

# BladderScan® BVI 6200

## Pediatric 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 catheterization and a perfect tool to help healthcare providers noninvasively diagnose, manage and treat urinary outflow dysfunction.

#### BladderScan® Benefits

- Prevents unnecessary catheterization
- 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

#### Pediatric BladderScan® BVI 6200

The handheld, portable BladderScan® BVI 6200:

- Measures a child's bladder volume noninvasively
- Is optimized for children up to 48" (122 cm) tall and weighing 60 lbs (27 kg) or less
- Minimizes risk of prolonged or undiagnosed urinary retention
- Reduces incidence of urinary tract infection and thus, antibiotic use
- Decreases the chance of upper urinary tract damage
- Is gentle and less upsetting than catheterization, so children are happier and easier to care for
- Lowers costs by reducing infection and complications resulting from catheterization
- Allows for exam results and images to be downloaded, viewed and printed using the Verathon™ ScanPoint® imaging service
- Provides fast, accurate and reliable results
- Is easy to use and easy for staff to learn how to use
- Is battery operated and can be calibrated online

#### UROLOGY

For the urologist, BladderScan® applications assist in:

- Diagnosis of lower urinary tract symptoms
- Monitoring post-operative recovery
- Measurement of post-void residual bladder volume (PVR)
- Evaluation of urinary retention

#### ACUTE CARE

BladderScan® minimizes catheterization and dramatically lowers the incidence of nosocomial urinary tract infection (NUTI) at your facility.

National statistics (U.S.A.) show that NUTI:

- Increases the cost of care for hospitals and rehabilitation centers
- Lengthens hospital stays by 1- 3 days
- Can be life-threatening for patients

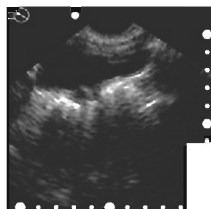
Noninvasive, Accurate, Reliable, & Easy to Use



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### How BladderScan® Works



Sample Display - BVI 6200

The BladderScan® calculates bladder volume using patented V<sub>MODE</sub>® technology. V<sub>MODE</sub>® ultrasound is easy to use and comfortable for the patient. When you press the scan button, within seconds, the V<sub>MODE</sub>® 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, and displays multiple B-mode images.

Volume measurements made with V<sub>MODE</sub>® 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 6200, you can improve the quality of care for pediatric patients with urinary problems.



### DIAGNOSE

- Measure post-void residual (PVR) noninvasively
- Differentiate between urinary conditions more efficiently
- Diagnose urinary retention
- Identify blocked Foley catheter
- Verify empty bladder
- Determine hydration status
- Evaluate need to catheterize

### PREVENT

- Eliminate unnecessary catheterization
- Reduce risk of nosocomial UTI
- Minimize antibiotic use associated with UTI
- Minimize catheter-related damage to upper urinary tract
- Prevent undiagnosed (chronic) urinary retention
- Prevent post-operative (acute) urinary retention
- Prevent bladder overdistension

### Specifications - BVI 6200

|            |  |  |   |
|------------|--|--|---|
| Range:     | Bladder volume range 0 to 200 ml   | Ultrasound Output Parameters:  | Maximum SPTA* Intensity: 1.04mW/cm <sup>2</sup><br>Maximum SPPA* Intensity: 65.0mW/cm <sup>2</sup><br>Mechanical Index (MI): 0.925 maximum<br>Ultrasound Frequency: 3.7 MHz<br>Scan angle: 120 degrees<br>Mode: V <sub>MODE</sub> ® (multiple, aligned B-mode images) |
| Accuracy:  | The following accuracy specification assumes usage per instructions, scanning a Verathon™ Inc. Tissue Equivalent Phantom: 0 to 200 ml ± 15%, ± 15 ml | Operating Conditions:  | Temperature: +10° C to +40° C<br>Humidity: 30% to 75%, non-condensing   |
| Scan Time: | Less than 5 seconds  | * SPTA = Spatial temporal average; SPPA = Spatial peak pulse average |   |
| Weight:    | Less than 11 oz. (309 grams)   |  |   |
| Power:     | 3.8v Li Ion rechargeable battery   |  |   |
| Display:   | Liquid crystal   |  |   |

The BladderScan® BVI 6200 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, 6569097, 6884217. INTL Patents Pending. BladderScan®, ScanPoint®, V<sub>MODE</sub>®, 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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