**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 system3.2 Spectral Pulse Doppler3.3 Directional energy Doppler3.4 Real-time triple synchronisation3.5 Spatial compound imaging available3.6 Tissue harmonic imaging available3.7 2B/4B imaging modes3.8 System language: Chinese, English, French, Russian and Spanish3.9 Monitor: ≥ 15 inches3.10 Integrated clipboard: saved images are displayed at the bottom of the screen and can be directly transferred or deleted3.11 System with field upgradeable function3.12 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 use3.13 Support for real-time 3D imaging3.14 Probe interface ≥ 13.15 Trapezoidal imaging function3.16 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 adjustable5.3 Dynamic range: 20-280dB 20 levels visually adjustable5.4 False colour: 0-11 steps, visually adjustable5.5 Sound power: 5%-100%, in 5% steps, visually adjustable5.6 Body position markers ≥ 18 kinds5.7 Maximum number of focal points: 6 focal points, can be moved throughout5.8 Grey scale: 0-7 levels visually adjustable5.9 Filtering: 0-45.10 Scan range: 50%-100%5.11 Frame correlation: 0-4 levels, visually adjustable5.12 Screen with Chinese form real-time display of sound power, probe frequency, dynamic range, pseudo-colour, grey scale and other 14 parameters can be adjusted5.13: Scan line density: high, medium and low5.14 Noise reduction: 0-14 |
| **6.Colour imaging model:** |
| 6.1 Colour frame correlation: 0-12 levels, visually adjustable6.2 Colour mapping: 0-7 levels, visually adjustable6.3 Colour flip: adjustable6.4 B/C split screen synchronisation: available6.5 Colour baseline: 11 levels, visually adjustable6.6 Colour line density: high and low adjustable6.7 Wall filtering: adjustable from 0 to 5 levels |
| **7 Spectral Doppler mode.** |
| 7.1 Sampling volume angle correction: -80° to 80° adjustable7.2 Sampling volume: 0.5mm - 20mm visually adjustable7.3 Frequency: 2.5MHz and 3.0Mhz etc. visually adjustable7.4 Baseline: 11 levels adjustable7.5 Pseudo-colour spectrogram: 0-57.6 Display layout: ≥4 kinds of visually adjustable7.7 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 data7.9 Gray scale: 0-77.10 Wall filtering: 0-87.11 Dynamic range: 10-95db in steps of 57.12 Noise reduction: 0-287.13 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 steps8.9 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 steps9.9 pseudo-colour: ≥7 adjustable steps9.10 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 measurements10.2 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 required10.5 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 stable11.2 Movie playback: ≥ 600 frames11.3 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. search11.4 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 113.2 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) |