

# SONARA/tek

## Portable Transcranial Doppler System

### Specifications



#### General Specifications

**Mains Power** 100-240 VAC, 50/60 Hz  
**Size** 22 x 25.5 x 4 cm  
**Weight** 2.0 kg  
**Probe Connections** 2, 4, 8 MHz CW/PW

#### Minimum PC Requirements

**Processor** Pentium 4 or higher  
**Hard Drive** 5 GB free or higher  
**Memory (RAM)** 256 MB or higher  
**Operating System** Microsoft® Windows® 2000 or XP  
**1 USB 1.1/2.0 port**  
**Display Resolution** 1024 x 768  
**Speakers and Sound Card**

#### FFT Doppler Display

**Depth Range (2 MHz)** Up to 130 mm  
**Gain Control** 11 Steps  
**Power Control** Up to 100% of system limits for derated Ispta  
**PRF (2 MHz)** Up to 16 KHz (depth dependent)  
**Zero Line Control** 5% to 95% of screen  
**Sample Volume (2 MHz)** 1-20 mm  
**Volume Control** 11 steps plus mute  
**Sweep Time** 4-120 seconds  
**Velocity Units** cm/sec or KHz  
**Spectrum Colors** Select from 8 color scales  
**Color Resolution** 16 colors  
**Insonation Angle** User defined

#### Standard Software Features

**Diagnostic Software**  
Continuous Event Triggered Monitoring  
**Language Support** English, Russian, German, Spanish, Korean, French, Japanese, Italian, Chinese  
**High Resolution M-mode** 250 gates/probe  
**Multigate Display** 4-8 spectral waveforms  
**User Defined Protocols**  
**Trend Curves**  
**On-line Help**  
**Cursors** 2 vertical, 2 horizontal

#### Software Options

**Single Channel Monitoring License**  
**Emboli Monitoring**  
**Velocity Profile**  
**CW Mode**  
**Data Export** Raw data, BMP, JPEG, MS Excel, PDF, Movie (AVI), Audio (WAV)  
**Specialty Test Set** VMR, Breath Holding  
**Review Station**

#### Standard Test Parameters

**Mean Velocity**  
**Peak Systolic Velocity**  
**End Diastolic Velocity**  
**Pulsatility Index**  
**Resistance Index**  
**Systolic to Diastolic Ratio**  
**Heart Rate**  
**Measurement Accuracy**  $\pm 10\%$

#### Review

**Interactive Summary Screens** Intracranial, Extracranial, others  
**Day to Day Trending**  
**Statistics Package** Graphs, bars, and pie display per patient database  
**Backup and Restore** All database, by patient name, or by examination dates  
**Customized Printed Reports**

#### Additional Options

**Custom Trolley/Cart**  
**3 Function Configurable Footswitch**  
**USB Hub**  
**Stereo Headphones**  
**Monitoring Headgear**  
**Isolation Transformer** 110 or 220 V  
**Dell Laptop Computer**

#### Main Unit Peripherals

**Wired Remote Control**  
**USB 1 GB Drive for Data Archive**  
**Probe Holder**

#### Printer Options

Any Windows XP compatible inkjet printer

#### Probe Options

2 MHz CW/PW handheld diagnostic probe  
2 MHz CW/PW monitoring probe for headgear  
4 MHz CW/PW handheld extracranial probe  
8 MHz CW/PW handheld extracranial probe

#### Compliance/Regulatory Standards

**Certified ISO 13485**  
**UL 60601-1** Medical Electrical Equipment  
**CAN/CSA-C22.2 No.601.1-M90**  
**IEC/EN 60601-1**  
**IEC/EN 60601-1-2**  
**EN 60601-2-37**

Specifications, design options and terms quoted are subject to change without notice

CareFusion  
Middleton WI

[carefusion.com](http://carefusion.com)

