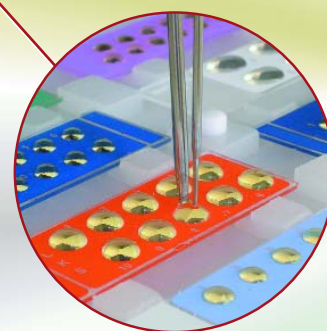
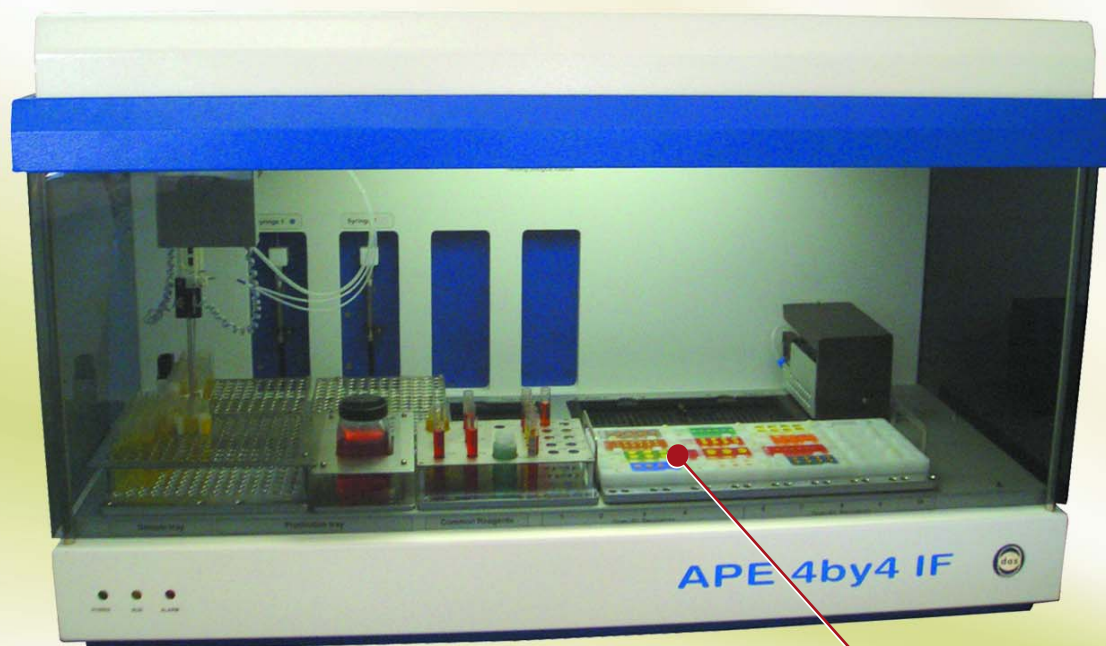


APE 4by4 IF

Fully automated 4 plate ELISA
and 16 IFA slide processor

CE



APE 4by4 IF is the latest version of combined ELISA and IFA automated processors of DAS. The instrument is able to manage 4 ELISA micro-plates with 10 methods on line or 16 IFA slides with 8 methods on line. All parameter settings for predilution, dispense, incubation, washing, reading and data processing are available. No pre-adjustments or particular calibrations are required. The user's friendly approach for both software and hardware enables the operator to start working with the instrument as soon as it is out of the box.

Lab advanced automation



APE 4by4 IF

ELISA TECHNICAL FEATURES

Sample racks	180 sample tubes of 12mm
Predilution rack	1 tray with 195 tubes
Reagent holders	modular racks to hold calibrators, controls and reagents for 10 methods on line
Liquid reservoirs	tanks and 4 washing buffer bottles, all equipped with level sensors for a full run capacity
Micro plates	4 plates (96 wells) with incubation capability, from room temperature to 45°C
Dispense system	X-Y-Z movements with 2 independent needles, each one equipped with its own liquid sensor
Microplate washing	two 8 nozzle on line manifolds able to self-conform to different micro-plates height
Reading system	8 independent photo-metric channels for mono and bichromatic readings
Optical filters	2 filters (450 and 630nm); 2 additional on request (max 4 filters)
Reading inaccuracy	± 1% from 0.000 to 1.500 OD; ± 2% from 1.500 to 3.000 OD
Aspirate System	from 8µl to 1000µl, 1µl resolution, inaccuracy ± 1% with 100µl
Washer buffers	4 different washing buffers on line
Quality control	Integrated

COMMON FEATURES

Servicing	Easy maintenance
Connection	LIS interface capability, work list set up from Host computer. Capability of connecting more instruments to a single PC.
Communication port	Bidirectional USB
Power requirements	230/115 VAC, 50-60 Hz, 650W
Measurements	115 x 65 x 65 cm
Weight	103.5 Kg

OPTIONAL	bar code reader for sample identification
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IFA TECHNICAL FEATURES

Sample racks	180 sample tubes of 12mm
Predilution racks	2 trays of 108 single cuvettes each. Total number of cuvettes 216
Reagent holder	trays for 8 assays on line, with 2 sample diluents, 15 controls, 7 conjugates, Evans Blue, probe washing solution using the same bottle kits
Liquid reservoirs	external tanks and 1 washing buffer bottle, all equipped with level sensors
Slide tray	allotment for 16 slides
Dispense system	very accurate and fast X-Y-Z movement with 3 independent needles, 2 to dispense and with its own liquid sensor, the third to aspirate
Slide washing	flow or drop by drop system for single well using 2 needles, one to dispense and the other to aspirate
Aspiration system	from 8µl to 1000µl, 1µl resolution, inaccuracy ± 1% with 100µl
Dispense Dilution system	controls and samples in single or in double 12 dilution ratios programmable by the user, serial dilution into 2 predilution tubes with bypassing option
Settable parameters	incubation times for each assay; volume for samples and reagents; slide mask, number of wells and thickness for each slide; shape, size and coordinates for each slide wells; flow or number of drops for specific washing duration
Printout	worklist, tray configuration, assay setup, undetected liquids

THE SHOWN FEATURES COULD BE ALTERED WITHOUT NOTICE