Dolphin
Transcranial Doppler

Taking TCD Technology One Step Further

DOLPHIN*MAX*

Battery Operated TCD System

DOLPHIN*4D*

Standalone TCD System

DOLPHIN*IQ*

TCD Module

Discover the Most Advanced Bilateral TCD Robot in The Market

DOLPHIN*XF*
TCD Robot

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	Specialty Tests	Continuous Examinations
Stroke Management	VMR / Autoregulation	Cerebral Monitoring
Vasospasm and SAH	Breath Holding Test	Emboli Detection
Arteriovenous Malformation	Patent Foramen Ovale (PFO)	Endarterectomy
Intracranial Stenosis	Sickle Cell Disease	Evaluation of ICP changes
Collateral Capacity	Brain Death Diagnosis	Intraoperative Doppler
	Evoked Flow	Intraoperative TCD Monitoring

Discover the *Dolphin/XF*
The most advanced and unique bilateral TCD Robot in the market!
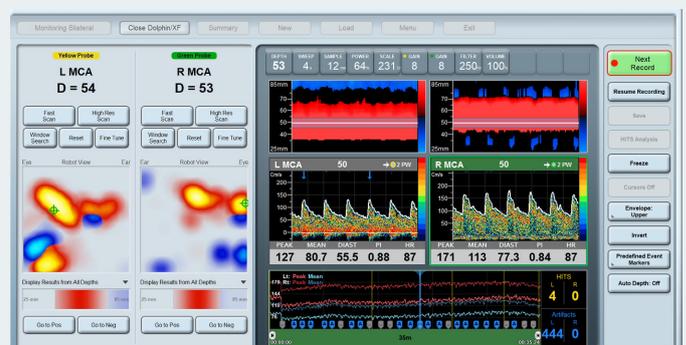
DOLPHIN XF
TCD Robot

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.
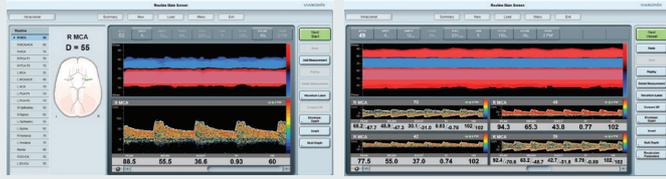
Dolphin/XF Selected Features:

- ✓ 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

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. Viasonix is focused on Doppler and blood flow applications, which provide dedicated clinical solutions primarily for vascular and angiology departments, as well as neurology and neurosurgery settings. The user interface of the Falcon and Dolphin product lines is internationally renowned, and we invite you to discover and experience our extremely user-friendly products.
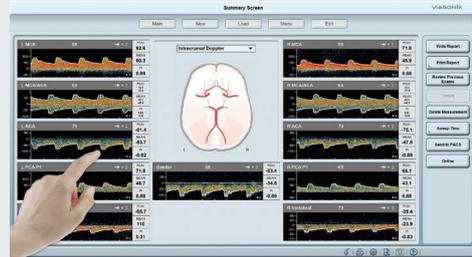
Highly Advanced Doppler Processing

✓ 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**
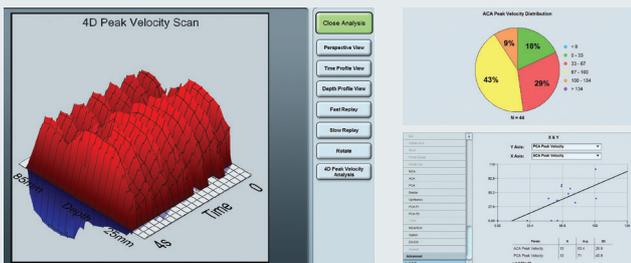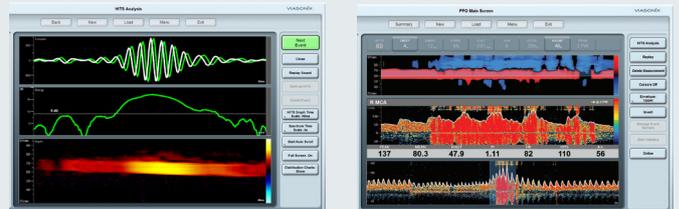✓ Dynamic **Reporting**
✓ **Language** support

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**

Selected Dolphin Accessories

Range of Doppler Probes

2 MHz Monitoring   2 MHz   4 MHz   8 MHz   16 MHz

Monitoring Headset

External Channels Connection Box
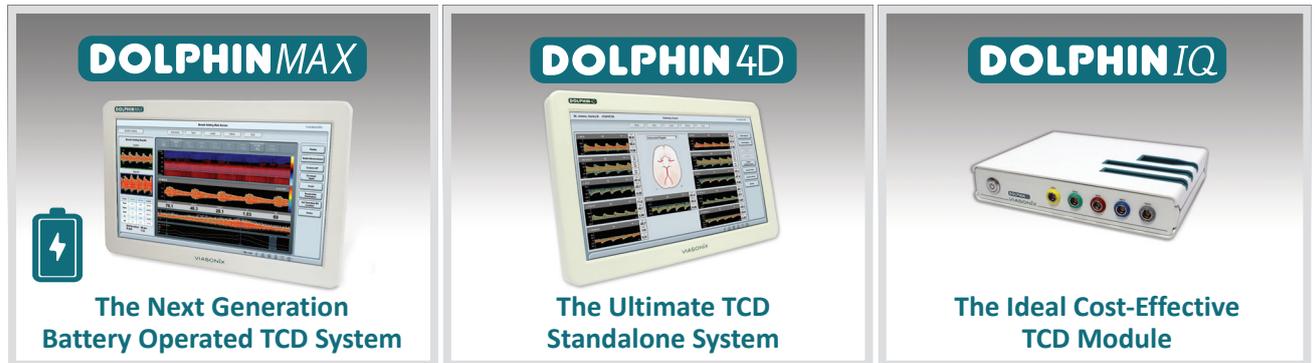
Wired and Wireless Remote controls

Foot Switch

Optional Stand

Dolphin Specifications

DOLPHIN*MAX*
The Next Generation Battery Operated TCD System

DOLPHIN*4D*
The Ultimate TCD Standalone System

DOLPHIN*IQ*
The Ideal Cost-Effective TCD Module

	DOLPHIN MAX	DOLPHIN 4D	DOLPHIN IQ
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 11 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