

**EMP-2100Vet**  
Digital Veterinary  
Ultrasonic Diagnostic  
Imaging System



**EMP**  
Build Healthy Life

**Technical Specifications:**

**General**  
Imaging mode: B, B+B, 4B, B+M, M  
Gray scales: 256  
Display: 10" non-interlaced SVGA  
Transducer frequency: 2 ~10MHz  
Transducer connector: 2 standard  
Beam-forming: DBF, DFS, DFS, DRF, RDF  
Scanning angle: from 30 to 150 degree (depending on probes)  
Scanning depth (mm): from 40 to 250 (depending on probes)

**Imaging Processing:**  
Pre-processing:  
Pre-settings  
Dynamic range  
Edge enhancement  
Frame correlation  
Line correlation  
6-segment TGC adjustment  
4 Focuses adjustment  
Tissue Harmonic Imaging (THI)  
Tissue Specific Imaging (TSI)

Post-processing:  
Gray transform  
Gamma correction  
Rejection  
Left-right reverse  
Up-down reverse  
Polarity reverse  
21 levels depth adjustment  
Partial zoom  
Real-time histogram

**Functions:**  
Cine loop: 365 frames bidirectional cine-loop  
Built-in storage media: Min.50 frames permanent storage and 16-frame snapshot  
Body mark: 24 types  
Probe auto-detection  
10-segment acoustic power output adjustment

**Measurement & Calculation:**  
B-mode: distance, circumference/perimeter, area, volume, angle,  
distance, time, velocity, EF slope, heart rate  
M-mode: distance, time, velocity, EF slope, heart rate  
Professional Software Packages for Veterinary Used:  
Obstetrics:  
Canine—GW, EDCB (GSD, CRL, HD, BD)  
Feline—GW, EDCB (HD, BD)  
Sheep—GW, EDCB (CRL)  
Swine—GW, EDCB (HL, SL)  
Bovine—GW, EDCB (CRL, BBD, BTD, BUD)  
Equine—GW, EDCB (GSD, ERD, ESD, EED)  
Llama—GW, EDCB (BPD)

**Cardiology:**  
Left ventricle B  
Left ventricle M  
Left atrium  
Mitral Valve  
Pulmonary valve  
Heart rate  
Tendon: Area Measurement

**Display:**  
Date, week, time, animal ID No., animal name, veterinarian name, hospital name, probe name, probe position, probe frequency, depth, focus position, frame rate, gain, acoustic output, frame average, line average, edge enhancement, dynamic range, gamma correction, body marks, character note, measurement values, etc.

**Others:**  
Peripheral ports: 1 Video output  
2 USB ports  
Power supply: AC 100-240V 50/60Hz  
Dimensions: 292mm (W) x 380mm (L) x 365 (H)  
Net weight: 10Kg

**Standard Configurations:**  
EMP-2100Vet main unit  
10" non-interlaced monitor  
2 transducer connectors  
365 frames cine loop memory  
Min. 50 frames built-in image storage  
2 USB ports  
Automatic diagnostic report browsed, saved and printed.  
Professional measurement & calculation software packages for animals  
Electronic micro-convex array probe: (5.0/6.5/7.5MHz)

**Options:**  
Electronic micro-convex array probe (3.5/5.0/6.5/8.0MHz)  
Electronic convex array probe (2.5/3.5/5.0MHz)  
Electronic linear array probe (5.0/7.5/8.5/10.0MHz)  
Electronic endorectal array probe (5.0/6.5/7.5MHz)  
Video printer  
Laser printer  
Needle-guided biopsy  
Footswitch  
Flash stick  
Mobile trolley  
DICOM3.0

**Options:**



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**EMP**

Shenzhen Emperor Electronic Technology Co.,Ltd. DISTRIBUTOR:

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We reserve the right to make modifications without prior notification.

**EMP-2100 Vet**  
*Digital Veterinary  
 Ultrasonic Diagnostic  
 Imaging System*

EMP-2100Vet, an advanced veterinary ultrasonic diagnostic imaging system based on full digital technologies, offering extensive professional veterinary software packages such as obstetrics, abdomen, small parts, cardiology for canine, feline, bovine, equine, swine, ovine, etc. and tendon calculation formulas for race-horse.

**Innovative Digital  
 Technology**

- Beam-forming: Digital Beam-forming (DBF)
- Dynamic Receiving Aperture (DRA)
- Dynamic Frequency Scanning (DFS)
- Dynamic Receive-focusing (DRF)
- Real-time Dynamic Filtering (RDF)
- Tissue Harmonic Imaging (THI)
- Tissue Specific Imaging (TSI)

**Features**

- Pre-settings
- Backlight keyboard
- See more details with min. 21 zooming levels
- Professional software packages for over 8 kinds of animal
- Smart diagnostic assistant for pet house and farm
- 10MHz high quality linear probe for diagnosis of race-horse
- 365 frames cine-loop
- Mobile trolley
- 2USB ports



**Clinic Application**



**Report**

Diagnostic report generated automatically, with selected images and doctor comments

