

Santron PC-Based Urodynamics

Experience **precise diagnostic insights** with our trusted Urodynamics System, delivering accuracy and reliability worldwide.



WHY CHOOSE SANTRON URODYNAMIC SYSTEM?



Economical and
Low Maintenance



User-Friendly and
Compact Design



Digital
Calibration



Unique Rugged
Pressure Transducers



Indigenous
Development



Online
Remote Support



Accuracy and
Reliability



Timely Software
updates

HARDWARE FEATURES

Pressure Transducers

1. Reusable, robust, and eliminate the need for costly pressure domes.
2. Ensure precise, highly sensitive measurements with minimal accessory costs.
3. Isolated design prevents wear and damage for long-term use.
4. Compatible with various accessories for seamless integration.

Uroflow Sensor

1. Highly sensitive and precise sensor ensures accurate urinary flow measurements.
2. Offers exceptional accuracy, reliability, and water resistance for optimal performance.

Height Adjustable Sensor Stand

1. Patient can stand and void, without spillage of Urine outside the collection Jar.

Infusion Sensor

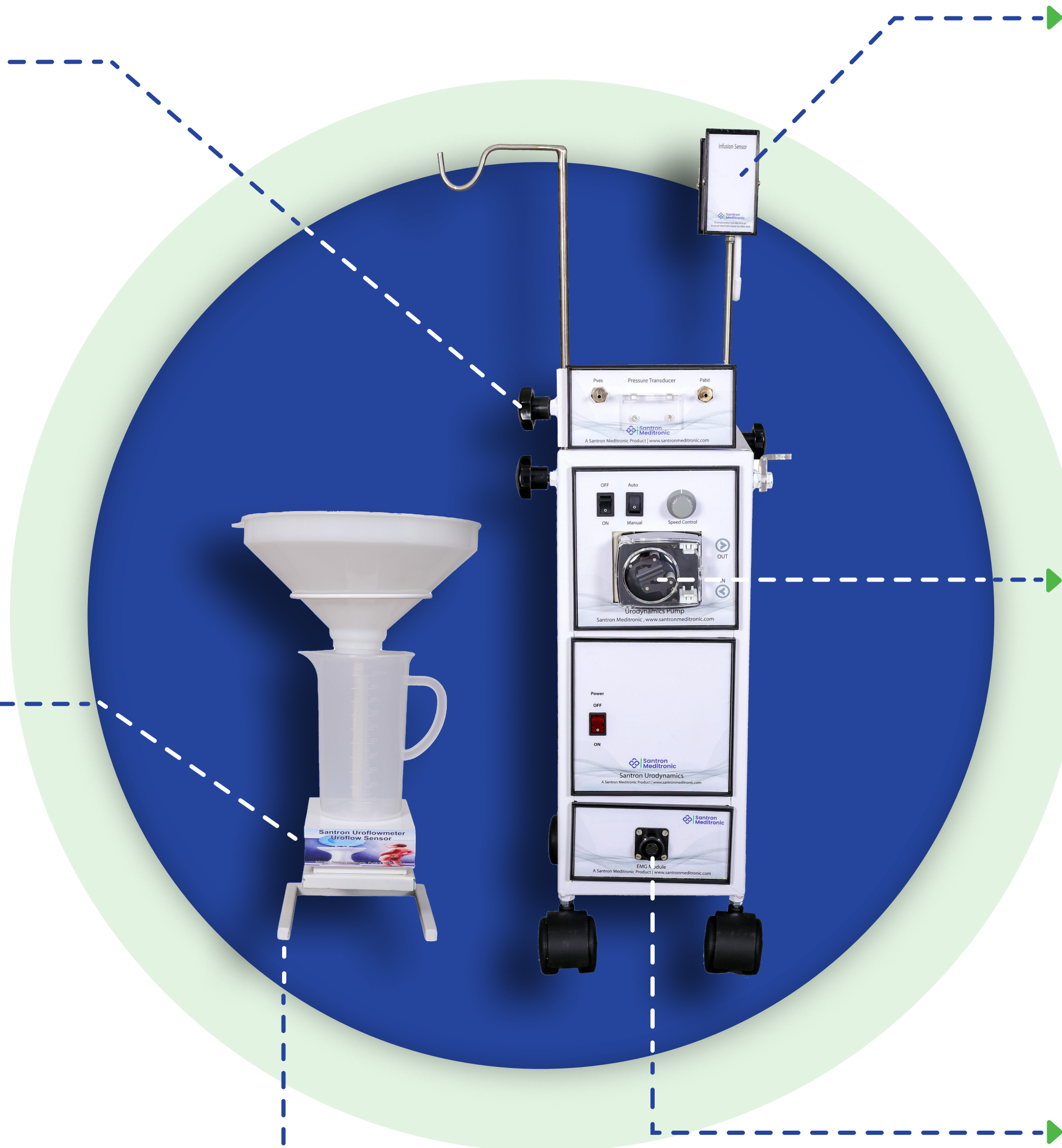
1. Provides precise fluid delivery with automatic zero volume adjustment.
2. Alerts for empty bottles to prevent interruptions and errors.
3. Supports versatile infusion rates for pediatric safety.
4. Ensures safe, real-time adjustments and alerts during infusion.

Infusion Pump

1. Automatically starts and stops fluid delivery for efficient testing.
2. Adjustable infusion rates from 0 to 100 ml/min for precise control.
3. Can be controlled via PC software or manual knob for flexibility.
4. Streamlines the infusion process, enhancing focus on patient care.

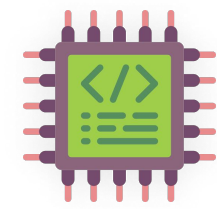
EMG

1. Single-Channel EMG setup using PAD electrodes.
2. Rectified EMG Signal: Captures & processes muscle activity for real-time analysis.



[WATCH VIDEO](#)

SOFTWARE FEATURES



Digital Calibration

Ensure stability and reliability with digital sensor calibration, eliminating analog adjustments.



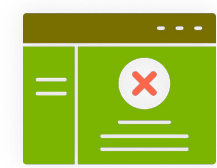
Intuitive Color Graphical Interface

Navigate bladder events, pump controls, and test functions with a user-friendly button menu, enhancing procedural ease and efficiency.



Auto & Manual Pressure Channels

Zero pressure channels simultaneously or individually through software.



Artifact Removal & Report Generation

Easily mark and remove artifacts from graphs, enhancing data accuracy for calculations and reports.



Patient Management & Clinical Documentation

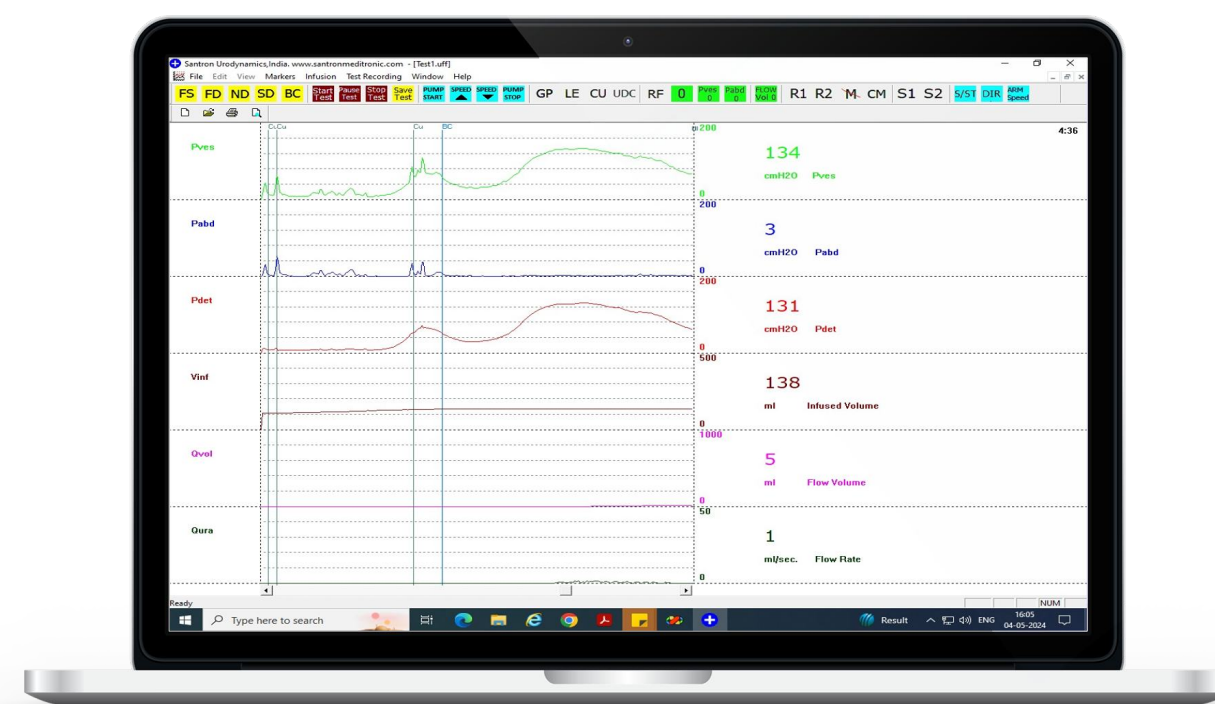
Store and recall patient studies seamlessly, with easy entry of patient history, test conclusions, and reports to support informed decision-making.



Real-Time Scrolling & Event Markers

Monitor data continuously with uninterrupted scrolling, allowing flexible management of event markers during procedures or reviews.

ENHANCED SOFTWARE APPLICATION

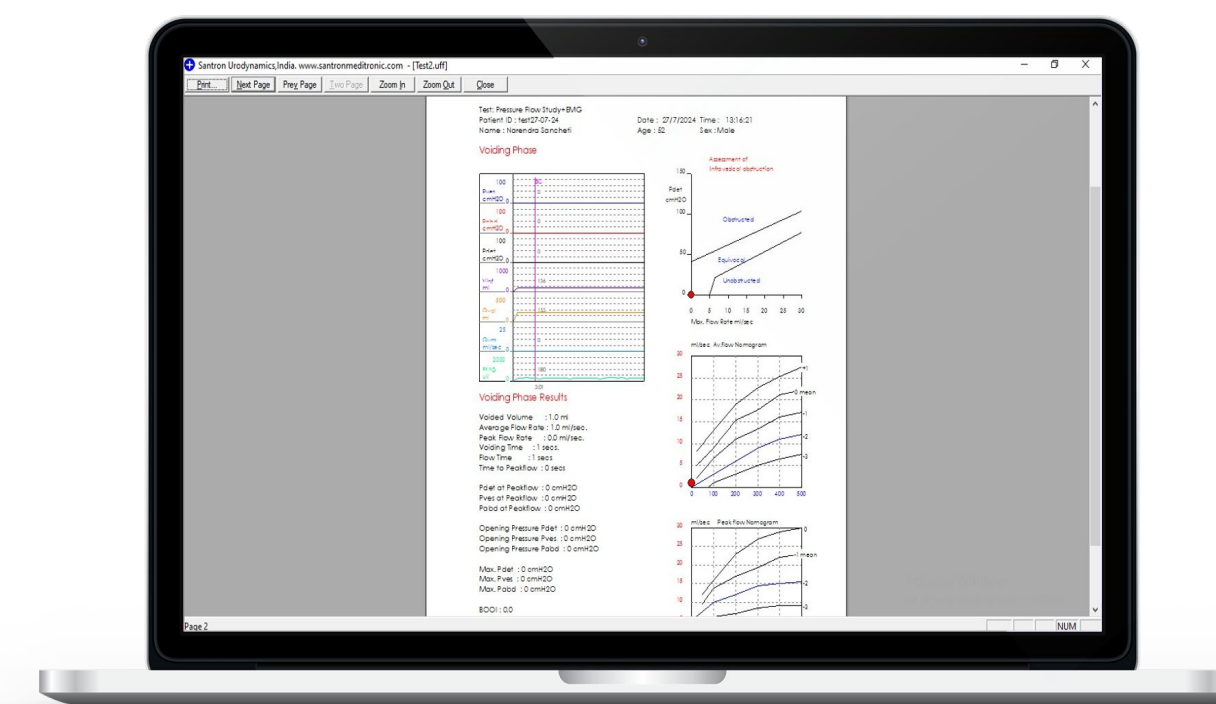


1. Optimized User Experience :

Santron Urodynamics features an intuitive design, guided workflow, and a seamless interface, positioning it at the forefront of modern urodynamic technology.

2. Smart Alert System :

Built in alerts for quick issue identification ensuring hassle free testing experience.



3. Customizable Reports with Nomograms :

Generate standardized reports with nomograms for precise diagnosis and treatment planning.

4. Customizable Reports :

Facility to enter patient history, test conclusions, and standard reporting details.

SPECIFICATIONS

➤ MEASUREMENTS

1. **Pressure:** Vesical Pressure (Pves), Pressure Abdominal (Pabd), Pressure Detrusor Pdet Pressure Sensors: 2 Nos. | Range: -40 to 300 cm | H2O Scale: 0-50, 0-100, 0-200 cm H2O **Re-usable Highly reliable, rugged and High Sensitive Pressure Transducers.**
2. **Infused Volume: Volume (Vinf)** NS (plastic or Glass Bottle) infusion by Infusion Pump | Infusion Sensor: Weight based: 1 No. | Range: 0-1000 ml | Scale: 0-500, 0-1000 ml Infusion Pump: Infusion rate Variable from 0 to 75 ml/ min., through PC software and manual control
3. **Uroflow: Flow (Qura) and Voided Volume (Qvol)** Uroflow sensor: Weight based: 1 No. Flow Range: 0-100ml/sec | Scale: 0-25, 0-50 ml/sec. | Sensitivity: 0.5ml/second | Voided Volume Range: 0-1000 ml | Scale: 0-500, 0-1000 ml | Sensitivity: 0.5ml. **Auto zero of leftover Volume in Jar.**
4. **EMG:** 1 channel (optional) using Pad electrodes, Rectified EMG signal.
5. **UPP (Profilometry):** Pulling length 27 cms and speed 1 mm/sec.

➤ **COMPUTER SOFTWARE:** User Friendly Windows 7/10/11 based Software with MS Office and Patient database.

➤ **COMPUTER HARDWARE REQUIRED:** Min. i3 Processor Computer, 8 GB RAM 256 GB SSD & WIN 7\10\11 OS with + UPS. Colour Inkjet Printer A4 size.

➤ **OUTPUT REPORTS:** On colour inkjet Printer Paper size: A4 Paper Type: Plain Paper - **A]** Uroflow Results: 1 page with graph and nomograms. **B]** Pressure- Flow Study: 4 Pages 1] Filling Phase 2] Voiding Phase 3] Conclusions, Reporting and event details.

➤ **PRODUCT DIMENSIONS:** Width 25 cm x Depth 35 cm x Height 75 cm

➤ **INTERFACE TO PC:** Through USB port Ver 2.0 and above.

➤ **OPERATING TEMPERATURE RANGE:** 0 to 35 deg. Centigrade.

STANDARD EQUIPMENT

- PC interface **1 No.** + PC Windows based software + Control Box **1 No.** + Infusion Pump **1 No.**+ Pressure Sensors: **2 Nos**, Infusion Sensor **1 No.** Uroflowmeter Sensor **1 No.**
- **Accessories:** Powder coated stainless steel trolley, Connecting Cables, Commode Seat, Funnel, Jar, SS Height Adjustable Sensor Stand.
- **Optional Extra :** 1] EMG module 1 channel using pad Electrodes. 2] UPP puller arm. User has to Arrange for Suitable Computer and Printer Product Specifications and design is subject to change without prior notice.



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