



SkyLAB 752

Fully automated 5 plates ELISA and IFA Analyser
CE and FDA approved



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ELISA and IFA

The ability to process up to 500 samples in a single worklist.

The robustness of the system.

The accuracy of the results and the ease of use in terms of simplicity.

Skylab 752 a valuable laboratory tool for ELISA and IFA analysis.

Dozen systems are installed in the largest hospitals in Italy under normal laboratory use conditions.

Developed entirely in EVEREX.

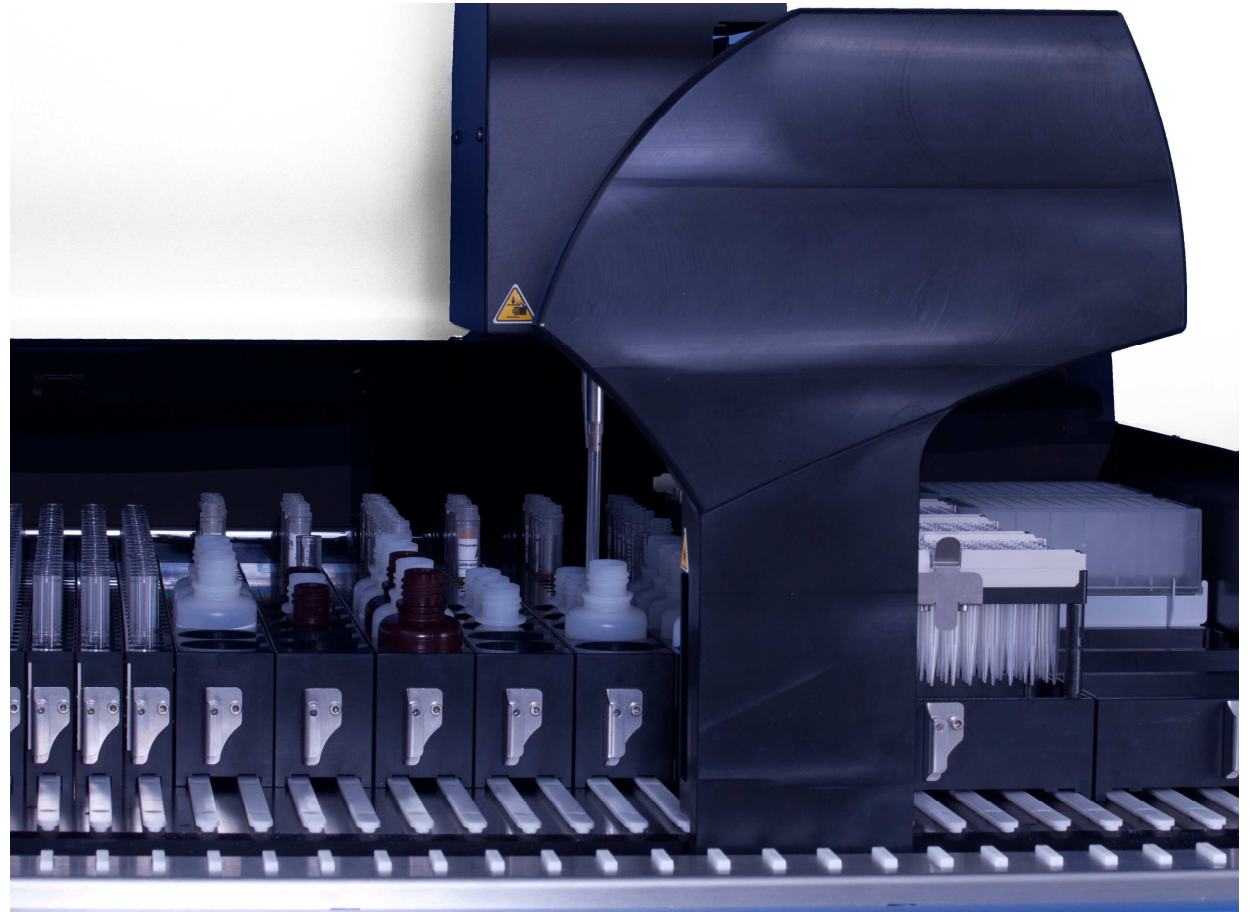
Produced entirely in EVEREX.

Skylab 752 is our idea of a Screening Tool for large work routines



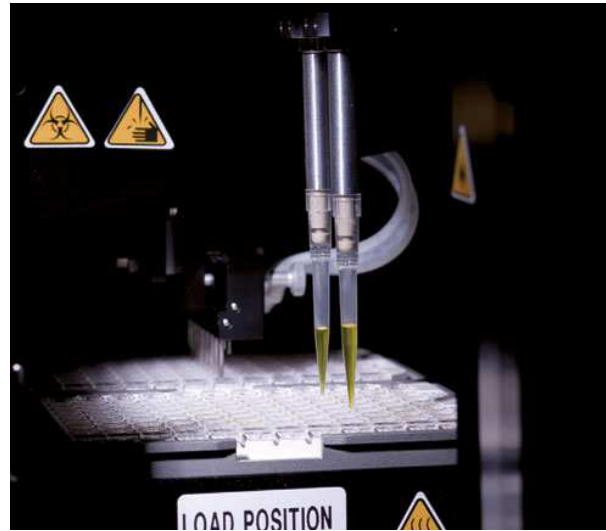
Resources area

- Samples: different kind of tubes (from 11mm to 16mm up to 100mm height)
- Reagents: original bottles directly on board with barcode label
- Disposable: 200ul-1000ul plastic tips and deep well strips for samples predilution



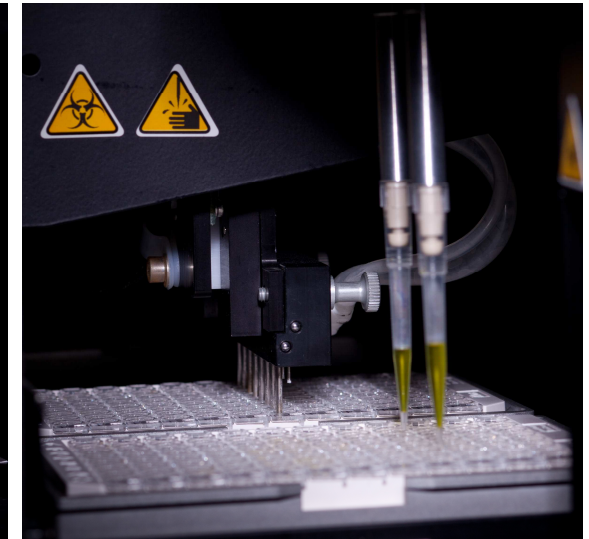
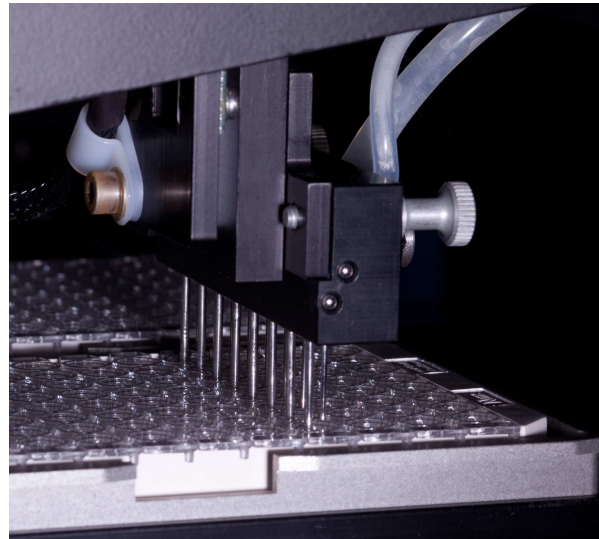
Pipetting

- 2 independent innovative pipettors with flow meter sensors
- Clot and bubble detection
- 2 different types of tips



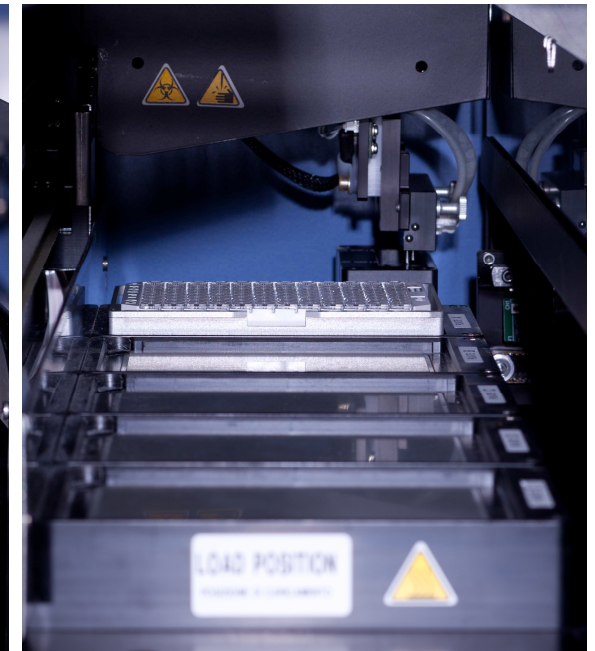
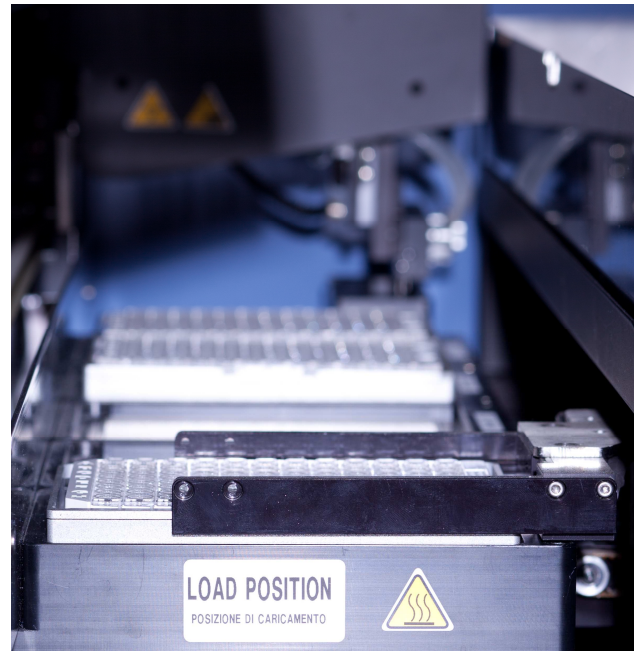
Washing station

- Simultaneous operations of washing station and pipettors
- Washing station synchronized with pipettors
- Up to 4 different washing buffers
- Continuous monitoring of buffer volumes and waste tank
- Up to 5 aspiration points



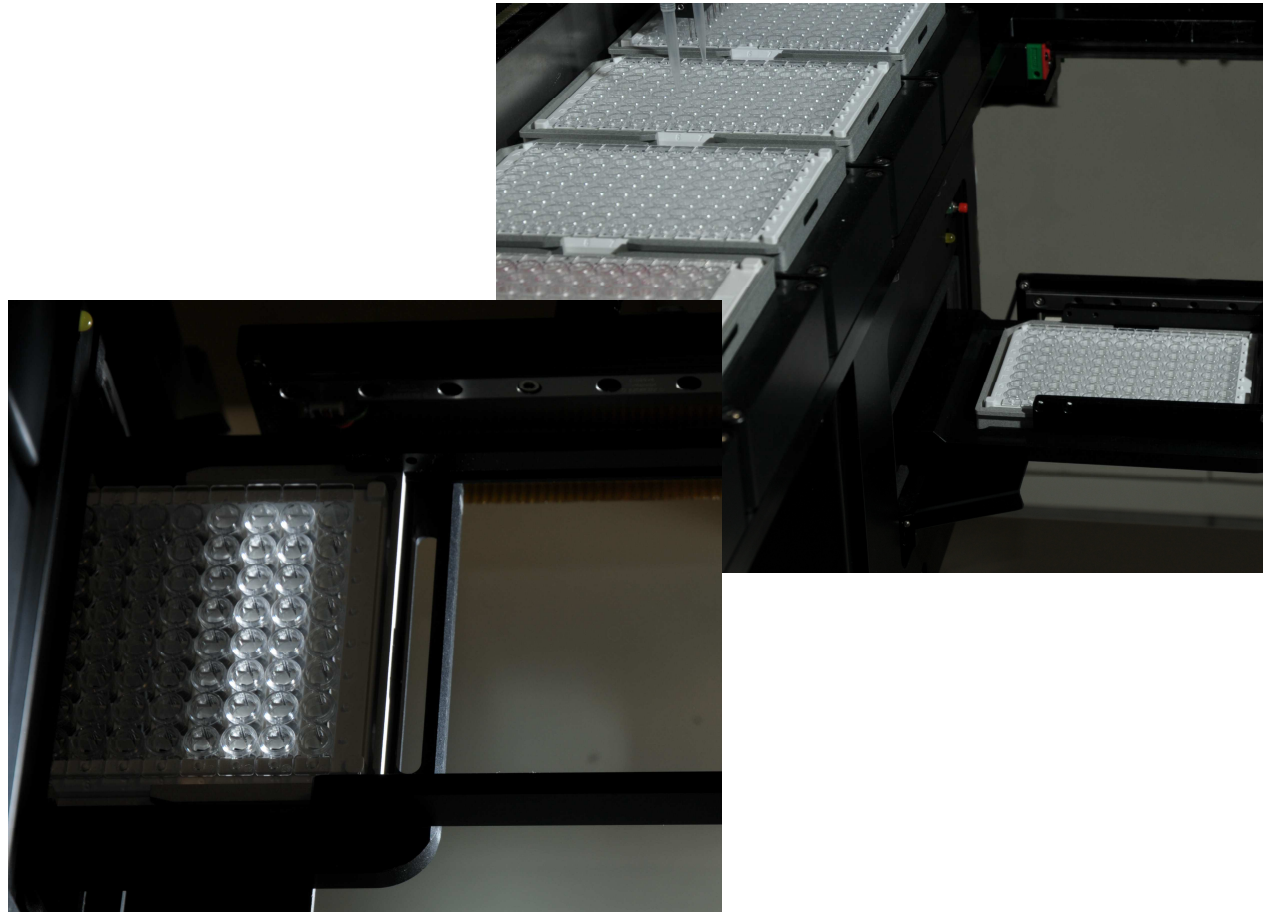
Incubation

- 5 different incubation positions
- Orbital incubators
- Up to 4 shakers available
- Elevator arm to move plates
- Ambient temperature up to 45°C



READING

- Up to 3.5 od dynamic range
- 2 led for different wavelength
- Ultra long life led to avoid service
- 5 seconds to read 1 microplate
- High resolution scanning

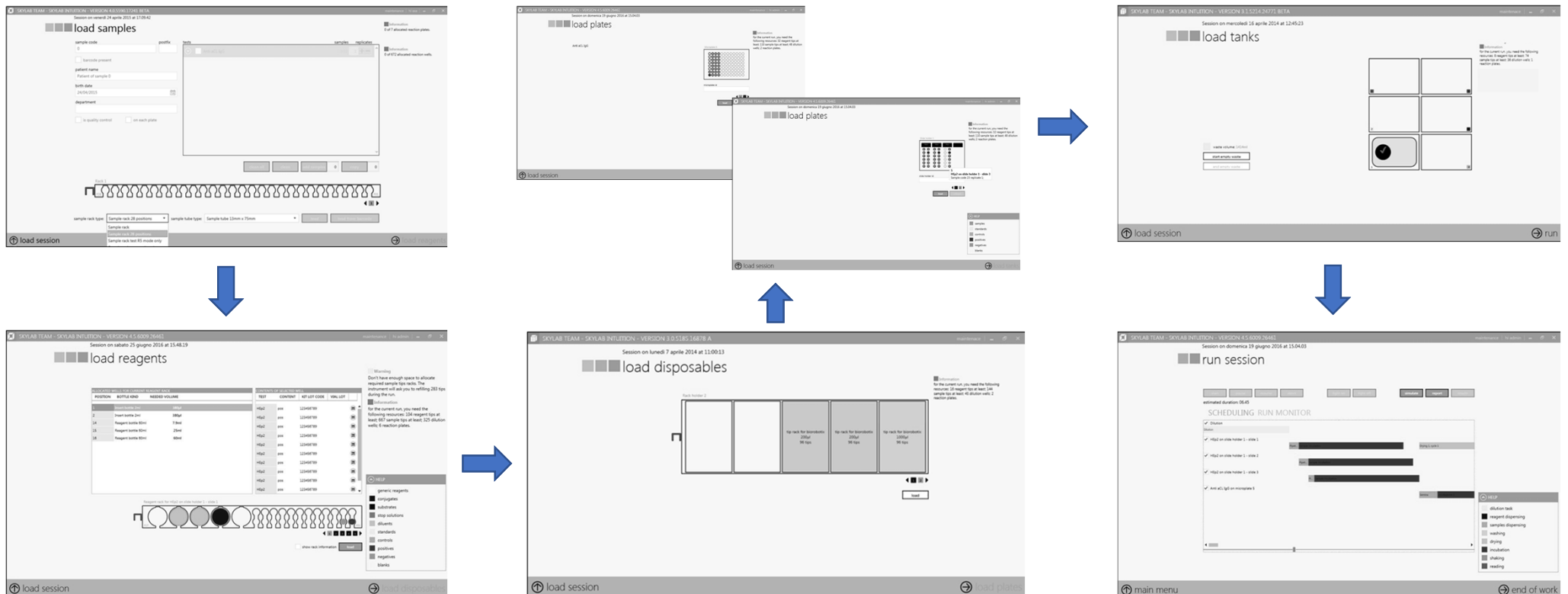


Software

- SkyLAB 752 software is designed to be a user friendly instrument and easy to use
- **Intuition** is a software developed to provide the best user experience thanks to a modern user interface able to guide the operator through the operations programmed for each single parameter
- **LabFLOW** and **EasyRESULT** enable a product specialist to easily implement any methods on SkyLAB 752 analyser
- **xCONNECTION** provides support for communication with LIS and preanalytical systems.

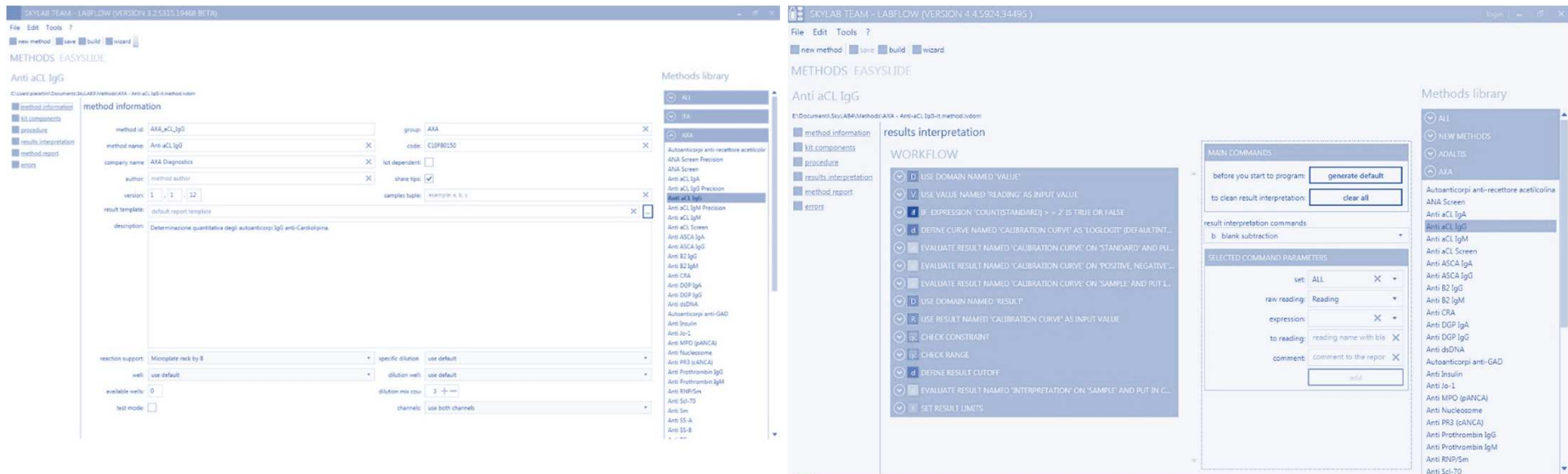


Intuition - Guide the operator step by step



“**LabFLOW**” is the software package used to define the methods (tests) to be executed by the “**Intuition**” software on the *SkyLAB 752* instrument.

By using the “**LabFLOW**” software, it is possible to program both ELISA methods and IFA methods. LabFLOW is the software package intended for being used by the product specialists.



The image displays two screenshots of the LabFLOW software interface. The left screenshot shows the 'method information' tab for 'Anti aCL IgG', displaying fields for method ID, name, company, author, version, and description. The right screenshot shows the 'results interpretation' workflow, listing commands like 'USE DOMAIN NAMED VALUE', 'USE VALUE NAMED READING AS INPUT VALUE', and 'EVALUATE RESULT NAMED CALIBRATION CURVE'. It also includes a 'MAIN COMMANDS' panel with 'generate default' and 'clear all' buttons, and a 'SELECTED COMMANDS PARAMETERS' section.

Advantages

- ELISA and IFA
- Multilanguage software (english , portuguese , italian, german available , others on request)
- Customizable working area
- Easy reagents and consumables loading
- Positive id of samples and reagents
- Intuitive software
- Remote diagnostic
- Remote software upgrade
- Flexible connection with L.I.S. with ASTM E1394 and ASTM E1381 (RS232 and TCP/IP physical connection)
- State of the art LED optical system
- Kit to instrument (ready to load all the reagents in a barcoded frame)
- Clot detection
- Programmable speed of orbital shaking

Technical specifications

General specifications

Number of plates	Standard 5 + 2
Number of IFA slides	Standard 20 (5 holders x 4)
Sample capacity	Up to 288 primary tubes against 2 tests Up to 560 primary tubes against 1 test in Sample and tips continuous loading mode
Continuous sample and tips loading	Yes
Sample tube size	Diameter: max 16 mm Height: max 100 mm
Number of reagents	From 5 to 40
Number of controls	From 12 to 96
Assays per plate	From 1 to 12
Reagent fluid capacity	Up to 60 ml bottles
Self-test at start-up	Yes

Pipetting specifications

Number of pipettes	2 independent channels using disposable tips for samples and reagents
Sample tip type	Standard disposable tips
Sample tip size	200 – 1000 µL
Sample pipetting volume	1 – 200 µL (with large tips up to 1000 µL)
Estimated transfer time	< 9 seconds per sample
Dispensing time	< 14 minutes (for 96 samples with volume of 100 µL)
Precision	Reagents: ≤ 3% CV (10 replicates) for any operating volume above 25 µL Samples: ≤ 3% CV (10 replicates) for any operating volume above 10 µL
Accuracy	Reagents: ± 3% CV (10 replicates) for any operating volume above 25 µL Samples: ± 3% CV (10 replicates) for any operating volume above 10 µL
Adding reagent to full 96 plate	From 3 to 7 minutes depending on reagent volume (50 to 200 µL)
Pipetting scheme for samples and controls	Horizontal or vertical
Dispensing and aspiration speed parameters	Up to 3 different speed profiles for pipetting of samples, controls, diluents and reagents
Faster aspiration/dispensing for non-foamy reagents	Yes

Technical specifications

Incubator specifications

Number of incubators	<p>Up to 7, with following configuration:</p> <ul style="list-style-type: none"> • 5 independent under plates on the working area • 1 under plate below the working area • 1 shaker-incubator unit below the working area <p>1 to 3 optional extra shaker-incubator units below the working area</p>
Temperature range	RT (+ 7°C) to + 45°C
Accuracy	± 1°C
Temperature uniformity	± 1°C
Shaking	Yes (optional up to 4 plates) 200 – 1000 rpm

Washer specifications

Manifold configuration	1 (8-way wash head)
Programmable volume	50 – 2000 µL
Residual wash volume	< 3 µL per well in a flat bottom plate
Wash containers	4 tanks at 2.0 L
Buffer level alarm	Yes (with continuous level sensing)
Waste container	8 L with continuous level sensing
Dispense precision	≤ 5% CV (with 300 µL H ₂ O in 96 well)
Liquid level sensing	Gravimetric for all tanks and waste container

Technical specifications

Reader specifications

Photometric range	0 – 3.3 OD
Spectral range	400 nm to 700 nm
Filter slots	8
Precision	<p>1 SD (at 0.000 to 0.500 OD)</p> <p>≤ 1% CV (at 0.501 to 2.000 OD)</p> <p>≤ 1.5% CV (at 2.001 to 2.500 OD)</p> <p>≤ 2.0% CV (at > 2.501 OD)</p>
Accuracy	± 0.01 OD or 2.5% (at 0.000 to 3.300 OD) whichever is greater
Read time	<p>5 seconds, single wavelength</p> <p>8 seconds, dual wavelength</p>
Kinetic reading	Yes, with embedded result calculation capability

Other specifications

Number of reagents tips	96
Reagent pipetting volume	Up to 1000 µL
Number of sample tips loaded	<p>Up to 9 tip racks (864 in total)</p> <p>No tip number limits in continuous loading mode</p>
Dilution range	<p>1 part in 200 one stage dilution</p> <p>1 part in 40000 two stages dilution</p>
Direct in-plate predilution	Yes
Barcode reader for samples and resources identification	Yes, with capability of reading EAN/UPC, Code 39, interleave 2 of 5, Code 93 and Code 128 barcode formats
Capability of processing Combi/Profile assays	Yes
Calibration curve data storage	Yes, per any reagent kit lot, with possibility of using stored curves or updating curves using 1 or more points of curve recalibration
Secure access to system functionality	Yes, password protection on system parameters and method programming

Technical specifications

Dimensions

Width	1300 mm / 51.18 in
Depth	940 mm / 37.00 in
Height	980 mm / 38.58 in
Weight (net)	220 kg / 485.01 lb