

Simple, comprehensive solutions for the Hemostasis Laboratory





Routine, specialty and STAT assays on compact, convenient and easy-to-use systems.

ACL Elite Pro systems - Unique combination of process automation, maximizing walk-away time.

ACL Elite systems - Same robust testing capability for the smallest laboratories in the network.

ACLE lite PRO





- Random-access processing for minimized turnaround time
- STAT PT and aPTT available in as little as eight minutes
- Barcoded reader for reagents (standard on ACL Elite Pro system)
- Superior walk-away capacity for 40 samples and up to 260 cuvettes onboard
- STAT Interrupt and continuous sample loading for uninterrupted testing capability

- · Integrated color touchscreen
- Intuitive software streamlines system operation
- Proven and reliable mechanics for robust operation with minimal maintenance
- Comprehensive test menu makes specialty testing as simple as routine testing

Simplicity in Hemostasis testing

Sample Processing



Accommodates samples of various size and fill volume.

- Removable tray accommodates sample cups and primary tubes of varying sizes and fill volumes
- Onboard barcode reader ensures accurate sample identification
- STAT samples entered at any time in any position on the tray
- One-touch run initiates processing with the press of a button
- User-defined Reflex testing rules allow user to set lab-specific testing protocols for increased flexibility

Reagent Handling



External barcode reader identifies material and checks the lot number and expiration date.

- Accommodates up to 22 reagents
- Reagents can be aspirated directly from the vial
- All reagent positions monitored for volume and onboard stability
- Handheld barcode reader for reagent vial identification (standard on ACL Elite Pro system)

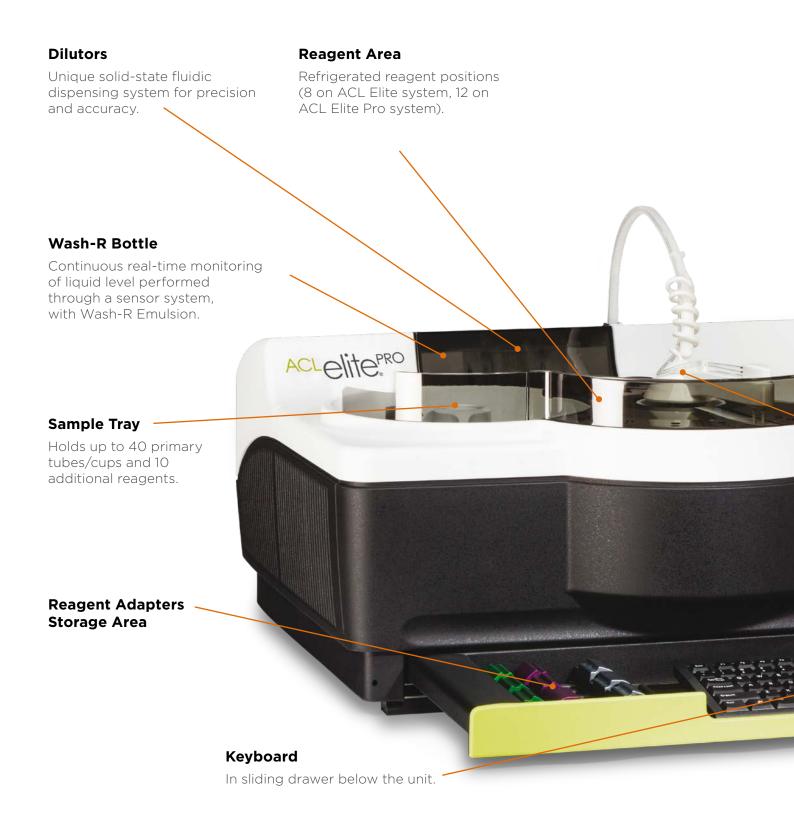
Reliability



Simple mechanics for reliable performance.

- Proven centrifugal technology
- Simple and reliable mechanics
- Minimal maintenance

Efficiency at every step





One-touch start. Screen tilts for easy positioning.

USB Flash Drive

Back-up, restore, software upgrades, export functions (*i.e.*, patient data, QC data, reaction curves) via USB drive.

Rotor Stack

Temperature-controlled, stores up to 12 rotors, which can be loaded continuously.

Analysis Area

Two channels: 660 nm for clotting assays; 405 nm for chromogenic and immunological assays.

Rotor Exchange Module

(ACL Elite Pro system only)

Cuvette flow managed by transport and robotic arm mechanisms, allowing walk-away capability.

Probe and Sensors

Two needles for sample and reagent aspiration/dispensation with capacitance liquid sensors.

Rotor Waste Container

Operator-safe and easily accessible.

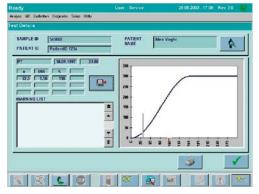
Complete quality management, simplified

Test Analysis

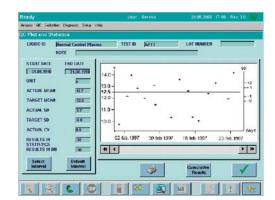
- · Centrifugal analysis provides outstanding precision
- Multiple reading systems optimize efficiency
- Continual monitoring of reagents, rotors, solutions and waste area for efficient lab operations
- Automated rotor transport from preheat station to analysis area (and when rotor is completely used, to waste bin) for increased walk-away capability*

Software Capabilities

- Clot-signature curves generated through superior optics provide clotting and absorbance tracking for all reactions
- User-defined Rerun and Reflex criteria
- Calibrations can be performed in-run with patient samples
- Customizable system security allows user traceability
- · USB allows system settings to be exported and saved
- Bi-directional host interface with host query
- Fully automated factor parallelism
- Customizable audible alerts



Patient results in a single record, including reaction-curve.



Levey-Jennings graphs can be viewed and printed for complete QC monitoring.



Material map provides reagent status.

^{*} ACL Elite Pro system only.

Comprehensive Assay Menu

HemosIL Assays

ACL Elite systems are optimized to operate with a comprehensive panel of HemosIL assays. Together, they offer a complete disease-state management solution.

General Screening and Anticoagulant Monitoring

PT RecombiPlasTin 2G PT-Fibrinogen-HS Plus PT-Fibrinogen

- ♦ APTT SynthASil®
- ◆ APTT-SP APTT SynthAFax® Fibrinogen-QFA Fibrinogen-Clauss Thrombin Time (TT) Pro-IL-Complex*
- Hepatocomplex*

 Liquid Anti-Xa

Lupus Anticoagulants

dRVVT Screen and dRVVT Confirm

◆ Silica Clotting Time

Coagulation Factors and VWF

FII, FV, FVII, FX Deficient Plasma FVIII, FIX, FXI, FXII Deficient Plasma Chromogenic FVIII

• von Willebrand Factor Antigen von Willebrand Factor Activity

DVT and PE Diagnosis

D-Dimer

Other Specialty Assays

Plasminogen Plasmin Inhibitor

Thrombophilia Screening

◆ Antithrombin
Protein C (chromogenic and clotting)
Protein S (functional and antigenic)
FV Leiden (APCR-V)
Homocysteine

Calibrators and Controls

Calibration Plasma Normal Control Plasma Low Abnormal Control Plasma High Abnormal Control Plasma Special Test Control Level 1 Special Test Control Level 2

◆ D-Dimer Controls (Low and High)* Low Fibrinogen Control

- * Not FDA-cleared. Not available in all countries.
- ♦ = Liquid, ready-to-use format.

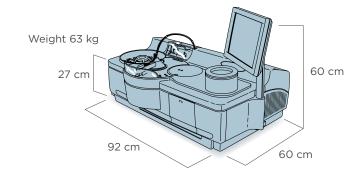




Technical Specifications

| 660 nm |
|---|
| 405 nm |
| YES |
| 13 x 64 mm, 13 x 75 mm, 13 x 100 mm, 11.5 x 64 mm, 11.5 x 92 mm |
| Up to 40 |
| ACL Elite: 18 ACL Elite Pro: 22 |
| ACL Elite: 20 ACL Elite Pro: 260 |
| YES |
| YES |
| YES |
| YES (integrated) |
| YES |
| ACL Elite: N/A ACL Elite Pro: YES |
| 30,000 tests (1,000 samples x 30 tests) |
| 50 controls x 20 tests (750 files x 500 results) |
| YES |
| YES |
| 60 rules, 3 criteria each, 10 reflex tests/rule |
| |

| Liquid Sensors (sample and reagent) | YES |
|--|-------------------------------------|
| Touchscreen (graphic) | YES |
| Automatic Printing | YES |
| External Printer | Optional (USB or parallel) |
| ESC/P2 Emulation Protocol (for external printer) | YES |
| HP-PCL Emulation Protocol (for external printer) | YES |
| ASTM Bidirectional Interface | YES |
| Automatic Downloading (host query) | YES |
| Automatic Uploading | YES |
| Mouse | YES |
| Throughput (tests/hour) PT/Fib (PT-based) APTT PT/Fib (PT-based)/APTT | Up to 150 Up to 110 Up to 120 |



Werfen **Corporate Headquarters**

Plaza de Europa, 21–23 08908 L'Hospitalet de Llobregat Barcelona, Spain +34-93-4010101 werfen com

Instrumentation **Laboratory Headquarters**

180 Hartwell Road Bedford, MA 01730 USA +1-781-861-0710 instrumentationlaboratory.com

Worldwide Locations

The Americas

Brazil São Paulo +55-11-41543337 br.werfen.com

Canada Richmond Hill, ON +1-800-552-2025 x6115 instrumentationlaboratory.com

Colombia Bogotá +57(1)-616-7513

Mexico Mexico City +52-55-5262-1760 mx.werfen.com

Uruguay Montevideo +5982-481-81-33 USA

Bedford, MA +1-781-861-0710 instrumentationlaboratory.com Asia-Pacific

Australia Sydney +61-02-9098-0200 au.werfen.com

China Beijing +86-10-59756055 Hong Kong +852-2792-7773 Shanghai +86-21-66308671 cn.werfen.com

India New Delhi +91-490-29-550

in.ilwerfen.com Japan Tokyo +81-3-5419-1301

Korea Seoul +82-2-5719246 kr werfen com

jp.werfen.com

Thailand Bangkok +66-271-226-28/9 Europe

Austria Vienna +43-1-256-58-000 at.werfen.com

Belgium Brussels +32-2-7252052

benelux.werfen.com Czech Republic

Prague +420-246-090-931 cz.werfen.com France

Paris +33-182-30-86-00 fr.werfen.com Germany

Munich +49-89-909070 de.werfen.com Hungary

Budapest +36-1-882-73-10 hu.werfen.com

Italy

+39-02-25221 it.werfen.com Lithuania

Kaunas +370-37-313157

lt.werfen.com The Netherlands

Breda +31-76-5480100 benelux.werfen.com

Poland Warsaw +48-22-336-18-00 pl.werfen.com

Portugal Lisbon +351-214247312 pt.werfen.com

Russia Moscow +7-499-124-45-59 ru.ilwerfen.com

Spain Barcelona +34-902-20-30-90 es.werfen.com

IJK

Warrington, England +44-1925-810141

For all other countries visit

The Instrumentation Laboratory logo, HemosIL, ACL, ACL AcuStar, ACL Elite, ACL TOP and HemoHub are trademarks of Instrumentation Laboratory Company and/or one of its subsidiaries or parent companies and may be registered in the United States Patent and Trademark Office and in other jurisdictions. All other product names, company names, marks, logos and symbols are trademarks of their respective owners. ©2016 Instrumentation Laboratory. All rights reserved.









