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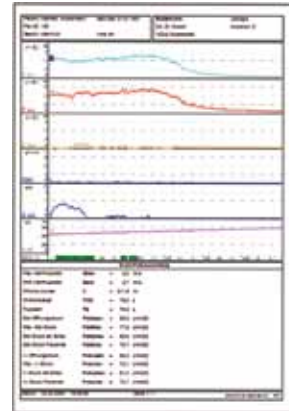


tic Medizintechnik

research development production

SMARTDOC

- + Analysis software for connection of the Newton System with the clinic or surgery IT system
- + optionally wireless
- + Database management system for the administration, documentation and evaluation of urodynamic measurements
- + Saving, security, selection, filtering, presentation, export, planning, print, analysis and post-processing of measurement data



- + high-performance + flexible
- + user-friendly



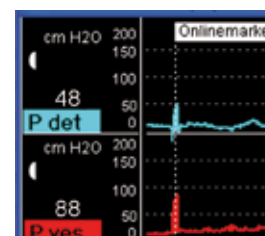
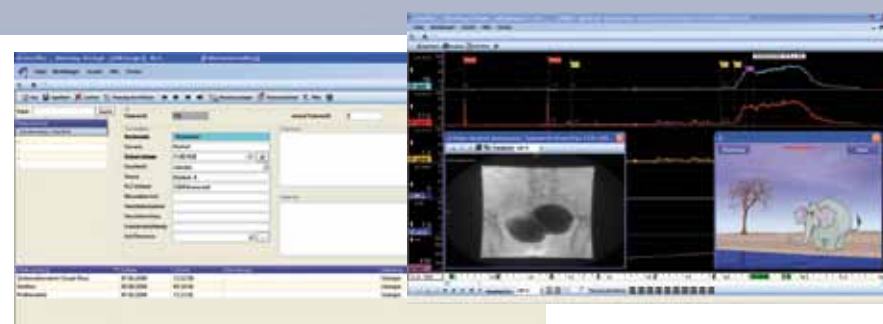
Laptop for mobile use



Desktop PC in clinic or surgery



Connection to the surgery network (GDT) or operation within the framework of HIS (HL7)

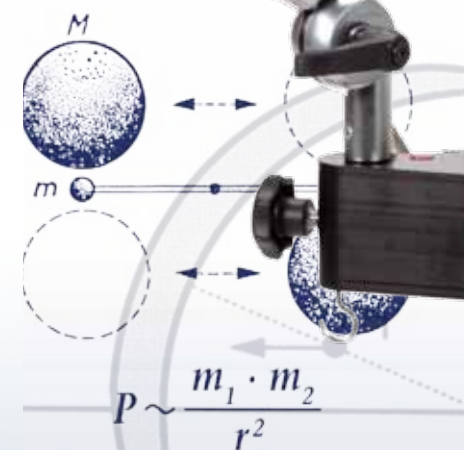


diagnosticline

Urodynamics

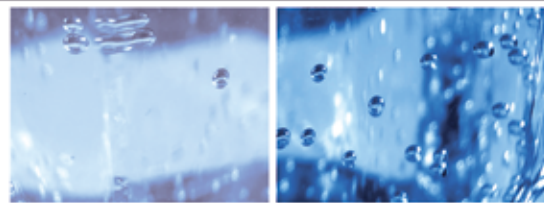
NEWTON

made in Germany

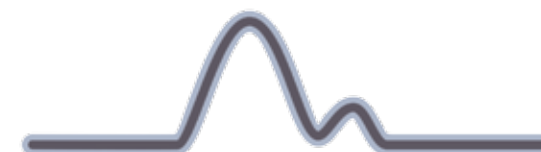


Newton 1643 - 1727:
Causality describes the relationship between cause and effect

10/2013 / R2 CG



Urodynamics



NEWTON - high-performance, compact and still easy to handle



Simple, time-saving and, as a result, effective measurements

- intuitively operable Windows®-interface with touchscreen
- coherent sequence of operating steps for fast and accurate measurement results

The most modern technology and high variability

- database connection via HL7, GDT and LAN
- Bluetooth® (optional)
- card reader for reading the patient master data (only available in Germany)

Meaningful measurement results

- through high precision measurement data recording
- clear printouts of the measurement data and analyses



high quality accessories for all the measurements



high precision weighing unit



Space-saving functional design

- can be easily incorporated into your spatial requirements
- Simple component exchange in just a flick of the wrist



Only a founded diagnosis, based on precise measurement results, allows you the security to determine the subsequent specific therapy for the patient.

Extensive range of functions

Measurement programmes and analyses according to ICS-Standard

- Cystometry
 - compliance
 - max. bladder capacity
 - bladder sensitivity
 - etc.
- Urethra pressure profile
 - rest and stress profile
 - functional urethra length
 - max. urethral closure pressure
 - passive and active pressure transmission
- Pressure-flow measurement
 - ICS-, CHES-, Linear PURR nomogram
 - detrusor opening pressure
 - max. detrusor pressure
 - min. micturition pressure
 - detrusor pressure at max. flow
 - flow rate
 - volumes
 - etc.
- Uroflow-EMG
 - Siroky et al., Höfner-Index
 - child-friendly flow- and EMG-initiated animation (optional)

With the **NEWTON**, we have developed a measurement system that helps you to unscramble the complex process of passing water.



$$F = F_1 = \frac{G \cdot M}{R \cdot T^2} = \frac{G \cdot M}{R \cdot T^2} = M \cdot \frac{4 \cdot \pi^2 \cdot R^2}{G \cdot T^2} = \frac{4 \cdot \pi^2 \cdot (3.84 \cdot 10^3 \text{ m})^2}{6.67 \cdot 10^{-11} \frac{\text{m}^3}{\text{kg} \cdot \text{s}^2} \cdot (27.3 \cdot 24 \cdot 60 \cdot 60 \text{ s})^2} = 6.02 \cdot 10^{21} \text{ kg}$$