



Uromic QuickStep

Urodynamic system



The QuickStep is a compact 8-channel system for complex functional diagnostics in urology, urogynecology, gastroenterology, anorectal manometry and other fields.

The system is mounted on a height adjustable stand that allows the clinician to work either from a seated or standing position.

The system includes all key elements including: PC with full touch screen, waterproof/infection control friendly keyboard, accurate cystometric pump, height adjustable pressure transducer holder and waterproof profilometry puller.

The unit has an inbuilt module for wireless connection of DanFlow 3000 uroflowmeter.

Standard specification includes a module for videourodynamics in PAL format and allows connection of an X-ray system, external ultrasound or other imaging devices.

There is also an optional ultrasound module with color doppler mapping for pelvic floor examination in urogynecology.

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Compact urodynamic diagnostic system Uromic QuickStep – technical data

System controlled by panel PC with 19" touchscreen, waterproof keyboard with integrated touchpad, two inbuilt wireless connection modules.

System offers 8 classic universal measuring channels that can measure the wide range of biomedical values according to connected transducer type.

Up to 8 transducers (in stand version) can be connected wirelessly on 866 MHz band. "Programme update via internet" technology includes additional settings according to customer's requirements.

Urodynamic can use:

- uroflowmeters with weight transducer
- air-charged pressure transducers (T-Doc)
- Micro Tip transducers
- water column transducers
- combination of pressure transducers
- EMG modules with external pre-amplifier

8 channel anorectal or esophageal manometry can be used also with profilometric puller.

Measured and processed data are saved into integrated databasis, the device can be connected to computer net, printer including color laser printer is connected wirelessly (WiFi).

• Control system

Panel PC system with a 19" touch screen, operating system Windows

Programmable with user friendly software for definition in all 8 channels, 2 controllable external units (pump, puller)

Application software: Urosoft, ver. 2.5

• Basic software

UFM, automatic UFM

Filling and miction cystometry

PQ study, analysis, Schafer, Chess, A – G, ICS, BLAIVAS

PURR, LPURR, URR, Stress profile, QLPP (conductivity)

Leak Point Pressure (ALPP, VLPP, CLPP)

Video LPP, UPP, 4 channels UPP, anorectal manometry,

EMG a EMG biofeedback

• Videourodynamics

Input for image information in PAL format from X-ray or ultrasound.

• Optical module for original method of leakage examination (VLPP)

Flexible endoscope with camera on its tip for watching foramen of urethra with additional LED diode lighting

• Ultrasound module (option)

Supported modes: B Mode, M Mode, Colour Doppler Mapping, Power Angio Doppler, Doppler frequency analysis

Transducer: abdominal convex 3–5 MHz, vaginal/rectal endfire 5–8 MHz with sterilizable puncture attachment, small parts linear transducer 5–10 MHz.

• Software for data recording (measured and image data)

DigiPict 2.0, Uro-Viewer

Dimensions:

Height of keyboard: 74–94 cm

Height of system: 127–147 cm

Width: 60 cm

Depth: 72 cm

Weight: 36–45 kg (depending on equipment)

Language: Czech, English, Germany, Russian

• Safety

EN 60601-1. Class I, typ BF (Medical Electrical Equipment)

CE0434-marked (EU medical device direct 93/42 EEC)

Voltage: 230 V ±10 % 50/60 Hz

Supply: max. 300 VA

• Uroflowmetry

Transducer type: weight transducer
Flow range: 0–50 ml/s, Vol. 0–900 ml
Accuracy: ± 5 % from range
Optional: weight transducer

• Pressure

Number of channels: 1–6
Measurement range: –50 až +250 cm H₂O
Accuracy: ± 3 % from range

• EMG

Measurement: external modules with integrated pre-amplifier on a cable with replaceable electrodes
Frequency: 1 Hz – 10 kHz (–6 dB)
EMG processing: EMG envelope, EMG curve

• Puller

Waterproof with sterilizable catheter holder
Pulling-out speed: 0,5; 1; 2; 3; 4; 5 mm/s
Accuracy: ± 3 % from range
Usable lenght: 200 mm

• Cystometric/Profilometric pump

Range: 0,5–100 ml/min

