BladderScan®
The Standard of Care for Bladder Volume Measurement

The BladderScan family of products consists of portable ultrasound instruments that measure bladder volume. They provide quick, accurate and reliable results. Because they are noninvasive and easy to use, BladderScan instruments are an excellent alternative to diagnostic urinary catheterisation and a perfect tool to help healthcare providers noninvasively diagnose, manage and treat urinary outflow dysfunction.

BladderScan Benefits
- Prevents unnecessary catheterisation
- Helps prevent undiagnosed urinary retention
- Reduces rates of urinary tract infection
- Helps caregivers manage and treat incontinence
- Eliminates unnecessary trauma to patients, preserves their dignity and helps improve patient care
- Cost effective - saves staff time and improves job satisfaction

BladderScan BVI 3000
- The LCD screen displays bladder position and volume. A unique aiming icon guides the operator to optimal probe placement.
- Comprehensive 3-dimensional display shows the bladder in two cross-sectional images to verify that a complete scan has been achieved.
- It’s easy to print the results of any scan for patient records or reimbursement procedures.
- The BladderScan documents cost savings and number of catheterisations prevented based on your institution’s statistical input.

UROLOGY
For the urologist, BladderScan applications assist in:
- Diagnosis of severe bladder outlet obstruction (BOO), lower urinary tract symptoms (LUTS), overactive bladder (OAB), and prostatitis
- Measurement of post-void residual bladder volume (PVR)
- Evaluation of urinary retention
- Monitoring post-operative recovery

ACUTE CARE
BladderScan minimises catheterisation and dramatically lowers the incidence of Catheter Associated Urinary Tract Infection (CAUTI).
UK DoH stats show that UTI:
- Is the single largest cause of HAIs
- Is associated with catheter use in 80% of cases
- Lengthens Hospital stay by 6 days

PRIMARY CARE
BladderScan aids in the diagnosis and treatment of:
- Benign prostatic hyperplasia (BPH)
- Bladder outlet obstruction (BOO)
- Prostatitis
- Overactive bladder (OAB) & incontinence

As a Primary Care practitioner, the BladderScan will provide you with the information you need to more easily evaluate urological conditions, so you can prescribe appropriate treatment sooner.

EXTENDED CARE
When utilized as part of a comprehensive incontinence management program, the BladderScan:
- Minimizes incontinent episodes
- Reduces infection rates (UTI)
- Improves residents' quality of life
- Saves staff time and increases job satisfaction
- Reduces the cost of care

Noninvasive, Accurate, Reliable, & Easy to Use
How BladderScan Works

The BladderScan® calculates bladder volume using patented VMode® technology. VMode® ultrasound is easy to use and comfortable for the patient. When you press the scan button, within seconds, the VMode® technology measures ultrasonic reflections on multiple planes inside the body and produces a 3-dimensional image. Based on this image, the BladderScan® calculates and displays the bladder volume.

Volume measurements made with VMode® ultrasound are more accurate than those from conventional 2-dimensional ultrasound, as they are based on a more complex, 3-D image of the bladder.

By implementing the BladderScan® BVI 3000, you can improve the quality of care for patients with urinary problems.

**Specifications - BVI 3000**

- **Range:** Bladder volume range 0 to 999 ml
- **Accuracy:** The following accuracy specification assumes usage per instructions, scanning a Verathon™ Inc. Tissue Equivalent Phantom: 0 to 699 ml ± 20%, ± 20 ml, 700 to 999 ml ± 25%, ± 25 ml
- **Scan Time:** Less than 5 seconds
- **Weight:** Less than 5 lbs.
- **Power:** 7.2v NiMH battery pack (2 supplied). Six hours continuous use on one charge. Battery low message
- **Dimensions:** Width: 9.0”(23cm), Length: 11.25”(32cm), Height: 2.75”(7cm)
- **Display:** Liquid crystal

- **Resolution:** Axial Resolution: 1.55mm, Radial Resolution: 2 degrees
- **Ultrasound Output Parameters:** Temporal Average Power: 1 mW maximum
  - Focal 20 dB Beam-Area: 1.4 cm²
  - 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 Conditions:** Temperature: +10°C to +40°C
  - Humidity: 30% to 75%, non-condensing

The BladderScan® BVI 3000 is CE Marked in accordance with the Medical Device Directive and the Verathon™ quality system is Quality System Certified to ISO 13485:2003 standards. US Patent No. 4926871, 5235985. INTL Patents Pending. BladderScan®, VMode®, Verathon™ and Verathon Medical™ are either registered trademarks or trademarks of Verathon Inc. in the USA and/or other countries. Copyright ©2006. All rights reserved.