



Erba LisaScan[®] EM Erba LisaWash[®]

Semi-automated ELISA Microplate Reader and Washer



Making Automation Affordable
for Labs Everywhere

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Erba LisaScan[®] EM Λ 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[®] 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[®]

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[®] reader

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

ACCURACY & PRECISION

≤3 µL residual volume, ensuring accuracy and precision

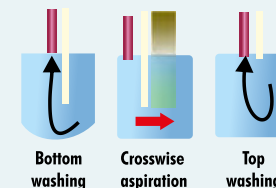
FULL FOCUS ON YOUR ELISA

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 µL to 450 µL, 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[®] 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[®]

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
Mettler

LisaScan EM

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Site No. 10000000000000000000
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We are an emerging player in in-vitro diagnostics, with a global footprint. Our mission is to make automation affordable for labs everywhere.

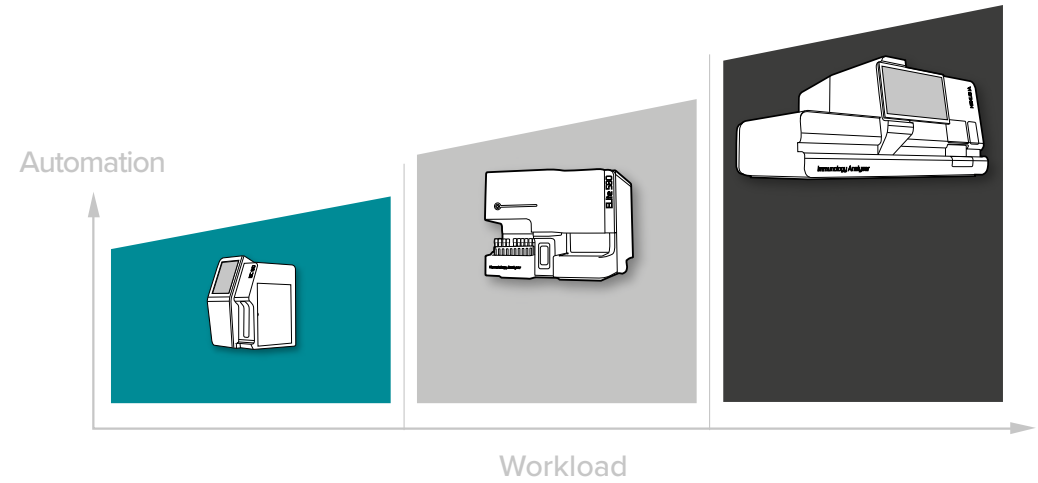
Providing hospitals and labs with a full range of diagnostic instruments, reagents and support services in more than 100 countries, our focus is on improving health outcomes in developing nations.

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

	Small	Mid-size	Large
Lab size	Small	Mid-size	Large
Throughput	Low	Mid-range	Large
Automation	Semi-automation	Full automation	Full automation
Type	Bench-top	Bench-top or floor standing	Bench-top or floor standing
Footprint	Super compact	Compact	Compact/Medium
Look out for this symbol	A ≡	V ≡	N ≡

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The Devices are in compliance with the IVDR requirements of CE marking
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