

ECL 760[®]

**Advanced Fully Automated
Random Access Coagulation Analyzer**



Erba Coagulation Line



ECL 760

Advanced Fully Automated Random Access Coagulation Analyzer

72 cuvette holder with an option to start from any position.

27 sample position rack system, with continuous loading

23 reagent holder with capability of cooling and stirring

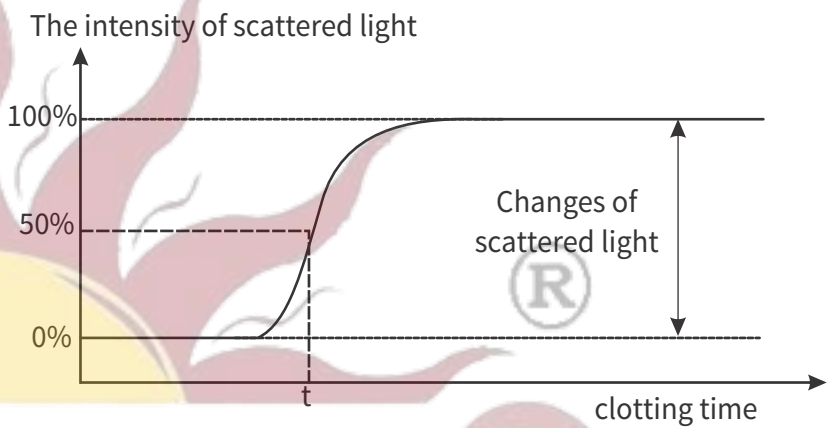
7 Channel LED detection system

Graphical color touch screen

In-built Thermal Printer



Proven Principle Of Clot Detection



ECL 760 uses the proven system of percentage intensity of light scatter at 640 nm LED.

This optical system ensures early light stability, longer duration usage time and greater lamp life. It minimizes the interference of hemolysis, ictericity and lipemia, in samples at each assay. The system monitors the entire clotting process from reagent addition to complete clot formation with the generation of Clot curve.

All clotting tests, such as Prothrombin Time, Activated Partial Thromboplastin Time, Fibrinogen, Thrombin time, Factors (II/V/VII/X/VIII/IX/XI/XII), Lupus and Protein S are performed.

Chromogenic Tests

Chromogenic tests use the colorimetric principle of measuring absorbance of light (405nm LED) by the test in a cuvette. Protein C and Antithrombin III are some of the tests done by this method.

Immunological Assay

The change in light intensity caused by the antigen antibody reaction is detected at 575 nm LED, as the change in transmitted light.

D Dimer is the most common test performed in this category.

Advanced Sample Management

ECL 760 has an advanced sample management system.

It can classify samples as patient, STAT and quality control. It has facility for positive sample identification, traceable to the rack and position. It informs the status of the sample in the work list. The software allows continuous loading.

Comprehensive Reagent Management

The system can accept 23 reagents, with reagent lot, expiry and reagent position details.

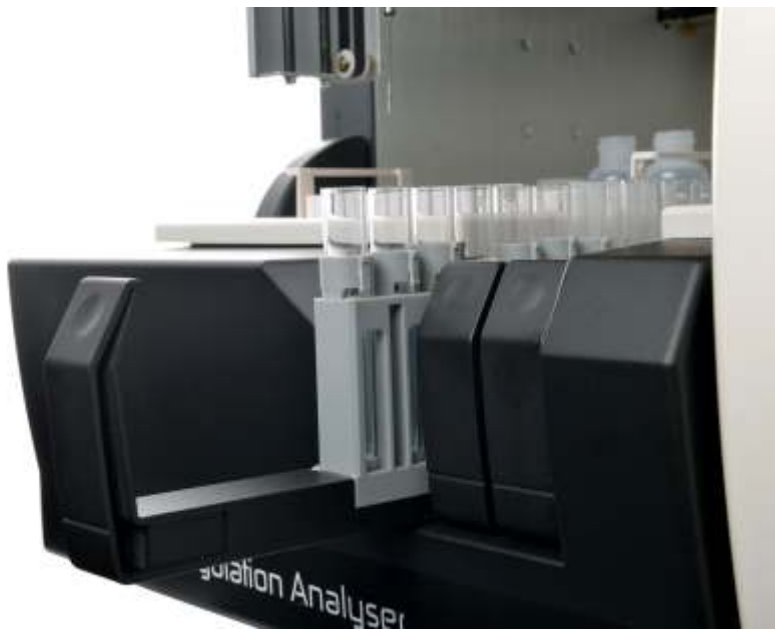
Around 20 reagents have onboard cooling and stirring function. The system can perform 10 tests per group selected. Reagent level sensing, vertical obstruction detection, sensors for Waste and Clean solutions are available on the system.

Easy-to-Use Quality Control Management

On ECL 760, at the work list, the QC material can be defined.

The laboratory can fix the QC execution frequency as per their standard protocol.

The reports are available as L-J and West guard multi-rules.



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Technical Specifications

Analyzer	Fully Automated Random Access Coagulation Analyzer
Throughput	PT : Upto 60 Tests/Hour PT, APTT : Upto 40 Tests/Hour
Principle of Detection	Clotting : Scattered Light Detection Method Chromogenic : Colorimetric Method Immunoturbidimetry : Latex Enhanced Turbidimetric Method
Detection Channels	Seven numbers
Detection optics	LED Based with 640 nm, 405 nm, and 575 nm
Incubation Channels	Eight numbers
Clot detection	Clot detection Curve monitoring
Sample ID	20 Characters custom, automatic generation possible
Units of measurement	seconds, dOD, % Ratio, INR, Dfbg
Sample Types	STAT, patient sample, control
Minimal Sample volumes	PT, APTT, TT: 50 µl; Fbg, ATIII: 10 µl; Factor Assays: 5 µl, Erba D-Dimer R: 15 µl
No. Of Sample Racks	Three
Total Number of Samples	27 numbers, continuous loading
Sample Bar code Reader	Yes
Tests per group	Ten tests
Reagents on-board	20 reagents cooled at 13-15°C. 3 reagent locations for Clean, Diluent and Buffer
Dispensing	Pre-heating probe, with level sensing and vertical obstruction detection
Calibration Mode	Manual and Automatic
Calibration	6 Calibration points
Reagent Management	Lot Number, Expiry, Reagent Name and Type, Volume monitoring
Analysis modes	Re-dilution, Re-testing, Repeat analysis
Incubation	Detector : 37°C + 1°C Sample Incubator Section : 37°C + 1°C Reagent Pipette : 37°C + 1°C
Quality Control algorithm	L-J and Multirules, 12 levels
Display	8" LCD Graphical touch screen display
Printer	Built-in printer
Operating System	Windows XP
Database	100,000 test results, 10,000 clot curves
Interface	LIS Bidirectional
Mains input	AC 100V/220V, 50Hz or 60Hz
Input power	400VA
Operational environment	10°C ~ 30°C, relative humidity ≤ 70%
Storage environment	-20°C ~ 55°C, relative humidity ≤ 85%
Dimension L x W x H	660 x 580 x 510
Weight	53 kg

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