

BVI 6400



The Standard of Care for Portable Ultrasound 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 catheterization and a perfect tool to help healthcare providers noninvasively diagnose, manage, and treat urinary outflow dysfunction.

Benefits

BladderScan instruments help:

- Prevent unnecessary catheterization
- Prevent undiagnosed urinary retention
- Reduce rates of catheter-associated urinary tract infection (CAUTI)
- Caregivers manage and treat incontinence
- Eliminate unnecessary trauma to patients and improve patient care
- Save staff time and reduce costs

Mobile BladderScan BVI 6400

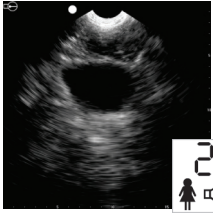
The handheld, portable BladderScan BVI 6400:

- Measures bladder volume noninvasively
- Provides fast, accurate, and reliable results
- Improves efficiency of healthcare professionals who examine multiple patients on their rounds
- Performs and stores up to 10 exams
- Provides for voice annotation on each exam, ensuring that valuable patient and exam data is retained
- Allows for exam results and images to be downloaded, viewed, and printed using ScanPoint® imaging technology
- Is easy to use
- Is battery-operated and can be calibrated online



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 • Monitoring postoperative recovery • Measurement of post-void residual bladder volume (PVR) • Evaluation of urinary retention 	<p>BladderScan minimizes catheterization and dramatically lowers the incidence of catheter-associated urinary tract infection (CAUTI) at your facility.</p> <p>National statistics (U.S.) show that CAUTI:</p> <ul style="list-style-type: none"> • Increases the cost of care for hospitals and rehabilitation centers • Lengthens hospital stays by 1- 3 days • Can be life-threatening for patients <p><small>* Data on file</small></p>
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) <p>As a Primary Care physician, the BladderScan provides 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 helps:</p> <ul style="list-style-type: none"> • Minimize incontinent episodes • Reduce catheter-associated urinary tract infection rates (CAUTI) • Improve residents' quality of life • Save staff time and reduce the cost of care

How BladderScan Instruments Work



Sample Display - BVI 6400

The BladderScan BVI 6400 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 BVI 6400 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, 3D image of the bladder.



By implementing the BladderScan BVI 6400, you can improve the quality of care for patients with urinary problems. BladderScan instruments help:



DIAGNOSE

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

MANAGE AND TREAT

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

PREVENT

- Eliminate unnecessary catheterization
- Reduce rates of catheter-associated UTI (CAUTI)
- Minimize antibiotic use associated with UTI
- Minimize catheter-related damage to upper urinary tract
- Prevent undiagnosed (chronic) urinary retention
- Prevent postoperative (acute) urinary retention
- Prevent bladder overdistension
- Reduce incontinent episodes

Specifications - BVI 6400

The BladderScan BVI 6400 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. 5235985, 6569097, 6884217. INTL Patents Pending.

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 999 ml ± 15%, ± 15 ml
Scan Time: Less than 5 seconds
Weight: Less than 11 oz. (309 grams)
Power: 3.8v Li-Ion rechargeable battery
Display: Liquid crystal

Ultrasound Parameters: Maximum SPTA* Intensity: 1.04 mW/cm²
 Maximum SPPA* Intensity: 65.0 mW/cm²
 Mechanical Index (MI): 0.925 maximum
 Ultrasound Frequency: 3.7 MHz
 Scan angle: 120 degrees
 Mode: V_{MODE} (multiple, aligned B-mode images)

Operating Conditions: Temperature: +10° C to +40° C
 Humidity: 30% to 75%, non-condensing

* SPTA = Spatial temporal average
 SPPA = Spatial peak pulse average