



THE COMPANY



A touch of Originality



Technology exported  
all over the world

**das** company is based in Palombara Sabina – Italy since 1977, starts with propensity to the innovation in the electro-medical sector, beginning with pediatrics, by proposing alternative equipments with competitive solutions. Later on DAS acquires knowledge and competences in other application fields and introduces new innovative automated air pollution samplers that are immediately well received by the international market, at the same time, new automated systems with strong innovation concepts are designed and produced, specifically for the In Vitro Diagnostics branch, and are much appreciated by both markets of reference, national and international.

Currently **das** designs and produces within its premises, following the continuous evolution and technological transformation, automated systems more sophisticated and complex than ever, with the aim of constantly enhancing the performances and the quality of product, but also to facilitate the use and maintenance of its instruments, guaranteeing better analytical results and higher reliability. The most recent product line "ELITE", due to its outstanding flexibility and originality, stands out to the attention of IVD market that relates to the analytical full automated process of ELISA - IFA - BLOT.

Every activity within the company, from management to design and production is carried out according to the quality standard regulations: UNI EN ISO 9001 - UNI EN ISO 13485.

Instrument configurations

	ELITE	ELISA	IFA	BLOT
AP22	ELITE	2 plates		
AP22 IF	ELITE	2 plates	16 slides	
AP22 IF BLOT	ELITE	2 plates	16 slides	24 strips
AP16 IF	ELITE		16 slides	
AP16 IF BLOT	ELITE		16 slides	24 strips
AP32 IF	ELITE		32 / 40 slides	
AP BLOT	ELITE			48 strips
APE	ELITE	4 plates		
APE IF	ELITE	4 plates	16 / 20 slides	

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UNI EN ISO 9001 - UNI EN ISO 13485

das srl

Viale Tivoli 102 - 00018 Palombara Sabina (Roma) - Italy  
Tel. (+39) 0774 637070  
e-mail: info@dasitaly.com - web: www.dasitaly.com



rev. 03



Applied Innovation since 1977

**AP22 ELITE**  
ELISA AUTOMATION

Full automated system for ELISA and ALLERGY tests. The instrument is able to manage two 96-well microplates with dedicated temperatures and separated shakers, 8 tests on line, sample and reagent dilution. The management of different incubation times and different washing modes in the same run allow the contemporary process of a wide range of protocols up to the final reading and specific data processing. A system made of sliding racks and barcode reader allows the detection of different kind of sample codes and the management of different shapes of tubes in the same run.



**AP22 IF ELITE**  
ELISA-IFA AUTOMATION

Full automated system for ELISA and IFA methods. In addition to all the ELISA features of AP22 ELITE, the instrument is able to process in the same run 16 IFA slides with different thickness and well shape, serial dilution of samples also by double diluent. It is able to dispense Mounting Medium, perform "well by well" sample and reagent washing by drop or continuous flow mode depending on the size and shape of the wells and their arrangement on the slide. The instrument flexibility and a wide range of work area configurations allow also the contemporary process of ELISA and IFA. A camera for reading slide barcodes is available as a factory option or upgrade.



**AP22 IF BLOT ELITE**  
ELISA-IFA-BLOT AUTOMATION

Full automated system for ELISA, IFA and BLOT methods. The dedicated Blot Module and Camera device, in addition to all the AP22 IF ELITE features, allow to carry out the full automation for 24 Blot strips starting from sample dilution, sample and reagent dispense, incubation, strip washing up to the image processing and assessment for each strip. The software allows to edit, store and record patient data and reports.



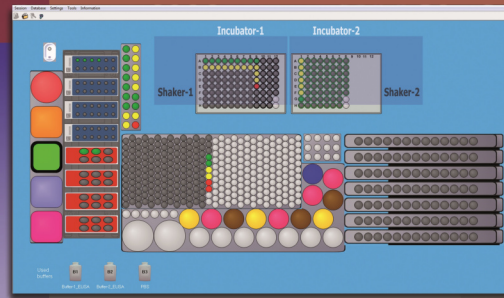
**APE ELITE**  
ELISA AUTOMATION

The largest version of automated processors produced by **das** for ELISA and ALLERGY tests. It is able to manage in the same run 10 methods arranged in 4 microplates at dedicated temperatures and 2 or 4 separated shaking devices. The system made of sliding racks and barcode reader assures the detection of different kinds of sample code and the management of several shapes of tubes in the same run. Its user friendly approach for both software and hardware allows the operator to start working with the instrument as soon as it is out of the box, no pre-adjustments or calibrations are required.

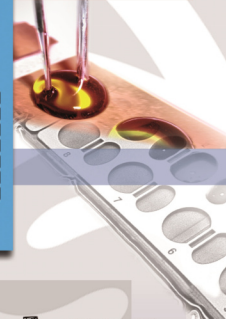


**APE IF ELITE**  
ELISA-IFA AUTOMATION

The largest version of combined ELISA and IFA automated processors of **das**. In addition to all the ELISA features of APE ELITE, this instrument is equipped with a three needle system for a rapid processing on 20 IFA slides and work sessions including ELISA and IFA simultaneously. An integrated moving barcode reader for sample and reagent custom sliding racks allows to identify automatically the rack type and to manage, in addition to sample codes, also reagent codes for data matching during the preparation of the work area before starting the run ("RR" configurations).



same run  
ELISA + IFA

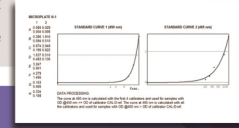


**Dilution:** up to 1/1000000 by serial mode, "On-fly" execution for preset fixed volumes of diluent and serum. Management of sample dilution panels for ELISA quantitative tests.  
**Washing:** selection from a list of three preset different modes for ELISA and IFA tests.  
**Programming:** Quick and easy setting of the protocol processing sequence, removal of preset protocol phases, additional phases inserting and free positioning in the sequence.  
**Processing:** Matching of different ELISA, IFA and BLOT methods in the same run.



**Designing:** customization of slide layouts, Multi-row setting, definition of different well size and shape in the same slide, asymmetric positioning of the wells, setting up of dedicated zones for different types of substrate.  
**Processing:** dedicated process for each well shape, fast by drop mode, soak time definition and intensive continuous flow washing. Single and double point Sample, Reagent and Mounting Medium dispense.

**Results:** automatic double curve interpolation, dedicated calculation systems for multi-dilution tests and Interferon- $\gamma$  (IFN- $\gamma$ ) detection. B/Bo and B/Bo(%) scale options, measure unit changing and dilution factor compensation. Flexible INDEX and Cut-Off setting, standard BLOT and ALLERGY BLOT automatic interpretation.  
**Validation:** Integrated system for Levey-Jennings plot of controls and reference samples, preset and programmable assay validation criteria.



**AP16 IF ELITE**  
IFA AUTOMATION

Reliable and fast IFA processor for 16 slides with any kind of thickness, well shape and number of rows in the same run. The barcode reader together with custom sliding racks for samples and reagents allow to manage many kinds of sample codes and vial shapes whereas slide linear and 2D codes are detected by an optional camera. Thanks to a powerful software it is able to carry out: double diluent serial sample dilutions, single and double point dispensing of samples, reagents and Mounting Medium as well as delicate or intensive "well by well" slide washings performed by drop or continuous flow. A Blot Module supplied as an upgrade allows BLOT tests processing.



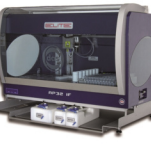
**AP16 IF BLOT ELITE**  
IFA-BLOT AUTOMATION

Flexible combo system for IFA and BLOT methods. In addition to all the AP16 IF ELITE features, a dedicated Blot Module and camera along with a quick and easy system to change the work area configuration allow a full automation processing of 24 BLOT strips starting from sample dilution and dispense up to the image processing and assessment for each strip. The same software, used for both IFA and BLOT, allows to edit, store and record patient data and reports.



**AP32 IF ELITE**  
IFA AUTOMATION

The largest IFA-only instrument produced by **das** able to process up to 40 slides. A special three needle system for dispensing two samples accelerates the process, and the independent movement of the needles with variable spacing ensures precise and accurate washing of slides depending on the size and the shape of each kind of well. The barcode reader and the custom sliding racks allow to load samples with different kinds of code and tube as well as the using of reagent vials directly from the box. A camera, supplied as factory option or field upgrade, is used to detect both linear and 2D codes of the IFA slides.



**AP BLOT ELITE**  
BLOT AUTOMATION

Fully automated BLOT processor able to manage sample and reagent dispense, incubations, strip washings and reading. The system measures the reaction intensities, provides results and manages final report archiving. Pictures of processed strips are directly taken from a digital colour camera when are still into the allotment trays, avoiding the strip removal and the time-consuming task to collocate the strips on dedicated sheets. Specific work area configurations allow to process ALLERGY tests and an optional heating system reduces the strip drying time before the reading phase.



same Hardware and Software for all the systems

All **das**' IFA processors are Camera and Blot ready, devices easy to install even when the instruments are already in the field.

Automation original solutions



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