



GEMINI

Compact Microplate Processor

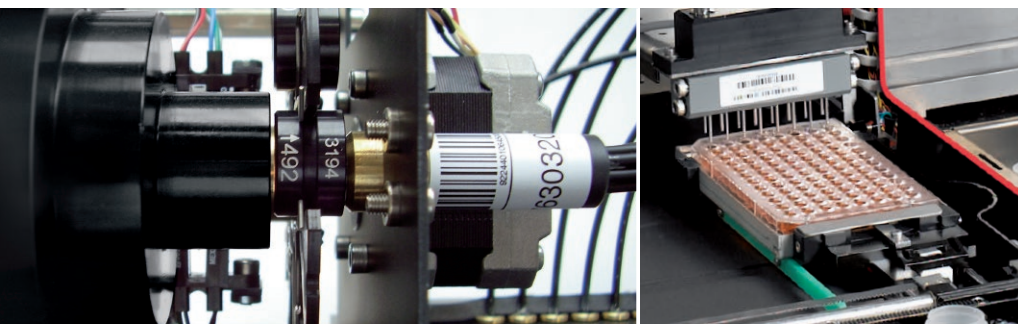
TUBE IN – RESULT OUT

Fully automated microplate 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

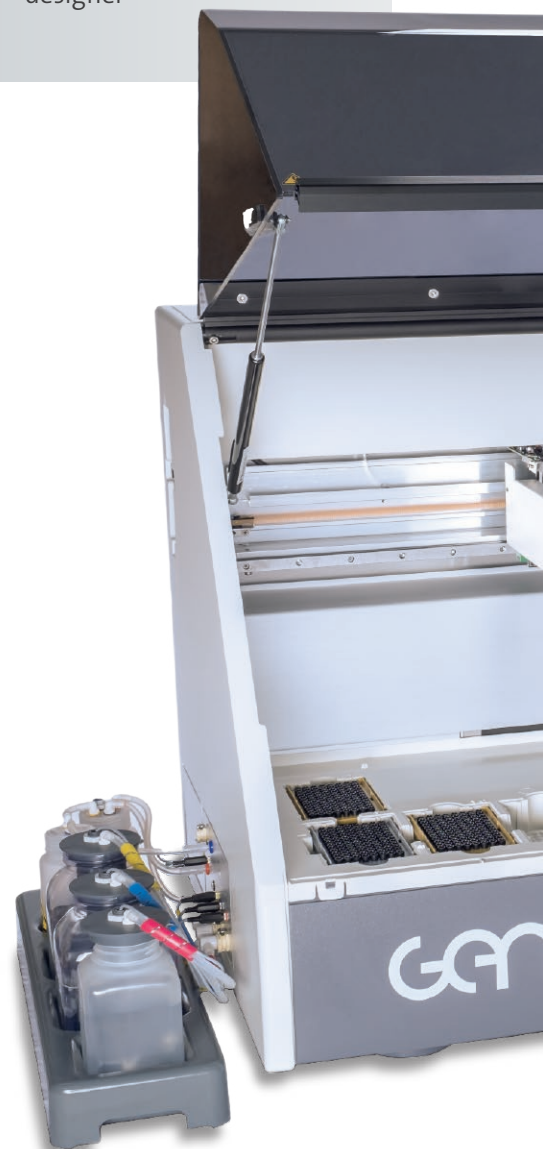
- 2 x 8-channel washer (aspirate and dispense)
- Three wash buffers
- Sweep mode, soak, top and bottom wash, variable pump speed

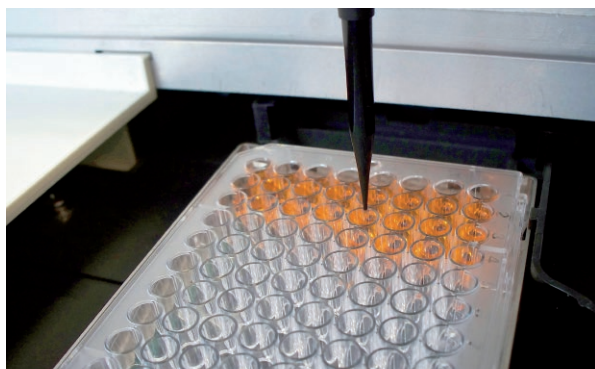


Gemini Combo with ifa application available

OPTIONAL

- 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



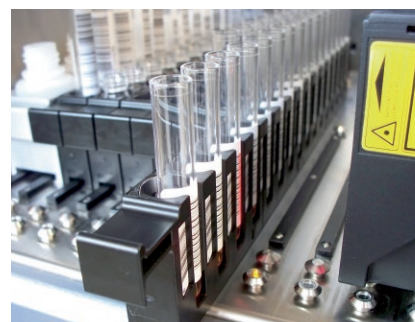


Safety and in-process control

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

Capacity and throughput

- Initial loading of up to 192 samples
- Continuous loading
- Three disposable tip rack positions
- Two deep-well plate positions for pre-dilution and / or archiving

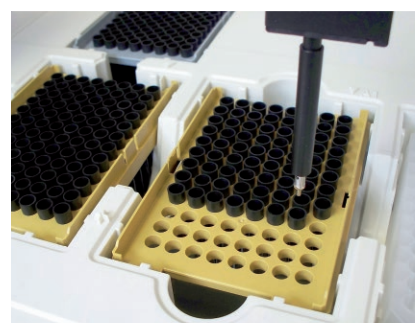


Ease and flexibility

- 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

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

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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%

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	Pipetting pressure monitoring, capacitive liquid level detection, tip detection, mixing, multiple dilution steps, archiving

Capacity

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

Dimensions

Width x Depth x Height	125 cm x 90 cm x 75 cm 49.2" x 35.4" x 29.5"
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All values are achieved under optimal conditions and can vary depending on environmental conditions, instrument status and processing conditions. Specifications are subject to change with notice according to STRATEC's "Change control system".

ABOUT US

STRATEC designs and manufactures fully automated analyzer systems for its partners in the fields of clinical diagnostics and biotechnology. These partners market such systems, in general together with their own reagents, to laboratories, blood banks and research institutes around the world. The company develops its products on the basis of its own patented technologies.

The STRATEC Group consists of the publicly listed parent company STRATEC Biomedical AG and of subsidiaries and second-tier subsidiaries in Germany, the USA, the UK, Switzerland and Romania.

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EASY INTEGRATION – NO LIMITS

Additional functionality through middleware software

Easy integration	Wide range of interfaces allows consolidation of results from other instruments
Connects host	Provides smooth real time bi-directional communication between device and LIS
Connects instruments	Operates with single or multiple GEMINI installations

Additional benefits

Short/long term data storage	Can operate with local dbase or SQL server
Retest management	User definable retest and reflex management
Drill down	Extensive drill down capability on sample or plate data
Open and definable	User definable functions (e.g. reporting) allows maximum flexibility
Closed and secure	Software can be locked to operate as a secure closed system