

PT60 Vet Multi-Point Touch Color Doppler Ultrasound Scanner System

Technical Specification

1 System Overview

Standard Features:	PT60 Vet touch color Doppler ultrasound system (multi-Point Touch support), perfect for equine and small animal medicine, is a true simple smart in ultrasound with portability, ease of use, reliability, and durability. PT60 Vet offers a new level of intuitive operation, innovative productivity tools and powerful processing for empowering pregnancy control & reproduction diagnosis, abdominal exams, tendon exams, stallion genital tract, foetal sexing. The result is an all-new level of efficiency and image quality.
Application scenarios:	<ul style="list-style-type: none">• Applicable to equine, large animal, small animal, zoo mammal, and marine mammal medicine body scans, for example, Abdomen, Reproduction, Gynecology, Cardiology, Small Parts• and veterinary clinic & research departments and livestock farm, Zoo, etc.
Ultrasound platform	Based on Windows high-speed hardware platform, provides a cutting-edge 64-beam imaging, can handle up-to 4500 frames image per second
Imaging Modes:	B/C/D triplex mode Dual live: B/C, B/PW, B/M Dual-split: B/C, B/M, B/PW Adjustable time line display format (1:1, 1:2, Full)
Gray scale levels:	256
Transducer Type:	Convex Array, Linear Array, Rectal Array
Transducer frequency:	2-15 Mhz
Transducer connector:	one(1) active transducer connector ports/support extend extension transducer connector(reserved)
Scanning depth:	up to 351mm
Language	Software: English, Spanish, Russian, Italian, Deutsch, French, Italian, Korean, Magyar, Polish, Romana, Chinese, and more(ODM support!) Keyboard Input: English, Spanish, and more(ODM support!)

2 Physical Spec

System Dimension:	Height: 402 mm Width: 385mm Depth: 53mm
Weight:	Around 5.5 kg (Include Battery)
materials of systems body:	Fireproofing and anti-corrosion ABS
Monitor:	<ul style="list-style-type: none">• 15" high resolution LCD monitor with tilting to view it freely and comfortably• Resolution: 1024×768• Brightness Adjustable• Max Opening Angle: 45°
Touchscreen:	Capacitive touch screen, multi-Point Touch support!
Physical channels	64
Transducer element	128
Power:	System operates via AC power & battery
AC Adapter:	<ul style="list-style-type: none">• Model: MANGO-BMV-14AD• Voltage: 100-240VAC• Frequency: 50/60 Hz• Current: 5.7A• Output: 14V
Battery: (optional)	<ul style="list-style-type: none">• Model: LY606090• Lithium-Ion, 11.1V, 7000mAh• Charge to Full: 6hours• Max Duration: 150 minutes realtime scan *



* vary on the configuration and different working condition, for more details to contact the sales.

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- Operating Environment:*
- Temperature: 0-40 °C
 - Humidity: 30%-85% (non-condensing)
 - Pressure: 700hPa-1060hPa
- Storage and Transport:*
- Temperature: -20-55 °C
 - Humidity: 30%-95%(non-condensing)
 - Pressure: 700hPa-1060hPa

3 User Interface

- Control Panel:*
- Easily be adjusted to the user's preferred height(up to 45°)
 - iBscan™ Quick Image Optimization
 - One Touch to Zoom
 - Image clip board for thumbnail view
 - Alphanumeric QWERTY keyboard with Backlight
 - Ergonomic Soft Key Operations
 - User Defined Blank keys: shortcut for easy access to system menus and active parameter adjustment
- Boot-up and Power off:*
- Hard boot-up in 30s
 - Power off in 10s
- Comment*
- Text and arrow available
 - Size of text and arrow adjustable
 - Set home position for comment initiation
 - Full packages for all application
 - User-defined text
- Bodymark*
- Bodymark patterns for all application
 - Support transducer mark
- Screen Displayed Info**
- BMV Logo
 - Hospital Name
 - Exam Date
 - Exam Time
 - Acoustic Power
 - Frequency,Angle
 - Thermal Index
 - ID, Name
 - Probe
 - TGC Curve
 - Focus Position
 - Thumbnail
 - Measurements
 - Image Parameters

*Not all items are listed in here, please refer to user manual for detailed info.

4 Imaging Processing

- Phase Shift Harmonic Imaging*
- Tissue Harmonic Imaging*
- Compound Imaging*
- Speckle Suppression Imaging*
- Wide-angle imaging*
- Panoramic focusing technology*
- Tissue Harmonic Imaging*
- Auto Optimization*
- Automatically expand the image to full screen*
- ZOOM imaging*
- Imaging Processing Technology:

5 Measurement & Calculations

- B mode:*
- Distance, angle, area, volume, trace length, distance ratio



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M mode: Distance, time, slope, HR
 Software packages: abdomen, cardiac, gynecology, obstetrics, urology,, small parts (thyroid), etc. *

*Individual Measurements and Calculation packages for different applications.

6 **Input and Output**

HDMI: 1(reserved)
 Ethernet: 1(reserved)
 USB 3.0: 2
 MIC: 1
 DC in: 1

7 **Intelligent Workflow/Storage/Review**

Storage

- Intelligent patient data management platform with integrated search engine for patient data
- Intelligent data backup/ restore
- 64G(standard)/128G(optional) integrated hard disk for large number of patients can be store.

Cine review Auto, Manual (auto review segment can be set), supports linked cine review for 2D, M/D images.

Cine memory capacity (Max.) Clip length presettable: 1-60s
 B mode: 12394 frames
 M mode: 181.1s
 - PW/CW: 169.6s
 Color: 10121 frames

Exam Management

- Powerful “Station” for patient management
- Patient quick search and retrieve
- Able to review current exam and past exam
- Support new exam, activate exam, continue exam
- Able to measure on stored images and cines
- Able to export file as JPG/AVI/PNG/DICOM/DICOM-JPEG/BMP
- Able to back up data to USB device

8 **Multi-frequency probes**

Convex probes

C3.5/R60/D-3 color Doppler convex array transducer

- Small Animal/Feline Application:** Suspected Abdominal Effusion, General Abdominal Mass, Cranial Organomegaly, Caudal Mass, Pregnancy, Splenomegaly, Abnormal Kidneys, Cystocentesis
- Equine/Large Animal Application:**Abdomen, Transabdominal Preg Check, MSK imaging of the Sacroiliac, Thoracolumbar Spine, Cervical Spine, Imaging insertion of DDFT on P3 and Impar ligament through the foot
- Frequency Bandwidth: 2.0-5.0MHz
- Central frequency: 3.5 MHz
- Radius: 60 mm
- View angle: 61 degrees
- Scanning Depth: 36-351 mm

RC3.5/R60/D-3 color Doppler Rectal convex array transducer

- Bovine Animal Application:**This type curve convex probe for cattle helps you make more accurate bovine pregnancy diagnosis between 30 and 60 days because of its deeper penetration with curved probe technology,in additional, it also has numerous other abdominal applications.
- Equine:** Reproduction, Musculoskeletal
- Sheep/Deer/Pig/Fish:**Reproduction
- Frequency Bandwidth: 2.0-5.0MHz
- Central frequency: 3.5 MHz
- Radius: 60 mm
- View angle: 61 degrees
- Scanning Depth: 36-351 mm
- Element: 128

provides you a wide field of view with phenomenal depth than rectal linear probe.



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PV6.5/10/64D-3 color Doppler Micro-convex array transducer(standard configuration)

Small Animal Applications: Suspected Abdominal Effusion, General Abdominal Mass, Cranial Organomegaly, Caudal Mass, Cardiac, Pregnancy, Splenomegaly, Abnormal Kidneys, Cystocentesis
Equine/Large Animal Application: DDFT insertion through Heel Bulbs, Cervical Spine
Frequency Bandwidth: 4.0-9.0 MHz
Center frequency: 6.5 MHz
Radius: 10 mm
View angle: 150 degrees
Scanning Depth: 36~184 mm
Element: 128

Linear probes

HL10.0/25/64D-3 High Frequency color Doppler Linear probe

Small Animal/Feline Application: Suspected Abdominal Effusion, General Abdominal Mass, Cranial Organomegaly, Caudal Mass, Splenomegaly, Abnormal Kidneys, Cystocentesis, Musculoskeletal
Equine/Large Animal Application: Distal Limb Imaging including: Stifle, Proximal Suspensory Origin, SDFT, DDFT, Collateral Ligaments, Pastern and Fetlock
Frequency Bandwidth: 6.0-14.0 MHz
Center frequency: 10.0MHz
Scanning width: 25 mm
Scanning Depth: 18~184 mm
Element: 128

HL10.0/40-64D-3 color Doppler Linear probe

Small Animal/Feline: Suspected Abdominal Effusion, General Abdominal Mass, Cranial Organomegaly, Caudal Mass, Splenomegaly, Abnormal Kidneys, Cystocentesis, Musculoskeletal
Equine/Large Animal Application: Distal Limb including: Stifle, Proximal Suspensory Origin, SDFT, DDFT, Collateral Ligaments, Pastern and Fetlock
Frequency Bandwidth: 5.0-10.0 MHz
Center frequency: 7.5MHz
Scanning width: 40 mm
Scanning Depth: 18~184 mm
Element: 128

RL10.0/40-64D-3 Rectal color Doppler Linear probe

Equine/Large Animal Application: Obstetrics, Chest/lung exam, Transrectal Examination of Sacroiliac Joints & LumboSacral nerve roots
Frequency Bandwidth: 5.0-10.0 MHz
Center frequency: 7.5MHz
Scanning width: 40 mm
Scanning Depth: 18~184 mm
Element: 128

9 Peripherals and Accessories (Optional)

MITSUBISHI P93W

- High Speed Printing
- High-density 325 dpi thermal Head
- Worldwide compatibility
- Simple and Convenience to Operate

Digital B/W Video Printer

SONY UP-895MD

- Built-in WIFI Adapter
- Encryption: WPA/WP2/WPAI, 64/128/152-bit WEP, WPS
- Max transfer speed: 150Mbps
- Protocol: 802.11b: CCK, QPSK, BPSK, 802.11g/n: OFDM

Graph / text printer

All Brand's different model printers

10 Certificate and Security

Quality Certificate

ISO 9001, ISO 13485



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<i>Complied Standards</i>	CSA C22.2 No. 601-1 EN 60601-1 and IEC 60601-1 EN 60601-1-2 and IEC 60601-1-2 EN 60601-1-6 and IEC 60601-1-6 EN 60601-2-37 and IEC60601-2-37 EN 62304 and IEC 62304 EN 62366 and IEC 62366 EN ISO 17664 and ISO 17664
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11 Standard Configurations

PT60 Vet Systems

15" high definition LCD monitor

Touchscreen

Two USB ports

PV6.5/10/64D-3 color Doppler Micro-convex array transducer

64G integrated hard disk

One power inlet

One transducer connectors

Indicators: Power /Standby/HDD status

Color/PW

Speckle Suppression Imaging

Phase Shift harmonic imaging

Shared Service Package

Compound Imaging

Patient management

Plenty of measurement&calculation software packages

Two special-designed probe holder

Lithium Battery Supporting normal diagnosis

User defined exam settings

12 months warranty since ex-factory date for main unit

12 months warranty since ex-factory date for probes

12 Options:

Convex array transducer

Linear array transducer

High frequency linear probe

Micro convex probe

Rectal linear probe

Needle-guided brackets

AC Adapter

Mobile trolley

Wheeled transport case

13 Warranty :

Standard Warranty	12 months warranty since ex-factory date for main unit; 12 months warranty since ex-factory date for probes; Free Lifetime upgrade to new versions.
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Optional Warranty	12 months warranty for system
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14 OEM/ODM Order

Our company not only produce products by own BMV brand, but also accept OEM, ODM order by customers. We will satisfy your order by our faithful service.



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Note 1: BMV Technology Co., Ltd reserves the right to make changes in specifications and features shown herein, or discontinue the product described at any time without notice or obligation. Contact your BMV Representative for the most current information.

Note 2: PT series, stands for Pad Touch ultrasound scanner systems;

Note 3: Different models with different configuration ,please selected the most suitable systems to your expecting needs and



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