

# TECHNICAL SPECIFICATIONS

## For iSED® ELITE Automated ESR Analyzers and iSED Analyzers with Serial Numbers >5000



The iSED®/iSED® ELITE is a compact fully automated erythrocyte sedimentation rate (ESR) analyzer that is highly correlated to the Westergren method and significantly improves laboratory efficiency by reducing hands-on time and turnaround time required for testing.

### Device Specifications

<b>Device Description</b>	Automated benchtop analyzer for the determination of erythrocyte sedimentation rate of human whole blood
<b>Principle of Measure</b>	Capillary Photometry
<b>Dimensions (D x W x H)</b>	35 x 27 x 36 (cm) / 13.78 x 10.63 x 14.17 (in), Includes sample return tray
<b>Weight</b>	12.1 kgs; 26.7 lbs
<b>Analytical Range</b>	1-130 mm/hr
<b>Test Time</b>	20 seconds
<b>Time to First Result</b>	3 minutes onboard mixing time, 20 seconds
<b>Results</b>	Results are reported in mm/hr and can be printed, stored in the analyzer, and/or transmitted to the LIS
<b>Supported Languages</b>	English, French, Italian, German, Spanish, Portuguese (Portugal and Brazil), Russian

### Sample Handling

<b>Test Throughput</b>	Up to 180 tests/hour
<b>Sample Capacity</b>	20
<b>Random Access</b>	Yes
<b>Primary Tube Sampling</b>	Yes (primary tubes must be capped)
<b>Sample Type</b>	K2/K3 EDTA whole blood
<b>Supported Tubes</b>	13 x 75 mm and pediatric EDTA with pierceable caps
<b>Mixing</b>	Automated onboard mixing
<b>Sample Volume</b>	Approximately 500 µL (varies by primary sample tube)
<b>Analytical (Aspirated) Volume</b>	100 µL

### Maintenance

<b>Daily</b>	None required by manufacturer
<b>Preventive</b>	Deep Clean (automated process every 30 days or 1,000 samples), tubing changes as needed

### General Specifications

<b>Power Supply</b>	Transformer: 100-240 VAC 50/60Hz; Device 24VDC, 2.5A
<b>Power Consumption</b>	60W
<b>Wash Requirements</b>	None; onboard
<b>Drain Requirements</b>	None; onboard
<b>LIS Connectivity</b>	LAN TCP/IP or Serial RS-232 DB9 port
<b>Barcode Reader</b>	Internal
<b>Printer</b>	Internal
<b>Operating Environment</b>	10° - 30° C (50° - 86° F)
<b>Storage/Transport Environment</b>	-20° - 65° C
<b>Humidity</b>	15% - 85% (non-condensing)
<b>Frequency</b>	50-60 Hz
<b>Overvoltage Classification</b>	Category I
<b>Operational Altitude</b>	Up to 4000 meters
<b>Storage Altitude</b>	Up to 4000 meters
<b>Degree of Pollution</b>	2
<b>Compliance</b>	Complies with international environmental, health & safety standards, including CE & RoHS

<b>Restrictions</b>	For Professional Use Only
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### Quality Control/Calibration

<b>QC Material</b>	SEDITROL® Quality Control: Bi-level, human-based, whole blood controls in ready-to-use, barcoded tubes, 4.0 mL test tubes
<b>Refrigeration</b>	Not Required
<b>Shelf Life</b>	Up to 18 months, room temperature
<b>Open Vial Stability</b>	Up to 60 days, room temperature
<b>Quality Assurance Program</b>	iQAP Peer Reviewed Quality Assurance Program available
<b>Calibration</b>	Not required

## ORDERING

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## SERVICE AND SUPPORT

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