



# Erba LisaScan<sup>®</sup> EM

# Erba LisaWash<sup>®</sup> II

Automated ELISA Microplate Reader and Washer

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## Automated ELISA Microplate Reader



Large LCD screen with user-friendly operating software



In-built thermal printer, option to connect external printer



Minimal reading time: 8 seconds for 96 wells plate



Auto self-checkup on every start



100 user-programmable ELISA test slots



Numerous options for Blanks, Measurement modes and Calculation modes



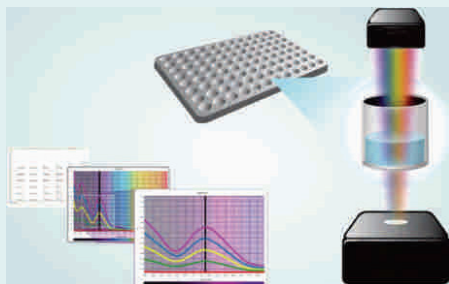
Single, Dual and Multi-wavelength reading options with advanced 8-channel optical system



'ELI-LIMS' : Computer connection software for ELISA data management and Quality Control functions



Two models available: 4 Filter and 6 Filter



Principle and Working of ELISA reader



A Snapshot from ELI-LIMS software

# Erba LisaWash® II

## Automated ELISA Microplate Washer



User-friendly windows based operating software with large LCD display



Washes only 96-well format microplate with UV or Flat bottom



50 user defined wash protocol



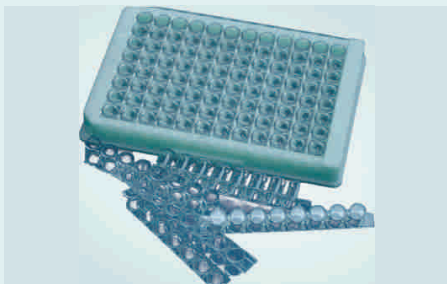
Standard aerosol protection cover and easy to decontaminate plate carrier



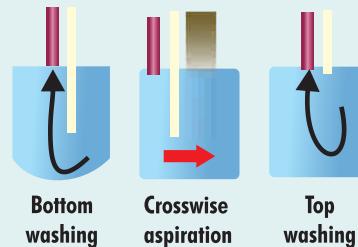
Two models available: 4 Filter and 6 Filter



Removable 8-channel/12-channel manifold, with separate needles for aspiration and dispensing,  $\leq 3 \mu\text{l}$  residual volume



Row and plate wash modes



Super Sweep washing for minimal residual volume

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## Main Features

**System type:** Open System

**Plate types:** 96 well plates

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

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

**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:** Serial RS232 / USB

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

**Storage Temperature:** 10° to 50°C

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

**Power Supply:** 18V/5A using External Auto ranging SMPS adaptor 115/230VAC ±10%, 50/60Hz.

**Dimension:** 502 x 369 x 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:** Tungsten Halogen with Lamp saver function

**Wave length Range:** 400 to 800 nm

**Standard Filters:** 405 nm; 450 nm; 492 nm and 630 nm (10 nm Band Pass). Optional two filters 578 nm and 700 nm

**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:** 0.001OD

**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> II

## 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:** 50 user defined wash protocols

**Dispensing Volume:**

- 50~3000 µL for 8-way manifold
- 50~2000 µL for 12-way manifold

**Washing Cycle:** Up to 12 cycles

**Dispensing Precision:** < 2.0 % at 350 µl

**Dispensing Accuracy:** < 2.0 % at 350 µl

**Prime volume:** 50 – 1000 µl

**Aspiration pressure:** Programmable

**Soak time:** 0~24 hours

**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

# ErbaLISA® Range of ELISA Parameter

<b>Allergy</b>	
<b>Infectious Disease</b>	
<ul style="list-style-type: none"> <li>• CMV IgG</li> <li>• CMV IgM</li> <li>• HSV-1 IgG</li> <li>• HSV-2 IgM</li> <li>• HSV-1 IgM</li> <li>• HSV-2 IgG</li> <li>• Measles IgG</li> </ul>	<ul style="list-style-type: none"> <li>• Measles IgM</li> <li>• Mumps IgG</li> <li>• Mumps IgM</li> <li>• Rubella IgG</li> <li>• Rubella IgM</li> <li>• Toxoplasma IgG</li> <li>• Toxoplasma IgM</li> </ul>
<b>Inflammatory</b>	
<ul style="list-style-type: none"> <li>• C-Reactive Protein</li> </ul>	
<b>Anemia</b>	<b>Dengue</b>
<ul style="list-style-type: none"> <li>• Ferritin</li> <li>• Folate</li> <li>• Vitamin B-12LH</li> </ul>	<ul style="list-style-type: none"> <li>• NS1 Ag</li> <li>• IgM <math>\mu</math>-Capture</li> <li>• IgG Capture</li> </ul>
<b>Bone Metabolism</b>	<b>Diabetes</b>
<ul style="list-style-type: none"> <li>• 25 (OH) Vitamin D</li> <li>• PTH</li> </ul>	<ul style="list-style-type: none"> <li>• C-Peptide</li> <li>• Insulin</li> </ul>
<b>Fertility</b>	<b>Steroid</b>
<ul style="list-style-type: none"> <li>• FSH</li> <li>• LH</li> <li>• hCG</li> <li>• Prolactin</li> </ul>	<ul style="list-style-type: none"> <li>• DHEA-S</li> <li>• Estradiol</li> <li>• Progesterone</li> <li>• Testosterone</li> </ul>
<b>Blood Transfusion</b>	<b>Thyroid</b>
<ul style="list-style-type: none"> <li>• HIV Gen4</li> <li>• HBsAg</li> <li>• Malaria PAN (LDH)</li> <li>• HCV Gen3 (v2)</li> <li>• Syphilis</li> </ul>	<ul style="list-style-type: none"> <li>• Triiodothyronine (T3)</li> <li>• Thyroxine (T4)</li> <li>• TSH</li> <li>• Free (FT3)</li> <li>• Free (FT4)LH</li> </ul>
<b>Autoimmune Disorders</b>	<b>Cancer</b>
<ul style="list-style-type: none"> <li>• ANA Screen IgG</li> <li>• dsDNA IgG</li> <li>• Cardiolipin Total Ab</li> <li>• Throglobulin Ab (TG)</li> <li>• SSB IgG</li> <li>• Thyroid Peroxide (TPO) IgG</li> </ul>	<ul style="list-style-type: none"> <li>• PSA</li> <li>• CA 15-3</li> <li>• Free PSA</li> <li>• AFP</li> <li>• CA 19-9</li> <li>• CA-125</li> <li>• CEA</li> </ul>

## Bringing immunoassay solutions to growing labs everywhere

Erba Mannheim is a fully integrated global in vitro diagnostics company, offering a comprehensive suite of clinical testing products to the growing number of smaller hospitals, reference labs, and physician clinics in the developed and emerging markets with reliable, affordable and innovative health care products.

In 2017, Calbiotech Inc. joined the Erba Mannheim group, bringing over 20 years of expertise in developing immunoassay kits that have been manufactured and distributed to over 80 countries across the globe.

### Experience true versatility in ELISA automation with the new ELAN 30s.



Combine up to 6 different tests in every run, independent of assay protocol and incubation times.



Ideal for running a full panel of clinical parameters in parallel.



Complete walk-away automation, up to 240 tests per run.



For more details, please contact your local Erba Mannheim associate.

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