

BladderScan BVI 3000

BLADDER VOLUME INSTRUMENT



The BladderScan® BVI 3000 is a portable, 3D ultrasound instrument that quickly, accurately, and noninvasively measures urinary bladder volume and post-void residual (PVR).

BladderScan BVI 3000 Benefits

- Noninvasively measures bladder volume and post-void residual (PVR)
- Helps assess urinary retention and postoperative urinary retention (POUR)
- Helps prevent unnecessary catheterization and unnecessary trauma to patients
- Helps reduce rates of catheter-associated urinary tract infection (CAUTI)
- Helps evaluate many common urological conditions:
 - Benign prostatic hyperplasia (BPH)
 - Bladder outlet obstruction (BOO)
 - Overactive bladder (OAB)
 - Lower urinary tract symptoms (LUTS)
- · Helps differentiate between types of incontinence
- Helps monitor intermittent catheterization
- Improves efficiency of health care professionals by reducing costs and saving staff time

BladderScan BVI 3000 Features

- LCD screen displays bladder position and volume; aiming icon assists in proper probe placement
- 3D display shows the bladder in 2 crosssectional images to verify an accurate scan
- Easy-to-print exam results for patient records or reimbursement procedures
- Helps document cost savings and catheterizations-prevented based on user-determined statistical input





BladderScan BVI 3000 Technology

The BladderScan BVI 3000 calculates bladder volume using patented VMODE® ultrasound technology. A BVI 3000 exam is quick, easy, and comfortable for the patient. When you press the scan button, within seconds, the instrument measures ultrasonic reflections on multiple planes inside the body producing a 3D image. Bladder volume measurements made with VMODE ultrasound are more accurate than those from conventional 2-dimensional ultrasound, as they are based on this more complex, 3D image.



Diagnose

BladderScan BVI 3000 Helps

- Measure post-void residual (PVR) and verify an empty bladder
- Differentiate urological problems more efficiently
- Assess postoperative urinary retention (POUR)
- Identify blocked Foley catheters

Manage and Treat

- Evaluate need to catheterize
- Discontinue Foley catheter use
- Establish voiding schedules and assist in bladder retraining

Prevent

- Avoid unnecessary catheterization and reduce rates of CAUTI
- Reduce incontinent episodes

BladderScan BVI 3000 System Includes

- Compact console with easy-to-read LCD screen
- Two NiMH rechargeable batteries
- Battery charger
- Onboard printer for patient records or reimbursement
- Ultrasound gel
- · User's Manual, Quick Reference Guide and Quick Reference Cards
- Optional medical cart with locking wheel

The CPT/HCPCS Code for post-void residual (51798) is approved for reimbursement by Medicare.



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 0 to 999 ml

Range:

Accuracy: The following accuracy specification assumes usage per

instructions, scanning a Verathon Inc. Tissue Equivalent Phantom: 0 to 699 ml \pm 20%, \pm 20 ml; 700 to 999 ml \pm 25%, \pm 25 ml

Scan Time: Less than 5 seconds Weight: Less than 5 lb

Power: 7.2v NiMH battery pack (2 supplied); six hours continuous use on

one charge; battery low message

Display: Liquid Crystal

Dimensions: Width: 9.0" (23 cm), Length: 11.25" (32 cm), Height: 2.75" (7 cm)

Ultrasound Temporal Average Power: 1 mW maximum Focal 20 dB Beam-Area: 1.4 cm² Parameters:

Transducer Dimension: 3 mm diameter Working Frequency: 2 MHz

Peak Instantaneous Intensity: 14 W/cm² maximum Pulse Repetition Frequency: 180 pulses/second

Scan angle: 120 degrees

Mode: VMODE (multiple, aligned B-mode images)

Operating Temperature: +10° C to +40° C

Conditions: Humidity: 30% to 75%, non-condensing *SPTA = Spatial temporal average

SPPA = Spatial peak pulse average





