stratec•• biomedical

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	< 3% CV at 20 µl
(single dispense)	< 3% CV at 100 µl
Precision	< 10% CV at 16 x 20 µl
(multi dispense)	< 3% CV at 8 x 100 µl
Features	Pipetting pressure monitoring, capacitive liquid level detection, tip detection, mixing, multiple dilution steps, archiving
Dimensions	
Width x Depth x Height	125 cm x 90 cm x 75 cm 49.2" x 35.4" x 29.5"
IFΔ	

IFA				
Capacity				
Processing	of up to	16 IFA	slides p	er 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	

ELISA

Capacity	
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	\pm 0.005 OD or 2.5% (whichever is greater)
Linearity	0 to 2.000 OD ± 1%
Incubator	
Temperature range	Up to 45°C
Temperature	± 1.5°C (with in-process temperature uniformity 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

GENE FIRMUS INTEGRATED MANAGEMENT AND WORKING FLOWCHART





ALI

FAX

SPA



Gemini Combo ELISA and IFA slide Processor



ALI FAX®

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



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





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

Pipetting

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



