

DIAMED

ESR 2010

V4.0

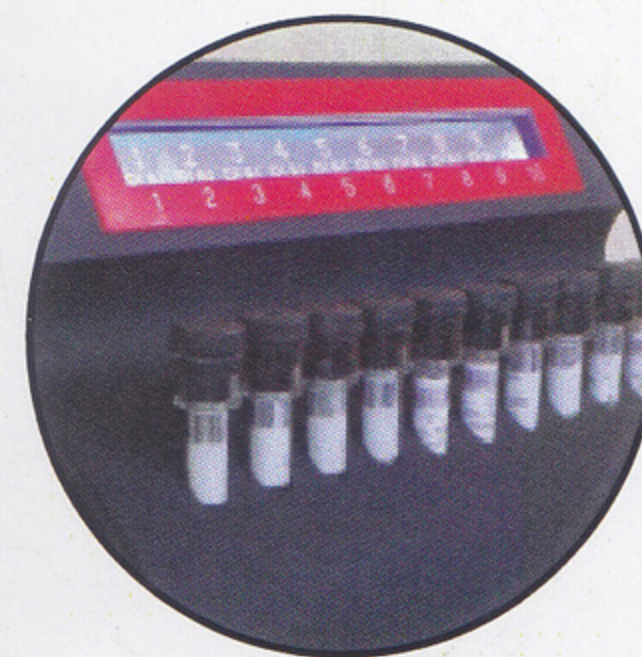
Random Access Automated Erythrocyte Sedimentation Rate Analyzer



Easy
&
Economical
Plug in & start testing



Smart
&
Safe
Load specimen tube



Rapid
&
Reliable
Results in 30 minutes

FEATURES & BENEFITS

Smart Technology

- Modern Infra Red microtechnology
- Robust performance & greater efficiency
- Real time detection of specimens
- Real time measurement and reporting of results
- Temperature compensation
 - Automatic compensation referred to 18°C (Manley)
- Modified Westergren ESR result in mm/hr (by interpolation)

Ease of Use

- Easy Start up
 - Simply plug into an on-line UPS and start testing
- No training required : No special expertise required
- Fully automated
 - Auto start of measurement
- Quick Turn-around time : Easy set up of tests
 1. Add specimen to tube
 2. Place tube in analyzer
 3. Results within 30 minutes

Complete flexibility

- Random access analyzer
 - Use any open chamber to automatically measure, time and report result
 - Provides convenience and flexibility to run tests at anytime and in any order
 - No batching of samples
- Each reading chamber individually timed for results

Quality and Reliability of Results

- Reliability of Results
 - Good correlation to 1 hour modified Westergren method
- Excellent reproducibility (CV of 5%)
- Accuracy and Consistency of Results

Productivity Advantage

- Measuring time : 30 minutes
- 20 tests per hour
- Optimization of Lab Workflow Network capability
- Stylus Printer* helps automatically prints patient results eliminating transcription errors
- Data Management Software (DMS**) for easy management
- Compact size desktop analyzer thus minimal space required

Advanced features

- Graphical printout of results, if it is connected to a StylusPrinter* (which is optional)

Safety of Handling

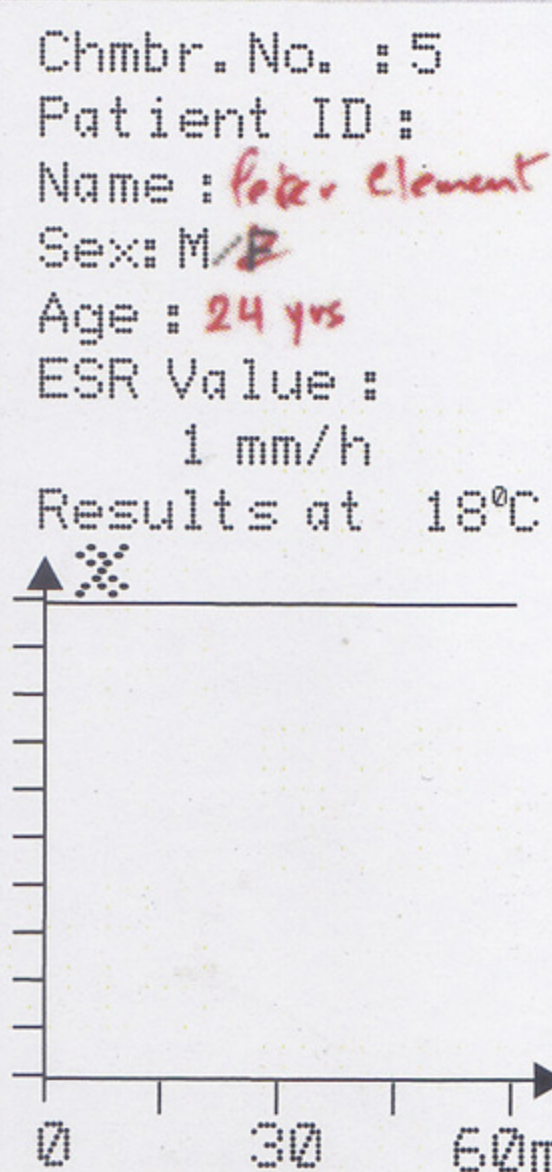
- Reduced contact with potentially infectious and hazardous blood specimen
- Completely "Closed Analysis System" (while using Vacuum ESR tube for testing) prevents the user from potentially hazardous blood specimen

No Service Maintenance

TECHNICAL SPECIFICATIONS

▪ Application	: Blood Sedimentation Rate Analysis
▪ Loading Capacity	: Maximum 10 samples
▪ Loading Pattern	: Random Access
▪ Reading chambers	: 10 (ten)
▪ Analytical capacity	: Maximum 20 tests/hour
▪ Loading capacity	: Maximum 10 samples at a time
▪ Analysis time	: 30 minutes
▪ Throughput	: 20 specimens per hour
▪ Results	: As Westergren mm/hour (by interpolation)
▪ Test Tube	: 1.1ml-1.28 ml blood
▪ Temperature correction	: Results autocorrected to 18°C (Manley method)
▪ Measurement principle	: Infrared (IR) detection
▪ Reading resolution	: +/-0.2 mm (Mechanical/Optical precision - detection by software controlled by encoder resolution)
▪ Result resolution	: +/- 1 mm
▪ Blood draw level	: + 4 mm / -10 mm from acceptable range
▪ Measurement range	: 1 - 140 mm/hr
▪ Reproducibility	: C.V <5% (sample dependent)
▪ Display	: LCD 40 x 2 with back-light
▪ Interface	: LPT for printer# & RS 232 for Computer
▪ Dimensions (w x h x d)	: 22 cm x 21.6 cm x 17.5 cm
▪ Operating conditions	: Temperature 15°C ~ 31°C Humidity 45% ~ 85%
▪ Weight	: ~ 2.5 kg
▪ Power Adaptor	: Input 110-220V AC 50/60 Hz Output 5V 3A
▪ Power for Analyzer	: Input 5V 3A
▪ Software	: Integrated according to software version
▪ ESR tubes	: 8*120mm, 1.6ml Vacuum/Non-vacuum ESR
▪ Conformity	: ISO 13485:2003 & CE

*Technical Specifications, Colour are subject to change without prior notice.



(Printout of ESR result when using the optional Stylus Printer)

*Stylus Printer is an Optional Accessory

** DMS is only available to registered users of the ESR Analyzer

We strongly recommend use of 8*120m, 1.6ml Vacuum ESR tube for testing



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Live Demo of the ESR Analyzer on your mobile:

Point your mobile phone's browser to <http://f2k.mobi/app/>
and download the Code Reader.

Launch the application on your smart phone, then hover
your mobile camera over the code to see a live demo
movie of ESR 2010, Automated Erythrocyte Sedimentation
Rate Analyzer, on your mobile browser.