

DolphinTranscranial Doppler

Taking TCD Technology One Step Further









Discover the Most Advanced Bilateral TCD Robot in The Market





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

- ✓ Slim design, lightweight and battery operated
- ✓ 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
- ✓ Send reports and automatic worksheets to EMR and PACS
- ✓ And much more!

Experience the Power of the Dolphin

Clinical Applications & Specialty Tests

Routine Cerebral Examinations

Stroke Management Vasospasm and SAH **Arteriovenous Malformation** Intracranial Stenosis **Collateral Capacity**

Specialty Tests

VMR / Autoregulation **Breath Holding Test** Patent Foramen Ovale (PFO) Sickle Cell Disease **Brain Death Diagnosis Evoked Flow**

Continuous Examinations

Cerebral Monitoring **Emboli Detection** Endarterectomy **Evaluation of ICP changes** Intraoperative Doppler Intraoperative TCD Monitoring

Discover the *Dolphin/XF*

The most advanced and unique bilateral TCD Robot in the market!



The Dolphin/XF TCD Robot Quickly scans the cerebral circulation and automatically assists in identifying blood flow velocities on the right and left sides of the brain. Using the **Dolphin/XF** is fast, simple and stable. Ideal for monitoring in the ICU, OR, and TCD lab, and for a range of specialty tests such as PFO or VMR tests.

Dolphin/XF Selected Features:

- ✓ Comfortable Fabric Headset
- ✓ Automatic Bilateral Scan
- ✓ Auto Search along the Ultrasound Beam
- ✓ Position Memory and Maximum Position Accuracy
- ✓ Scan Across all Depths
- ✓ "Heat Maps" Identifying Cerebral Vessels
- ✓ Simple and Intuitive User Interface
- ✓ Disposable Headset
- ✓ Fast Scan Option in just a few Seconds
- ✓ Fully Compatible with all Dolphin TCD models

Robotic Bilateral Scan





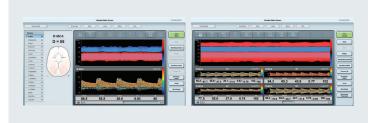
Range of Accessories





External Channels Wireless / Wired Connection Box Remote Control

Foot Switch

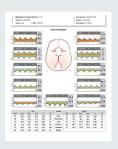


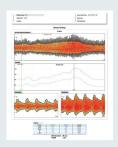
Highly Advanced Doppler Processing

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

User Friendly Interface

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



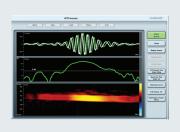


Complete Network Solution

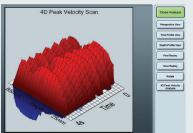
- ✓ EMR & PACS Connectivity
- ✓ **DICOM** Worklist and Storage
- ✓ Programmable Structured Report
- ✓ HL7 Interface
- **✓ GDT** Connectivity
- ✓ Unlimited Review Stations

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

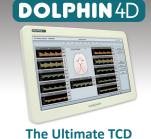
✓ Data mining

About Us

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.









The Ultimate TCD The Ideal Cost-Effective Standalone System TCD Module

| Dimensions | 47x30x7 cm | 47x30x7 cm | 27x21x5.5 cm |
|------------|-----------------------|------------|--------------|
| Weight | 6 kg | 6 kg | 2 kg |
| Computer | Integrated | Integrated | External |
| Battery | Internal Rechargeable | No | No |

General

Power: 110-220 V, 50-60 Hz

Dolphin/MAX Battery Operation Time: Up to 6 hours **Doppler Frequencies:** 2 MHz, 1.6 MHz, 4 MHz, 8 MHz **Intraoperative:** 16 MHz (Not for USA & Canada)

Probe Connectors: 5

Operating System: Windows 7/8/10/11 (32 or 64 bit)

Unilateral/Bilateral: Supported CW/PW Probes: Supported FFT Size Options: 64/128/256/512

Probe Holder: Integrated

Controls: Wired/Wireless remote control, Touch screen,

Foot switch, Keyboard, Mouse

Dolphin/MAX and 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/RAM: Quad Core 2 GHz, 8 GB

Hard Drive: 1 TB or higher 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/RAM: i3/i5/i7, 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

Auto-Depth: Supported

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

HIPAA: Patient privacy options

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, Manual/Automatic

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 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

Email: With PDF attachment, using SMTP

Network Queue: Send reports while network is offline

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 K202742 Additional country-specific approvals

