



BladderScan BVI 9600

BLADDER VOLUME INSTRUMENT

The BladderScan® BVI 9600, with AortaScan® mode, is a portable, 3D ultrasound instrument with dual functionality. In AortaScan mode, it quickly, accurately, and noninvasively measures the diameter of the abdominal aorta; in BladderScan mode, it measures urinary bladder volume.



AortaScan Mode

- Provides a measurement of the abdominal aortic diameter to help physicians identify the presence of abdominal aortic aneurysms (AAA)
- Designed to be a quick, easy-to-use tool for measuring the diameter of the abdominal aorta without a sonographer



BladderScan Mode

- Measures urinary bladder volume and post-void residual (PVR)
- Helps assess urinary retention and postoperative urinary retention (POUR)
- Helps evaluate many common urological conditions
- Helps prevent unnecessary catheterization, which eliminates unnecessary trauma to patients
- Helps reduce rates of catheter-associated urinary tract infection (CAUTI)
- Improves efficiency of health care professionals by reducing costs and saving staff time



BladderScan BVI 9600 Technology

The BladderScan BVI 9600 employs patented VMODE[®] technology to measure the diameter of the abdominal aorta using noninvasive ultrasound.

The BVI 9600 also utilizes NeuralHarmonics[®] technology, enabling quicker and more accurate bladder volume measurements than conventional two-dimensional ultrasound. When the user releases the scan button, within seconds, the BVI 9600 measures ultrasonic reflections on multiple planes inside the body and produces a three-dimensional image. Based on this image, the BVI 9600 calculates and displays the bladder volume. No sonographer is required.

BladderScan BVI 9600 Features

- Precision aiming ability via console or probe
- Distinct scan modes for men and women
- Voice annotation for exams to ensure valuable patient/exam data is retained
- Can upload exam data to electronic health record systems (EHRs) via ScanPoint[®] image management software
- Onboard printer for patient records or reimbursement
- Onboard video tutorial to train staff
- May be calibrated online via ScanPoint

BladderScan BVI 9600 System Includes

- Console with easy-to-read color LCD screen
- Easy-to-use, handheld probe
- Battery charger/wireless hub
- 2 Lithium-ion batteries
- Ultrasound gel
- Operations & Maintenance Manual and Quick Reference Cards
- ScanPoint Install CD and User's Manuals
- Optional medical cart with locking wheels



Specifications

BladderScan Bladder Volume Instruments are CE marked in accordance with the Medical Device Directive, and the Verathon Inc. quality system is Quality System Certified to ISO 13485:2003 standards. US 6,884,217 and other patents pending.

Bladder volume range: 0 to 999 ml

Aortic diameter range: 3 to 12.4 cm

Accuracy: The following accuracy specification assumes usage per instructions, scanning a Verathon Tissue Equivalent Phantom:

Bladder volume mode: ± 15%, ± 15 ml

AortaScan mode: ± 15%, ± 0.5 cm

Power: 11.1V Li-Ion Battery Pack (2 supplied); 3.5 hours continuous use on one charge; battery indicator

Display: Color LCD

Ultrasound Output Parameters:

Maximum ultrasound I_{spatd} during a scan: ≤ 5.0 mW/cm²

Maximum ultrasound I_{spad} during a scan: ≤ 60.0 W/cm²

Maximum MI (Mechanical Index): 0.95 max

Transducer diameter: 13 mm (0.512 inches)

Transducer resonant frequency: 3.0 MHz and 1.74 MHz

Transducer bandwidth: 75% at 10 dB

Time from 3D scan initiation to result display: < 3 seconds