

We always concentrate on neuro medical field!

## ABOUT US ▶

Shenzhen Delica Medical Equipment Co., Ltd. was established in 1998. Delica has independent intellectual property rights and it has 15 authorized invention patents at present. Delica is always focusing on neurology medical equipment product research and development, production, marketing and sales, especially in Transcranial Doppler (TCD), Multi-functional Vascular Ultrasound System (MVU), and Digital Electroencephalogram etc.

After 20 years, Delica's products are becoming more and more extensive in application of academic research, and the number of published academic articles which had used Delica equipments from domestic and abroad are also increasing.

The company's Transcranial Doppler (TCD) series products reach the international leading level with CE and FDA certification; a large number of products were sold to the tertiary referral hospitals and were exported to Europe and the United States. Nearly 10,000 domestic users in China, and the international market share is in the top two. The market share among the best in 2016 which included China, the United States, South Korea, the Netherlands, Hong Kong and other countries and regions.

## EMS-9F

Transcranial Doppler Ultrasound System(TCD)



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PY(EMS-9F)20171200EN



## EMS-9F

Transcranial Doppler Ultrasound System(TCD)





# EMS-9F Transcranial Doppler Ultrasound System(TCD)

## FEATURES

### 1. Higher Sensitive Doppler

With advanced digital technology, the system can detect vessel signals easily and obtain high quality spectra even working at very low power with improved safety.

### 2. Higher Velocity Limit

The maximum detectable velocity is up to 750cm/s for the MCA at the depth of 50mm. This eliminates the anti-aliasing problem present in most TCD units and improves the accuracy for measuring high velocity for vasospasm patients.

### 3. Multi-channel

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



### 4. Dynamic M-mode

Real-time recording of examinations can be fully stored as raw data and replayed - spectrum (including multi-depth spectrums) + sound + M-Mode-related events (including HITS events).

Enhanced Dynamic M-Mode for all the probes and the study types allows reviewing spectra and re-calculating indices offline for all depths of the M-Mode window.

### 5. Real two channels

All the control parameters including Depth, Gain, Gate, AMPL and Scale can be adjusted respectively.

### 6. 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 use. It has CO<sub>2</sub> monitoring and VMR testing for the determination of vasomotor reactivity and reserve of cerebral blood circulation to changes in arterial pCO<sub>2</sub>.

### 7. Advanced Emboli Detection software

It offers a better algorithm for distinguishing between solid and gas embolus including a soundtrack and a HITS history.

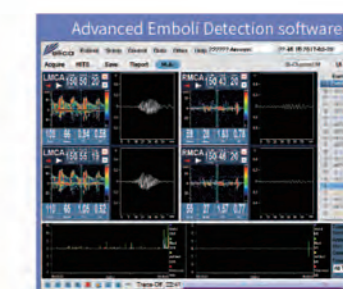
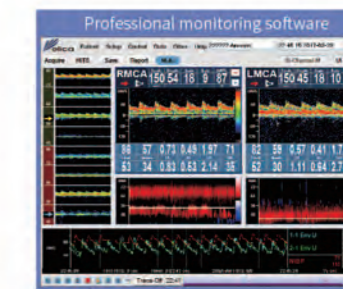
### 8. Professional reporting system

With DICOM restoration and DICOM modality work list, the report system can generate reports in BMP, XML, PDF, DOC, XLS and etc. With powerful statistics function, the system provides convenient data reduction for clinical research.

### 9. Innovative Robotic Probe Technology

Auto-tracking and restoring Doppler signal. Cerebral vessels can be tracked for hours automatically without loss of signal.

### 10. Display and output the value of IWM, Peak and Power simultaneously.



### • Routine diagnosis application

Regularly diagnosis for the status of cerebral arteries, auto-regulation, cerebral pressure and brain death. Detection of vasospasm and embolus. Diagnosis of intracranial stenosis and occlusion.

### • Monitoring application

Cerebral blood status monitoring, Embolus detection, PFO test and IOM in neurosurgery. Evaluation and monitoring of intracranial blood flow during surgical procedures.

### • Other application

Compatible with ICM+, providing multimodal neuro monitoring sources that helping doctors and researchers analyze the status of patient.



### Intelligent:

Intelligent: Various Intelligent & smart system, such as scene detection, voice prompt and guidance, and experiment result division in PFO test.



### ICM+:

ICM+ Compatibility: Collaborate with University of Cambridge, offering high-resolution data collection and real time analysis from multimodality.