The CORE System

Cardiothoracic Operating Room Evolution

The CORE system by Koven Technology offers a cost effective alternative to flowmeters currently used to assess patency of Coronary Artery Bypass Grafts.

Studies have shown that ultrasound Doppler assessment of myocardial perfusion during diastole is an effective method of measurement. [1]

The CORE system contains a Bidop® CV ultrasound Doppler with ECG interface, touchscreen computer with Smart-V-Link™ CVOR software installed, printer, and cart.

[1] Changing Flow Pattern of the Internal Thoracic Artery Undergoing Coronary Bypass Grafting; Continuous-Wave Doppler Assessment; Cartier, R; Semper Dias, O; Pellerin, M; Hébert, Y; LeClerc, Y; Journal of Thoracic & Cardiovascular Surgery 1996; 112:52-8

DOPPLER SPECIFICATIONS

Power:	DC9V, 9V alkaline battery
Battery Life:	Approx. 2.5 hours (alkaline)
Automatic Shut Off:	No signal: 2 min. Freeze: 5 min. Others: 15 min.
Mode Settings:	Memory, waveform, direction, time scale, others
Speaker Output:	200 mW or more
Freq. Range:	80/200 Hz to 5 kHz
LCD Display	128 x 64 dots, STN LCD Bi-directional waveform (normal & slow mode) Numercial data (systolic, diastolic & mean velocities, RP, PI, SD, HR Heart rate: 30 to 300 BPM Low battery indicator
Waveform memory:	30 memories
Dimensions:	W 75mm / D 140mm / H 25mm
Weight:	Approx. 350 grams (including battery & probe)
External Outputs:	Headset, serial port

VASCULAR DIAGNOSTICS KOVEN® TECHNOLOGY INCORPORATED

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