



## EchoJive

Ultrasound unit with uroflowmeter



EchoJive is an economical modular device that combines two important diagnostic methods of ultrasonography and uroflowmetry.

The ultrasound unit is dedicated to various applications such as standard abdominal, transrectal/transvaginal examinations in urology, urogynecology, interventional ultrasonography. The whole device is mounted on a height-adjustable stand so it can be operated from a sitting or standing position. Control is via a waterproof keyboard or by touchscreen.

The ultrasound module is available in two versions:

- EchoJive B for B-mode and M-mode for standard ultrasound diagnostics of anatomy.
- EchoJive CFM gives additional information about blood flow and vascularisation by colour doppler mapping, power angio imaging and doppler functional analysis.

The ultrasound can be connected to wide spectrum of transducers, varying from abdominal and high-frequency small parts transducers to transrectal and transvaginal transducers.

The uroflowmeter uses a transducer that is connected wirelessly to the base unit. An optional height-adjustable stand for men, or a commode for women can be used.



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# EchoJive - Technical Data

## Technical specification

- Programmable focusing
- Dynamic focus mode
- Variable focusing during of transmission, 8 points
- Dynamic focusing during receival, 8 zones
- Cineloop recording up to 2048 images
- Viewing Play / Pause / Stop

## Imaging modes

B, B+B, 4B, B+M, M, THI

Version CFM

- Color Doppler (CFM)
- Power Doppler (PDI)
- Directional Power Doppler (DPDI)
- Pulsed Wave Doppler (PWD)
- B+PWD (Duplex)
- B+CFM/PDI/DPDI+PWD (Triplex)

## Signal processing

- Pre-processing
- TGC sliders
- Dynamic range (8 steps)
- Gain control (16 steps)
- M - mode 1-16 sec
- Acoustic power control, 256 levels, 10-100%

## Post-processing

- Variable image processing
- B/Color priority control
- Brightness, contrast and gamma control
- Scan direction, rotation, up/down controls
- Negative/positive control
- „Intelligent“ zoom, manual zoom
- Echo enhancement control in 5 steps
- Noise rejection function (32 levels)
- Record/play function using disc memory
- Function of rejection, 32 degrees
- Compression optimization of image size
- Variable imaging modes
- Viewing area variable for frame rate maximizing (6 steps)
- Imaging depths: 3; 4.5; 6; 9; 12; 15; 18; 21; 24

## B-mode measurements

- 4 distances
- 2x measurements of area and volume:
- Ellipse (area, circumference, long and short axis, volume calculation)
- Freehand (circumference and diameter calculation)
- 2 angles

## CFM a Power Doppler

- Wall filter control
- Gain control
- Angle steering control
- Doppler frequency selection
- Color maps selection
- Single click PW data

## Automatic adjustment

- Baseline, invert, PRF
- PW stereo sound: volume control
- 128 or 64 acoustic channels
- 512x512 pixels
- Gray scale: 256
- Real time imaging up to a frequency of 120 fps
- High Line Density scan mode for increasing resolution
- Quick scan mode for fast scanning
- 32 channel analogue Beamformer
- Digital focusing
- Multi line technology, 128/256 real ultrasound lines

## Multi focus mode

- Transmit/receive, max. 4

## Ultrasound transducers

- Abdominal convex array transducer C4.5/50/128Z, 3-7 MHz
- Linear array transducer for small parts scanning HL9.0/60/128Z, 5-10 MHz
- Transrectal/transvaginal transducer EC8.0/10/128Z, 6-10 MHz, option – biopsy attachment

## Uroflowmeter DanFlow 3000

- Weight transducer with inbuilt electronics for wireless connection to control PC unit on a stand
- Touch screen or keyboard control
- Automatic measurement and evaluation with protocol printing or recording on HDD in PDF format
- Stand for male examination
- Commode for female and child examinations (option)

