# PT60 Vet Multi-Point Touch Color Doppler Ultrasound Scanner System

## Technical Specification

### 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:**
- 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:**
- 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!)

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### Physical Spec

<table>
<thead>
<tr>
<th>System Dimension:</th>
<th>Height: 402 mm Width: 385mm Depth: 53mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight:</td>
<td>Around 5.5 kg (Include Battery)</td>
</tr>
<tr>
<td>Monitor:</td>
<td>Fireproofing and anti-corrosion ABS</td>
</tr>
<tr>
<td></td>
<td>• 15” high resolution LCD monitor with tilting to view it freely and comfortably</td>
</tr>
<tr>
<td></td>
<td>• Resolution: 1024×768</td>
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<tr>
<td></td>
<td>• Brightness Adjustable</td>
</tr>
<tr>
<td></td>
<td>• Max Opening Angle:45°</td>
</tr>
<tr>
<td>Touchscreen:</td>
<td>Capacitive touch screen, multi-Point Touch support!</td>
</tr>
<tr>
<td>Physical channels</td>
<td>64</td>
</tr>
<tr>
<td>Transducer element</td>
<td>128</td>
</tr>
<tr>
<td>Power:</td>
<td>System operates via AC power &amp; battery</td>
</tr>
<tr>
<td>AC Adapter:</td>
<td>• Model: MANGO-BMV-14AD</td>
</tr>
<tr>
<td></td>
<td>• Voltage: 100-240VAC</td>
</tr>
<tr>
<td></td>
<td>• Frequency: 50/60 Hz</td>
</tr>
<tr>
<td></td>
<td>• Currency: 5.7A</td>
</tr>
<tr>
<td></td>
<td>• Output: 14V</td>
</tr>
<tr>
<td>Battery (optional)</td>
<td>• Model: LY606090</td>
</tr>
<tr>
<td></td>
<td>• Lithium-Ion, 11.1V, 7000mAh</td>
</tr>
<tr>
<td></td>
<td>• Charge to Full: 6 hours</td>
</tr>
<tr>
<td></td>
<td>• Max Duration: 150 minutes realtime scan</td>
</tr>
</tbody>
</table>

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

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BMV Technology Co., Ltd
Web: www.bmv.cc Email: export@bmv.cc Tel: +86-755-26564580
Add: 4/F, BMV of Yinjin Building, Block 71, Baoan Centre District, Shenzhen 518010, China
**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

**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.

**Imaging Processing**

- Phase Shift Harmonic Imaging
- Tissue Harmonic Imaging
- Compound Imaging
- Speckle Suppression Imaging

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

**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 stored.

**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, Cystocele  
  **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 addition, 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

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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

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

Certificate and Security

Quality Certificate
ISO 9001, ISO 13485
Complied Standards
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

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.
Optional Warranty 12 months warranty for system

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