

Dolphin **Transcranial Doppler**

Taking TCD Technology One Step Further







Everything You Expect from a State-of-the-Art TCD System and Much More...

Experience the Power of the Dolphin, with Options Never Seen Before!

- >> Scroll back in time and save Doppler spectrums from different depths along the Ultrasound beam.
- >> View a suspected emboli travelling along the blood vessel
- >> Operate the Dolphin with a single operation button
- >> Receive immediate statistical database information
- >> Add a picture of the pathology to the examination report
- >> Complete network connectivity and cybersecurity solutions
- >> And much more!

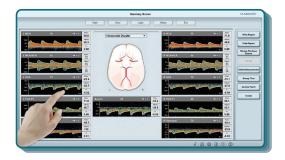
Highly Advanced Doppler Processing

- >> Spectrum, M Mode & Sound replay at any depth!
- >> Complete Raw Data for post processing
- >> Multi Depth support
- >> Velocity Profile diagnosis

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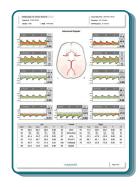
Friendly User Interface

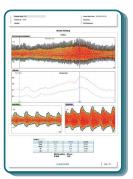
- >> One Key Operation
- >>> Designed for Touch Screen
- >> Unlimited Flexible Protocols
- >> Configurable **Display**
- >>> Dynamic Reporting
- >> Language support



Complete Network Solution

- >> DICOM Worklist and Storage
- >>> Programmable Structured Report
- >> HL7 Interface
- >> GDT Connectivity
- >> Unlimited Review Stations
- Shared network database via SQL







Wireless Remote Control Wired Remote Control **Foot Switch**





Clinical Applications & Specialty Tests

The Dolphin covers the complete range of clinical examinations expected from a TCD system, with dedicated protocols and reports.

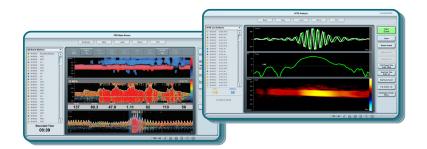
- >> Vasospasm and SAH >> HITS Detection >> Monitoring >> PFO >> VMR and Autoregulation
- >> Intracranial Stenosis >> Collateral Capacity >> Arteriovenous Malformation >> Brain Death
- >> Sickle Cell Disease >> Evaluation of ICP Changes >> Breath Holding >> Evoked Flow >> And more...

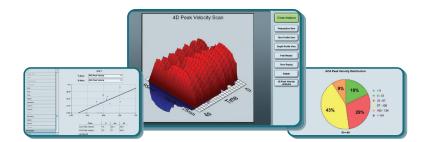
Advanced HITS Detection

- >> Fast and thorough review of all HITS
- >> High resolution HITS M-Mode display
- >> Distribution charts
- >> Complex & Energy graphs

Research Oriented

- >> Variety of export formats including Raw Data
- >> 4D velocity scan
- >> Built in **statistics** tool
- >> Informative **charts** and comparisons
- >> Data mining





Viasonix

Viasonix is the only international company that offers a wide range of advanced Peripheral Vascular and Transcranial Doppler (TCD) product lines. The company's state-of-the-art products meet common day-to-day routine clinical practice, as well as set new industry standards. Viasonix is focused on Doppler and blood flow applications, which provide dedicated clinical solutions primarily for neurology and neurosurgery departments, as well as for vascular and angiology settings. The user interface of the Viasonix product lines is internationally renowned, and we invite you to discover and experience our extremely user-friendly products.



Optional Stand

Range of Doppler Probes



Dolphin Specifications



The Next Generation TCD Standalone System



The Ideal Cost-Effective TCD Module

Dimensions	47x30x7 cm	27x21x5.5 cm
Weight	6 kg	2 kg
Computer	Integrated	External

General

Power: 110-220 V, 50-60 Hz

Doppler Frequencies: 2 MHz, 1.6 MHz, 4 MHz, 8 MHz **Intraoperative:** 16 MHz (Not for USA & Canada)

Probe Connectors: 5

Operating System: Windows 7/8.1/10 (32 or 64 bit)

Unilateral/Bilateral: Supported CW/PW Probes: Supported Probe Holder: Integrated

Controls: Wired/Wireless remote control, Touch screen,

Foot switch, Keyboard, Mouse

Dolphin/4D Integrated Computer

Screen: 18" Wide Screen LED with capacitive Multi Touch screen

VESA mount: Built in

Operating System: Windows 10 Enterprise, 64 Bit

CPU: Quad Core 2 GHz

RAM: 4 GB

Hard Drive: Enterprise Grade SSD with power loss protection

USB Connection: x4, USB 3.0

Network: Ethernet Speakers: Integrated

Dolphin/IQ Recommended Computer

Screen: 21"-24" Wide Screen with Touch Screen

CPU: i3/i5/i7 RAM: 4 GB or higher Hard Drive: 1 TB or higher

Doppler Processing

Technology: Fully digital, 8000 channels for each side **M Mode:** Dynamic up to 500 gates for selected depth range

Multi-Depth: Up to 8 spectrum depths

Replay: Spectrum, M Mode and Doppler audio at any depth Raw Data Post Processing: Depth, Gain, Scale, Sample, Filter Specialty Tests: Breath Holding, VMR, PFO, Sickle Cell,

Vasospasm, Cognitive Response **Save:** Automatic or Manual

HITS Detection: Simultaneous in multiple depths

HITS M-Mode display: 125 μs resolution

HITS Analysis Screen: with detailed events, distribution charts,

complex & energy graphs

Continuous Monitoring: Trends display including zoom in/out **Event Markers:** Automatic, Predefined, Alerts, Delta-mean

Software Features

Screen Display: Designed for wide screen and High Definition

Cybersecurity: According to FDA Guidelines **Protocols:** Unlimited, fully configurable

Main Screen Layout: Fully configurable, interactive

Summary Screens: Interactive

User Profile Settings: Unlimited, user configurable

Designed Reports: Fully configurable

Free Text Report: Templates, tables, camera & pictures, TAGS Waveform Labels: Manual and automatic with threshold display

Backup/Restore: Integrated. USB/DVD/Network

Patient Details: Flexible layout

Medical History: Configurable, with indication fields **Storage:** Configurable options, compressed data files

Camera: USB camera support

Maintenance: Automated protocol with detailed report

Languages: Supported

Connectivity

External Channels: Analog/Digital Input/Output (8/8)

Capnograph: Supported

Review Stations: Unlimited, including over network

Shared Database: Over network via SQL **DICOM Worklist:** Offline and Online

DICOM Store: BMP/JPG/PDF, multiple destinations **DICOM Features**: Auto-send, auto-retry (queue) **DICOM Structured Report:** Default/Programmable **HL7:** Orders, Report, Query, Patient Registration

GDT: Patients and Report **PDF:** Automatic Report Export

Research Options

Export: PDF, BMP, JPG, PNG, Excel, VDL, Movie, Word, RTF,

Raw Data, Anonymous PDF

Statistics: Advanced charts, Comparison graphs, X-Y Analysis Advanced Display: Velocity Profile, Depth Scan, 4D Analysis

Data Mining: Available with advanced segments

Patient History: Quick review of previous exams, patient trends screen

Database Search: Multiple advanced options

Selected Approvals

ISO 13485, CE 0344, FDA and additional country-specific approvals



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