

# ECL 760<sup>®</sup>

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

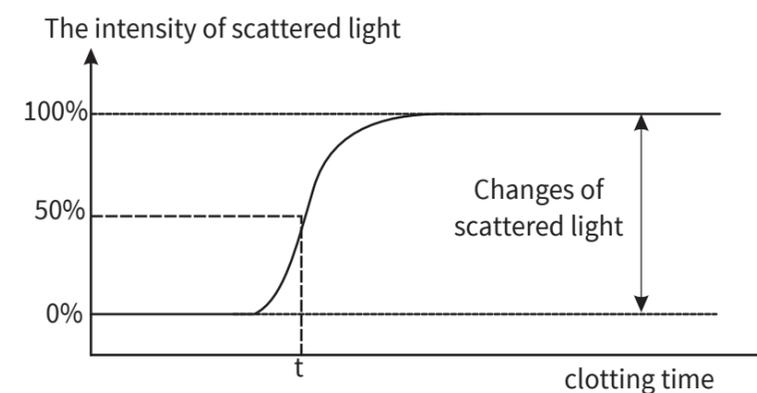
7 Channel LED detection system

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.

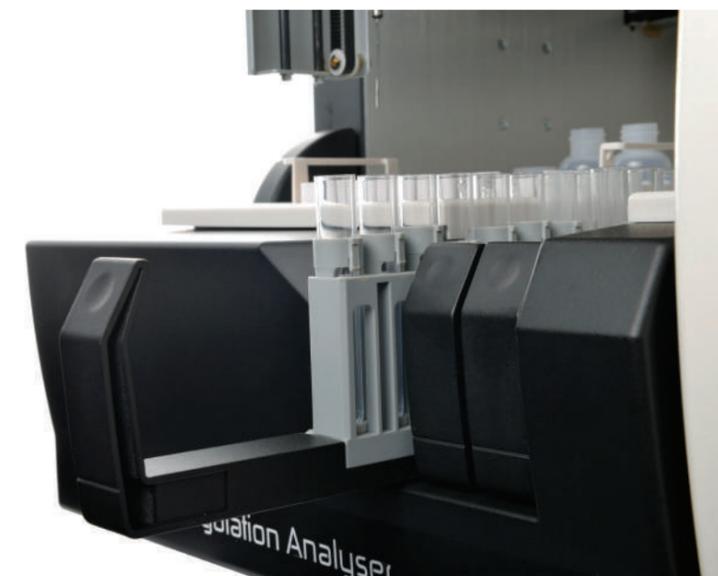
Around 20 reagents have onboard cooling and stirring function. The system can perform 10 tests per group selected. Reagent level sensing, vertical obstruction detection, sensors for Waste and Clean solutions are available on the system.

### 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

<b>Analyzer</b>	Fully Automated Random Access Coagulation Analyzer
<b>Throughput</b>	PT : 45 Tests/Hour APTT : 30 Tests/Hour PT, APTT : 35 Tests/Hour
<b>Principle of Detection</b>	Clotting : Scattered Light Detection Method Chromogenic : Colorimetric Method Immunoturbidimetry : Latex Enhanced Turbidimetric Method
<b>Detection Channels</b>	Seven numbers
<b>Detection optics</b>	LED Based with 640 nm, 405 nm, and 575 nm
<b>Incubation Channels</b>	Eight numbers
<b>Clot detection</b>	Clot detection Curve monitoring
<b>Sample ID</b>	20 Characters custom, automatic generation possible
<b>Units of measurement</b>	seconds, dOD, % Ratio, INR, Dfbg
<b>Sample Types</b>	STAT, patient sample, control
<b>Minimal Sample volumes</b>	PT, APTT, TT: 50 µl; Fbg, ATIII: 10 µl; Factor Assays: 5 µl, Erba D-Dimer R: 15 µl
<b>No. Of Sample Racks</b>	Three
<b>Total Number of Samples</b>	27 numbers, continuous loading
<b>Sample Bar code Reader</b>	Yes
<b>Tests per group</b>	Ten tests
<b>Reagents on-board</b>	20 reagents cooled at 13-15°C. 3 reagent locations for Clean, Diluent and Buffer
<b>Dispensing</b>	Pre-heating probe, with level sensing and vertical obstruction detection
<b>Calibration Mode</b>	Manual and Automatic
<b>Calibration</b>	6 Calibration points
<b>Reagent Management</b>	Lot Number, Expiry, Reagent Name and Type, Volume monitoring
<b>Analysis modes</b>	Re-dilution, Re-testing, Repeat analysis
<b>Incubation</b>	Detector : 37°C + 1°C Sample Incubator Section : 37°C + 1°C Reagent Pipette : 37°C + 1°C
<b>Quality Control algorithm</b>	L-J and Multirules, 12 levels
<b>Display</b>	8" LCD Graphical touch screen display
<b>Printer</b>	Built-in printer
<b>Operating System</b>	Windows XP
<b>Database</b>	100,000 test results, 10,000 clot curves
<b>Interference</b>	No Interference for Haemolysed, Icteric, Lipemic (HIL) samples
<b>Factor Assay</b>	Generation of Standard curve
<b>Mains input</b>	AC 100V/220V, 50Hz or 60Hz
<b>Input power</b>	400VA
<b>Operational environment</b>	10°C ~ 30°C, relative humidity ≤ 70%
<b>Storage environment</b>	-20°C ~ 55°C, relative humidity ≤ 85%
<b>Dimension L x W x H</b>	660 x 580 x 510
<b>Weight</b>	53 kg

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