



Features

- Applicable for animals' examination and diagnosis on digestive system, reproductive system, urinary system for animal hospitals and scientific institutions.
- 15 inch high resolution medical LCD monitor.
- Anatomic M Mode Imaging (Sampling line ≥ 3).
- Contrast Tuned Imaging.
- Tissue Harmonic Imaging (THI).
- B/C/D Real-time three synchronous imaging.
- Color Doppler Imaging (CFM, PDI, DPDI).
- Spectral Doppler Imaging (PW, HPRF PW, CW).
- Support: Chinese/ English/ Spanish/ French/ Russian.
- Space compound imaging (application to Abdominal, GYN, vessel, superficial small organs, can be dual image contrast display at same time).

Technical Specifications

PARAMETER	SPECIFICATION
2D Imaging Mode	
Receiving mode	transmitting and receiving channel ≥ 1024 , multi-signal parallel processing
Line density	≥ 512 , visible and adjustable
TGC	8 segment adjustable
Gain	B / M / D separately adjustable, $\geq 100\text{dB}$

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Dynamic range	≥180dB
Max scanning depth	≥360mm
Grey scale	0-67, visible and adjustable
Sound power	1%-100%
Full Digital Beamformers	
Linear array probe two-dimensional independent deflection	
ZoomPIP (1.5 / 2.0 / 2.5 / 3.0 / 3.5 / 4.0 / 4.5 / 5.0 / 10 times)	
Digital full dynamic focusing, digital variable aperture and dynamic trace change, A/D≥15 bit	
Color Doppler Imaging Mode	
Imaging	including velocity, velocity variance, energy, direction energy display, etc
Display mode	B/C, B/C/M, B/POWER, B/C/PW
Line density	≥3 level
Color hiding technology	without back to B mode can hide C mode, only color speed ruler display
Blood flow graph, color flow profile to measure intravascular velocity	
Spectral Doppler Imaging Mode	
Display	full screen, duplex / triplex (PW only)
Gain	≥100dB
Velocity	≥4 level adjustable
Max scanning speed	PWD: Positive or negative blood flow velocity≥7.6m/s; CWD: blood flow velocity ≥20.0m/s, min ≤5 mm/s (Nonnoise signal)
Display mode	B, PW, B/PW, B/C/PW, B/CW, B/C/CW, etc
Display control	reverse, zero shift, B refresh, D extension, B/D extension, etc
Smart Doppler technology	freely switch between real-time B+CFM mode and real-time PW mode
Zero shift adjustable ≥8 level	
Automatic Spectrum Measurement, Manual Measurement	
PView Wide Field Imaging	
High-resolution display, length can up to 50cm	
Imaging support forward erasure, no need to re-imaging	
With two dimensional wide view imaging mode and color wide view imaging mode	

Various Probes

Wideband with frequency conversion, independent frequency conversion under B and CFM.

- **Convex probe**

Fundamental Frequency: 2.0MHz/ 2.3MHz/ 2.5MHz/ 3.0MHz/ 3.5MHz/ 4.0MHz/ 4.6MHz/ 5.0MHz/ 5.4MHz (9 levels frequency conversion)

Harmonic Frequency: 4.0MHz/ 4.6MHz/ 5.0MHz (3 levels frequency conversion)

- **Linear probe**

Fundamental Frequency: 4.0MHz/ 4.6MHz/ 5.0MHz/ 6.0MHz/ 7.0MHz/ 8.0MHz/ 9.2MHz/ 10.0MHz/ 12.0MHz/ 13.3MHz (9 levels frequency conversion)

Harmonic Frequency: 8.0MHz/ 9.2MHz/ 10.0MHz (3 levels frequency conversion)

- **Micro-convex probe**

Fundamental Frequency: 3.0MHz/ 3.5MHz/ 4.0MHz/ 5.0MHz/ 5.4MHz/ 6.0MHz/ 7.0MHz/ 8.0MHz (8 levels frequency conversion)

Harmonic Frequency: 6.0MHz/ 7.0MHz/ 8.0MHz (3 levels frequency conversion)

- **Phased array probe**

Fundamental Frequency: 1.7MHz/ 1.9MHz/ 2.1MHz/ 2.5MHz/ 3.0MHz/ 3.4MHz/ 3.8MHz/ 4.2MHz/ 5.0MHz (9 levels frequency conversion)

Harmonic Frequency: 3.4MHz/ 3.8MHz/ 4.2MHz (3 levels frequency conversion)

- **High frequency phased array probe**

Fundamental Frequency: 3.0MHz/ 3.5MHz/ 4MHz/ 5MHz/ 5.4MHz/ 6MHz/ 7MHz/ 8MHz (9 levels frequency conversion)

Harmonic Frequency: 6MHz/ 7MHz/ 8MHz (3 levels frequency conversion)

- **Technical requirements for electronic convex probe**

Frequency: 2.0-5.4 MHz, lateral resolution: ≤ 2 (depth ≤ 80), ≤ 3 mm (80 < depth ≤ 130)

Axial resolution: ≤ 1 (depth ≤ 80), ≤ 1 mm (80 < depth ≤ 130)

Dead zone: ≤ 3 mm; Geometric position accuracy: broadwise: $\leq 5\%$; lengthwise: $\leq 5\%$

Detecting depth ≥ 240 mm

- **Technical requirements for electronic linear probe**

Frequency: 4.0-13.3MHz, lateral resolution: ≤ 1 (depth ≤ 40),

Axial resolution: ≤ 0.5 (depth ≤ 50),

Dead zone: ≤ 3 mm; Geometric position accuracy: broadwise: $\leq 4\%$; lengthwise: $\leq 2\%$

