

Ultimate diagnostic transcranial Doppler (TCD) ultrasound system

Sonara/tek™



Sonara/tek TCD system allows for non-invasive assessment of blood flow velocities in cephalic and peripheral veins and arteries of the body. This method of measurement has been well documented in the medical literature as a useful diagnostic tool for examining the major arteries supplying blood to the brain.

Sonara/tek provides an economical and portable solution for performing TCD exams in a variety of locations—from hospital laboratories to private clinics and mobile ultrasound companies.

Sonara/tek TCD systems are built to optimize performance and assist the caregiver in improving patient care. Protocol-driven exams and superior Doppler sensitivity are valuable time-saving tools. TCD exams can be performed quickly and more efficiently utilizing M-mode or multi-depth display, pre-configured or custom protocols and up to 120 seconds of spectral data available for real-time review.

M-mode in diagnostic mode serves as an optimal acoustic window finder and vessel locator, allowing for quicker examination time. It provides hemodynamic overview to assist clinicians in their diagnosis.

Utilizing advanced graphics, **Spectral Summary** reports offer right to left comparison to aid diagnosis.

An exclusive **Daily Trend** feature assists the clinician in managing the course of patient treatment and identifies potentially critical phases of vasospasm.

Sonara/tek gives the physicians and researchers access to patient files in multiple export formats, including raw data.

TCD is a useful tool for assistance in the evaluation of numerous neurovascular conditions in adult and pediatric patients:

- Diagnostic cerebrovascular and extracranial investigation
- Extended-term unilateral cerebrovascular monitoring

The systems may be used in laboratories, operating rooms, intensive care units, emergency departments and physician offices for the following applications:

- Intracranial stenosis
- Detection of vasospasm due to subarachnoid hemorrhage
- Detection of arteriovenous malformations (AVMs)
- Assessment of collateral pathways
- Detection of embolic events occurring during surgery or other monitoring applications*
- Detection of PFO (Patent Foramen Ovale)*
- Track and establish trends of blood flow velocities
- Help improve surgical techniques through immediate feedback of the results of interventional procedures
- Document the informative results of Breath Hold and Vasomotor Reactivity (VMR) testing

* Unilateral only

Features at a glance

- Single channel (unilateral) monitoring
- Compact and portable
- 250 gates of M-mode in Diagnostic and Monitoring modes
- User configurable protocols and settings
- 120 seconds of spectral data playback in Diagnostic mode
- High quality digital Doppler signal
- Specialty tests: VMR and breath hold
- Emboli detection and evaluation package (unilateral)
- Multi-depth, multi-channel acquisition
- Configurable remote control and footswitch
- Multiple language capability
- Statistics and trending packages

“TCD is the only non-invasive examination that provides a reliable evaluation of intracranial blood flow patterns in real-time, adding physiological information to the anatomical information obtained from other neuroimaging modalities.”¹

¹ Role of Transcranial Doppler Ultrasonography in Cerebrovascular Disease
Leonard L.L. Yeo and Vijay K. Sharma, Division of Neurology, National University Hospital, Singapore

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