

Dolphin Transcranial Doppler

Taking TCD Technology One Step Further

DOLPHINMAX

Battery Operated TCD System

DOLPHIN4D

Standalone TCD System

DOLPHINIQ

TCD Module



Discover the Most Advanced Bilateral TCD Robot in The Market




DOLPHINXF
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

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!

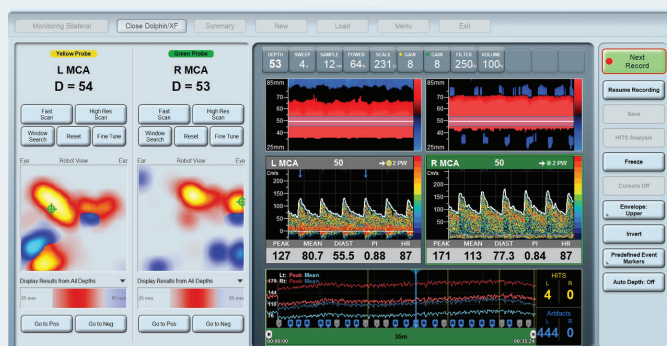


The *Dolphin/XF* TCD Robot Quickly scans the cerebral circulation and automatically assists in identifying blood flow velocities on the right and left sides of the brain. Using the *Dolphin/XF* is fast, simple and stable. Ideal for monitoring in the ICU, OR, and TCD lab, and for a range of specialty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



Monitoring Headset



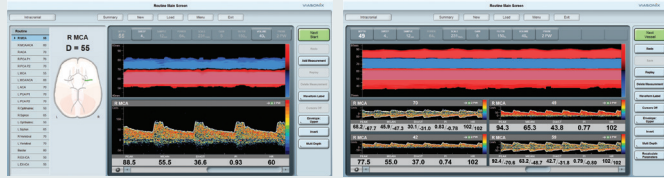
External Channels
Connection Box



Wireless / Wired
Remote Control



Foot Switch

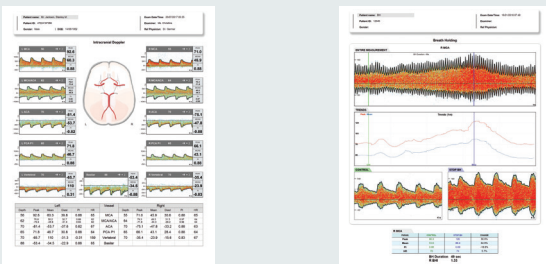
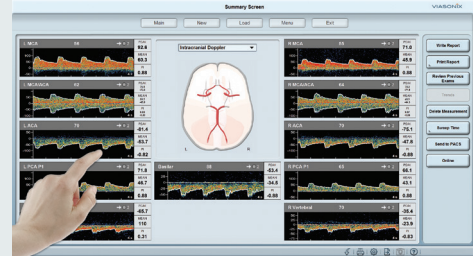


Highly Advanced Doppler Processing

- ✓ 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

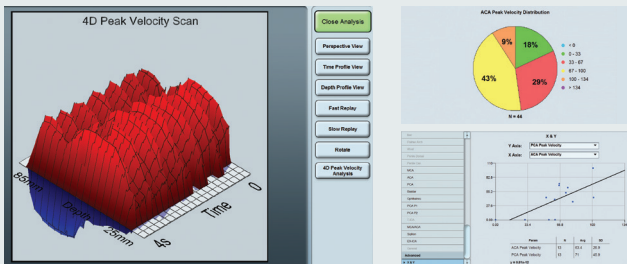
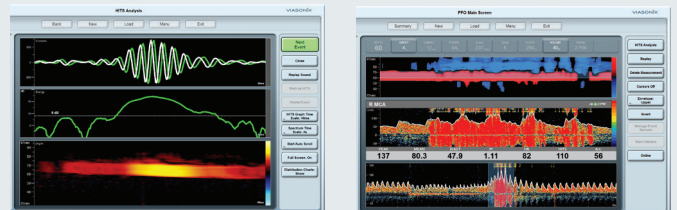


Complete Network Solution

- ✓ 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.



Range of Doppler Probes



2 MHz Monitoring

2 MHz

4 MHz

8 MHz

16 MHz


Dolphin Specifications

DOLPHINMAX



The Next Generation Battery Operated TCD System

DOLPHIN4D



The Ultimate TCD Standalone System

DOLPHINIQ



The Ideal Cost-Effective 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