

# EUROLabWorkstation ELISA



## High-throughput ELISA analytics



- Fully automated processing of ELISA test kits: up to 15 ELISA plates per run
- The highest throughput system on the market: >200 tests per hour
- Flexible loading of samples, reagents and dilution plates
- Automatic identification of patient samples, reagents, dilution and ELISA plates 100% traceability
- Economical and precise pipetting with 10 washable needles
- Convenient and intuitive operation

### **Workflow optimisation**

- Open system for the processing of ELISA kits from different manufacturers, even combined in one run
- Spatial separation of liquid handling and ELISA plate processing enables parallel workflows
- Maximum process efficiency through intelligent multineedle system and correspondingly adjusted labware
- Ready-for-use barcoded reagents



### Precise and efficient pipetting

- 10 coated stainless steel needles and precision pumps for optimum pipetting accuracy
- Optimisation of process efficiency through economic travel ways
- Pipetting without carryover through efficient needle washing
- Secure pipetting procedure owing to level and clot detection
- Multishot function for the dispensing of samples and reagents



### Flexible system configuration

- Loading of patient samples in all conventional primary tubes or in 96-well plates according to ANSI SLAS 1-2004 (R2010)
- 45 tracks for the flexible loading with sample and reagent racks as well as accessories
- Up to 8 heatable incubators
- Up to 4 shakeable, heatable incubators
- 2 ELISA wash units with up to 6 different wash buffers



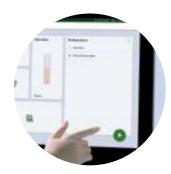
#### **Convenient operation**

- Touch-screen PC with intuitive graphic user interface
- Easy starting of user-specific worklists
- ID-based memory function enables flexible and complete use of dilution plate cavities
- Software-supported maintenance with minimum time expenditure
- Visual examination of incubated ELISA plates without interruption of running processes



### Overview of the process status

- Convenient system overview with detailed status information on run times, resources and ELISA plates
- Clear display of the current run's time flow
- Exact time information for pending actions for improved planning efficiency



### **Process safety from A-Z**

- Software access with different user accounts and rights
- Transparent traceability of all data entries and changes
- Gapless allocation of test results to the samples and reagents used
- Complete data acquisition by means of integrated barcode scanner for samples, reagents, dilution plates and ELISA plates



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| System                       |                                                                                                                                                                                |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Capacity for samples         | >700                                                                                                                                                                           |
| Capacity for ELISA plates    | up to 15 plates                                                                                                                                                                |
| Number tests/microplate      | up to 12 different                                                                                                                                                             |
| Throughput                   | >200 tests per hour                                                                                                                                                            |
| Number of parameters per run | up to 180                                                                                                                                                                      |
| Sample material              | serum, plasma, cerebrospinal fluid and dried blood spot extracts                                                                                                               |
| Sample vessels               | tubes (outer diameter 10–16 mm, height up to 100 mm) or 96-well plates (ANSI SLAS 1-2004 (R2010))                                                                              |
| Barcode identification       | autom. registration of sample tubes, reagents, dilution plates, ELISA plates; import of QC certificates via 2D manual barcode scanner                                          |
| Photometer                   |                                                                                                                                                                                |
| Measurable wavelength        | 400-700 nm                                                                                                                                                                     |
| Dynamic bandwidth            | 0.000 to 4.000 OD (measurement range)                                                                                                                                          |
| Filter set                   | 405 nm, 450 nm, 492 nm, 620 nm (4 further filters possible)                                                                                                                    |
| Pipetting unit               |                                                                                                                                                                                |
| Pipettor                     | 10 washable stainless steel needles with capacitive liquid level and clot detection                                                                                            |
| Pipetting volume             | 5-1100 µl in 1-µl steps                                                                                                                                                        |
| Accuracy                     | $CV < 10\%$ at $10\mu l,~CV < 1\%$ at $100\mu l,~CV < 1\%$ at $1000\mu l$                                                                                                      |
| Incubation                   |                                                                                                                                                                                |
| Capacity                     | 15 positions at room temperature (RT)                                                                                                                                          |
| Incubators                   | up to 8 heatable incubators (RT from $+5^{\circ}$ C to $80^{\circ}$ C) or up to 4 heatable shakeable incubators (RT from $+5^{\circ}$ C to $80^{\circ}$ C, $400^{-}$ 1800 rpm) |
| Wash unit                    |                                                                                                                                                                                |
| Wash buffer capacity         | up to 6 different wash buffers                                                                                                                                                 |
| Washer head                  | 2x8 dispensing and extraction needles for round- and flat-bottom plates                                                                                                        |
| Residual volume              | < 1.8 µl in flat-bottom plates                                                                                                                                                 |
| Liquid level warning         | continuous control in wash buffer and waste containers                                                                                                                         |
| Features                     |                                                                                                                                                                                |
| Operating system             | Microsoft Windows 10 Enterprise 2019 LTSC (64 bits), PC with touchscreen                                                                                                       |
| Bidirectional communication  | ASTM                                                                                                                                                                           |
| User interface languages     | English, German, French                                                                                                                                                        |
| Power supply                 | 100-240 V, 50/60 Hz, 800 VA                                                                                                                                                    |
| Dimensions/Weight            | approx. 3253 mm×812 mm×861 mm (WxDxH)/approx. 450 kg                                                                                                                           |

Find out more about ELISA automation at www.euroimmun.com or contact us directly: www.euroimmun.com/contact





