ACL ACI





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

# **ACL ELITE® PRO**

 Offers a unique combination of process automation for the medium-volume laboratory.

## **ACL ELITE**

 Simplified, offering the same testing capability for the lower volume, less demanding laboratory.

# **ACL ELITE Systems**

- Random Access Processing for minimized turnaround time
- STAT PT and APTT available in as little as eight minutes
- Bar-coded reagents (standard on ACL ELITE PRO)
- Superior walk-away capacity for 40 samples and up to 260 on-board cuvettes
- STAT Interrupt and Continuous sample loading for un-interrupted testing capability
- Large integrated color touch-screen
- Intuitive, easy-to-use "Windows"like" software streamlines system operation
- Minimal mechanical components ensures robustness in design and requires minimal maintenance
- Comprehensive test menu makes specialty testing as simple as routine testing

# **Flexibility**

- Multiple operation modes allow a lab to run the system for maximum efficiency
- 300-test protocol capacity, including 100 customizable by the user
- User-defined reflex testing rules
- User-defined test profiles allow for efficient usage of all reagent positions
- Multiple calibration modes including calibration during sample analysis

# Sample Processing

- Removable tray accommodates sample cups and primary tubes of varying sizes and fill volumes
- On-board bar-code reader ensures accurate sample identification
- STAT samples can be entered at any time in any position on the tray
- One-touch Run starts processing with the press of a button

# Reagent Handling

- The ACL ELITE PRO accommodates 22 reagents; the ACL ELITE holds 18
- Reagents can be aspirated directly from the vial
- All reagent positions are monitored for volume and on-board stability
- "Profiling" tests allows a large number of test combinations to be processed within the same analytical session
- Hand-held bar-code reader for reagent vial identification (standard on ACL ELITE PRO)







The external bar-code reader identifies material and checks the lot number and expiration date

# Wash-R Bottle

One-liter Wash-Reference emulsion; continuous realtime monitoring of liquid level performed through a sensor system.

# **Dilutors**

Precision and accuracy obtained with unique solid-state, fluidic dispensing system.

# Sample Tray

Expanded capability holds up to 40 primary tubes/cups and ten additional reagents (from A1 to A10).

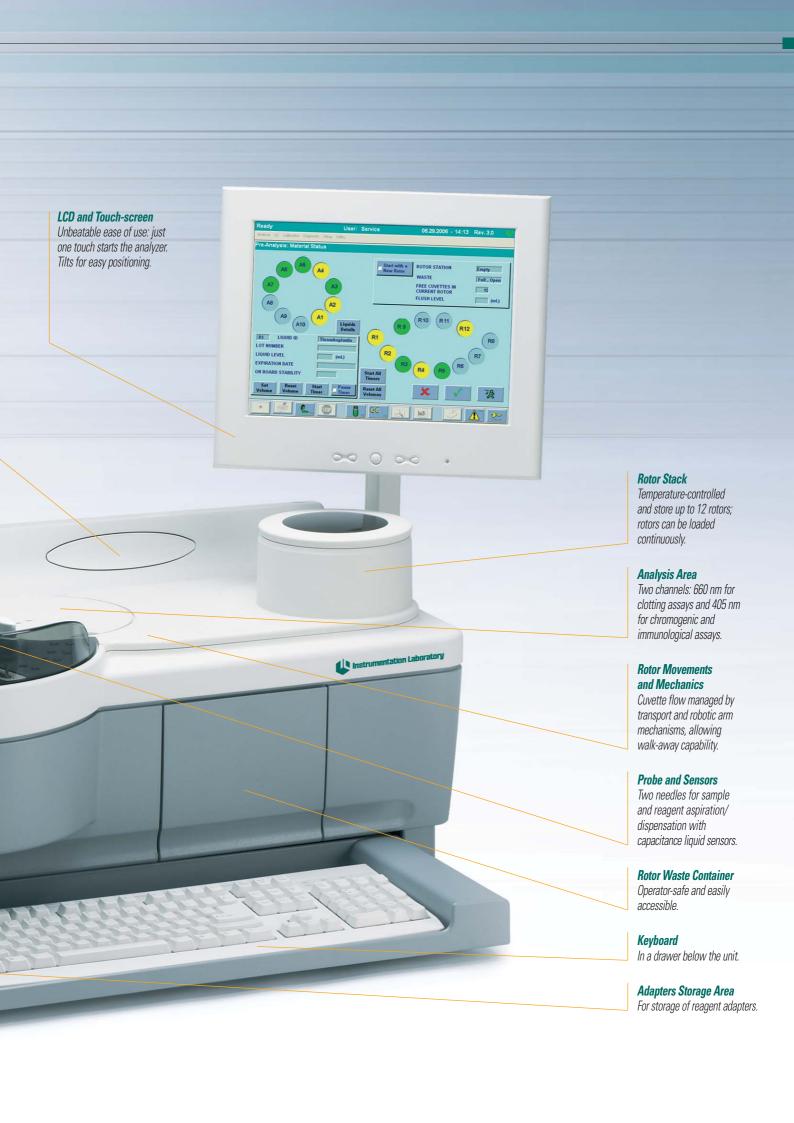
# Reagent Area

Eight positions dedicated to reagents (from R1 to R8) on ACL ELITE; four additional refrigerated positions available (from R9 to R12) on ACL ELITE PRO.

# Disk Drive

Computer-controlled backup, restore, software upgrades, export functions (i.e., patient data, QC data, reaction curves).



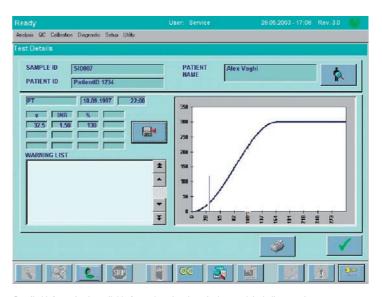


# Test Analysis

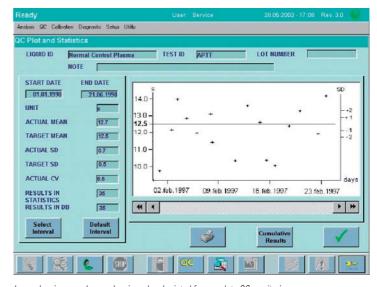
- Centrifugal analysis providing outstanding precision
- Multiple reading systems that optimize analysis efficiency
- Waste area and preheated rotor storage that are continually monitored and allow for emptying and refilling at any time, even if the system is processing samples
- Automated rotor transport from preheat station to analysis area, and then to waste bin when the rotor is completely used, allows increased walk-away capability

# Software Capabilities

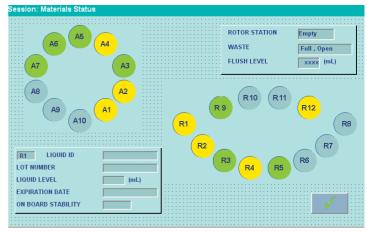
- Clot signature curves generated through superior optics provide clotting and absorbance tracking for all reactions
- User-defined Rerun and Reflex criteria
- Calibrations can be performed in run along with patient samples
- Customizable system security allows tracking of user actions by lab management
- Disk-drive allows system settings to be exported and saved, along with patient and QC data
- Bi-directional host interface with host query
- Fully automated Factor Parallelism
- Customizable audible alerts



Detailed information is available for each patient in a single record, including reaction curve



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



Material map provides a graphical display of reagent status

# HemosIL® Reagents

- Up to 29 applications are now available on the ACL ELITE and ELITE PRO
- HemosIL reagents are optimized for IL systems
- The exceptional range of sensitivity allows for consistent and superior performances
- HemosIL provides the highest standard of manufacturing and quality control

# Comprehensive Test Menu

## Routine:

- PT RecombiPlasTin
- PT-Fibrinogen Recombinant
   PT-Fibrinogen-HS Plus
   PT-Fibrinogen-HS Plus
- PT-Fibrinogen-HS
- PT-Fibrinogen
- APTT SynthASil® APTT-SP
- APTT SynthAFax®
- APTT Lyophilized Silica\*
- Fibrinogen-Clauss
- Thrombin Time (TT)
  Pro-IL-Complex\*
  Hepatocomplex\*

# **DVT** and **PE** Diagnosis:

• D-Dimer

# Thrombophilia Screening:

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

# Lupus Anticoagulants:

- LAC Screen and LAC Confirm
- Silica Clotting Time

- Coagulation Factors and VWF:
   FII, FV, FVII, FX Deficient Plasma
- FVIII, FIX, FXI, FXII Deficient Plasma
- FXIII Antigen
- Chromogenic FVIII
- von Willebrand Factor Antigen
- von Willebrand Factor Activity

# Other Specialty Assays:

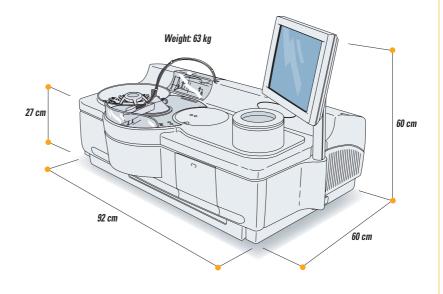
- Heparin
- Plasminogen
- Plasmin Inhibitor

# **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 currently available in the United States

# System Specifications

Analytical Reference  Reaction Curves Displayed  Rerun and Reflex Tests  60 rules, 3 criteria each, 10 reflex tests per rule  Liquid (sample and reagent) Sensors  Touch-screen (graphic)  Automatic Printing  External Printer  External Printer  Optional (USB or Parallel)  ESCP2 Emulation Protocol for the External Printer  HP-PCL Emulation Protocol for the External Printer  ASTM Bi-directional Interface  Automatic Downloading (Host Query)  Automatic Uploading  Mouse  Throughput  PT/Fib (PT based) APTT  Up to 175/hour Up to 125/hour				
Immunological Tests  Samples On-board (13 x 64 mm, 13 x 75 mm, 13 x 100 mm, 11.5 x 64 mm, 11.5 x 92 mm primary tubes types and cups)  Reagents On-board [16, 10, 4 mL vials type]  18	Coagulometric Wavelength		660 nm	
Samples On-board (13 x 64 mm, 13 x 75 mm, 13 x 100 mm, 11.5 x 64 mm, 11.5 x 92 mm primary tubes types and cups)  Reagents On-board (16, 10, 4 mL vials type)  Reagents On-board Bar-code Reader  Reagents On-board (16, 10, 4 mL vials type)  Reagents On-board Bar-code Reader  Reagents On-board Bar-code Reagents  Reagents On-board Bar-code Reader  Reagents On-board Bar-code Reagents  Reagents On-board B	Chromogenic and Latex Wavelength		405 nm	
### Proceedings of the External Printer Proceding Proced	Immunological Tests		✓	
Cuvettes On-board  On-board Bar-code Reader  Sample Predilution  Automated Curve Predilution  STAT Capability  Automated Sample Loading  Automated Rotor Loading  Automated Rotor Loading  Patient Data Storage  30,000 tests - 1,000 samples by 30 tests  Ouality Control  50 Controls by 20 tests each (750 files by 500 results each  Analytical Reference  Reaction Curves Displayed  Rerun and Reflex Tests  60 rules, 3 criteria each, 10 reflex tests per rule  Liquid (sample and reagent) Sensors  Touch-screen (graphic)  Automatic Printing  External Printer  ESCP2 Emulation Protocol for the External Printer  ASTM Bi-directional Interface  Automatic Downloading (Host Query)  Automatic Uploading  Mouse  Throughput  PT/Fib (PT based)  APTT  APTT  Automatic Divining  U to 175/hour  Up to 175/hour  Up to 175/hour  Up to 175/hour			Up to 40	
On-board Bar-code Reader  Sample Predilution  Automated Curve Predilution  STAT Capability  Automated Sample Loading  Automated Reader  Automated Sample Loading  Automated Rotor Loading  Patient Data Storage  30,000 tests - 1,000 samples by 30 tests  Ouality Control  50 Controls by 20 tests each (750 files by 500 results each  Analytical Reference  Reaction Curves Displayed  Rerun and Reflex Tests  60 rules, 3 criteria each, 10 reflex tests per rule  Liquid (sample and reagent) Sensors  Touch-screen (graphic)  Automatic Printing  External Printer  ESCP2 Emulation Protocol for the External Printer  HP-PCL Emulation Protocol for the External Printer  ASTM Bi-directional Interface  Automatic Downloading (Host Query)  Automatic Uploading  Mouse  Throughput  PT/Fib (PT based)  APTT  Up to 175/hour  Up to 175/hour  Up to 175/hour	Reagents On-board (16, 10, 4 mL vials type)		18 ACL ELITE 22 ACL ELITE PRO	
Sample Predilution  Automated Curve Predilution  STAT Capability  Automated Sample Loading  Automated Rotor Loading  Patient Data Storage  30,000 tests - 1,000 samples by 30 tests  Quality Control  50 Controls by 20 tests each (750 files by 500 results each  Analytical Reference  Reaction Curves Displayed  Rerun and Reflex Tests  60 rules, 3 criteria each, 10 reflex tests per rule  Liquid (sample and reagent) Sensors  Touch-screen (graphic)  Automatic Printing  External Printer  Detional (USB or Parallel)  ESCP2 Emulation Protocol for the External Printer  HP-PCL Emulation Protocol for the External Printer  ASTM Bi-directional Interface  Automatic Downloading (Host Query)  Automatic Uploading  Mouse  Throughput  PT/Fib (PT based) APTT  Up to 175/hour Up to 125/hour	Cuvettes On-board		20 ACL ELITE 260 ACL ELITE PRO	
Automated Curve Predilution  STAT Capability  Automated Sample Loading  Automated Rotor Loading  Patient Data Storage  30,000 tests - 1,000 samples by 30 tests  Quality Control  50 Controls by 20 tests each (750 files by 500 results each  Analytical Reference  Reaction Curves Displayed  Rerun and Reflex Tests  60 rules, 3 criteria each, 10 reflex tests per rule  Liquid (sample and reagent) Sensors  Touch-screen (graphic)  Automatic Printing  External Printer  Detional (USB or Parallel)  ESCP2 Emulation Protocol for the External Printer  HP-PCL Emulation Protocol for the External Printer  HP-PCL Emulation Protocol for the External Printer  ASTM Bi-directional Interface  Automatic Downloading (Host Query)  Automatic Uploading  Mouse  Throughput  PT/Fib (PT based) APTT  Up to 175/hour Up to 125/hour	On-board Bar-code Reader		<b>✓</b>	
Automated Sample Loading  Automated Rotor Loading  Patient Data Storage  30,000 tests - 1,000 samples by 30 tests  Quality Control  50 Controls by 20 tests each (750 files by 500 results each  Analytical Reference  Reaction Curves Displayed  Rerun and Reflex Tests  Liquid (sample and reagent) Sensors  Touch-screen (graphic)  Automatic Printing  External Printer  External Printer  ESCP2 Emulation Protocol for the External Printer  HP-PCL Emulation Protocol for the External Printer  ASTM Bi-directional Interface  Automatic Downloading (Host Query)  Automatic Uploading  Mouse  Throughput  PT/Fib (PT based) APTT  Up to 175/hour Up to 175/hour Up to 125/hour	Sample Predilution		<b>✓</b>	
Automated Sample Loading  Automated Rotor Loading  Automated Rotor Loading  Patient Data Storage  30,000 tests - 1,000 samples by 30 tests  Quality Control  50 Controls by 20 tests each (750 files by 500 results each  Analytical Reference  Reaction Curves Displayed  Rerun and Reflex Tests  60 rules, 3 criteria each, 10 reflex tests per rule  Liquid (sample and reagent) Sensors  Touch-screen (graphic)  Automatic Printing  External Printer  Optional (USB or Parallel)  ESCP2 Emulation Protocol for the External Printer  HP-PCL Emulation Protocol for the External Printer  ASTM Bi-directional Interface  Automatic Downloading (Host Query)  Automatic Uploading  Mouse  Throughput  PT/Fib (PT based) APTT  Up to 175/hour Up to 125/hour	Automated Curve Predilution		<b>✓</b>	
Automated Rotor Loading  Patient Data Storage  30,000 tests - 1,000 samples by 30 tests  Quality Control  50 Controls by 20 tests each (750 files by 500 results each Analytical Reference Reaction Curves Displayed  Rerun and Reflex Tests  60 rules, 3 criteria each, 10 reflex tests per rule  Liquid (sample and reagent) Sensors  Touch-screen (graphic)  Automatic Printing  External Printer  Optional (USB or Parallel)  ESCP2 Emulation Protocol for the External Printer  HP-PCL Emulation Protocol for the External Printer  ASTM Bi-directional Interface  Automatic Downloading (Host Query)  Automatic Uploading  Mouse  Throughput  PT/Fib (PT based) APTT  Up to 175/hour Up to 125/hour	STAT Capability		<b>✓</b>	
Patient Data Storage  30,000 tests - 1,000 samples by 30 tests  Quality Control  50 Controls by 20 tests each (750 files by 500 results each Analytical Reference Reaction Curves Displayed  Rerun and Reflex Tests  60 rules, 3 criteria each, 10 reflex tests per rule Liquid (sample and reagent) Sensors  Touch-screen (graphic)  Automatic Printing  External Printer  Optional (USB or Parallel)  ESCP2 Emulation Protocol for the External Printer  HP-PCL Emulation Protocol for the External Printer  ASTM Bi-directional Interface  Automatic Uploading  Mouse  Throughput  PT/Fib (PT based) APTT  Up to 175/hour Up to 125/hour	Automated Sample Loading		<b>✓</b>	
Quality Control  50 Controls by 20 tests each (750 files by 500 results each Analytical Reference  Reaction Curves Displayed  Rerun and Reflex Tests  60 rules, 3 criteria each, 10 reflex tests per rule  Liquid (sample and reagent) Sensors  Touch-screen (graphic)  Automatic Printing  External Printer  ESCP2 Emulation Protocol for the External Printer  HP-PCL Emulation Protocol for the External Printer  ASTM Bi-directional Interface  Automatic Uploading  Mouse  Throughput  PT/Fib (PT based) APTT  Up to 175/hour Up to 125/hour	Automated Rotor Loading		N/A ACL ELITE  ✓ ACL ELITE PRO	
Analytical Reference  Reaction Curves Displayed  Rerun and Reflex Tests  60 rules, 3 criteria each, 10 reflex tests per rule  Liquid (sample and reagent) Sensors  Touch-screen (graphic)  Automatic Printing  External Printer  External Printer  Optional (USB or Parallel)  ESCP2 Emulation Protocol for the External Printer  HP-PCL Emulation Protocol for the External Printer  ASTM Bi-directional Interface  Automatic Downloading (Host Query)  Automatic Uploading  Mouse  Throughput  PT/Fib (PT based) APTT  Up to 175/hour Up to 125/hour	Patient Data Storage		30,000 tests - 1,000 samples by 30 tests	
Reaction Curves Displayed  Rerun and Reflex Tests  60 rules, 3 criteria each, 10 reflex tests per rule  Liquid (sample and reagent) Sensors  Touch-screen (graphic)  Automatic Printing  External Printer  Optional (USB or Parallel)  ESCP2 Emulation Protocol for the External Printer  HP-PCL Emulation Protocol for the External Printer  ASTM Bi-directional Interface  Automatic Downloading (Host Query)  Automatic Uploading  Mouse  Throughput  PT/Fib (PT based) APTT  Up to 175/hour Up to 125/hour	Quality Control		50 Controls by 20 tests each (750 files by 500 results each)	
Rerun and Reflex Tests 60 rules, 3 criteria each, 10 reflex tests per rule Liquid (sample and reagent) Sensors  Touch-screen (graphic)  Automatic Printing  External Printer  Optional (USB or Parallel)  ESCP2 Emulation Protocol for the External Printer  HP-PCL Emulation Protocol for the External Printer  ASTM Bi-directional Interface  Automatic Downloading (Host Query)  Automatic Uploading  Mouse  Throughput  PT/Fib (PT based) APTT  Up to 175/hour Up to 125/hour	Analytical Reference		<b>✓</b>	
Liquid (sample and reagent) Sensors  Touch-screen (graphic)  Automatic Printing  External Printer  External Printer  Optional (USB or Parallel)  ESCP2 Emulation Protocol for the External Printer  HP-PCL Emulation Protocol for the External Printer  ASTM Bi-directional Interface  Automatic Downloading (Host Query)  Automatic Uploading  Mouse  Throughput  PT/Fib (PT based) APTT  Up to 175/hour Up to 125/hour	Reaction Curves Displayed		<b>✓</b>	
Touch-screen (graphic)  Automatic Printing  External Printer  EXTERNAL Printer  Optional (USB or Parallel)  ESCP2 Emulation Protocol for the External Printer  HP-PCL Emulation Protocol for the External Printer  ASTM Bi-directional Interface  Automatic Downloading (Host Query)  Automatic Uploading  Mouse  Throughput  PT/Fib (PT based) APTT  Up to 175/hour Up to 125/hour	Rerun and Reflex Tests		60 rules, 3 criteria each, 10 reflex tests per rule	
Automatic Printing  External Printer  Optional (USB or Parallel)  ESCP2 Emulation Protocol for the External Printer  HP-PCL Emulation Protocol for the External Printer  ASTM Bi-directional Interface  Automatic Downloading (Host Query)  Automatic Uploading  Mouse  Throughput  PT/Fib (PT based) APTT  Up to 175/hour Up to 125/hour	Liquid (sample and reagent) Sensors		<b>✓</b>	
External Printer  External Printer  ESCP2 Emulation Protocol for the External Printer  HP-PCL Emulation Protocol for the External Printer  ASTM Bi-directional Interface  Automatic Downloading (Host Query)  Automatic Uploading  Mouse  Throughput  PT/Fib (PT based) APTT  Up to 175/hour Up to 125/hour	Touch-screen (graphic)		✓	
ESCP2 Emulation Protocol for the External Printer  HP-PCL Emulation Protocol for the External Printer  ASTM Bi-directional Interface  Automatic Downloading (Host Query)  Automatic Uploading  Mouse  Throughput  PT/Fib (PT based) APTT  Up to 175/hour Up to 125/hour	Automatic Printing		<b>✓</b>	
HP-PCL Emulation Protocol for the External Printer  ASTM Bi-directional Interface  Automatic Downloading (Host Query)  Automatic Uploading  Mouse  Throughput  PT/Fib (PT based) APTT  Up to 175/hour Up to 125/hour	External Printer		Optional (USB or Parallel)	
ASTM Bi-directional Interface  Automatic Downloading (Host Query)  Automatic Uploading  Mouse  Throughput  PT/Fib (PT based) APTT  Up to 175/hour Up to 125/hour	ESCP2 Emulation Protocol for the External Printer		<b>✓</b>	
Automatic Downloading (Host Query)  Automatic Uploading  Mouse  Throughput  PT/Fib (PT based) APTT  Up to 175/hour Up to 125/hour	HP-PCL Emulation Protocol for the External Printer		<b>✓</b>	
Automatic Uploading  Mouse  Throughput  PT/Fib (PT based) APTT  Up to 175/hour Up to 125/hour	ASTM Bi-directional Interface		<b>✓</b>	
Mouse  Throughput  PT/Fib (PT based) APTT  Up to 175/hour Up to 125/hour	Automatic Downloading (Host Query)		<b>✓</b>	
Throughput PT/Fib (PT based) Up to 175/hour APTT Up to 125/hour	Automatic Uploading		<b>✓</b>	
APTT Up to 125/hour	Mouse		<b>V</b>	
ep to recampled, near	Throughput			



# Other members of the ACL Family

ACL TOP®

For the large-volume laboratory with clotting, chromogenic and immunological assays: routine and specialty; available with CTS for closed-tube sampling



**ACL TOP 500 CTS** 

For the medium-to-large-volume laboratory with clotting, chromogenic and immunological assays: routine and specialty; with CTS for closed-tube sampling



ACL Advance

For the medium-volume laboratory with clotting, chromogenic and immunological assays



ACL 200, 1000, 7000

The ACL Classic Systems: Easy-to-use, basic line of compact instruments for clotting, chromogenic tests and immunological assays



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Applications/tests listed may not yet be approved by the regulatory authorities in your country.

Please contact the appropriate office above for specific information regarding availability in your country.

IL product specifications are subject to modification. Some of the IL sites may still be in the process of completing ISO.

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