

# BladderScan®

Bladder Volume Instruments

Noninvasive, Accurate, Reliable & Easy to Use

## BVI 9400

BladderScan® is the gold standard in bladder volume measurement. The BladderScan® BVI 9400, with patent-pending NeuralHarmonics™ technology, is a portable, noninvasive instrument that quickly and accurately measures urinary bladder volume and post-void residual (PVR) with 3D ultrasound.

### NeuralHarmonics™ technology

NeuralHarmonics™ (from “neural network harmonics”), found exclusively in the BVI 9400, accelerates speed and sharpens accuracy in important measures of bladder function.



NeuralHarmonics™



### BladderScan® BVI 9400 Benefits:

- Helps diagnose urinary retention and evaluate many common urological conditions
- Prevents unnecessary catheterization
- Eliminates unnecessary trauma to patients
- Helps reduce rates of nosocomial urinary tract infection
- Helps monitor post-operative recovery
- Helps differentiate between types of incontinence to determine appropriate care
- Helps caregivers manage and treat incontinence
- Assists in discontinuing Foley catheter use
- Helps evaluate need to catheterize during intermittent catheterization
- Improves efficiency of health care professionals who examine multiple patients on their rounds
- Reduces costs and saves staff time

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Console

Probe



Battery Charger & Wireless Hub

The BVI 9400 is quick and easy to use. When the user releases the scan button, within seconds, BladderScan® measures ultrasonic reflections on multiple planes inside the body and produces a three-dimensional image. Based on this image, the BVI 9400 calculates and displays the bladder volume. No sonographer is required.

BladderScan® BVI 9400 measurement information can be printed via an onboard printer or transmitted to your office or facility computer for viewing, printing or archiving using HIPAA-compliant ScanPoint® technology.

### BladderScan® BVI 9400 system includes:

- Easy-to-read Color Display Console with brightness control
- Easy-to-use, hand-held Probe
- Battery charger/wireless hub
- 2 Lithium ion batteries
- On-board video tutorial
- User's Manual, Quick Reference Cards and Clinical Manual
- "ScanPoint® with QuickPrint" software
- Optional mobile cart with locking wheel

### BladderScan® BVI 9400 Features:

- Precision aiming ability via console or probe
- Voice-annotate exams to ensure valuable patient/exam data is retained
- On-board printer for patient records or reimbursement procedures
- View and save exams easily, creating EMRs for your patients
- May be calibrated online



### Specifications - BVI 9400

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 US and International 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  $\pm$  15%,  $\pm$  15 ml

**Power:** 11.1v Li Battery Pack (2 supplied). 3.5 hours continuous use on one charge; Battery indicator

**Display:** Color LCD

### Ultrasound Output Parameters:

Maximum ultrasound  $I_{spta}$  during a scan:  $\leq$  5.0 mW/cm<sup>2</sup>

Maximum ultrasound  $I_{sppa}$  during a scan:  $\leq$  60.0 W/cm<sup>2</sup>

Maximum MI (Mechanical Index): .95 max

Transducer diameter: 13 mm (0.512 inches)

Transducer resonant frequency: 3.0 MHz and 1.74 MHz

Transducer bandwidth: 75% at 10 dB

Time from 3D scan initiation to result display: < 3 seconds