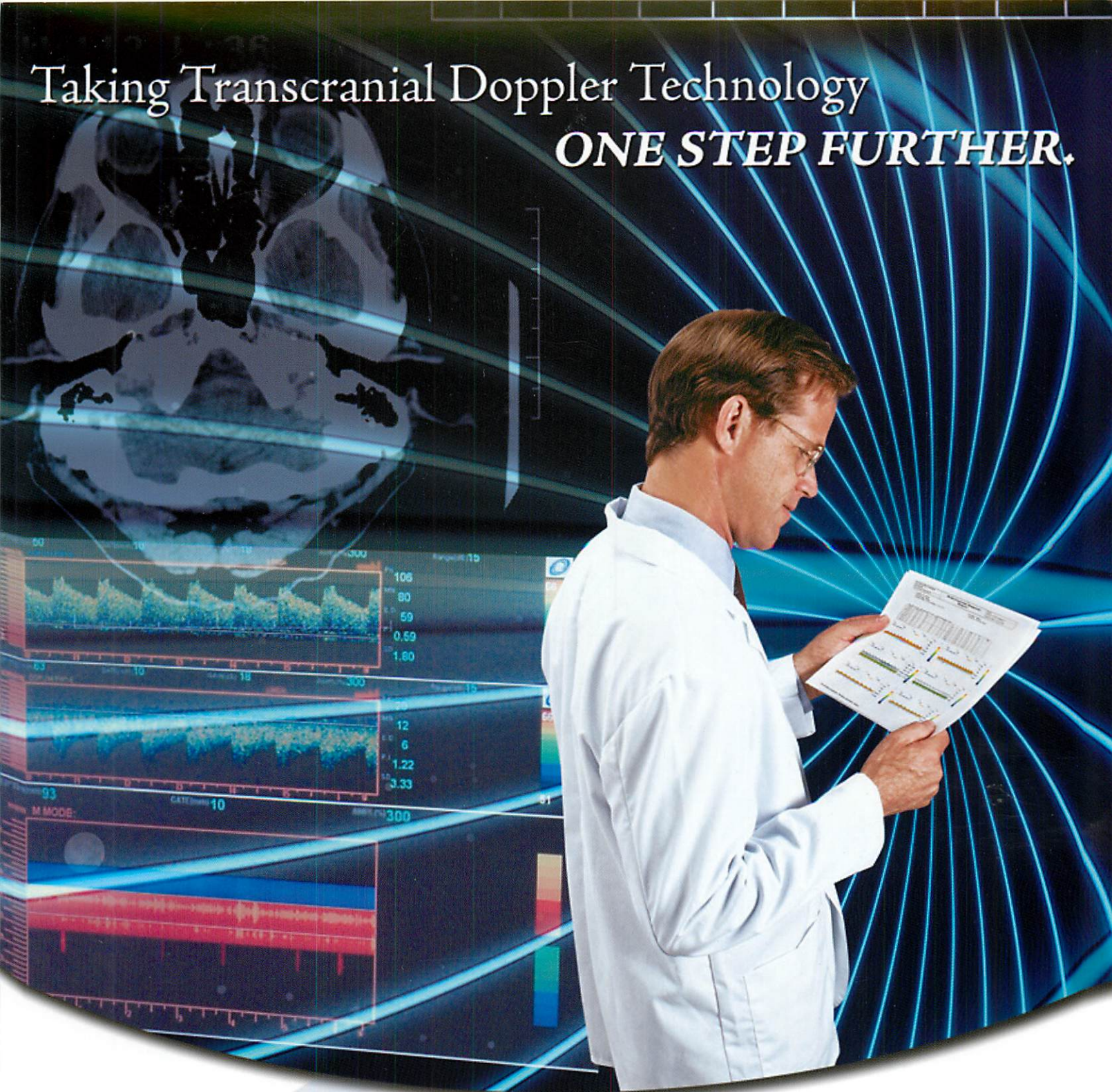


Taking Transcranial Doppler Technology
ONE STEP FURTHER.



ROBOTOC2MD NEUROVISION™ SERIES



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ROBOTOC2MD NEUROVISION™ SERIES

TRANSCRANIAL DOPPLER ON CALL

APPLICATIONS

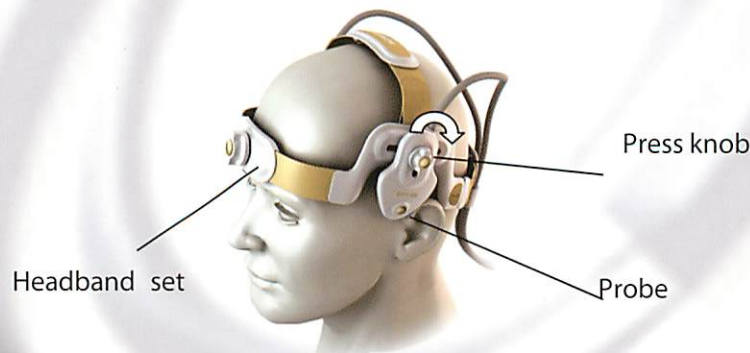
- Evaluation of intracranial effects of extracranial stenosis, including assessment of collateral flow pathways
- Quick assessment of the MCA's, PCA's and Basilar artery for over/under interpreted MRA's
- Detection and monitoring of vasospasm following aneurysmal subarachnoid hemorrhage
- Evaluation and monitoring of intracranial blood flow during surgical procedures
- Detection of PFO (patent foramen ovale) with few ancillary supplies
- Emboli detection and monitoring of embolic events
- Diagnosis of intracranial stenosis and occlusion
- Identification of feeder arteries in AVM's
- Supports the diagnosis of brain death
- Screening for basilar artery stenosis
- Management of sickle cell disease
- Vascular interventional procedures: monitoring during carotid stent placement or testing balloon occlusion
- Trend analysis of daily vasospasm testing

- Evaluation of vasomotor reserve (CO₂ Reactivity)

ROBOTOC2MD

Digital Transcranial Doppler (TCD) Ultrasound System with Robotic Headband for auto-tracking offers the best solution for Long-term monitoring. The ROBOTOC2MD locks on to the signal and maintains it despite patient or headband movement. Essential and Unique feature for monitoring.

ROBOTIC HEADBAND

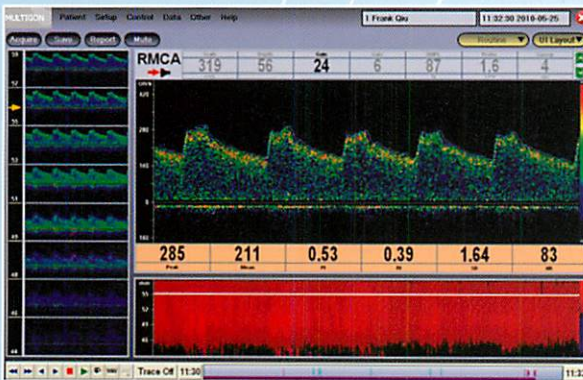


Product Highlights



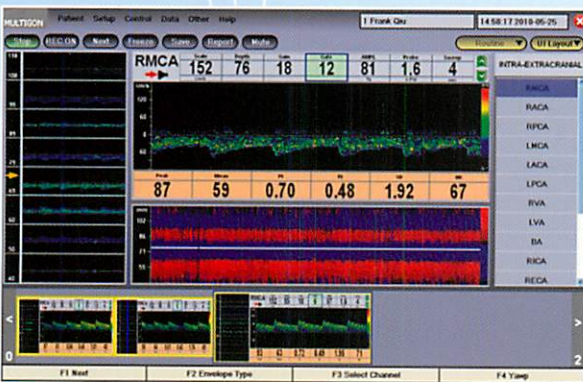
Sensitive Doppler

Advanced digital technology with improved detection sensitivity. The system can detect and obtain vessel signals quickly with high quality spectra even working at very low power and small sample volume ($\leq 2\text{mm}$), which also improves the accuracy for vessel localization, reliability for vessel identification especially working in the Multi-depth mode.



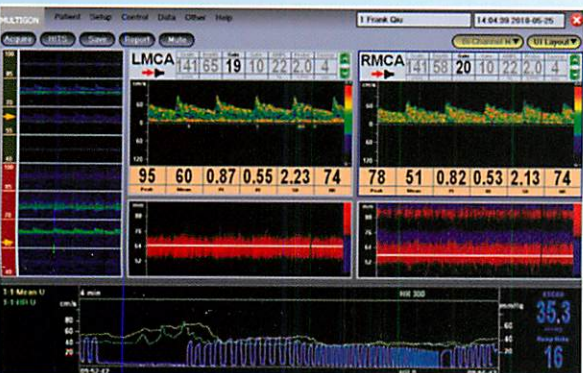
Higher Velocity Limit

The maximum detectable velocity is up to 750cm/s for the MCA. This eliminates the anti aliasing present in most TCD units and improves the accuracy for measuring high velocity for vasospasm patients.



Exclusive Dynamic M-Mode (128 Depths, 750 gates)

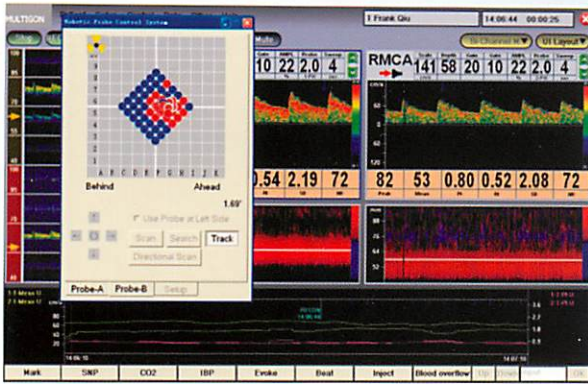
As a full digital TCD, the ROBOTOC2MD system produces a powerful, high resolution (128 depths combined into 750 small gates) M-Mode display, with Doppler signals simultaneously displayed along the ultrasound beam at varying depths. Up to 8 spectra at various depths can be simultaneously displayed with the M-Mode display. Real-time recording of examinations can be fully stored as raw data and replayed – spectrum (including multi-depth spectrums) + sound + M-Mode + related events (including HITS events.) Enhanced Dynamic M-Mode for all the probes and the study types allows reviewing spectra and re-calculating indices offline for all the depths of the M-Mode window. This Doppler raw data can be saved as an AVI media file which can be easily transported and used on any PC.



“Real” two-channel with Professional Monitoring Program:

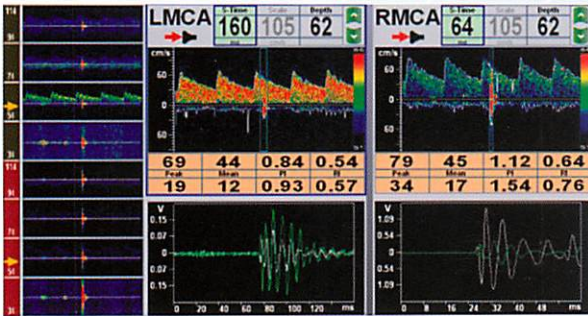
The ROBOTOC2MD is a real 2-channel device; all the control parameters including Depth, Gain, Gate, AMPL and Scale can be adjusted independently. Up to 8 analog input signals can be added and analyzed synchronously with the TCD indices in monitoring for TCD diagnostics, intra-operative (e.g. carotid surgery and cardio surgery) and intensive care use. It has CO₂ vasoreactivity and reserve of cerebral blood circulation to changes in arterial pCO₂.

2 CHANNEL MONITORING WITH MMODE. CO2 RESERVE AND VASOMETER REACTIVITY



Innovative Robotic Probe Technology

With the ROBOTOC2MD Transcranial Doppler, Provides a comfortable fixation headband with auto tracking and restoration of the Doppler signal caused by probe, headband or patient movement. Cerebral vessels can be tracked for hours automatically without loss of signal. If the patient, headband or transducer moves from the TCD window the ROBOTOC2MD will automatically adjust for the movement and restore the TCD signal.

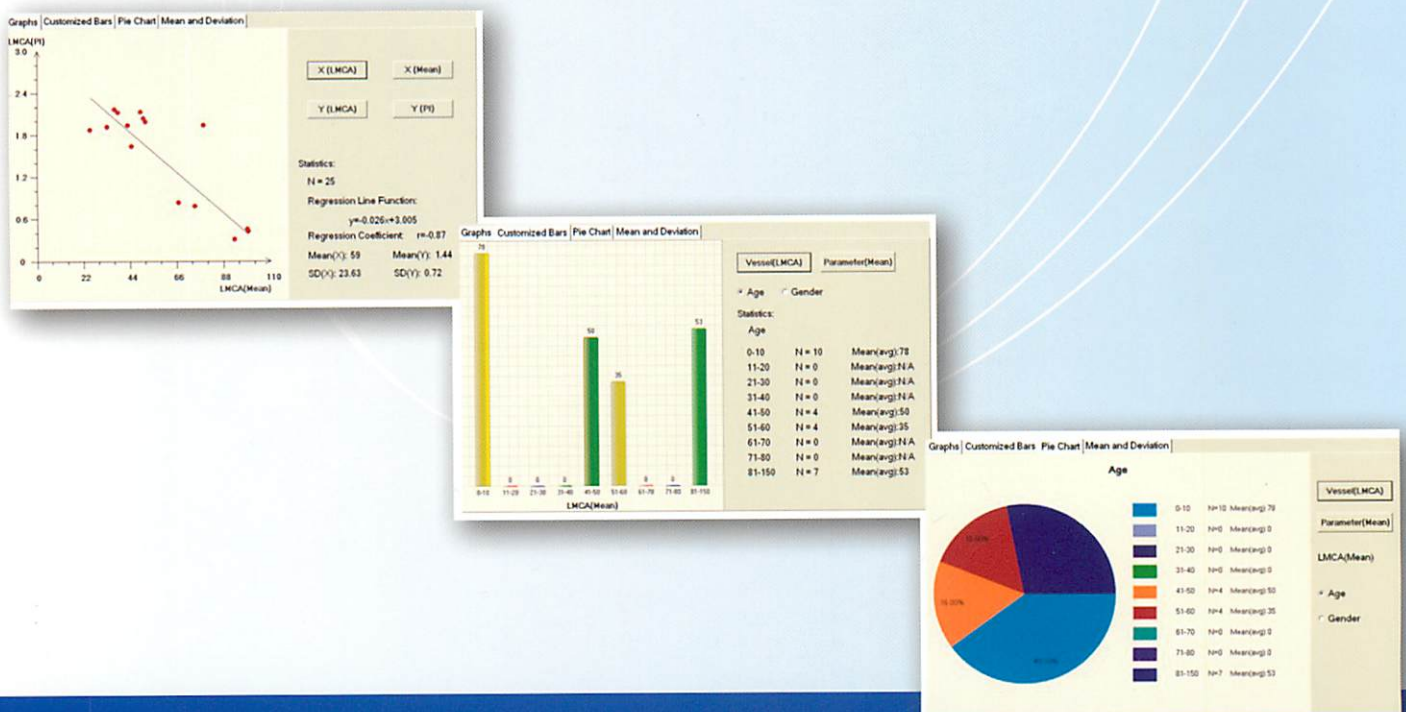


Advanced Emboli Detection software

Based on the cooperation with many neurologists working on emboli research, the new emboli detection software has an improved algorithm with high accuracy, and it's features include a soundtrack and a HITS history.

EMBOLI DETECTION AND HITS RECORDINGS AS WELL AS ANALOG ANALYSIS OF THE HIT

Powerful statistics function, provides convenient data reduction for clinical research



User-friendly System

The ROBOTOC2MD has a configurable GUI (General User Interface), for all examination protocols and procedures. Settings can be predefined according to user's needs. This insures easy operation, printing of custom patient reports and storage and retrieval of data.