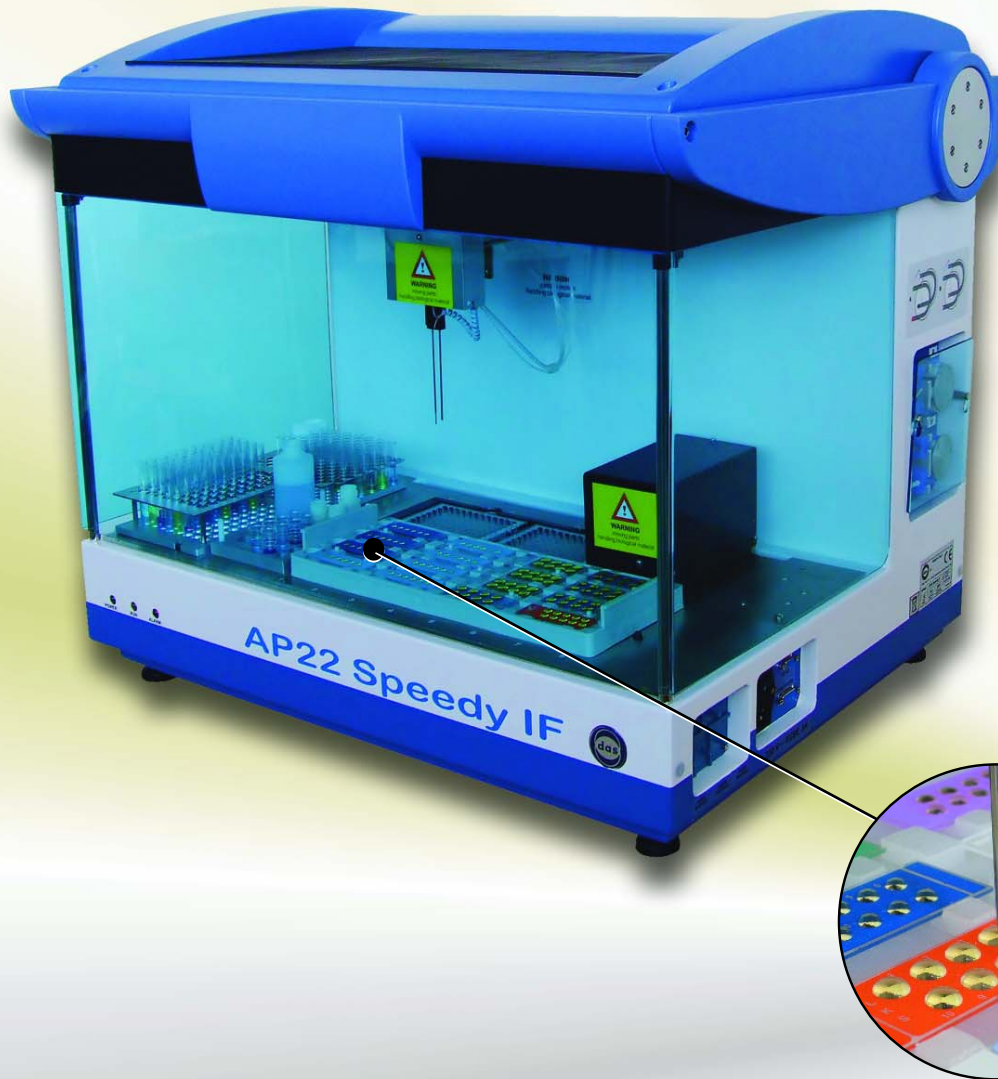


AP22 Speedy IF

Fully automated
ELISA/IFA processor

CE



AP22 Speedy IF is a fully automated micro-plate and slide processor for ELISA and IFA methods. The instrument is able to manage 2 ELISA micro-plates with 8 methods on line or 16 IFA slides, from sample pre-dilution and reagent/dispensation, incubation and washing cycles to the Final reading and data processing. Thanks to its technical knowledge DAS has been able to merge both technologies, ELISA and IFA assays on the innovative, powerful and reliable AP22 Speedy IF system.

Lab advanced automation



UNI EN ISO 9001:2000 CERTIFIED COMPANY

AP22 Speedy IF

TECHNICAL FEATURES

Sample tubes	60 / 80 – Ø 12 mm sample tubes or 40 – Ø 16 mm sample tubes
Elisa dilution cups	92 positions
IFA dilution cups	92 or 200 positions
Removable trays	modular racks to hold calibrators, controls and reagents for 8 methods on line
Reservoirs	5 external reservoirs: 4 with level sensor (BUFFER 1, 2, wash and waste), 1 without level sensor (slide PBS)
Microtiter plates	2 standard plates (12 x 8 well format) with programmable incubation from room temperature to 45 °C
Liquid handling	2 probes: one for dispensation and dilution, the other for slide washing
Plate washing	two 8 nozzle manifolds one for dispensation and the other for aspiration
Reading system	8 independent photo-metric channels with mono and bichromatic reading capability
Interferential filters	2 precision filters (450 and 630 nm); 2 more on request (4 filters max, 400-700nm)
Reading capability	reading from 0.000 to 3.000 OD, inaccuracy ± 1% from 0.000 to 1.500 OD; ± 2% from 1.500 to 3.000 OD
Dispensation	from 8 µl to 1000 µl by steps of 1 µl, inaccuracy ± 1% with 100 µl

IFA TECHNICAL FEATURES

Sample predilution time	20s with 1ml of washing solution
Sample dispence time	9s with 1ml of washing solution
Reagent dispence time	42s for a 12 well slide for 20 µl each (including washing with 1 ml buffer)
Sample dispence	CV < 2% at 100 µl
Reagent dispence	CV < 2% at 100 µl
Supplied trays	1 tray with 16 positions for IFA slides; 1 reagent tray for 12 controls, 4 conjugates (3 in case of Blue Evans dye), 1 washing solution for the probe and 1 diluent for samples
Level sensor probe	sensitivity able to detect 150 µl
Slide washing	2 probe flow or drop washing system for the same well, one to dispense and the other to aspirate

OPERATING FUNCTIONS

The instrument can manage 8 methods (IFA 2) with sample diluent and a washing Buffer (Blue Evans dye optional) in the same run.

Slide Parameter Setting	<ul style="list-style-type: none">• Slides mask configuration• Wells shape and size configuration• Total number of wells per slide• Number of well lines, max 2 per slide• Coordinates of the first and last well of each line• Slide thickness• Controls and samples in double dispensation
Slides Washing Setting	<ul style="list-style-type: none">• Distance between probes by 1/10 mm steps• Distance between the dispensation probe tip and slide surface by 1/10 mm steps• Distance between the aspiration probe tip and slide surface by 1/10 mm steps• Washing cycle duration from 1 to 10s (flow washing)• Number of washing cycles from 1 or 2• Dispensation flow from 100 µl to 900 µl/s on the slide (flow washing)• Drop number (drop by drop)
General information	<ul style="list-style-type: none">• Possibility to define incubation time and dispence volume for samples and conjugates• “Blue Evans dye” settings• Possibility to set different incubation times for each method in the same run• Programmable dilutions: 10 for ELISA, 12 for IFA• Serial dilution with 2 predilution cuvettes• Last session work list printing• Work list traceability• Printing of tray configuration: sample, predilution, reagent and slide trays• User-friendly software program, with on-line help• Assay set up printing• Slide set up printing• User-friendly software program, with on-line help• Memorization of the programmed settings• Host Computer Work list set up• Possibility of bypassing the dilution phase• Possibility of setting the slide thickness for each method in the same run• Display and printing of the undetected liquid
Connection	<ul style="list-style-type: none">• LIS interface capability, work list set up from Host computer• Capability of connecting more instruments to a single PC
Power requirements	230/115 VAC, 50-60 Hz, 350 W
Measurements	cm 62 x 82 x 72 h
Weight	80,5 Kg

OPTIONAL: Sample Bar Code Reader

THE SHOWN FEATURES COULD BE ALTERED WITHOUT NOTICE