

VASCULAR DOPPLER

EMCO D500



One solution for all applications - Obstetrics & Vascular Diagnosis
A complete self-contained system to carry out fetal, vascular and arterial investigations and monitoring, using the principle of Doppler ultrasound.

Three interchangeable transducers, 2MHz, 4MHz and 8MHz:

- 2MHz transducer monitors fetal heart beats from the 10th week of pregnancy, localizes placenta & detects multiple pregnancies
- 4MHz transducer provide effective diagnosis of deep vascular disorders
- 8MHz transducer allows very precise localization of fine peripheral vessels

Supplied with : Compact Carry case, Headset, Demo CD, AC Adapter, Recorder lead, Gel, Battery, Operating instructions

EMCO D580

A dedicated unit designed for vascular and arterial investigations with permanently fixed 8MHz transducer

Economical & Compact

Supplied with : Carry Pouch, Headset, Demo CD, AC Adapter, Recorder lead, Gel, Battery, Operating instructions



Common Features for D500 & D580

Output can be presented in three different ways:

- Built-in speaker
- Headset/Headphones attachment
- Any chart recorder (eg. ECG recorder) for waveform analysis

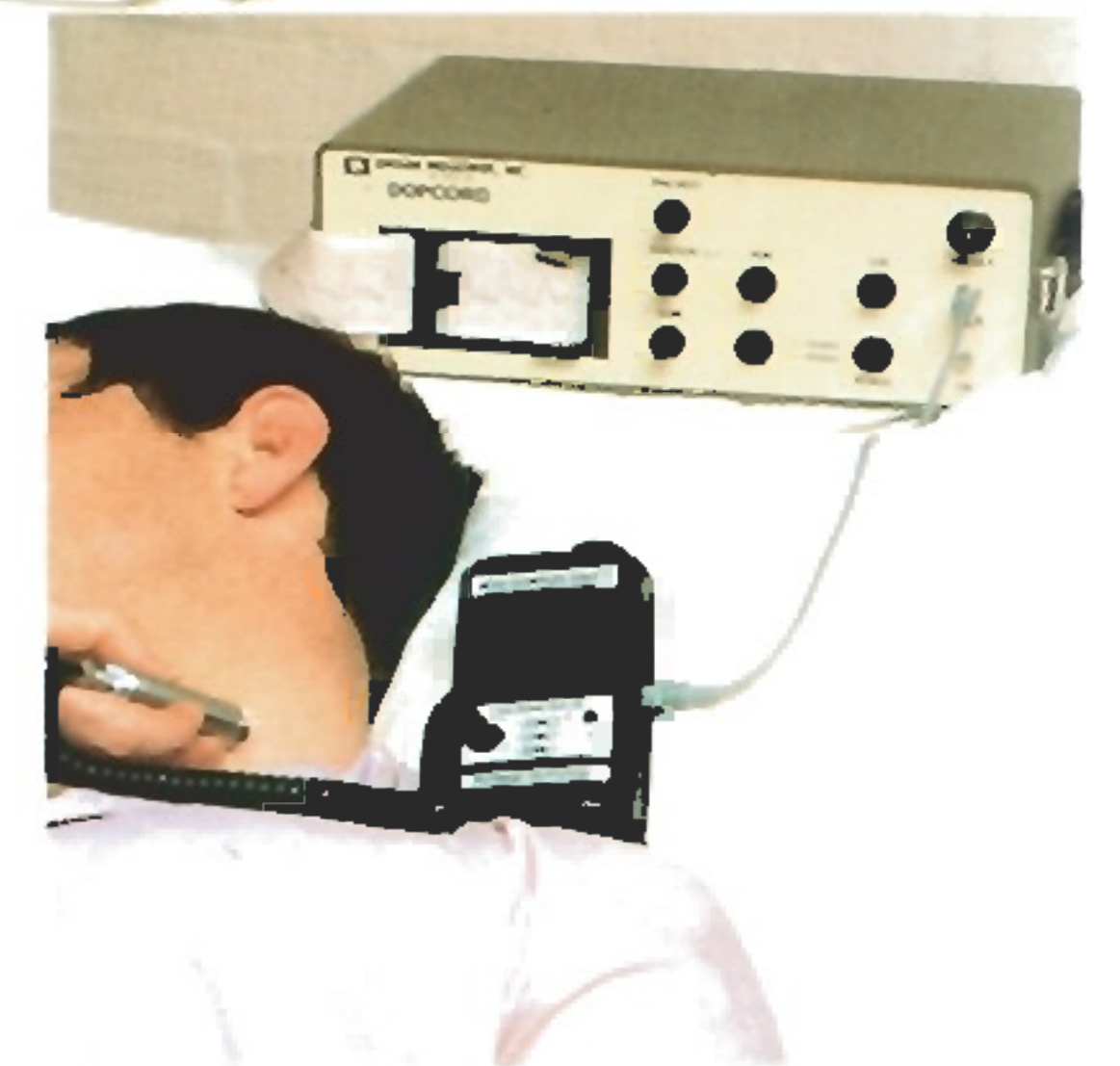
Calibration switch for reference to help interpretation of waveforms

Hand-held battery-powered audio unit (fits into palm)

Auto power shut-off facility for maximum battery life

Battery low indicator

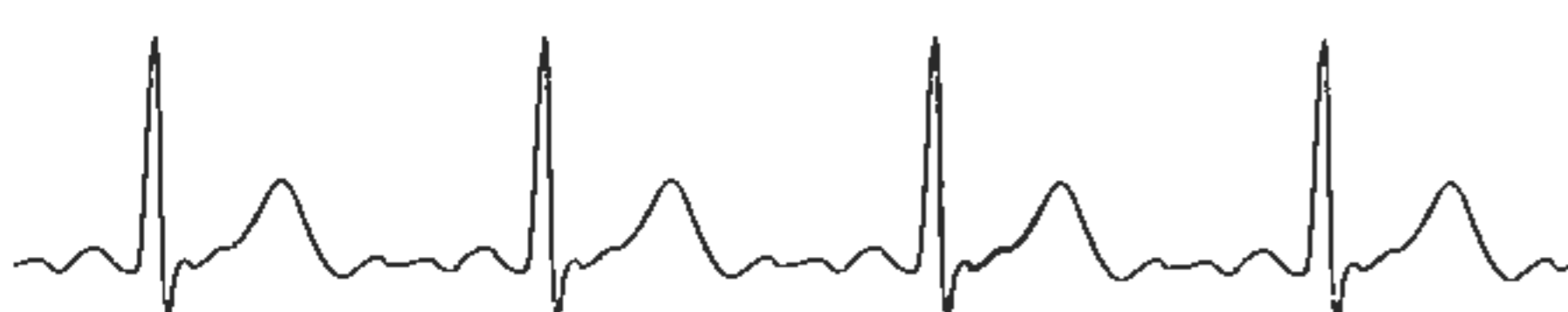
Can be connected to mains through A.C.Adaptor



Manufactured since 1991 and more than 2500 nos. in use

Transducer is manufactured using imported crystals for better sensitivity

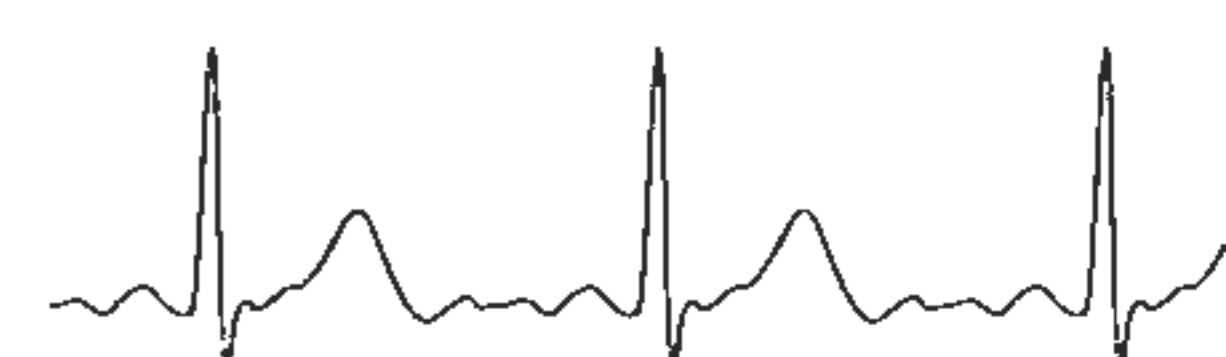
Emco Meditek, an ISO9001:2008 & ISO13485:2003 certified company, was formed in the year 1989 with the main objective of manufacturing and marketing of Electronic Medical Equipment. The equipment are designed and manufactured indigenously with the assistance of technology obtained from leading Medical Equipment manufacturing companies around the world especially USA, UK and Germany.



At the heart
of healthcare

EMCO MEDITEK® PVT. LTD.

An ISO9001:2008(TUV Rheinland) & ISO13485:2003(Zenith/ASCB) Certified Company





TECHNICAL SPECIFICATIONS

Audio output	400mW	Dimensions	128 x 69 x 38 mm
Waveform output	Zero crosser 1V/KHz from 10k Ohms	Weight	Including Transducer 340g
Tape Output (normal)	10mV from 10K Ohms	Battery type	9V Alkaline
Calibrated output	1kHz Equivalent	Battery life	Upto 3 months normal operation
Automatic Shut-off	10 minutes (Approx)		
Transducers	Frequency (±10%)	Acoustic output (Max)	Frequency Response
TDR2	2MHz	12mW/cm ²	300Hz – 1kHz
TDR4	4MHz	25mW/cm ²	300Hz – 2kHz
TDR8	8MHz	15mW/cm ²	300Hz – 4kHz

APPLICATIONS

Transducer	Field of Use	Application
TDR 2 (2MHz)	Obstetrics / Gyn. Vet Medicine	Fetal Heartbeats Small / Large animal clinics
TDR 4 (4MHz) TDR 8 (8MHz)	Cardiovascular Surgery	Deep and superficial venous incompetence Ankle / Brachial index (Diabetic Foot) Carotid bifurcation Palmar / digital blood flow Waveform analysis
	Urosurgery	Penile pressures Testicular studies Varicocele detection
	Dialysis	Fistula evaluation
	Plastic Surgery	Identifying dominant perforators for planning flaps Vascular blood flow after tissue transplant.
	Orthopaedic Surgery	Pulse / Systolic pressure in hypotensive patients Venous thrombosis in lower limbs
	Neonatal / Paediatric	Low systolic blood pressure
	Neurosurgery	Supraorbital blood flow Cerebral vascular insufficiency
	I.C.U. / Emergency Cancer units	Pulse / Systolic Pressure Differentiation of benign and malignant lesions
	Burn units	Blood flow during healing

Specifications subject to change without prior notice.



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