

# T6-VET Veterinary Color Doppler Ultrasound System

## 1. Veterinary Color Doppler Ultrasound System

1.1 Main structure: Trolley type, double screen

## 2. Applications

2.1 Suitable for needs of ultrasonic examination for pet hospitals, clinics, zoos, breeding/breeding bases and various scientific research units and other institutions.

## 3. Summary of Main Specifications and System

3.1 Operating system: Windows 8 operating system

3.2 Pulse Doppler Imaging (PW)

3.3 Direction Power Doppler Imaging (DPDI)

3.4 B/C/D Real-time Three Synchronous Imaging

3.5 Compound Imaging

3.6 Tissue Harmonic Imaging (THI)

3.7 2B/4B Imaging Modes

3.8 System language option: Chinese, English, French, Russian, Spanish

3.9 Main monitor:  $\geq 21.5$  inch

3.10 All-in-one clipboard: saved images display on the right side of the screen, which can be directly transferred or deleted.

3.11 The system has the function of on-the-spot upgrade.

3.12 Presupposition: for different inspection of the viscera, preset the inspection conditions for the best image, reduce the adjustment of the operation, and the comm only used external adjustment and combination regulation.

3.13 Real-time 3D Imaging

3.14 Probe interface: 4

3.15 Trapezoidal Imaging

3.16 One-key Intelligent Optimization

## 4. Probes

4.1 Convex probe (detecting depth: 30-255mm)

Fundamental Frequency: 2.5MHz/3.0MHz/3.5MHz/4.0MHz

Harmonic Frequency: H4.0MHz/H5.0MHz

4.2 Linear probe (detecting depth: 20-128mm)

Fundamental Frequency: 6.0MHz/7.5MHz/8.5MHz/10.0MHz

Harmonic Frequency: H10.0MHz

4.3 Rectal probe (detecting depth: 30-156mm)

Fundamental Frequency: 4.5MHz/6.0MHz/7.0MHz/9.0MHz

Harmonic Frequency: H8.0MHz

4.4 Phased array probe (detecting depth: 100-244mm)

Fundamental Frequency:: 2.5MHz/3.0MHz/3.5MHz/4.0MHz

Harmonic Frequency: H3.0MHz/H4.0MHz

4.5 4D Volume probe (detecting depth: 30-237mm)

Fundamental Frequency: 2.0MHz/3.0MHz/4.5MHz/6.0MHz

Harmonic Frequency: H5.0MHz

4.6 Micro-convex probe R15 (detecting depth: 30-111mm)

Fundamental Frequency: 4.0MHz/6.0MHz/7.0MHz/8.0MHz

Harmonic Frequency: H8.0MHz

4.7 Micro-convex probe R11 (detecting depth: 30-111mm)

Fundamental Frequency: 4.5MHz/6.0MHz/7.0MHz/9.0MHz

Harmonic Frequency: H8.0MHz

4.9 Micro-convex probe R20 (detecting depth: 30-111mm)

Fundamental Frequency: 4.5MHz/6.0MHz/7.0MHz/9.0MHz

Harmonic Frequency: H8.0MHz

## 5. 2D Imaging Mode

5.1 Gain: 0-100, Step 1 adjustable

5.2 TGC: 8 segment adjustable

5.3 Dynamic: 20-280, 20 level adjustable

5.4 Pseudo color: 0-11, adjustable

5.5 Sound power: 5%—100%, step 5% adjustable

5.6 Body mark  $\geq 18$  kinds optional

5.7 Maximum focus:  $\geq 6$ , which can be moved throughout the whole process

5.8 Grey scale map: 0-7, 7 level adjustable

5.9 Filter: 0-4

5.10 Scanning range: 50%-100%

5.11 Frame correlation: 0-4, 4 level adjustable

5.12 The screen has real-time display of sound power, probe frequency, dynamic range, pseudo color, gray scale and other 14 parameters can be adjusted.

5.13 Line density: low, middle, high, 3 level adjustable

5.14 Noise reduction: 0-14

## **6. Color Doppler Imaging Mode**

6.1 Color Frame correlation: 0-12, 12 level adjustable

6.2 Color map: 0-7, 7 level adjustable

6.3 Color flip: adjustable

6.4 B / C real-time split screen mode

6.5 Base line: 11 level, adjustable

6.6 Line density: low, high, 2 level adjustable

6.7 Filter: 0-5 level adjustable

## **7. Spectral Doppler Imaging Mode**

7.1 Sampling volume angle correction:  $-80^{\circ} \sim 80^{\circ}$  adjustable

7.2 Sample volume: 0.5mm-20mm adjustable

7.3 Frequency: 2.5MHz, 3.0MHz

7.4 Base line: 11 level, adjustable

7.5 Pseudo color: 0-5

7.6 Parameter display:  $\geq 4$  level, adjustable

7.7 Speed scale: 32.8-328cm/s (different probes have different ranges)

7.8 Spectrum envelope function: real time automatic spectrum envelope, manual spectrum envelope, and other. The system automatically analyses and displays various data such as PS, ED, RI, PI, S/D, HR, etc.

7.9 Grey map: 0-7

7.10 Filter: 0-8

7.11 Dynamic range: 10-95, step 5

7.12 Noise reduction: 0-28

7.13 Sound volume: 0-100

### **8. 3D Imaging (optional)**

8.1 Fast angle: supports 0°, 90°, 180°, 270° rotation for 3D View

8.2 Display model: one image, two images, four images

8.3 Reconstruction mode: RealSkin, Surface, Max, Min, XRax

8.4 Pseudo color: 0-7, 7 levels adjustable

8.5 Zoom: 5 levels

8.6 Contrast: 0%-100%

8.7 Threshold level: 0%-100%

8.8 Smooth:  $\geq 3$  levels

8.9 Image rotation: X/Y/Z Axis

8.10 Brightness: 0%-100%

### **9. 4D Imaging (optional)**

9.1 Fast angle: supports 0°, 90°, 180°, 270° rotation for 3D View

9.2 Display model: one image, two images, four images

9.3 Reconstruction mode: RealSkin, Surface, Max, Min, XRax

9.4 Pseudo color: 0-7, 7 levels adjustable

9.5 Zoom: 5 levels

9.6 Contrast: 0%-100%

9.7 Threshold level: 0%-100%

9.8 Smooth:  $\geq 3$  levels

9.9 Image rotation: X/Y/Z Axis

9.10 Line density

## **10. Measurement and Analysis**

- 10.1 General measurement: distance, area, angle, time, slope, heart rate, speed, acceleration, blood flow path, blood flow spectrum trace, resistance index/pulsation index, etc
- 10.2 OB measurement data: Canine, Feline, Bovine, Ovine, Equine
- 10.3 Measurement line: color and type can be adjusted at will (including the activation color and the completion color)
- 10.4 Measurement result: display position and font size can be adjusted as needed
- 10.5 Professional data package: Abdomen, OB, Urology, etc

## **11. Graphic and Text Management System**

- 11.1 Host build in 128G hard disk, start fast and stable
- 11.2 Movie playback:  $\geq 600$  frames
- 11.3 Internal file information management system: can record patient number, name, check number, check date and so on, and can be searched and managed by number, check number, name and so on.
- 11.4 Report type:  $\geq 6$
- 11.5 One key fast report graphic and text management
- 11.6 Image format: BMP, DCM, JPG

## **12. Interface**

4 USB; 1 Video; 1 S-Video; 1 DVI; 1 HDMI; 1 RJ-45

## **13. Configuration**

- 13.1 Full Digital Color Doppler Ultrasound Diagnostic System: 1
- 13.2 Probe : R11 micro-convex probe, Convex probe, Linear probe, R15 micro-convex probe, Phased array probe, 4D probe
- 13.3 Video printer (optional), Laser printer (optional), Trolley
- 13.4 Two Years Warranty for Main Unit and Probe
- 13.5 Lifelong maintenance after warranty, lifelong free for software update