

ELISA INSTRUMENTS

⊕ STRATEC GEMINI: THE RIGHT COMBINATION

- 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
- Operating System: Windows 10

⊕ STRATEC GEMINI

Fully automated microplate processor for low throughput applications. Easy integration, no limits.

CAT#: GEM10041566



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".



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)
Wavelength reading	Single or dual
Assay protocol type	End point and kinetics
Shaking	Yes

Pipettor

Disposable tips	300 µl or 1100 µl
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	Flexibly programmable for single pipetting, multiple pipetting, multiple dilution steps, mixing and archiving. Pipetting pressure monitoring, capacitive liquid level detection.

Capacity and throughput

Sample and reagent	Initial loading of up to 192 samples, e.g. 144 samples + 8 reagents + 16 controls Continuous loading of samples and resources Three disposable tip rack positions Two deep-well plate positions for pre-dilution and /or archiving
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Incubator

Temperature range	Up to 45° C
Temperature uniformity	± 1.5° C (with in-process temperature monitoring)
Shaking	Up to 20 Hz
Chambers	Two independently controlled incubator chambers (RT- 45° C) with shaking (5-20 Hz) Three room temperature incubation chambers

Washer

Channel	2 x 8-channel washer (aspirate and dispense)	
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 & weight

Width x Depth x Height	97 cm x 66 cm x 75 cm	38.2" x 26.0" x 29.5"
Weight	151 kg (Gross weight), 115 kg (net weight)	

Additional functionality through middleware software

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

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	Use functions (e.g. reporting) definable allows maximum flexibility
Closed and secure	Software can be locked to operate as a secure closed system

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

Safety and in-Process Control

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

➤ STRATEC GEMINI COMBO

- 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



CAT#: GEM10041560

Specification

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

➤ CONSUMABLES AND SPARE PARTS

Access to consumables and spare parts Stratec Gemini + Gemini Combo

- Racks
- Adapters
- Conductive tips
- Dilution plate
- Maintenance kit and tools
- Spare parts

Assays Protocols available

Diasource can provide fully support in the adaptation of assays on the Stratec Gemini

For more information, please contact: instrumentation@diasource.be