**L5-VET(V3.0S)** **Animal Colour Doppler Ultrasound**

**Technical specifications**

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| **1.Product name: Animal Color Doppler Ultrasound Diagnostic system** |
| 1.1Construction type: Notebook |
| **2.Description of use and requirements for products：**  2.1 Ultrasound examinations for various needs in pet hospitals, clinics, zoos, breeding/breeding bases and various research units. |
| **3.Main specifications and system overview：** |
| 3.1 Ultrasound host operating system: Windows 10 operating system  3.2 Spectral Pulse Doppler  3.3 Directional energy Doppler  3.4 Real-time triple synchronisation  3.5 Spatial compound imaging available  3.6 Tissue harmonic imaging available  3.7 2B/4B imaging modes  3.8 System language: Chinese, English, French, Russian and Spanish  3.9 Monitor: ≥ 15 inches  3.10 Integrated clipboard: saved images are displayed at the bottom of the screen and can be directly transferred or deleted  3.11 System with field upgradeable function  3.12 Preset conditions: for different examinations, preset examination conditions for optimised images, reducing the need for adjustments during operation, and external adjustments and combinations of adjustments required for common use  3.13 Support for real-time 3D imaging  3.14 Probe interface ≥ 1  3.15 Trapezoidal imaging function  3.16 Intelligent optimisation with one key |
| **4.probes：** |
| Convex probe: frequency 2.5MHz/3.0MHz/3.5MHz/4.0MHz/H4.0MHz/H5.0MHz, six frequency bands (depth 30-255mm)  Linear probe: frequency 6.0MHz/7.5MHz/8.5MHz/10.0MHz/12.0MHz/H10.0MHz, six-segment frequency conversion (depth 20-128mm)  Phased array probe: frequency 2.5MHz/3.0MHz/3.5MHz/4.0MHz/H3.0MHz/H4.0MHz, six-segment frequency conversion (depth 100-244mm)  Micro Convex Probe (R15): Frequency 4.0MHz/6.0MHz/7.0MHz/8.0MHz/H8.0Mhz, five-segment frequency conversion (depth 30-111mm)  Micro Convex Probe (R11): Frequency 4.5MHz/6.0MHz/7.0MHz/9.0MHz/H8.0Mhz, five frequency bands (depth 30-111mm)  Micro Convex Probe (R20): Frequency 4.5MHz/6.0MHz/7.0MHz/9.0MHz/H8.0Mhz, five-segment frequency conversion (depth 30-111mm)  Rectal probe:Frequency 4.0MHz/6.5MHz/9.0MHz/H8.0MHz Four-segment frequency conversion (depth 20-110mm)  HF phased array 3.0MHz/5.0MHz/7.0MHz/H6.0MHz/H7.0MHz five-segment frequency conversion (depth 40-238mm)  L25 high frequency line array:6.0MHz/7.5MHz/8.5MHz/10MHz/12MHz/H10.0MHz Six-segment frequency conversion (20-110mm)  Backfat Probe:2.0MHz/3.5MHz/4.0MHz/5.0MHz/H4.0MHz/H5.0MHz Six-segment Frequency(30-237mm) |
| **5 2D imaging mode：** |
| 5.1 Gain: 0-100  5.2 TGC: 8-segment adjustable  5.3 Dynamic range: 20-280dB 20 levels visually adjustable  5.4 False colour: 0-11 steps, visually adjustable  5.5 Sound power: 5%-100%, in 5% steps, visually adjustable  5.6 Body position markers ≥ 18 kinds  5.7 Maximum number of focal points: 6 focal points, can be moved throughout  5.8 Grey scale: 0-7 levels visually adjustable  5.9 Filtering: 0-4  5.10 Scan range: 50%-100%  5.11 Frame correlation: 0-4 levels, visually adjustable  5.12 Screen with Chinese form real-time display of sound power, probe frequency, dynamic range, pseudo-colour, grey scale and other 14 parameters can be adjusted  5.13: Scan line density: high, medium and low  5.14 Noise reduction: 0-14 |
| **6.Colour imaging model:** |
| 6.1 Colour frame correlation: 0-12 levels, visually adjustable  6.2 Colour mapping: 0-7 levels, visually adjustable  6.3 Colour flip: adjustable  6.4 B/C split screen synchronisation: available  6.5 Colour baseline: 11 levels, visually adjustable  6.6 Colour line density: high and low adjustable  6.7 Wall filtering: adjustable from 0 to 5 levels |
| **7 Spectral Doppler mode.** |
| 7.1 Sampling volume angle correction: -80° to 80° adjustable  7.2 Sampling volume: 0.5mm - 20mm visually adjustable  7.3 Frequency: 2.5MHz and 3.0Mhz etc. visually adjustable  7.4 Baseline: 11 levels adjustable  7.5 Pseudo-colour spectrogram: 0-5  7.6 Display layout: ≥4 kinds of visually adjustable  7.7 velocity scale: 32.8-328cm/s (different probe range)  7.8 Spectrum envelope function: real-time automatic spectrum envelope, manual spectrum envelope and other modes can be selected, the system automatically analyzes the display: PS, ED, PI, RI, S / D ,HR and other data  7.9 Gray scale: 0-7  7.10 Wall filtering: 0-8  7.11 Dynamic range: 10-95db in steps of 5  7.12 Noise reduction: 0-28  7.13 Volume: 0-100 |
| **8 3D imaging mode (optional)** |
| 8.1 Quick angle: support for 0°, 90°, 180°, 270° rotation of the 3D window image.  8.2 Display layout: support for "double", "quad" and "single" image display.  8.3 Reconstruction modes: RealSkin, surface, Max, Min, XRax.  8.4 Pseudo-color display: support 0-7 level adjustment.  8.5 Image magnification: support for 5 levels.  8.6 Contrast ratio: 0% - 100%.  8.7 Threshold: 0%-100%  8.8 Smoothing: ≥ 3 adjustable steps  8.9 X-axis, Y-axis, Z-axis rotation support adjustable.  8.10 Brightness: 0% - 100%. |
| **9 4D imaging mode (optional)** |
| 9.1 Quick angle: support for 0°, 90°, 180°, 270° rotation of the 3D window image.  9.2 Display layout: support for "double", "quad" and "single" image display.  9.3 Reconstruction modes: RealSkin, surface, Max, Min, XRax.  9.4 Pseudo-colour display: 0-7 levels of adjustment are supported.  9.5 Image magnification: support for 5 levels.  9.6 Contrast ratio: 0% - 100%.  9.7 Threshold: 0%-100%  9.8 Smoothing: ≥3 adjustable steps  9.9 pseudo-colour: ≥7 adjustable steps  9.10 X-axis, Y-axis, Z-axis rotation support adjustable.  9.11 Line density: two levels of adjustment supported. |
| **10 Measurement and analysis functions.** |
| 10.1 Measurements include distance, area, angle, time, slope, heart rate, velocity, acceleration, blood flow trajectory, blood flow spectrum tracing, resistance index/beat index and other specialist measurements  10.2 Obstetric measurement kits for dogs, cats, horses, cattle and sheep.  10.3 Measurement line colour and line type can be adjusted at will (includes activation colour and completion colour)  10.4 The position and font size of the measurement result display can be adjusted as required  10.5 Specialised packages: abdominal, obstetric, urological, etc. |
| **11Graphic management system: image saving format: BMP DCM JPG** |
| 11.1 Host built-in ≥ 128G solid-state drive start fast and stable  11.2 Movie playback: ≥ 600 frames  11.3 Built-in Chinese file information management system: can record the number, name, inspection number, inspection date, etc., and can be managed by number, inspection number, name, etc. search  11.4 Report types ≥ 6 types. Provide picture proof.  11.5 One-click quick report graphic management |
| **12 Interface：**  4 x USB, 1 x Audio, 1 x HDMI, 2 x RJ-45. |
| **13Configuration：**  13.1 Colour Doppler ultrasound diagnostic system Main unit 1  13.2 Probes : Micro-convex R11 (standard), convex probe (optional), linear probe (optional), micro-convex R15 probe (optional), heart probe (optional), cavity probe (optional), volume probe (optional), etc.  13.3 Video printer (optional), Ultrasound medical trolley (optional) |