

BVI 9400

IMG-17 Bladder
Scanner

The BladderScan BVI 9400, with NeuralHarmonics[®] technology, is a portable, 3D ultrasound instrument that quickly, accurately and noninvasively measures urinary bladder volume and post-void residual (PVR).

NeuralHarmonics technology

NeuralHarmonics technology, found exclusively in BladderScan BVI 9000 series instruments, enables quicker and more accurate bladder volume measurements than conventional two-dimensional ultrasound.



BVI 9400 Benefits:

- Measures bladder volume noninvasively on a wide range of patients
- Helps diagnose urinary retention and post-operative urinary retention (POUR)
- Helps evaluate many common urological concerns
- Helps prevent unnecessary catheterization, which eliminates unnecessary trauma to patients
- Helps reduce rates of catheter-associated urinary tract infection (CAUTI)
- Helps differentiate between types of incontinence to determine appropriate care
- Helps evaluate need to catheterize during intermittent catheterization
- Improves efficiency of health care professionals by reducing costs and saving staff time

BVI 9400



Console



Battery Charger & Wireless Hub

The BladderScan BVI 9400 is quick and easy to use. When the user releases the scan button, within seconds, the BVI 9400 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 exam data can be printed via the onboard printer or transmitted to your office computer or Electronic Health Record (EHR) system using ScanPoint® image management technology.

BladderScan BVI 9400 system includes:

- Console with easy to read color LCD screen with brightness control
- Easy-to-use, handheld Probe
- Battery charger/Wireless hub
- 2 Lithium-ion batteries
- User's Manual, Quick Reference Guide and Quick Reference Cards
- ScanPoint Install CD and User's Manuals
- Optional medical cart with locking wheel

BladderScan BVI 9400 Features:

- Precision aiming ability via Console or Probe
- Distinct scan modes provided for men, women and small children
- Voice annotation for exams to ensure valuable patient/exam data is retained
- Onboard printer for patient records or reimbursement
- Onboard video tutorial to train staff
- 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 $\pm 15\%$, ± 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: $\leq 5.0 \text{ mW/cm}^2$

Maximum ultrasound I_{spga} during a scan: $\leq 60.0 \text{ W/cm}^2$

Maximum MI (Mechanical Index): 0.95 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

The CPT/HCPCS Code for post-void residual (51798) is approved for reimbursement by Medicare.