

RIMED 
For your peace of mind

Providing accurate and reliable complete neurosonology systems
for diagnosis and monitoring of the cerebral circulation

Since 1982



Digi-One™

The number **One** portable Transcranial Doppler
that follows you anywhere

Digi-One™

Digi-One™ is a small, lightweight, portable uni-lateral digital transcranial Doppler (TCD) system with an advanced M-mode display, very high grade of innovation and a new modern ergonomic design which can be connected to any external windows based PC

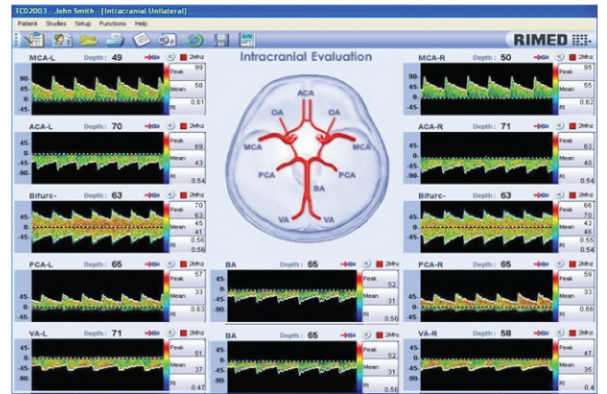
Digi-One™ provides an easy to use and complete uni-lateral diagnostic solution for doctors in motion at their hospital departments, private clinics and offices

Digi-One™ measures the blood flow velocity in the main cerebral arteries non-invasively for circulation diagnosis and emboli detection using the well-known, well established and user friendly Rimed TCD software application

Digi-One™ Key Features & Benefits

- Most portable, small and lightweight, less than **One** Kg.
- Software is user friendly, intuitive and easy to operate.
- High resolution Doppler M-mode display enables to measure throughout all the depth range for the fastest detection and identification of blood vessels.
- Up to 8 different Doppler spectrum windows displayed simultaneously representing 8 different depths.
- Dedicated Silicon probe basket, can be removed and washed from remaining ultrasound gel.
- Offers an optional imaging probe for complete and accurate color flow imaging of the Carotid system.
- Advanced 2-layers reporting system:
 1. Editable Summary Screen enabling the comparison between the Doppler spectrums received from the right and the left sides of the brain.
 2. Final Patient Report, consisting of several modules, provides a detailed and customized comprehensive report for the referring physician.
- Very high Doppler sensitivity for pathologies detection.
- Dedicated and well established emboli detection software.
- Offers a complete range of probes including 2 MHz, 4 MHz, 8 MHz and 16 MHz probes, each with a separate connector.

First layer report - Summary screen



Second layer report - Final patient report

15/12/01

Kivrot Hospital
Neurology Department
Dr. Hadas

TCD Examination: Intracranial (Unilateral)

Patient Details

Examination Date and Time: 15/02/01 09:17
 ID: 123456
 Sex: Male
 Last Name: Smith
 Age: 71
 Middle Name:
 First Name: John
 Home Phone:
 Cellular Phone:
 Work Phone:
 National ID:
 Reason For Examination:

Patient History

Smoking: No
 Alcohol: No
 Diabetes: No
 HTA: No
 Atherosclerosis: No
 CVA: No
 Arterial Stenosis: No
 Coronary By Pass: No
 Symptomatic Cerebral Thrombo: No
 Asymptomatic Cerebral Thrombo: No
 Prosthetic Heart Valve: No

Examination History

Date: 15/02/01
 Time: 09:17
 Reason: Unilateral (Unilateral)

Left Side						Right Side					
Depth (cm)	Peak (cm/s)	Mean (cm/s)	P.A. ratio	BTTS ratio	BTTS center	Depth (cm)	Peak (cm/s)	Mean (cm/s)	P.A. ratio	BTTS ratio	BTTS center
MCA	50	100	1.00	1.00	1.00	50	75	45	0.98	0.9	MCA
ACA	65	45	0.65	0.65	0.65	65	45	0.65	0.65	0.65	ACA
Bifurc	25	50	0.50	0.50	0.50	25	50	0.50	0.50	0.50	Bifurc
PCA	45	35	0.75	0.75	0.75	45	35	0.75	0.75	0.75	PCA
VA	52	50	0.96	0.96	0.96	52	48	0.92	0.92	0.92	VA

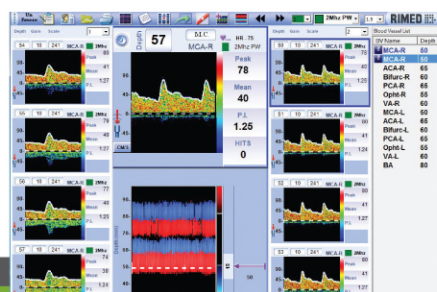
Median

Depth (cm)	Peak (cm/s)	Mean (cm/s)	P.A. ratio	BTTS ratio	BTTS center
BA	85	45	0.56	0.56	0.56

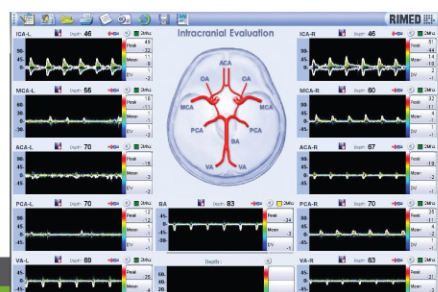
Indication: 15/02/01 09:08 AM - TIA
 Interpretation: 15/02/01 09:12 AM - No pathological findings.
 Signature:

RIMED For your peace of mind www.rimed.com

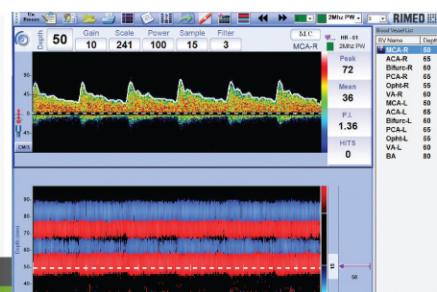
One combined report for both TCD & color flow imaging studies.



8 spectra uni-lateral



Summary screen-Brain death



Uni-lateral with single spectrum & M-mode

Clinical Applications

The Digi-One™ offers a complete array of transcranial Doppler studies to address the following applications:

- Diagnosis of extracranial and intracranial stenosis and occlusion.
- Quick Brain death diagnosis & assesment.
- Detection and follow up of vasospasm following aneurismal subarachnoid hemorrhage.
- Screening children with sickle cell disease.
- Detection and counting of emboli.



Technical specifications:

Doppler	
True Digital Doppler with M-Mode	
M-Mode	starting from 64 gates per channel
Probes - All probes supported by M-mode	2 MHz (PW), 4 MHz (CW/PW), 8 MHz (CW/PW), 16 MHz (PW)
Optional Carotid color flow imaging module	(Digi-Lite™ IP) linear 5-10 MHz
Multi-gating	up to 8 spectral windows
No. of probe connectors	4
Full record & replay of Spectrum+Sound+M-Mode	
Display	
Depending on PC	
PC	
Operating system	Windows 7™ or higher
RAM	depending on PC
Hard disk	depending on PC
Connectivity	depending on PC
Reports 2-layer	
Can be exported as Excel, PDF, Word, RTF	
Interactive summary screen	
Final patient report	
Dedicated studies	
Main diagnostic software	
Intra-operative 16 MHz software	
Offline software	
Carotid imaging (Digi-Lite™ IP) software	
Regulatory	
Certified ISO 13485:2012	
CE 0473	
CE safety class II type BF. MDD class IIa. EN 60601-1, EN 60601-1-2	
External power supply	50~60Hz wide range 100~240VAC medical grade.
General	
Printer	any Windows compatible printer
DICOM connectivity	
Portable	
Weight	1 kg
Dedicated carrying case	
Integrated, removable and washable probe basket	



Company Profile

Rimed was established in 1982. Since then the company has been developing manufacturing and exporting 7 generations of non-invasive Vascular & Transcranial Doppler systems.

Rimed introduced into the market the first PC-based Peripheral Vascular Doppler and was also the first to introduce the customizable "summary screen" concept which has since been adopted by other companies.

The company now offers a new line of digital transcranial Dopplers (Digi-Lite™ and Digi-One™) with M-Mode as well as an optional Carotid color flow imaging module. With over 4,000 installations worldwide, mainly in neurology departments and stroke units, Rimed has become a reputable brand name in the field of transcranial Doppler (TCD) technology.

Rimed's line of products carry all international certificates: CE, ISO 13485:2012, FDA, SFDA, KFDA.

Rimed's long standing expertise, knowhow and financial stability, over the past 3 decades, has made it the dynamic and innovative company it has become, developing advanced diagnostic systems at the forefront of medical technology.



Rimed Ltd.
25 Hacharoshet St. | P.O.Box 2402
Industrial Park Raanana | 43000 Israel
Tel: +972-9-7484425 | Fax: +972-9-7484417
e-mail: admin@rimed.com www.rimed.com



Specifications are subject to change without notice.
Microsoft® Windows™ is a trademark of the Microsoft Corporation.
File no. 26006 REV-0

Visit Our Website

