

LabElite™ Line

Benchtop devices for automated sample management.



HAMILTON
STORAGE TECHNOLOGIES

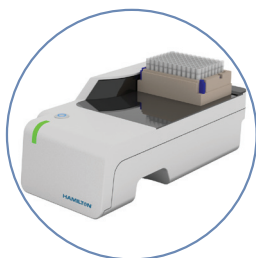
LabElite Line

Simplify your workflow.

Hamilton's new LabElite™ product line offers laboratories an easy and efficient way to automatically process and track samples while ensuring sample integrity. The devices quickly process all common labware types, providing a flexible solution for optimizing workflows.

LabElite devices combine innovative engineering and high-quality components with excellent manufacturing standards. With our LabElite line, one can expect great reliability and outstanding performance.

- ▶ **Flexibility**
- ▶ **Efficiency**
- ▶ **Sample Security**
- ▶ **Ease-of-Use**



I.D. Reader™

The new high-speed I.D. Reader™ automatically decodes all common 2-D barcoded tubes, processing barcodes on a 96-tube rack in less than 3 seconds and a 384-tube rack in 5 seconds.



DeCapper™

The next-generation DeCapper™ provides automated decapping and capping of tubes in both 48- and 96-tube racks in one device using an exchangeable head (patent pending), as well as offering new features for sample security.



I.D. Capper™

The new I.D. Capper™ combines the features of the DeCapper and I.D. Reader onto one platform to perform efficient barcode reading and decapping/capping.



Integrated I.D. Capper™

The Integrated I.D. Capper™ features all of the utility of the standalone version with the addition of an extended linear rail offering easy mechanical integration onto the deck of the Hamilton Microlab® STAR line of automated pipetting platforms.

I.D. Reader

Automated barcode reading of samples.

The new high-speed I.D. Reader automatically decodes 2-D barcoded tubes on most common tube racks, including honeycomb-shaped racks, providing complete sample tracking during sample processing. Intelligent features like automatic rack type detection and integrated 1-D barcode reading set a new standard for tube rack readers.

The I.D. Reader combines 10 years of experience in imaging and decoding technology with top-notch hardware and software providing users with a reliable device for tracking samples in their laboratory.

Efficiency

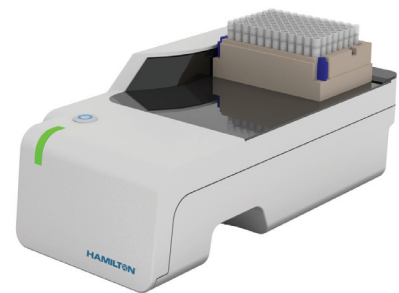
- ▶ Process a 96-tube rack in less than 3 seconds and a 384-tube rack in 5 seconds
- ▶ Cutting-edge decoding technology allows for robust and secure identification of even challenging codes

Flexibility

- ▶ Optional 1-D barcode reading for racks
- ▶ Multiple tube heights can be read within the same rack
- ▶ Compatible with SiLA (Standard in Laboratory Automation)
- ▶ Highly-configurable output options for smooth integration into LIMS or databases

Ease-of-Use

- ▶ Compact and ergonomic design supports efficient workflow
- ▶ Automatically detects the tube rack type to use optimal settings



Technical Specifications:

Dimensions	36.4 cm x 13.5 cm x 18.1 mm (14.3 in x 5.3 in x 7.13 in)
Supported Labware	12-, 24-, 48-, 96-, 384-tube racks Matrix™, Micronic, Nunc™, Corning, Greiner, FluidX, Matrical, WHEATON®, ABgene™, Axygen and REMP®*
Supported 1-D barcodes	2/5 Industrial / Interleaved, Code 39, Code 128, Pharmacode, Codabar, EAN 13
Supported 2-D barcodes	Datamatrix ECC 200, PDF417, QR Code
Camera	10 megapixel CMOS
Connection Interface	USB 2.0

*Others available upon request.

DeCapper and I.D. Capper

Automated decapping/capping of screw cap tubes and cryovials, with optional built-in 2-D barcode reading.

The DeCapper and I.D. Capper are easy-to-use devices that provide automated decapping/capping of tubes in both 48- and 96-tube racks, with internal or external threads. The I.D. Capper enables labs to go one step further, combining decapping/capping and high-speed 2-D barcode reading in one device without any additional hardware.

Flexibility

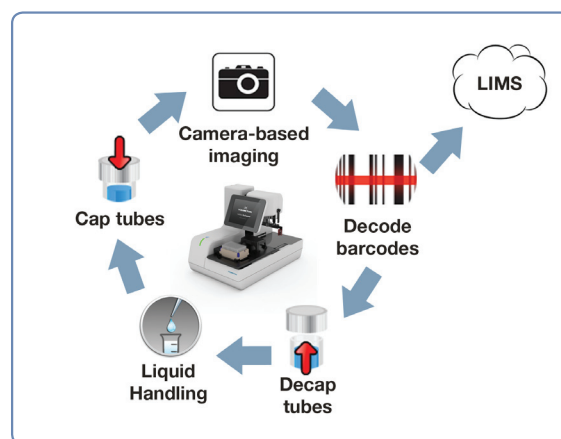
- ▶ Easily swap decapping heads to decap tubes in both 48- and 96-tube racks on a single device (patent pending)
- ▶ Process a full rack of tubes or row of tubes in portrait or landscape format within one device (patent pending)
- ▶ Can be operated as an integrated and standalone device simultaneously

Sample Security

- ▶ New secure processing mode provides sample security by minimizing the time a tube is opened—only one row is processed at a time by holding caps after decapping and then immediately recapping
- ▶ Point-of-use decapping—limit risk of exposure or contamination from environment
- ▶ Eliminates risk of cross contamination by not moving over opened tubes

Ease-of-Use

- ▶ Touchscreen panel provides easy navigation through the system
- ▶ New turntable allows rack to be turned after decapping for better positioning in pipetting workflows
- ▶ Single button execution of 2-D scan and automatic upload of barcode information to LIMS



Typical workflow of how samples on the I.D. Capper would be tracked throughout sample processing.

Technical Specifications:

Dimensions (l x w x h)	60 cm x 38 cm x 44 cm (23.6 in x 15.0 in x 17.3 in)		
Supported Labware	Microtubes	0.25 mL to 1.4 mL	Matrix™, Greiner, Micronic, Nunc™, Corning and FluidX*
	Cryovials	1 mL to 4 mL**	FluidX, Greiner, Micronic and Nunc™
Connection Interface	Ethernet for integration USB 2.0 (I.D. Capper only)		

*Others available upon request.
**Contact Hamilton for specific tube compatibility.

Integrated I.D. Capper

Easy integration of decapping/capping and barcode reading with the Hamilton Microlab® STAR.

The Integrated I.D. Capper features all of the utility of the standalone version and allows users to seamlessly integrate these features to their Hamilton Microlab® STAR. With the addition of an extended linear rail, tube racks and cap holder racks can be presented directly onto the deck of the STAR allowing for easy automation of tube processing workflows.

Flexibility

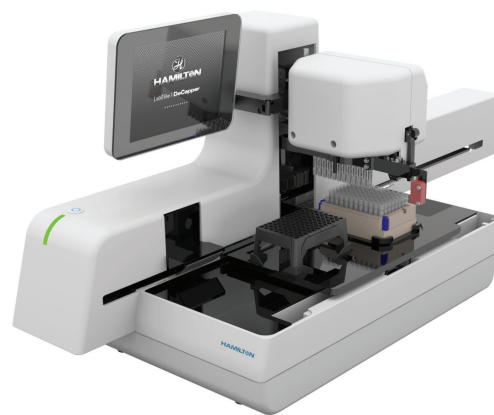
- ▶ Decap 48- or 96-tube racks with internal and external threads from all common labware suppliers
- ▶ Process a full rack of tubes or row of tubes in portrait or landscape format within one device (patent pending)
- ▶ Multiple integration configuration options allowing users to directly pipette into decapped tube racks in track positions 1 through 6, or conserve deck space and integrate left of Track 1

Sample Security

- ▶ New secure processing mode provides sample security by minimizing the time a tube is opened—only one row is processed at a time by holding caps after decapping and then immediately recapping
- ▶ Eliminates risk of cross contamination by not moving over opened tubes

Ease-of-Use

- ▶ Automated 2-D barcode and 1-D side barcode reading
- ▶ Using optimized libraries, users can easily incorporate the device into existing VENUS software methods on the Microlab STAR and utilize all of its features to streamline workflows
- ▶ Simple touchscreen interface for walk-up access in between long automated runs

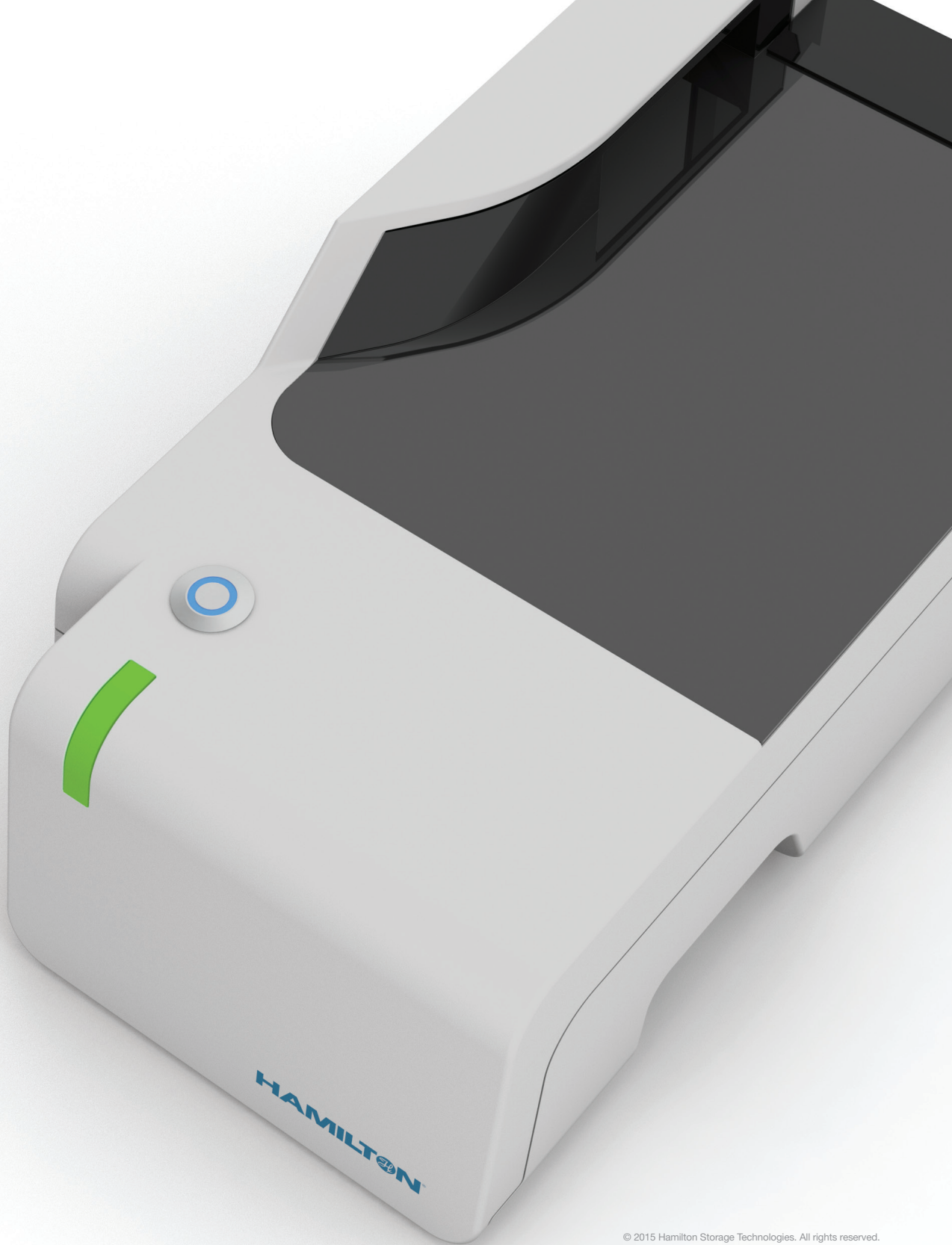


Technical Specifications:

Dimensions	Configuration left of STAR Deck:	90.4 cm x 38.0 cm x 54.0 cm (35.6 in x 15.0 in x 21.3 in)
	Configuration on STAR Deck:	77.0 cm x 38.0 cm x 54.0 cm (30.3 in x 15.0 in x 21.3 in)
Supported Labware	Microtubes	0.25 mL to 1.4 mL Matrix™, Greiner, Micronic, Nunc™, Corning and FluidX*
	Cryovials	1 mL to 4 mL** FluidX, Greiner, Micronic and Nunc™
Supported 2-D barcodes		Datamatrix ECC 200, PDF417, QR Code
Camera		10 megapixel CMOS
Connection Interface		USB 2.0 and Ethernet

*Others available upon request.

** Contact Hamilton for specific tube compatibility.



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