

GEMINI COMBO

MICROPLATE- AND
IMMUNOFLUORESCENCE
SLIDE PROCESSOR



TUBE IN – RESULT OUT

FULLY AUTOMATED MICROPLATE AND SLIDE PROCESSOR FOR LOW THROUGHPUT APPLICATIONS

- Total walk away system
- Flexible time management with LIS connectivity
- Modularity – open system
- Ease of use, installation and maintenance
- Assay performance with disposable tips
- High process safety with triple pipetting control
- Convenient programming of assay protocols
- Proven reliability
- The system is in compliance with the In-vitro diagnostic directive 98/79/EC

Reading

- Absorbance reader with up to 8 different filters
- Single or dual wavelength reading
- End point and kinetics
- Shaking

Incubation

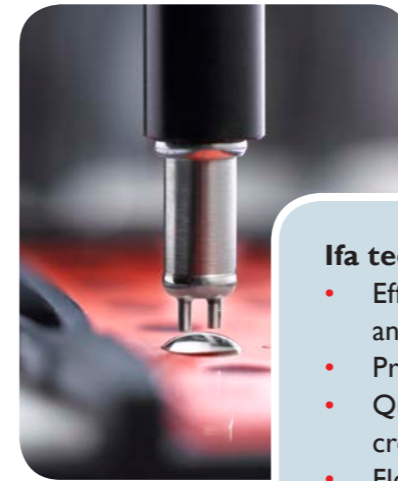
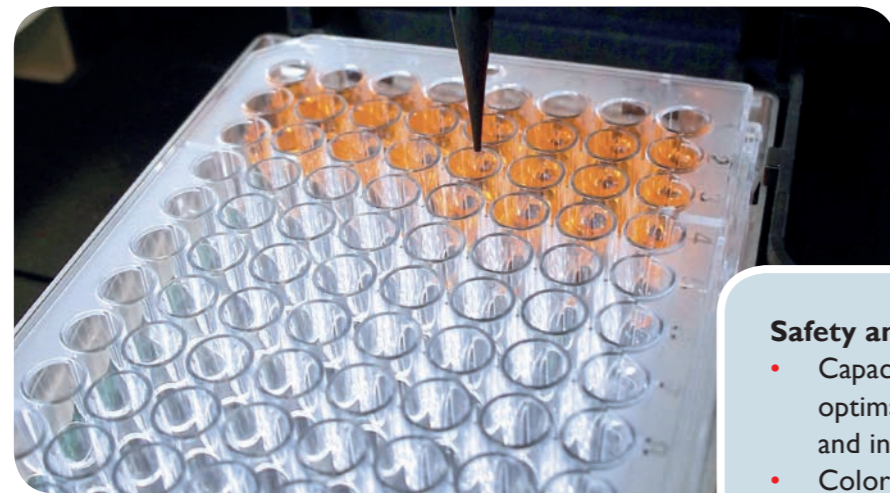
- Two independently controlled incubator chambers (up to 45°C) with shaking (20 Hz)
- Three room temperature incubation chambers

Washing

- 2 x 8-channel washer (aspirate and dispense)
- Three wash buffers
- Sweep mode, soak, top and bottom wash, variable pump speed

Safety and in-process control

- Capacitive liquid level detection for optimal identification of fibrin clots and insufficient volume
- Colorimetric dispense verification
- Positive identification of barcoded samples and reagents

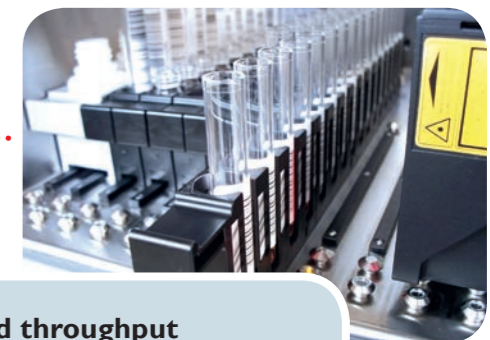


Ifa technology

- Efficient dual technology – IFA and EIA – on a single instrument
- Processing of up to 16 IFA slides
- Quick and reliable: No risk of cross-contamination
- Flexible and intuitive slide designer

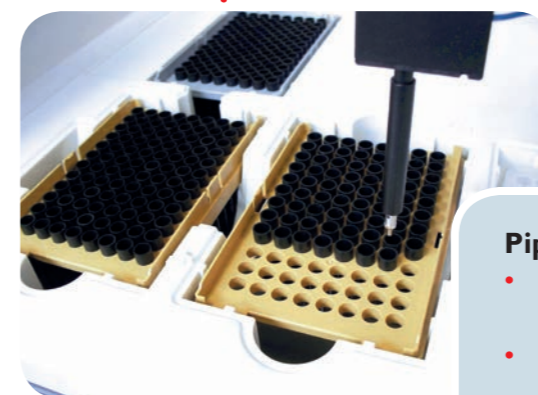
Ease and flexibility

- Flexible scheduling of up to three plates
- Graphical assay protocol editor
- Combination of multiple assays on one plate
- Proven software reliability
- Bi-directional LIS connectivity, ideal with random access instruments
- Based on established EIA software platform with more than 4,500 placements worldwide



Capacity and throughput

- Initial loading of up to 192 samples
- Continuous loading
- Two deep-well plate positions for predilution and / or archiving



Pipetting

- Liquid pipettor for disposable tips (300 µl or 1100 µl)
- Flexibly programmable for single pipetting, multiple pipetting, multiple dilution steps, mixing and archiving

SPECIFICATIONS

GENERAL

Pipettor

- Min / max. volumes:
10 µl to 300 µl with 300 µl tip
301 µl to 1000 µl with 1100 µl tip
- Precision (single dispense):
< 3 % CV at 20 µl
< 3 % CV at 100 µl
- Precision (multi dispense):
< 10 % CV at 16 x 20 µl
< 3 % CV at 8 x 100 µl
- Features: Capacitive liquid level detection, tip detection, mixing, multiple dilution steps, archiving

Dimensions

- Width x Depth x Height:
125 cm x 65 cm* x 75 cm**
49.2" x 25.6"* x 29.5"***

IFA

Capacity

- Processing of up to 16 IFA slides per run

Features

- IFA application without hardware modification
- Flexible and intuitive slide designer
- Quick and reliable: no risk of cross-contamination
- Flexible slide tray for different types and layout

All values are achieved under optimal conditions and can vary depending on environmental conditions, instrument status and processing conditions.

ELISA

Features

- Sample and reagent capacity: Up to 192 samples
Flexible: e.g. 144 samples + 8 reagents + 16 controls

Reader

- Photometric range: 0 to 3.0 OD
- Spectral range: 400 nm to 700 nm (up to 8 filters)
- Read time: < 15 sec single, < 30 sec dual
- Precision: 1% CV at 1.0 OD
- Accuracy: ±0.005 OD or 2.5 % (whichever is greater)
- Linearity: 0 to 2.000 OD ±1 %

Incubator

- Temperature range: Up to 45 °C
- Temperature uniformity: ±1.5 °C (with in-process temperature monitoring)
- Shaking: 20 Hz

Washer

- Precision: 10% CV at 300 µl
- Residual volume:
< 2.5 µl in U-bottom (mean)
< 4 µl in flat bottom (mean)
- Wash buffer capacity: 3 wash buffers
- Modes: Sweep mode, soak, top and bottom wash, variable pump speed

* w/o Waste Bag
** Cover Closed

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