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Analytical Technologies Limited

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Modern Trolley Veternary Ultrasound Diagnostic System

VET-3014 is configured with a new imaging engine, which can significantly optimize imaging performance. It is a comprehensive imaging system engineered to meet today's most demanding needs, from deep abdominal, vascular to superficial small parts.



Windows Embeadded operation system		
 21.5' LED & free arm design Multi-angle adjustable LED screen meets different clinic demands. 		
 13.3' LED touch screen Brings doctors convenient operation and the time of examination is greatly shortened 		
Stereo audio system		
 Newly designed ergonomic console The fully height adjustable control panel enables optional positioning with just one touch 		
 Front and rear handles Handles on both front and rear make T70 easy to be transported. 		
 4 Active transducers ports Improve your flexibility in moving through a wide range of applications 		
• 4G RAM, 120G SSD+ 500G HDD		
 4 Wheels with locks Highly maneuverable, highly mobile four-wheeled platform makes portable exams easy 		



Advanced image process technology Spatial Compound Imaging

The spatia compound imaging technology uses ultrasound beam deflection to enhance the tissue boundary signals to make the boundaries of the tissue moro clear.

THI&FHI Imaging

THI and FHI increase signal intensity more than 30% compared to traditional signal processing, reducing noise and artifacts, and significantly increasing image resolution.





Normally imaging

Spatial compnund imaging

Advanced ultrasonic imaging technology

Issue Doppler Imaging (TDI)

The Tissue Doppler Imaging allows you to quantitatively evaluate local myocardial movement and function, with quantitative velocity parameter in TDI mode.Provide convenience for clinicians.

Free hand Elastographyt

The differences in tissue responses to pressure are detected and visualized in real-time by the elastography algorithms through different graphical representations, which can be particularly helpful in analyzing breast thyroid and musculoskeletal structures.

>> Anatomic M Mode

This advanced cardiac technology features three cursors which can be set at any position and angle simultaneously. Reducing time needed per patient, while maintaining diagnostic precision in addition to the standard cardiac features, acquiring all information even in hard-to-scan situations with difficult heart positioning.





High-End Trolley Full Digital Color Dorppler Veterinary Ultrasound Diagnostic System



- Enhance sector scan anglet
- Trapezoidal imaging
- Trssue harmonic imaging technology
- Broadband imaging technology
- The fowth generabon of space composite imaging tednology
- Create sound waves frame by diflarent acoustic directions
- Real-timee space maxed Imaging technology (mixed with multiple signal sources for wnang)
- The imageing compound was erase the stain and noise to from a clear image



- High-end images at your fingetlips.
- Based on the new tedinology platform, safe. stable operation system. caludy to deal variety unexpected sátuatons
- High performance, low power maclime to guarantee the best perfect image present
- High bnghtness, high resolution color medical LED display
- High sensattvity large touch saeen to make doctors more enjoyable vi clinical applicabons
- Adaptive Speckle Reduction Technology Th system may automatically track. identify and intensify useftd tissues-charactenstic ormabon Meanwhile, noise is filtered to increase S/N rabo. enathing clearer tissue boundary and more obvious wnage gradation. wtich is easy for distinguishing early-stage lesion tissues
- Multi-beam Forming Technology This technology can multiply receiving and processing scan lanes of mages from each element, which largely increases the frame rate of wnages B mode and contribute to outstanding animal cardiac performance.
- Trapezoidal Imaging Technology The extended field of view displays more image informattion without saaiflcing wnage quality, a convenient approach especÃafty for scanning big-size organs.
- Linear Steering Tedviology By steering the imaging area of knear array, doctor can easdy scan fleaghbOflflg organs without moving the probe, thus scarring bcomes morn effloent and easier

Fusion

- Excellent veterinary application
- Enriched veterinary probe type
- Professional veterinary software kits
- Smart veterinary data manage sysem
- Suitable for canine,feline,equine,bovine,swine and other more various veterinary clinical abdomen,chest,heart,endon,small organs,genital examination
- Optional: Convex probe,Linear probe,Micro convex probe,Rectal probe, Phased array probe
- \checkmark E360° rotatable support.
- \checkmark Dual Screen: 19 inch HD LED and 10.4 inch touch screen





High-End Portable Full Digital Color Doppler Veterinary\ Ultrasound Diagnostic System

VET 3011 High-end portable color Doppler veterinary ultasound scanner,which has 15 inch HD LED display, PIPintelligent imaging mode,high capacity Li-ion battery,professional soft-ware,dual channel probe port,fantastic shape,its has breakthrough grade chipset technolo-gy to ensure image quality.



>> 2D Mode

- 256 level,Grey scal map: ≥16 level,visible and adjustable
- Dynamic Range:20-28dB,visible and adjustable
- Resolution:lateral≤1mm,vertical≤0.5mm
- Under B mode, Focus No:1-6, position adjustable
- STC≥8,THI:frequency≥31cm,visible and adjustable
- Cine loop:≥4800 frames
- Adaptive speckle suppression:0-100 adjustable
- Amplification function:Overall amplification,zoom,amplification,M amplification (dynamic,frozen state can be used to enlarge certain area in the M amplification)

b Build-in graphics management system

• Editable diagnostic report, embed ultrasound diagnostic image in report, print directly

- Hard disk capacity:128GB SSD
- Image storage formate:≥4 kinds
- Input/Output interface:HDMI,Video,S-Video,WLAN,USB



b Doppler Mode

- Within PW & CW Function
- Sampling size:1-20mm, visible and adjustable
- Samplingangle correction: -80°-80°
- Dopplergain:adjustable
- PW Dopple Frequency:≥3, CW Doppler
- Frequency:≥15
- Real-timeautomatic Doppler envelope tracing, measure and analysis
- Baseline:Zero shift, classification adjusted

bb Configuration

- Full-Digital 2D Gray Scale.
- 2D & Color Doppler model automatic optimization & adjustable technology
- Tissue Harmonic Imaging(THI)
- Color Doppler Color Flow Mode(CFM)
- Directional Power Doppler Imaging
- Spatial compound imaging
- Trapezoidal imaging
- Real time triplex
- Speckle Reduction Technology
- 15 inch HD LED, display angle adjustable
- Probe port: , both active,one touch switch
- Optional:Convex probe, Linear probe, Micro Convex probe, Rectal probe,

Phased array probe

Applications

For canine, feline, equine, bovine, ovine and other animals in the clinical abdomen, chest, heart, tendon, small organs, reproductive system, fetal and other examination Large, Middle and small animal's liver, gallbladder, spleen, kidney, bladder, uterus, ovary and other tisses and organs inspection diagnossis of lesions:

Large, Middle and Small animal pregnancy, fetal growth, fetal vitality and fetal position identification and diagnosis.





▶ VET-3009P

Economic Trolley Full Digital Color Doppler Veterinary Ultrasound Diganostic System

It's a excellent Full Digital color Doppler veterinary ultrasound diagnostic system, it has fantastic shape, string functions and also can install touch screen. It can be equipped with the convex, micro convex, linear, rectal and phrased array probe, and also install the canine and feline special measure software.

VET-3009P is a veterinary color Doppler ultrasound scanner with comprehensive application.



Functional Characteristics

- En/RU/FR/SP/ARB/VN/ID/DE/FA/TH interface support
- Tissue harmonic imaging technology
- Professional veterinary software kits & CW function for cardiac
- Breakthrough chipset technology to ensure frame rate for different types of animal intelligence to take a different transmission and reception methods to ensure image penetration and resolution
- Using advanced algoithms to reach triple effect for enhanced picture quality, the structure and details more vivid
- Automatic speed diagnostic
- Build-in graphic integration workstations, with function of typical lesions cases leading-in

- Scanning mode:Convex/Linea/Micro convex/Rectal/Phased array
- Probe connector:4
- Ultrasound machine operation system:Windows operation system



- Dynamic rangr:0-160dB, 15level visible & adjustable
- Cine Loop:≥1000 frames
- Smart TGC control:8 segments
- Maximum display depth:≥300mm
- Display magnification:19 kinds display mode, to make the diagnostics more accurately
- Optional: convex, micro convex, linear, rectal, phrased array

360° rotatable bracket come with memory function,the display angle set by your wish

Display 1: 19 inch HD LED

Display 2: 10.4 inch touch screen(Optional)











▶ **VET-3008P**

Economic Portable Full Digital Color Doppler Veterinary Ultrasound Dignostic System



>> Professional Clinical Applications

Canine	Feline	
Equline	Bovline	
Ovline	Feline	
Net weight: 6.7KGS, Gross weight: 18KGS		
Machine dimension: 370mm x 360mm x 75mm		
Optional:Convex probe, Linear Probe, Micro Convex probe Rectal probe, Phased array probe		



- Many kinds language support
- Ultrasound scanner operation system: Window operation system
- Display: 15 onch HD LED
- Backlight control panel
- Plentiful storage interface
- Dynamic range:0-160dB
- Built-in High Capacity lithium battery life ≥2.5 hours
- One key intelligent optmization: cine loop ≥ 1200frames, playback continuously or view by frame
- Pre-processing: variable aperture, dynamic apodization, dynamic digital filtering, multibeam parallel processing technology
- Post-processing:dynamic range,gray scale curve, fame correlation, tissue harmonics, sound power, wall filter, cumulative number,baseline adjustment, sampling frame adjustment, spectrum sampling volume, spectral sampling volume angle, PRF
- Preset conditions: for different organ inspection, preset to optimize the image of the inspection conditions, to reduce the adjustment during operation and preset the external adjustment for common required and combination adjustment
- EN/RU/FR/SP/PT/ARB/VN/ID/DE/FA/TH/interface support

Application Range

- VET dedicated software: Expert veterinary preset, measurement and body mark
- Applicable to canine, feline, equine, bovine, ovine and other animals in the clinical abdomen, chest, heart,tendon, smallorgans, reproductive system, fetal and other examination





Basic Trolley Full Digital Color Doppler Veterinary ultrasound Diagnostic Syestem



- Tissue harmonic imaging technology
- Professional veterinary software kits
- One key intelligent optimization
- Breakthrough chipset technology to ensure frame rate
- EN/RU/FR/SP/PT/ARB/VN/ID/DE/FA/TH interface support
- For different types of animal intelligence to take a different transmission and reception methods to ensure image penetration and resolution
- Using advanced algorithms to reach triple effect for enhanced picture quality, the partical display reaches the quantum level, you can see the structure and details more vivid:
- Probe -wide-band frequency
- Button -quick and easy control
- Wrist support -reduce stress damage
- Display bracket 360° adjustable
- Probe box hook type humanized design
- Silicone keyboard LED backlit



Image parameters

- Image optimization: 7 level, visible & adjustable
- Dynamic range: 0-180dB, 15 level visible & adjustable
- Pseudo color: 7 level, visible & adjustable
- Smoothing image: 7 level, visible & adjustable
- Edge enhancement: 8 levels, visible & adjustable
- Sound power: 0-15 levels, total 16 level visible & adjustable
- Monitor: 17 inch HD LED
- Color filter technology
- Speckle suppression technology
- Multi-angle composite imaging technology
- Multi-beam processing technology
- Optional: Convex probe, Linear probe, Micro convex probe, Rectal probe





VET-3008

Basic Portable Full Digital Color Doppler Veterinary ultrasund Diagnostic System



- Net weight: 6.7KGS, Gross weight: 18KGS
- Machine dimension: 370mmx360mmx75mm
- optional: Convex probe, Linear probe, Micro convex probe, Rectal probe

b Machine parameters

Build-in high capacity Lithium-ion Battery, the endurance power \geq 2.5hours

Dynamic range: 0-160dB, 15levels adjustable

Cine Loop: ≥1000 frames

Image optimization: Level 7, visible & adjustable

Pseudo color: 8 kinds, visible & adjustable

Smoothing: Level8, visible & adjustable

Edge enhancement: Level 8, visible & adjustable

Sound power: 0-15 level, total 16 level visible & adjustable



- 15 inch HD LED Display
- One key smart optimization
- Keyboard design: easy and quick access
- Integrated clipboard: display the saved image in the bottom of the screen, it can call out or delete directly
- Ultrasound scanner operation system: Windows system
- Preset condition: for different orgen inspection, preset to optimize the image of the inspection conditions, to reduce the adjustment during operation, and preset the external adjustment for common required and combination adjustment
- EN/RU/FR/SP/PT/ARB/VN/ID/DE/FA/TH interface support





High Elements Trolley Full Digital Veterinary ultrasound Diagnostic System



- Special Design for Veterinary
- Display: 15Inch LCD, Angle view adjustment more flexible
- Backlit silicone keyboard, more comfortable and wearable, no more worry whrn use in dark room:
- Probe interface:3
- EN/RU/FR/SP/PT/ ineterface support
- Display magnification: 16 kinds of display mode, more accurate diagnosis of lesions. x0.8, x1.0 can enhance the depth of the display
- Adaptive Speckle Reduction technology: The system may automatically track, identify and intensify useful tissues-characteristic information, Meanwhile, noise is filtered to increase S/N ratio, enabling clearer tissue boundary and more obvious image gradation, which is easy for distinguishing early-stage lesion tissues.
- Multi-beam Forming technology: This technology can multiply receiving and processing scan lines of images from each element, which can largely increase the frame rate
- Net Weight: 26.6KGS, Gross Weight: 40.6KGS,
- Machine dimension: 740x520x1310mm
- Optional: Convex probe, Linear Probe, Micro convex probe, Rectal probe, Backfat probe





Scope of Application

Middle and Small animal pregnancy, fetal growth, fetal vitality and fetal position identification and diagnosis Middle and Small animals, liver, gallbladder, spleen, kidney, bladder and other tissues and organs inspection and diagnosis of lesions: Uterus, ovary these reproductive system diagnosis of lesions





VET-3003

High Elements Portable Full Digital Veterinary Ultrasound Diagnostic System



- High elements probe, high definition, more function laptop type veterinary ultrasound diagnostic scanner
- Compact and lightweight, clear image, easy operate, powerful endurance
- Variety charging methods to guarantee the inspection of doctor consultation under different environments
- High Speed USB Port support High-capacity USB disk and support the color printer out all kinds of image and report which make the output of diagnostics more convenient and simple
- Backlit silicone keyboard, photoelectric trackball and encoder, easy operate
- Dual probes socket(Optional)



b Main configuration

Display: 12.1 inch medical LCD		
Scanning mode: Convex/Linear/Micro Convex/Rectal		
Maximum detect depth: 307mm		
THI and Histogram function	Main gain: 0-100%	
Smart TGC control: 8 segments	E-focus:4	
Image Storage: 4920 Images	Pseudo color: 8 kinds	
Scanning area(angle): 3 levels	Edge enhancement: 0-3	
Linear correlation: 0-5	Dynamic range: 0-135db	
Cine loop: 512 frames	Body mark: 97 kinds	
probe connector: 1, with automatic identification function to support variety of probes to work		
frequency: support high-frequency probe, with 2.5MHZ, 3.5MHZ, 4.5MHZ, 5.5MHZ, 6.5MHZ, 7.5MHZ, 8.5MHZ frequency		
Long endurance battery: 5-7 hours endurance power		
Net weight: 4.7KGS, Gross Weight: 9.5KGS.		
Machine dimension: 47x22x40mm		
Optional: Convex probe, Linear probe, Micro convex probe, Rectal probe, Backfat probe		
EN/RU/FR/SP/PT interface support		

>> Applicable scope

• OB measurement: GA and EDD for Bovine, Equine, Ovine, Canine, Feline, Goat, Swine and Llama

- Poultry muscle thickness, area determination, uterus, ovarian and other reproductive system disease diagnosis
- Pregnancy, fetal development, fetal viability and male/female identification:
- Variety of animal breast body tumor, abscess and hematoma examination



Middle Elements Trolley Full Digital Veterinary Ultrasound Diagnostic System



Scope of Application:

Middle and Small animal pregnancy, fetal growth, fetal vitality and

fetal positon identification and diagnosis.

Middle and Small animals, liver, gallbladder, spleen, kidney, bladder

20

and other tissues and organs inspection and diagnosis of lesions:

Uterus, ovsry these reproductive system diagnosis of lesions



- Special Design for veterinary
- Display: 15 inch LCD Medical monitor, Angle view adjustment more flexible
- Backlit silicone keyboard, more comfortable and wearable, no more worry when use in dark room:
- Probe interface:2
- Display magnification: 16 kinds of display mode, more accurate diagnosis of lesions, x0.8 x1.0 can enhance the depth of the display
- Adaptive Speckle Reduciton technology: The system may automatically track, identify and intensify Useful tissues-characteristic information. Meanwhile, noise is filtered to increase S/N ratio, enabling clearer tissue boundary and more obvious image gradation, which is easy for distinguishing early- stage lesion tissues.
- Multi-beam Forming technology: This technology can multiply receiving and processing scan lines of images from each element, which can largely increase the frame rate
- Net Weight: 26.6KGS, Gross Weight: 40.6KGS,
- Machine dimension: 740x520x1310mm
- Optional: Convex probe, Linear probe, Micro convex probe, Rectal probe, Backfat probe
- EN/RU/FR/SP/PT interface support



Special Design for veterinary



Display: 15 inch LCD Medical monitor, Angle view adjustment more flexible



Backlit silicone keyboard, more comfortable and wearable, no more worry when use in dark room:





Middle Elements Portable Full Digital Veterinary Ultrasound Diagnostic System



- First-class digital imaging technology, clearer image
- Full and rich graphic information processing functions
- Very good image: left anf right flip, black and white flip, up and down flip
- Long time cine loop, image automatic cycle playing
- External USB storage, more convenient for image upload
- Compact size, clear image, easy operation, strong endurance
- Dual probes socket(Optional)



bb Main cinfiguration

- 12.1 inch LCD display convenient and flexible
- Backlit silicone keyboard, easy to operate in dark room
- Dynamic range: 0.120dB, adjustable
- Cine Loop: 256 frames
- Detect depth: 240mm
- Image storage: 127 images
- Pseudo color: 16 kinds
- OB-GYN: BPD, CRL, GS, FL, HC, AC
- High capacity Lithium-ion battery: 4-8 hours
- Net weight: 4.3KGS, Gross Weight: 8KGS,
- Machine Dimension: 47x22x40mm
- Optional: Convex probe, Linear probe, Micro convex probe, Rectal probe, Backfat probe
- EN/RU/FR/SP/PT interface support

Scope of Application:

- Middle and Small animal pregnancy. fetal growth. fetal vitality and fetal position identification and diagnosis
- Middle and Small animals, liver, gallbladder, spleen, kidney, bladder, uterus and other tissues and organs inspection and diagnosis of lesions:
- Uterus, ovary these reprofuctive system diagnosis of lesions



HIGH-END ANIMAL FARM Palm Full Digital Veterinary Ultrasound Diagnostic System

VET-3006 full-Digital ultrasound diagnosis System is new production of Xuzhou DaWei electronic Equipment co. Ltd. which was resource from latest digital system structure. it can supply excellent 2D image, and because PALM more compact and convenient features to make it play a greater role in the field of veterinary if compare with traditional trolley and portable ultrasound production, this Veterinary PALM ultrasound scanner suitable for Cattle, sheep, horse, swine, cat, dog and other animals





Compact/ Exquisite / Portable





Leading digital beam former technology. CNC Dynamic Frequency Scanning Technolody Real-time point-by-point dynamic accepatance focus technolgy Real-time dynamic aperture imaging



- Powerful System Functions
- HD video playback
- Image storage function
- Parameters optimization and pre-set function
- Function of screen protection to extend equipment life effectively
- Scope of Application
- Large, Middle and Small animal pregnacy, fetal growth, fetal vitality and fetal position identification and diagnosis
- Large, Middle and Small animals, liver, gallibladder, spleen, kidney, bladder, uterus, ovary and other trissues and organs inspection and diagnosis of lesions:
- Bovine, Sheep, Equine, Swine and other large animal back fat thickness measurement

✓ Excellent Human-Computer Ineraction

- ✓ Comfortable hand-held imaging, ultra-light weight, easy to carry
- ✓ High-resolution LCD display to improve diagnostic accuracy
- \checkmark USB, TF card ports for convenient and fast image storage and playback
- \checkmark Integrated long life lithium battery ensure long power outages check, AC and DC dual-use
- \checkmark Real-time dynamic beam apodization
- ✓ Fast of keyboard operation / Convenient / Flexible
- ✓ Various of pseudo color display
- \checkmark Simple and beautiful operation panel





Economical ANIMAL FARM Palm Full Digital Veterinary Ultrasound Diagnostic System

VET-3005 is the application of computer control and digital sweep converter(DSC), broadband low noise Pressure control amplifier, digital logarithmic compression, digital dynamic filtering, frame correlation processing, edge enhancement technology to make the machine image clearer and high resolution. Compact and portable PALM ultrasound scanner, built-in battery, waterproof probe, user friendly and the diagnosis is accurate.



- Technology parameters: mechanical sector scan
- Power consumption: 13W when working in non-charging state)/25W
 When working in charging state
- Depth: 46-208mm, adjustable
- Machine dimension: 228x137x49mm
- Frame frequency: 30 frames/second
- Machine weight: 800G
- Measurement: distance, perimeter, area, gestational age, etc,
- Standard configuration: machine (including one lithium-ion battery) 8G TF memory card

- 3.5MHz waterproof mechanical sector scan probe
- Operation manual
- Adapter
- Optional: Extra lithium-ion battery
 - Adapter for car
 - Ecternal vharger



- Compact, portable and user-friendly
- Continuosly working 4-5 hours: Large capacity pluggable mobile rechargeable lithium-ion battery with imported high capacity battery.
- Power protection function can extend battery life.
- Winter mode: One key to start the winter mode. the probe can be used directly without waiting for warm-up winter mode
- The image more delicate: 15 levels images pre-processing
- Applications: Detect pregnancy, Estimate fetal quantities, Diagnose disease. Fetal Vitality evaluation, Fetal heart beats.
- Applicable to: cattle, horse, sheep, pigs, cat and dog pregnancy diagnosis (integration of six common animal gestational age measurement data kits)
- Feasible scope : large-scale animal farms, artificial insemination station, feed/ veterinary drug distributors and business, research and teaching units
- Support 2.5 /3.0/3.5/5.0MHZ four kinds frequency 15 kinds Magnifications, 5.6 inch LCD, Mini USB port. TF card slot.



- ✓ Image storage: The machine has TF card and USB port, the image can be stored in TF card directly, unlimited expansion for storage.
- \checkmark Stored data can be copied, so the image quantity has no limited by the unlimited storage,
- $\sqrt{1}$ You can recall the stored image on the TF card byframe or continuously frame,
- ✓ Hand-held design, set a variety of patented technology in one, small size, 8 kinds pseudo color image display
- ✓ Light weight, easy carry, user friendly,
- \checkmark Tact touch-button, button position reasonable and operation easily.

Regulatory compliances



Corporate Social Responsibility

Analytical Foundation is a nonprofit organization (NGO) found for the purpose of:



1.Research & Innovation Scientist's awards/QC Professional Award : Quality life is possible by innovation only and the innovation is possible by research only, hence ANALYTICAL FOUNDATION is committed to identify such personallities for their contributions across various field of Science and Technology and awarding them yearly. To participate for award, send us your details of research / testing / publication at Info@analyticalfoundation.org

2. Improving quality of life by offering YOGA Training courses, Work shops/Seminars etc.

3. ANALYTICAL FOUNDATION aims to DETOXIFY human minds, souls and body by means of yoga, Meditation, Ayurveda, Health Care, Awards, Media, Events, Camps etc.

Reach us @





Technologies Limited

HPLC Solutions Corporate & Regd. Office: Analytical House, # E67 & E68,

Ravi Park, Vasna Road, Baroda,

Gujarat 390 015. INDIA

T +91 265 2253620 +91 265 2252839 +91 265 2252370 F: +91 265 2254395

MultipleLabs

Analytical Bio-Med **Analytical Distributors** **Analytical Foundation (Trust)**

E: info@hplctechnologies.com info@multiplelabs.com info@analyticalgroup.net info@analyticalbiomed.com

W. www.analvcalgroup.net www.hplctechnologies.com www.multiplelabs.com www.ais-india.com

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