

BestScan® S6 Touch Series Handheld Veterinary Ultrasound Scanner System

Technical Specification

Applicable Models: BestScan® S6 Touch **Linear**
BestScan® S6 Touch **Curve**
BestScan® S6 Touch **OPU**

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Unique Selling Point:

Environmental rating: With IP67 waterproof protective case; IP67 (probe head), IP45 (main unit)

Battery: Continuous scan greater than 9 hours with 2 batteries, replaceable battery design

Grid for estimation: With grid on the image area, you can easily estimate the size of the target substance like follicle, fertilized egg, etc.

Rotate Screen You can operate the ultrasound system either in left hand layout or right hand layout. It can automatically adapt to two different layouts when you rotate it.

Touch Screen The first Touch Handheld Ultrasound Scanner Systems in China, very easy using like mobile phone.

Patent design: Rectal Convex Probe (wide field of view and deeper penetration) + Works with sizes of IFR™ Probe Introducer;
Rectal Linear Probe + Works with sizes of IFR™ Probe Introducer;
Hood sheath: Using hood sheath sunlight readable

Modular software: Easy for upgrade, free lifetime upgrade to new versions

Storage and Export: Images saved up to 1000 frames, and export via USB/SD supported

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System Overview

Standard Features: Engineered for maximum bovine/equine pregnancy diagnosis throughput, the BestScan® S6 Touch Series features a new touchscreen user interface with a clinician-driven menu logic that adaptively adjusts to your imaging needs – “what you need, is what you see”. BestScan® S6 Touch Series with slim and compact size, and ease of use, and probe introducer technology, are providing you with the best of image quality, durability and reliability required by today's large animal veterinarian. In other word, designed to satisfy all veterinarians' field applications.

Application scenarios:

- Applicable to Dairy Cows, Beef Cows, Feedlot, Sheep, Horses, Pigs, Small Animals and other body scans, for example, Abdomen, Reproduction, Gynecology, Cardiology, Small Parts
- and veterinary clinic & research departments and livestock farm, Zoo, etc.

Ultrasound platform Based on linux, stable performance, security data

Imaging Modes: B, M, 2B, B/M, 4B

Gray scale levels: 256

Transducer Type: Convex Array, Linear Array, Rectal Linear Array

Transducer frequency: 2-12Mhz

Transducer connector: one active transducer connector, unique micro connector

Scanning depth: up to 300mm

Dynamic imaging technologies: Digital Frequency Scan
Digital Beam-forming
Dynamic Receiving focusing
Dynamic Receiving apodization
Real-time Dynamic Aperture
Tissue Specific Imaging



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<i>Language</i>	Software: English, Chinese, Spanish,Turkish, Portuguese, Italian, and more(ODM support!) Keyboard Input: English, Chinese, and more(ODM support!) User Manual: English, Chinese
<i>Zoom</i>	Real time zoom Freeze zoom Overall Gain, Near-field Gain, Far-field Gain
<i>Image memory</i>	Up to 1000 frames
<i>Cine loop</i>	512 frames

3 Physical Spec

<i>System Dimension:</i>	Height: 245mm Width: 153 mm Depth:41mm
<i>Weight:</i>	1.2 kg (2.6 lbs) w.o. transducer
<i>Materials of systems body:</i>	Fireproofing and anti-corrosion ABS,military level
<i>Monitor:</i>	<ul style="list-style-type: none"> • 7" high resolution TFT color LCD • Resolution: 800*480 • Brightness Adjustable
<i>Touchscreen:</i>	Fully resistive touch screen
<i>Physical channels</i>	16
<i>Transducer element</i>	128
<i>Power:</i>	System operates via AC power(Power supply) & battery <ul style="list-style-type: none"> • Model:MANGO-BMV-12AD-S • Voltage: 100-240VAC
<i>AC Adapter:</i>	<ul style="list-style-type: none"> • Frequency: 50/60 Hz • Currency: 5A • Output: 15V • Model: LY606090
<i>Battery: (optional)</i>	<ul style="list-style-type: none"> • Lithium-Ion, 11.1V , 5000mAH • Charge to Full: 6 hours • Max Duration:4.5 hours realtime scan *

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

<i>Operating Evironment:</i>	<ul style="list-style-type: none"> • Temperature: 0-40 °C • Humidity: 30%-85% (non-condensing) • Pressure: 700hPa-1060hPa • Temperature: -20-55 °C
<i>Storage and Transport:</i>	<ul style="list-style-type: none"> • Humidity: 30%-95%(non-condensing) • Pressure: 700hPa-1060hPa

4 Imaging Processing

<i>Pre-processing</i>	Gain adjustment Dynamic range Frame correlation Edge enhancement Line density Gray scale
<i>Post-processing</i>	Gray reject Scan angle Left/right reverse Up/down reverse Polarity reverse Left/right handed operation

5 User Interface



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- Control Panel:*
 - Image clip board for thumbnail view
 - Quick operate shortcut keys
 - Easy operation
- Boot-up and Power off:*
 - Hard boot-up in 12s
 - Power off in 1s
- Comment:*
 - Text and arrow available
 - 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
 - MI
 - ID, Name
 - Probe
 - TGC Curve
 - Focus Position
 - Thumbnail
 - Image Parameters

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

6 Measurement & Calculations

General B mode distance, circumference, area, (trace/ellipse), volume, etc

Measurement:

M mode: Distance, time, slope, Heart Rate

Software packages: The measurement function is arranged by exam type and is available for use with all exam type (Canine, Feline, Ovine, Bovine, Equine).*

*Individual Measurements and Calculation packages for different applications.

7 Peripheral Ports

USB 3.0: 2

DC in: 1

TV-OUT (for printer,monitor) 1

DICOM3.0:* (optional) reserved

*DICOM3.0 Connect by WIFI, this is optional function.

8 Storage and Data Management

- Storage*
 - SSD for patient data
 - Digital format storage of single frame
 - "Station" for patient management
 - Able to review current exam and past exam
 - Able to measure on stored images and cines
- Exam Management*
 - Able to export file as JPG/PNG/BMP
 - Able to back up data to USB device



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Multi-frequency probes

Convex probes

35C60H convex array transducer

SMALL ANIMAL Applications: Applications: Suspected Abdominal Effusion, General Abdominal Mass, Cranial Organomegaly, Caudal Mass, Pregnancy, Splenomegaly, Abnormal Kidneys, Cystocentesis
EQUINE/LARGE ANIMAL Applications: 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: 3.0/3.5/4.0/5.0MHz
 Central frequency: 3.5 MHz
 Radius: 60 mm
 View angle: 61 degrees
 Scanning Depth: 36-351 mm
 Element: 128

35RC60H rectal curve array transducer (standard configuration for BestScan® S6 Touch Curve)

SMALL ANIMAL Applications: Applications: Suspected Abdominal Effusion, General Abdominal Mass, Cranial Organomegaly, Caudal Mass, Pregnancy, Splenomegaly, Abnormal Kidneys, Cystocentesis
EQUINE/LARGE ANIMAL Applications: 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: 3.0/3.5/4.0/5.0MHz
 Central frequency: 3.5 MHz
 Radius: 60 mm
 View angle: 61 degrees
 Scanning Depth: 36-351 mm
 Element: 128

65C15S micro-convex array transducer

SMALL ANIMAL Applications: Suspected Abdominal Effusion, General Abdominal Mass, Cranial Organomegaly, Caudal Mass, Cardiac, Pregnancy, Splenomegaly, Abnormal Kidneys, Cystocentesis
EQUINE/LARGE ANIMAL Applications: DDFT insertion through Heel Bulbs, Cervical Spine

Frequency Bandwidth: 5.0/6.0/7.5/8.0MHz
 Center frequency: 6.5 MHz
 Radius: 15 mm
 View angle: 100.7 degrees
 Scanning Depth: 36~184 mm
 Element: 128

Linear probes

75L50S Linear array transducer

SMALL ANIMAL Applications : Small Animal/Feline - Suspected Abdominal Effusion, General Abdominal Mass, Cranial Organomegaly, Caudal Mass, Splenomegaly, Abnormal Kidneys, Cystocentesis, Musculoskeletal
EQUINE/LARGE ANIMAL Applications: Obstetrics, Chest/lung exam, Transrectal Examination of Sacroiliac Joints & LumboSacral nerve roots

Frequency Bandwidth: 5.5/7.5/9.0/10.0MHz
 Center frequency: 7.5MHz
 Scanning width: 40 mm
 Scanning Depth: 10~184 mm
 Element: 128

65EL70S Rectal linear array transducer (standard configuration for BestScan® S6 Touch Linear)

EQUINE/LARGE ANIMAL Applications: Large Animals Reproductive, Equine Tendon

Frequency Bandwidth: 5.0/6.5/7.5/8.5MHz
 Center frequency: 6.5 MHz
 Scanning width: 70 mm
 Scanning Depth: 18~184 mm
 Element: 96



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EQUINE/LARGE ANIMAL Applications: Large Animals Reproductive, Equine Tendon
 Frequency Bandwidth: 6.0/7.5/8.5/10.0MHz
 Center frequency: 7.5 MHz
 Scanning width: 70 mm
 Scanning Depth: 18~184 mm
 Element: 96

75E50H Rectal High
 Frequently linear array
 transducer

10 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

11 Certificate and Security

Quality Standard: ISO 9001, ISO 13485

ISO 13485:2003

EN 60601-1:2006

Design Standards:

EN 60601-1-2:2007 EN 60601-1-4:2005 EN 60601-2-37:2008 EN 61157:2007

EN ISO 10993-1:2009 EN ISO 10993-5:2009

EN ISO 10993-10:2009

12 Standard Configurations

BestScan® S6 main unit

7" TFT color LCD (touch screen)

One transducer connector

One USB port

TV-out port

AC/DC adaptor

512-frame cine loop

1000-frame image storage

Standard Configurations

Pseudo color imaging

Measurement & calculation software packages

Grid calculation function

Rechargeable lithium-ion battery 5000mAh

Stylus pen

Water proof field working bag

One rectal transducer

Plenty of veterinary measurement&calculation software packages

13 Options:

rectal linear array transducer (6.0/7.5/8.5/10.0MHz)

rectal curve array transducer (3.0/3.5/4.0/5.0MHz)

linear array transducer (6.0/7.5/8.5/10MHz)

micro-convex array transducer (5.0/6.0/7.5/8.0MHz)

convex array transducer (3.0/3.5/4.0/5.0MHz)



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- Optional
 - Extra rechargeable battery (5000mAh, up to 4.5 hours working time)
 - Hood sheath
 - Rectal linear probe introducer
 - Rectal convex probe introducer
 - I-Scan® V3 Ultrasound goggles
 - The extended warranty
 - Transport case

14 **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

15 **OEM/ODM Order**

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

Note1: 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:Different models with different configuration ,please selected the most suitable systems to your expecting needs and

Note 3: BestScan® is BMV registered brand . This is second generation since FarmScan® in BMV.



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