

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

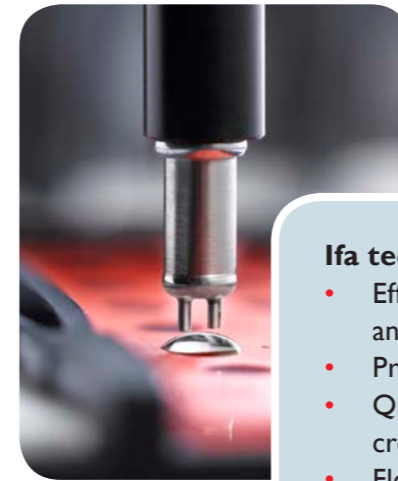
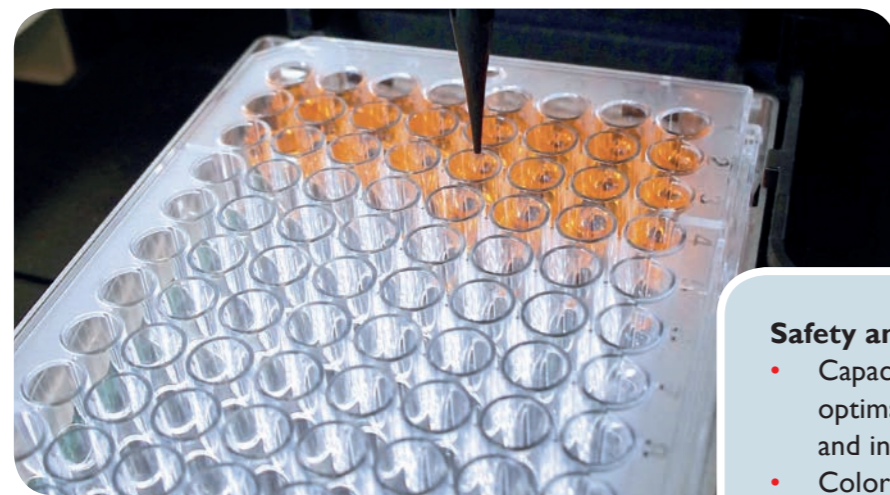
- Two independently controlled incubator chambers (up to 45°C) with shaking (20 Hz)
- Three room temperature incubation chambers

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

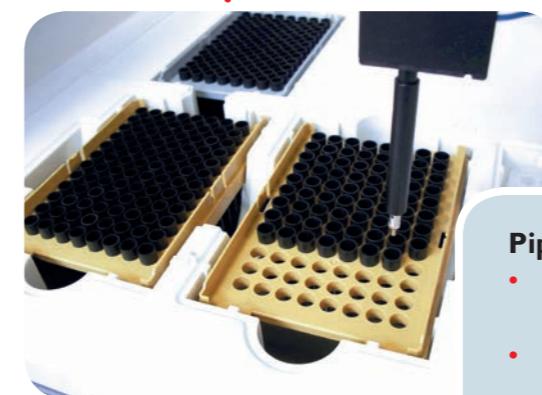
Ease and flexibility

- 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



diatron●●

meditecno

We are a member of the STRATEC Group | www.diatron.com | sales@diatron.com

Diatron MI Zrt makes best efforts to provide accurate information and specifications herein, whereby it may be possible for omissions or errors to have occurred. Diatron MI Zrt shall have no liability for the accuracy and completeness of the information and cannot be held liable for any representations or warranties, expressed or implied, and any third party claims or losses of any damages. Diatron MI Zrt reserves the right to make any changes to the information, including specifications, without notice. The applications and products herein may not be available in all markets. ©2019, Diatron MI Zrt, Hungary, all rights reserved.

Version Nr. GEMINICOMBO190605V2

