Transcranial Doppler System (TCD)

EMS-9F

Delica EMS-9F is a full digital TCD box. With a series of outstanding features of high sensitivity doppler signal, unique robotic probe technology, and customized user interface layout. It is smart, flexible, and safe for cerebral diagnosis and monitoring.

Clinical Applications

- Detection and monitoring of vasospasm following subarachnoid hemorrhage (SAH)
- Screening for Sickle Cell Disease
- Diagnosis of Brain Death
- Evaluation of Vasomotor Reserve (CO2/VMR Reactivity)
- Detection of Patent Foramen Ovale (PFO)
- Detection of Cerebral Microemboli
- Detection of Acute Ischemic Stroke
- Intracranial Steno-occlusive Disease
- Monitoring in ICU
- Monitoring for Carotid Endarterectomy (CEA)
- Monitoring for CABG (Cardiac)
- Monitoring for Trans-Aortic Valve Replacement (Cardiac)

Scientific Research

Non-invasive Evaluation of ICP trend with Cambridge ICM+ Software

Technical Specification

EMS-9F TCD Module Box

Nr. of inputs	Nr.5 inputs: nr. 3 manual probe of 1.6/2 PW probe, and 4/8 CW probe. Nr. 2 for robotic probe connection.
Dimension	337mmx215mmx 62mm (Lx W x H)
Weight	1.20±0.2Kg(without accessories)
Input	+12V, -12V, +5V DC
Power	60VA
Probe channel	Unilateral/Bilateral channel
PC recommendation	Operating System: windows10/windows11 Screen:15-24 wide screen with touch screen CPU/RAM: Core i5 or better, 4GB or better Hard disk: 500GB or better
Supported Probe Frequency	1.6/2MHz PW; 4MHz/8MHz CW&PW
Velocity Units	Cm/s or KHZ
M mode resolution	128 depths combined into 8000 gates

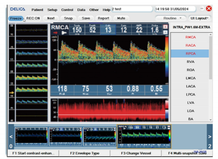
Multi-depth display	up to 12 spectrum window displays
PRF (scale)	up to 722 cm/s
Filter	0-2700 Hz
Software Feature	User defined ; remote control; Dicom; Uni-lateral/Bi-lateral monitoring; Montoring trend and spectrum; HITS detection; Multiple database support; AVI recording; CO2/VMR module
Report format	BMP, XML, PDF, DOC and XLS
Connectivity	8 Analog input/output/digital output DICOM worklist DICOM store DICOM structured report HL7
Regulatory Approvals	ISO 13485 IEC60601 / IEC61010 CE FDA

Note: Specifications are subject to change without notice.

Feature

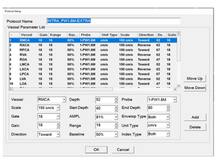
• High Sensitive Doppler

With advanced digital doppler technology, the system can detect vessel signals easily and obtain high quality spectra even working at very low power and small sample volum, which also improves the accuracy for vessel location and reliability for vessel identification.



• User Friendly Interface

The EMS-9F has a configurable GUI (General User Interface), for all examination protocols and procedure. Setting can be predefined according to customized layout. Such as user defination of veseel sequence and parameter.

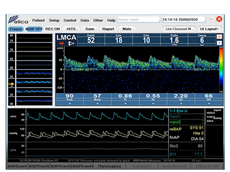


• Multi-depth Window

Up to 8 spectra at various depths can be simultaneously displayed with the M-Mode display.

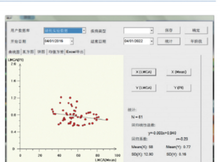
• Professional Monitoring Software

Up to 8 analog input signals can be added and analyzed synchronously. With the TCD indices in monitoring for TCD diagnostics, intra-operative and Intensive care unit use. It has CO2 monitoring and VMR testing for the determination of vasomotor reactivity and reserve of cerebral blood circulation to changes in arterial pCO2.



• Powerful data Statistics and report function.

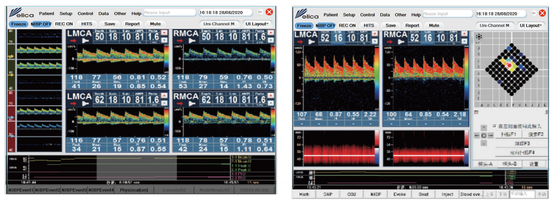
Powerful data statistics and analysis, with DICOM restoration and DICOM modality worklist, the report system can generate reports in BMP, XML, PDF, DOC, XLS, etc.



Transcranial Doppler Ultrasound System.

Features

- **Innovative Robotic Probe Technology**



2nd generation of robotic probe technology for bilateral long-term monitoring. Auto-tracking and restoring Doppler signal. Cerebral vessels can be tracked for hours automatically without loss of signal.

- **Advanced Emboli Detection Software**

It offers a better algorithm for distinguishing between solid and gas embolus including a soundtrack, a HITS history review, intelligent HITS analysis and HITS count function.

DELICA

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TRANSCRANIAL SERIES

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