

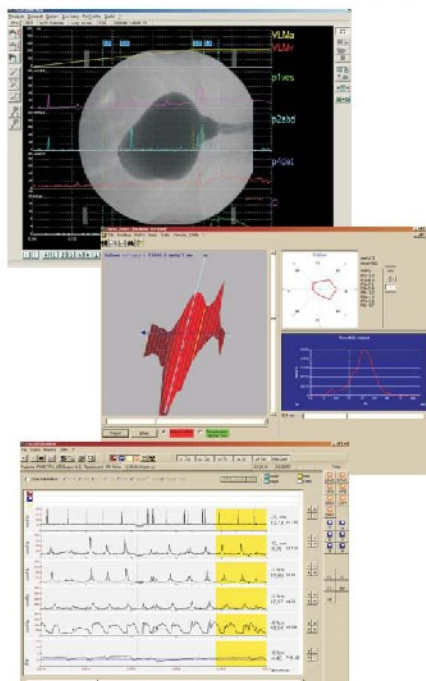
Advanced Urodynamic System

PICO® SMART is based on an advanced acquisition board called ACQ3000 that offers new advanced capabilities.



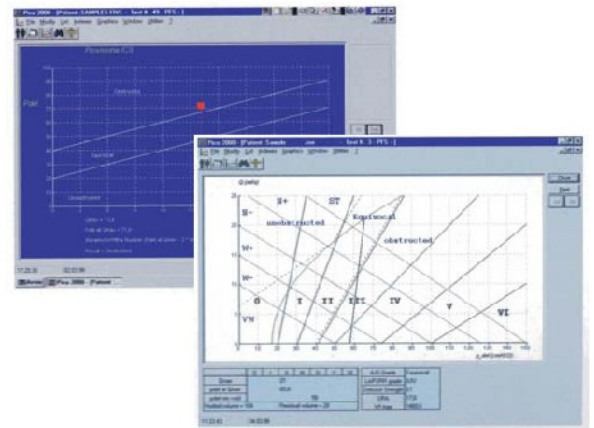
This powerful tool carries out advanced processing including (among others): Provisional ICS, Schäfer's nomograms, Abrams and Griffith's plot, the grading of the Urethral obstructions according to Prof. Höfner (Chess plot), the curves of the parameters PURR, DURR and LinPURR developed by Dr. Schäfer, the plots of Detrusor Contraction Speed and Detrusor Power Contraction.

Advanced Analysis of Pressure Flow Studies Automatic artefact



PICO® SMART performs the following urodynamic studies:

- Flowmetry
- Cystometry
- Urethral-Cystometry,
- Pressure- Flow Study
- Urethral Pressure Profile ,
- Conductance
- Valsalva and Cough Leak Point
- Pressure
- Electromyography.



PICO® SMART can be expanded with the following options:

Video-urodynamics to combine x-ray or ultrasound images and short movies with the urodynamic tracings.

Biofeedback for the pelvic floor functional rehabilitation in the urinary incontinence.

Oesophageal and Anorectal motility : to evaluate the gastrointestinal motility.

Whitaker Test to study the functioning of the upper urinary tract.

Cavemosometry to evaluate erectile disorders. **(not available in USA)**

Voice to run the system by vocal commands and to record comments during the study

Module of Neurophysiology It evaluates:

Pudendal Motor Nerve Latency, Sacral Reflex, simple EMG and quantitative EMG.

Combined Uroflowmetry and Electromyography: The utmost from the most elementary urodynamic test



The first all-in-one uroflowmeter to provide these results.

PICO FLOW2 is a double-channel uroflowmeter for Uroflowmetry and Electromyography examinations of the Pelvic Floor.

Thanks to is especially designed for urodynamic examinations in paediatric and gynaecology departments and whenever one chooses to perform a non-invasive urodynamic examination.

TECHNICAL DATA

PICO FLOW2 UNIT

- Graphic display, touch screen, 5"1/4 monochromatic, resolution 320x240 pixel;
- Memory card, size 64 MB;
- Start and Stop push-buttons for manual mode.
- Serial port RS232 for PC link through optical cable (optional);
- Built-in thermal printer. Roll paper width: 110 mm, resolution 180x90 dpi;
- Printing on-line and/or after the analysis;
- External power supply: 230V 50 Hz / 115V 60 Hz. Power consumption 130 VA;
- Dimensions: 110x328x250 mm;
- Weight 3.1 Kg.

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FLOWMETER

- Load cell flow transducer at high resolution and long term accuracy.
- Flow Range 0 to 100 ml/s;
- Accuracy 1%;
- End scale: automatic or manual;
- Sampling rate: 10 Hz;
- A/D converter: 12 bit;
- Volume Range: 2000 ml.



STANDARD CONFIGURATION

Pico Flow 2 unit;

Flowmeter with demountable pole, 2 litres beaker, funnel and cable, 8 m long.

OPTIONAL:

EMG channel with surface electrodes, cable 8 m long. A cable for needle electrodes is available on request.

Disposable surface electrodes (25 items per box), code MA-E011

Disposable needle electrode, monopolar, 25x0,36 mm. (25 item/box), code MA-A004/38

Commode chair

FLAWSOFT2 software packages for Windows based Personal Computer. It allows downloading and analysis of the tests stored into the memory card.



EMG CHANNEL

- Range: 0 to 2 mV;
- End scale: automatic or manual;
- Sampling rate: 1 KHz;
- A/D converter: 12 bit;
- Pass Band: manual set-up;
- It works both with surface electrodes and needle electrodes.

FEATURES

Large graphic touch-screen display for patient's data entry and set-up of the test.

The traces are shown on-line upon the screen with the possibility to change their scale.

Two channels: 1 uroflow, 1 (optional) EMG.

Start/End examination: automatic or manual.

Built-in thermal printer.

On-line printing of the traces and/or delayed printing of traces and results after the analysis.

PICO FLOW 2 is suitable both for stationary and domiciliary uroflowmetry.

The tests are stored on an extractable 64 MB memory card with the capability of 50 examinations. In domiciliary mode it can store up to one week of uroflowmetries.

Post-analysis of the stored examinations both in automatic and manual way through the insertion of dedicated markers.

Optional software package for Windows based Personal Computer.

High precision Flow transducer based on a load cell which ensures a prolonged accuracy of measurements.

