

BladderScan® BVI 3000

Bladder Volume Instrument



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	ACUTE CARE
<p>For the urologist, BladderScan applications assist in:</p> <ul style="list-style-type: none"> • 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 	<p>BladderScan minimises catheterisation and dramatically lowers the incidence of Catheter Associated Urinary Tract Infection (CAUTI).</p> <p>UK DoH stats show that UTI:</p> <ul style="list-style-type: none"> • Is the largest single cause of HAI • Is associated with catheter use in 80% of cases • Lengthens Hospital stay by 6 days
PRIMARY CARE	EXTENDED CARE
<p>BladderScan aids in the diagnosis and treatment of:</p> <ul style="list-style-type: none"> • Benign prostatic hyperplasia (BPH) • Bladder outlet obstruction (BOO) • Prostatitis • Overactive bladder (OAB) & incontinence <p>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.</p>	<p>When utilized as part of a comprehensive incontinence management program, the BladderScan :</p> <ul style="list-style-type: none"> • Minimizes incontinent episodes • Reduces infection rates (UTI) • Improves residents' quality of life • Saves staff time and increases job satisfaction • Reduces the cost of care

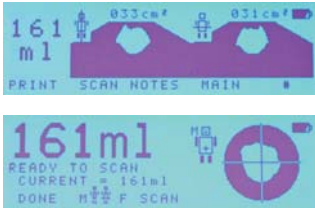
Noninvasive, Accurate, Reliable, & Easy to Use



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How BladderScan Works



The BladderScan® calculates bladder volume using patented V_{MODE}® technology. V_{MODE}® ultrasound is easy to use and comfortable for the patient. When you press the scan button, within seconds, the V_{MODE}® 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 V_{MODE}® 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.

DIAGNOSE

- Measure post-void residual (PVR)
- Differentiate urological problems more efficiently
- Diagnose urinary retention
- Identify blocked Foley catheter
- Verify empty bladder
- Determine hydration status
- Differentiate between types of incontinence to determine appropriate care

MANAGE AND TREAT

- Establish volume (vs. time) based intermittent catheterisation protocols
- Discontinue Foley catheter use
- Evaluate need to catheterise after Foley catheter removal
- Establish voiding trials
- Evaluate need to catheterise during intermittent catheterisation
- Establish voiding schedules
- Assist in bladder retraining (biofeedback)

PREVENT

- Eliminate unnecessary catheterisation
- Reduce rates of nosocomial UTI
- Minimise antibiotic use associated with UTI
- Minimise catheter-related damage to upper urinary tract
- Prevent undiagnosed (chronic) urinary retention
- Prevent post-operative (acute) urinary retention
- Prevent bladder overdistension
- Reduce incontinent episodes

Specifications - BVI 3000

Range:	Bladder volume range 0 to 999 ml	Resolution:	Axial Resolution: 1.55mm, Radial Resolution: 2 degrees
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	Ultrasound Output Parameters:	Temporal Average Power: 1 mW maximum Focal 20 dB Beam-Area: 1.4 cm ² Transducer Dimension: 3 mm diameter Working Frequency: 2 MHz Peak Instantaneous Intensity: 14 W/cm ² maximum Pulse Repetition Frequency: 180 pulses/second Scan angle: 120 degrees Mode: V _{MODE} ® (multiple, aligned B-mode images)
Scan Time:	Less than 5 seconds	Operating Conditions:	Temperature: +10° C to +40° C Humidity: 30% to 75%, non-condensing
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		

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®, V_{MODE}®, 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.



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