

Bladder Volume Measurement System  
**CUBESCAN™**



**BioCon-700**

***Simple in-house Calibration***

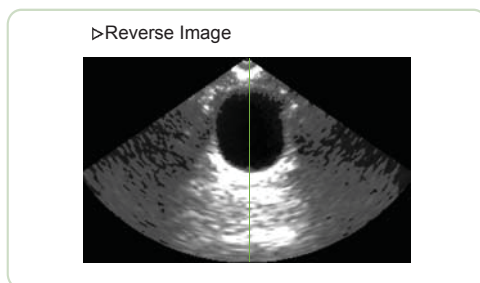
# Choice for Bladder Scanner

## What is CUBEScan

The CUBEScan Bladder Scanner is a portable 3D ultrasound medical device developed to quickly and accurately measure the bladder volume and PVR (Post-Void Residual volume) using Real-Time Pre-Scan.

## Real-Time Pre-Scan

Shows the real time ultrasound image prior to scanning. This enables the user to easily locate the bladder ensuring an accurate scan.



## Features

- Voice Recording and Playback
- Patient Selection: Male, Female, or Child
- Increased Mobility with smaller hand-held device
- Fast Patient ID input & Editing using Touch Screen
- Rechargeable Battery and/or Mains Adapter Operation
- Easy PC Transfer using the SD card, making it possible to save large amounts of patient scan data, as well as offering simple data transfer to PC for review (software included).

## Easily Locate Bladder Position for a More Precise Volume Measurement

## Clinical Applications

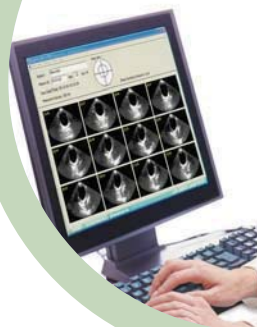
### Medical Service

- Urology
- Obstetrics-Gynecology
- Geriatrics
- Pediatrics
- Rehabilitation
- Surgical
- Operation Room
- Recovery Room
- Emergency
- Intensive Care
- Extended Care
- Home Health



### Benefits

- Diagnose urinary retention and evaluate many common urological conditions
- Prevent unnecessary catheterization
- Reduce rates of urinary tract infection
- Monitor post-operative recovery
- Screen different types of incontinence to determine appropriate care
- Reduce costs and save staff time with three quick and easy steps.



## Calibration

The BioCon Bladder Scanner can be calibrated in-house by the biomedical team with the use of a Mcube purpose-built calibration kit.

Easy-to-follow calibration instructions are provided in service manuals included with each unit.

## Characteristics

- Non-Invasive Measurement
- Real-Time Pre-Scan
- Review of scanned bladder images
- Save and Retrieve scanned information
- PC-transfer for scanned information
- Built-in Printer

## Benefits - for hospitals

- Screens urological problems
- Evaluates urinary retention
- Indicates bladder over-distension
- Measures PVR (post-void residual)
- Minimizes unnecessary catheter usage, thereby reducing incidence of urinary tract infection
- Manage post-operative urinary retention
- Improves quality of patient care
- Saves time (5 second scan)
- Saves total expenses (cost of care) through increased efficiencies

## Benefits - for patients

- Preserves patient dignity
- Reduces patients pain and discomfort
- Improves quality of life
- Reduces overall cost of care
- Minimises Incontinence episodes

## Technical Specifications

<b>Display</b>	7" TFT-LCD (WVGA) 16.7M colors (Color Touch Screen)
<b>Volume Range</b>	0-999ml Accuracy: $\pm 15\%$ , 15ml(0-999ml) <sup>*)</sup>
<b>Printer</b>	Built-in (50mm width) thermal printer
<b>Ultrasound Probe</b>	3D Sector Scan, 2.6MHz ultrasound frequency, B-Mode Scan, Scan Angle: 120°
<b>Power</b>	3A, 9V DC Adapter (Adapter Input: AC 100 ~ 240V 50/60Hz) 7.4V battery pack (Li-ion)
<b>Dimension</b>	66mm(L) x 202mm(W) x 130mm(H) (0.92Kg)
<b>Ultrasound Output Parameter</b>	Maximum (ISPTA): $\leq 1\text{mW/cm}^2$ Maximum (ISPPA): $\leq 10\text{W/cm}^2$ Maximum MI(Mechanical Index): $\leq 0.9\text{max}$ Transducer diameter: 10mm Transducer Resonant Frequency: 2.6MHz

\* Consumables: Battery Pack, Thermal Paper, Ultrasound Gel

\* Rolling Cart (Optional): The spec. of Rolling Cart may differ according to local supplier

\* 1) According to the scanning instruction and scanning on a Mcube Technology Tissue-Equivalent Bladder Phantom



## Grip and Scan



## Choice for Bladder Scanner

# ***CUBEscan***<sup>TM</sup>

Model: BioCon-700

### Mcube Statement

All executive and staff at Mcube Technology are committed to the development and manufacture of high quality medical devices, for the enhancement of quality-of-life, and the welfare of all human beings.



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