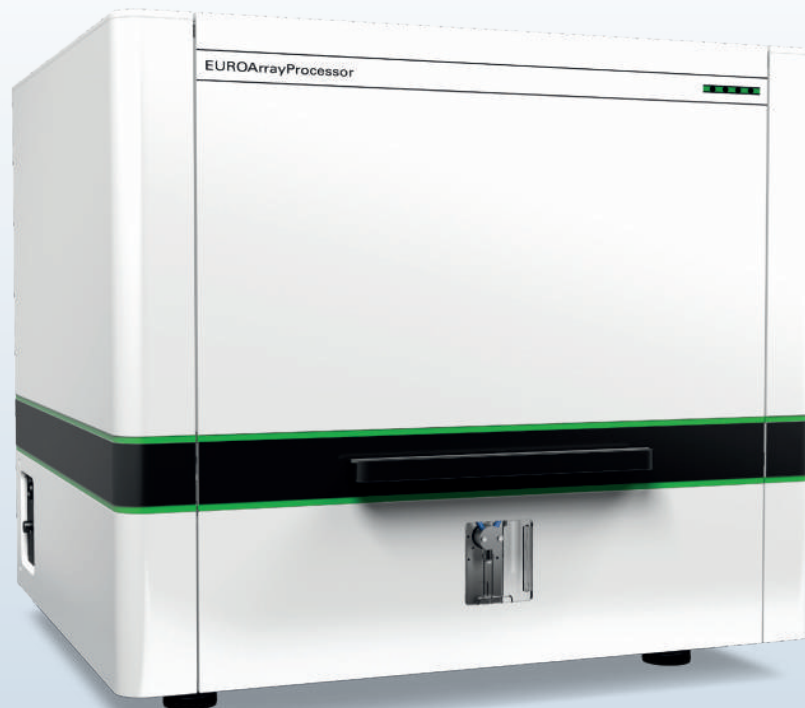# EUROArrayProcessor

## Automated workflow for EUROArrays

- ■ **Automated processing of up to 40 EUROArray slides and 192 PCR samples per run using the proven TITERPLANE technology**

- ■ **Standardised and reproducible washing of EUROArray slides based on the MERGITE! washing technology and automated drying for best quality of results**

- ■ **Traceability for PCR samples, EUROArray slides and reagents as well as integrated connection to pre-PCR and evaluation softwares**

Optimisation of workflows

- Unique system for automated processing of EURO-Array slides: pipetting, hybridisation, washing and drying on one instrument

- No manual intermediate steps – convenient and safe from the PCR sample to the EUROArray slide ready for evaluation

- Use of concentrates for the preparation of the wash buffer and system liquid as well as the working-strength hybridisation buffer for simple preparation of runs

- Minimal hands-on time of 15 minutes for runs with up to 40 EUROArray slides and 192 PCR samples
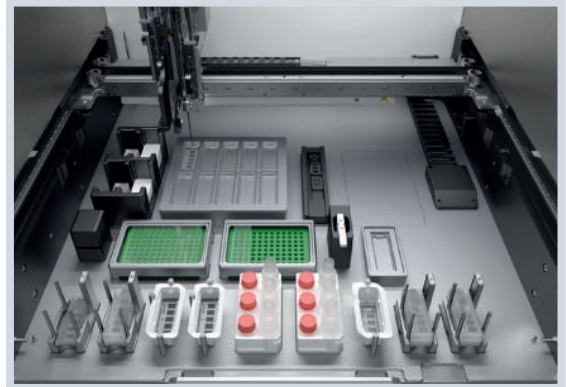
Economic and precise pipetting

- Coated stainless-steel needle and precision pump for high pipetting accuracy

- Efficient washing of the pipetting needle prevents carry-over during pipetting

- Safe pipetting procedure due to capacitive liquid level detection

- Reduced danger of cross-contamination since the pipetting needle pierces the film covering the PCR plate, which makes manual removal of the film superfluous

- No evaporation effect during hybridisation due to proven TITERPLANE technology and thermal isolation
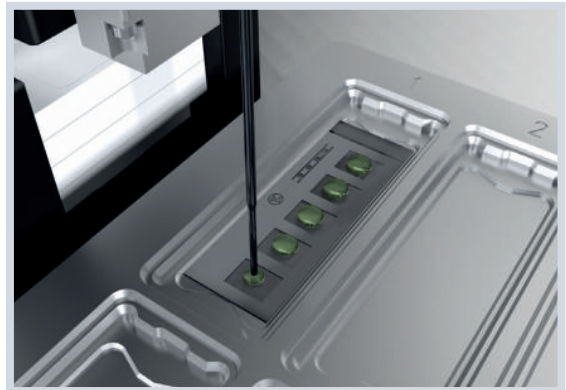

Perfect result

- Integrated washing unit for fully automated cleaning of EUROArray slides

- Standardised and reproducible washing based on the MERGITE! washing technology

- Pinpoint washing of fields without carry-over

- Defined washing conditions due to temperature control and active cooling of the wash buffer

- Automated drying of EUROArray slides for best quality of results

Convenient operation

- PC with intuitive graphic touchscreen user interface

- Simple starting of individual worklists

  - Registration of primary samples in pre-PCR area

  - Protocol generation with or without LIS connection

  - Lot registration for PCR reagents

  - Volume calculation for PCRs

  - Display of the PCR pipetting layout

- Flexible selecting and deselecting of PCR samples to be analysed ensures optimal use of EUROArray slides
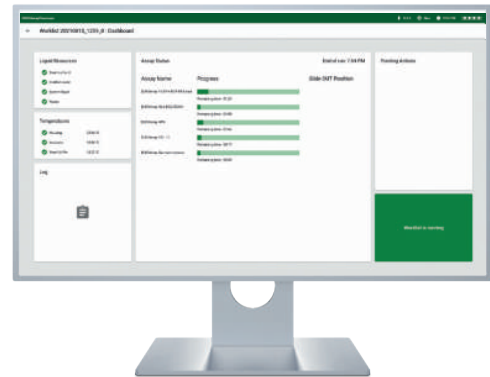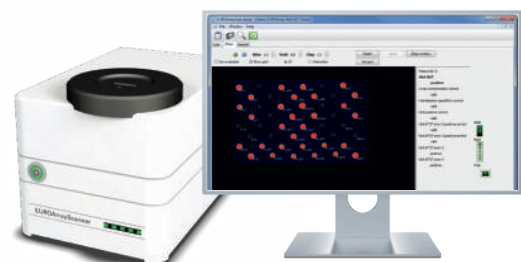

Flexible combination of EUROArrays

- Automated processing of up to six different EUROArray products per run

- Protocol optimisation for efficient combination of different EUROArray products

- Economic work procedure due to choice between EUROArray slides with three or five reaction fields

- Unique identification of EUROArray slides due to integrated DataMatrix code reader

- Incubation at the hybridisation temperature specific for the corresponding EUROArray product
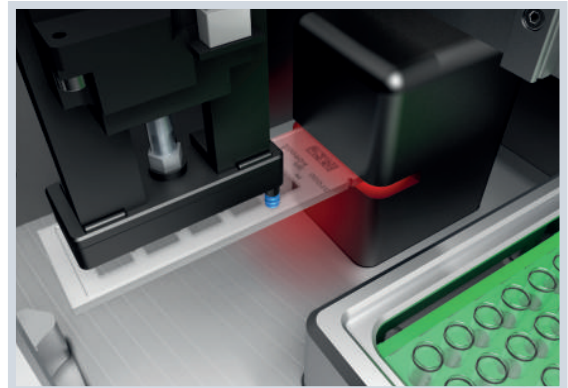
Process safety from A to Z

- Software access based on different user accounts and rights

- Convenient system overview with detailed status information on run times and resources for smooth integration into the laboratory routine

- Automated sensor-based loading check for PCR samples, consumables and disposal items before the start of every run for error-free processing

- Safe digital data exchange with EUROArrayScan software

EUROArrayScanner and EUROArrayScan software

Nucleic acid extraction and preparation of the PCR	PCR	Pipetting, hybridisation, washing and drying	Data analysis and generation of result reports
	PCR cycler	EUROArrayProcessor	EUROArrayScanner and EUROArrayScan software
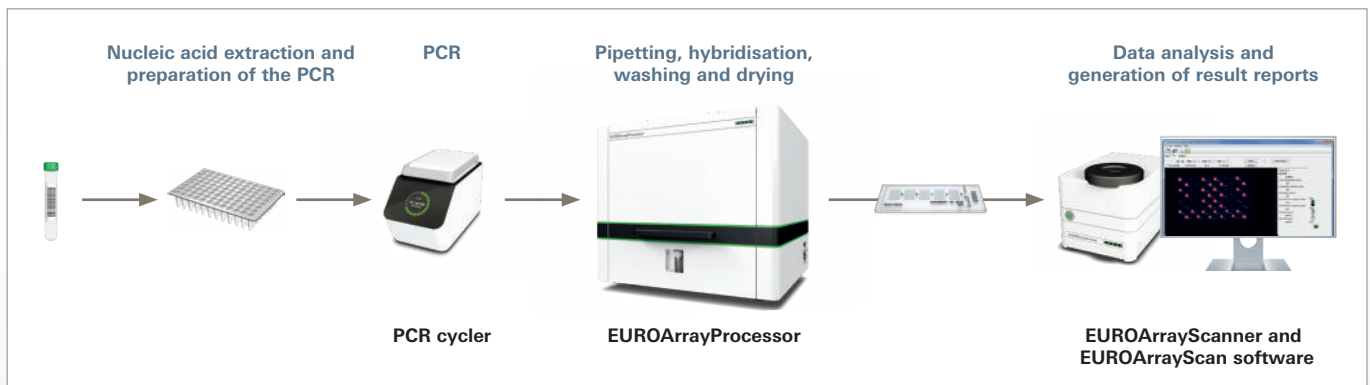
System

Sample capacity	up to 192 PCR samples per run
Sample material	PCR samples from manual preparation
EUROArray capacity	up to 40 EUROArray slides per run
Combination of EUROArrays	up to 6 different EUROArrays per run
Sample vessels	break-off PCR plates (FrameStar Break-A-Way PCR Plate, order no. ZG 0621-5001)
Traceability	automated registration of EUROArray slides using an integrated DataMatrix code scanner, registration of reagents by means of a hand barcode scanner

Pipetting unit

Pipetting unit	liquid pipette with coated stainless-steel needle and capacitive liquid level detection
Pipetting volume and precision	20–100 µl in 1 µl steps; CV ≤ 10 % at 20–64 µl; CV ≤ 5 % at 65–100 µl

Incubation

Capacity	10 EUROArray slides
Temperature range	35 °C–55 °C, standardised for all 10 positions
Incubation procedure	TITERPLANE technology using disposable reagent trays

Washer

Washing procedure	MERGITE! washing technology, including automated drying
Temperature	integrated cooling unit for optimal tempering of the wash buffer

Further characteristics

Operating system	Microsoft Windows 10 Enterprise 2019 LTSC (64 bits), PC with touchscreen
Communication with LIS	via ASTM, bidirectional
Languages	English, German
Electrical data	100–240 V, 50/60 Hz, max. 180 VA
Dimensions/Weight	840 mm × 711 mm × 740 mm (W × D × H, without accessories) / approx. 84 kg

**Find out more at www.euroimmun.com
or contact us directly: www.euroimmun.com/contact**