



# Erba LisaScan<sup>®</sup> EM Erba LisaWash<sup>®</sup>

Semi-automated ELISA Microplate Reader and Washer



Making Automation Affordable  
for Labs Everywhere

[www.erba.com](http://www.erba.com)

# Erba LisaScan<sup>®</sup> EM $\Lambda$ E

## Semi-automated ELISA Microplate Reader

### A versatile ELISA microplate reader for semi-automated workflow

The Erba LisaScan EM can perform various ELISA tests with elaborate reports and printing of graphs.

### Main features of Erba LisaScan<sup>®</sup> EM reader

#### 100 TEST PROGRAMS

100 user-programmable ELISA test slots

#### VARIOUS PLATE GEOMETRICS

Compatible to various plate geometrics of 96 well microplates (Flat, U and V bottom) and in 8 or 12 well formats

#### MULTI-WAVELENGTH READING

Single, Dual and Multi-wavelength reading options with advanced 8-channel optical system

#### MINIMAL READING TIME

8 seconds for 96 wells plate

#### TWO MODELS AVAILABLE

4 Filter and 6 Filter



#### SELF DIAGNOSTIC CAPABILITIES

Auto self-checkup on every start

#### ELI-LIMS SOFTWARE

Computer connection software for ELISA data management and Quality Control functions

#### CONFIGURABLE FOR DIFFERENT MODES

Numerous options for Blanks, Measurement modes and Calculation modes

#### EASY TO USE

Large LCD screen with user-friendly operating software

#### IN-BUILT THERMAL PRINTER

With option to connect external printer

# Erba LisaWash<sup>®</sup> $\Lambda\Xi$

## Semi-automated ELISA Microplate Washer

### A small footprint ELISA microplate washer for semi-automated workflow

Erba LisaWash can easily accommodate different well shaped microplates, providing efficient versatility to semi-automated labs.

### Main features of Erba LisaWash<sup>®</sup> reader

#### 50 50 WASH PROTOCOLS

Large memory, up to 50 protocols can be programmed and stored by the user

#### AEROSOL PROTECTION COVER

Standard aerosol protection cover and easy to decontaminate plate carrier

#### 8-CHANNEL/12-CHANNEL MANIFOLD

Easy, removable 8-channel manifold and 12-channel optional, with separate needles for aspiration and dispensing eliminating risk of contamination

#### 3 $\mu$ L ACCURACY & PRECISION

$\leq 3 \mu$ l residual volume, ensuring accuracy and precision

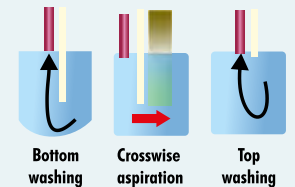
#### UVU FULL FOCUS ON YOUR ELISA

Washes 96-well format microplate with Flat, U or V bottom



#### WASH, RINSE AND WASTE

Choice of one Wash Buffer, one rinse/DI bottle and one waste bottle with sensor, 2L each. Option for one additional wash buffer bottle can be provided. No special airtight bottles are required.



#### WIDE RANGE OF ELISA WASHING VOLUMES

Washing volume 50  $\mu$ l to 450  $\mu$ l, allowing for a wide range of ELISA washing volumes to be set

#### WINDOWS-BASED SOFTWARE

User-friendly windows based operating software with large LCD display

# Erba LisaScan<sup>®</sup> EM

## Technical Specifications

### Main Features

**System type:** Open System

**Plate types:** 96 well plates

**Wells Type:** U and Flat bottom wells

**Wavelength Selection:** Monochromatic; Bi-Chromatic and Multi-Chromatic\* (Maximum 4 in Read mode)

**Test Programs:** 100 user defined Test Programs

**Blank Options:**

- Blank; Control; Assay
- Validation equations
- Against Air; Well; Plate; Column; Column-mean; Row and Row Mean.

**Number of programmable standards / calibrators:**

- Up to 10 standards
- Storage/ display/ printing of multi standard curves and cut-off equations for all parameters.

**Display:** High resolution Graphics LCD 320x240 pixels

**Keyboard:** Sturdy membrane panel

**PC Communication:** USB port

**Operating Temperature:** 20 ° to 40 °C

**Storage Temperature:** -10 ° to 50 °C

**Humidity:** Max. 80% RH, non-condensing.

**Power Supply:** 16 V–24.5 V DC using External Auto ranging SMPS adaptor; 115/230VAC ±10%, 50/60Hz.

**Dimension:** 502 × 369 × 216 mm

**Weight:** 7 Kg

**Measurement Time:**

- **NORMAL:** 16 Seconds single wavelength
- **SPEED:** 8 Seconds single wavelength

**Built-in Thermal Printer:** High resolution, 384 dots per line, thermal type with full graphics facility, and option for connecting external parallel printer.

### Photometer

**Measuring system:** 8-Channel optical System

**Lamp Source:** Quartz Halogen Lamp

**Wave length Range:** 400 to 750 nm

**Standard Filters:** 405 nm; 450 nm; 492 nm and 630 nm (10 nm Band Pass). Three filters optional

**Dynamic Range:** 0.0 ~4.0 OD

**Photometric accuracy:** < 1% at 2.5 OD at 450 nm

**Repeatability:** < 0.5% at 2.5 OD

**Photometric resolution:** 0.001 OD

**Linearity:** <1% at 2.5 OD at 450 nm

### Reports format

Alphanumeric patient ID based linear and matrix reports with OD, Conc, Cut off interpretation etc. Calibration graphs stored and printed. 5000 sample test results can be viewed / stored / printed

# Erba LisaWash<sup>®</sup>

## Technical Specifications

### Main Features

**User Interface:** 5 inch LCD display

**Wash head:** 8 or 12 head manifold compatible

**Wash mode:** Row and Plate

**Wash rows:** 1–12 rows

**Plate Type:** 96 well plate or strip (Flat, U & V – bottom)

**Strip Washing:** 1 to 12 strips programmable.

**Wash programs:** 64 user defined wash protocols

**Dispensing Volume:** 50-450 ul in 5 ul increments

**Washing Cycle:** Up to 9 cycles

**Dispensing Precision:** < 5.0 % at 300 µl

**Dispensing Accuracy:** < 5.0 % at 300 µl

**Prime volume:** 50–700 µl

**Aspiration pressure:** Programmable

**Soak time:** 0–255 s

**Residual volume:**

- ≤ 2 µl for V/ U bottom plates
- ≤ 3 µl for Flat bottom plates

**Number of Bottles:** 2 Wash buffer, 1 Rinse/DI & 1 Waste bottle with sensor, 2L each

Note: Above specifications are subject to change without prior notice



Erba  
LABOR

LisaScan EM

Job No: 1001  
File No: 1017400.07  
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Date: 07/05/21 Time: 16:13

We are an emerging player in in-vitro diagnostics, with a global footprint. Our mission is to make automation affordable for labs everywhere.

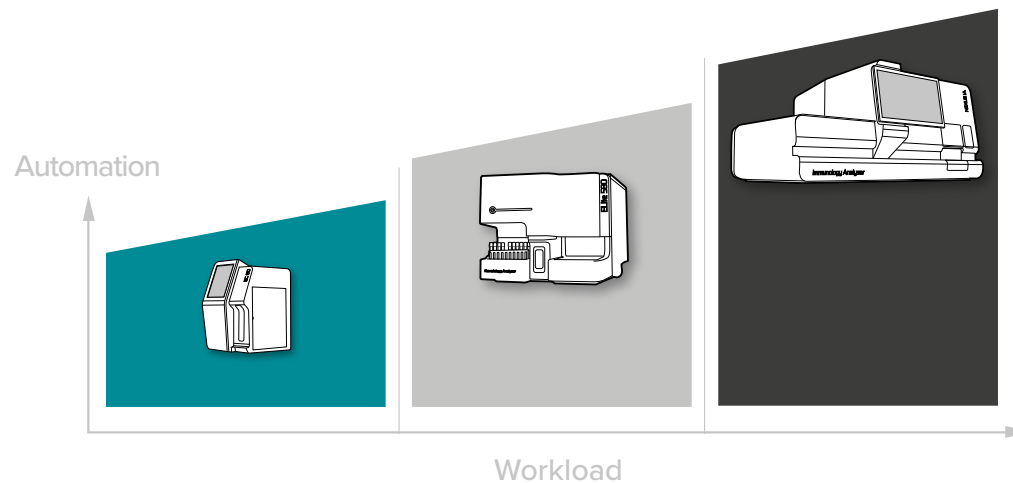
Providing hospitals and labs with a full range of diagnostic instruments, reagents and support services in more than 100 countries, our focus is on improving health outcomes in developing nations.

We believe every lab should benefit from automation, no matter how big or small. And we know that different labs have different needs, so we offer three distinct ranges of products, helping you to find the ideal solution.

**Nexus** Total Lab Automation Made Accessible

**Vertex** Powerful Automation for Mid-Sized Labs

**Apex** Basic Automation for Small Labs



**APEX**

BASIC AUTOMATION  
FOR SMALL LABS

**VERTEX**

POWERFUL AUTOMATION  
FOR MID-SIZED LABS

**NEXUS**

TOTAL LAB AUTOMATION  
MADE ACCESSIBLE

<b>Lab size</b>	Small	Mid-size	Large
<b>Throughput</b>	Low	Mid-range	Large
<b>Automation</b>	Semi-automation	Full automation	Full automation
<b>Type</b>	Bench-top	Bench-top or floor standing	Bench-top or floor standing
<b>Footprint</b>	Super compact	Compact	Compact/Medium
<b>Look out for this symbol</b>	<b>AE</b>	<b>VE</b>	<b>NE</b>

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