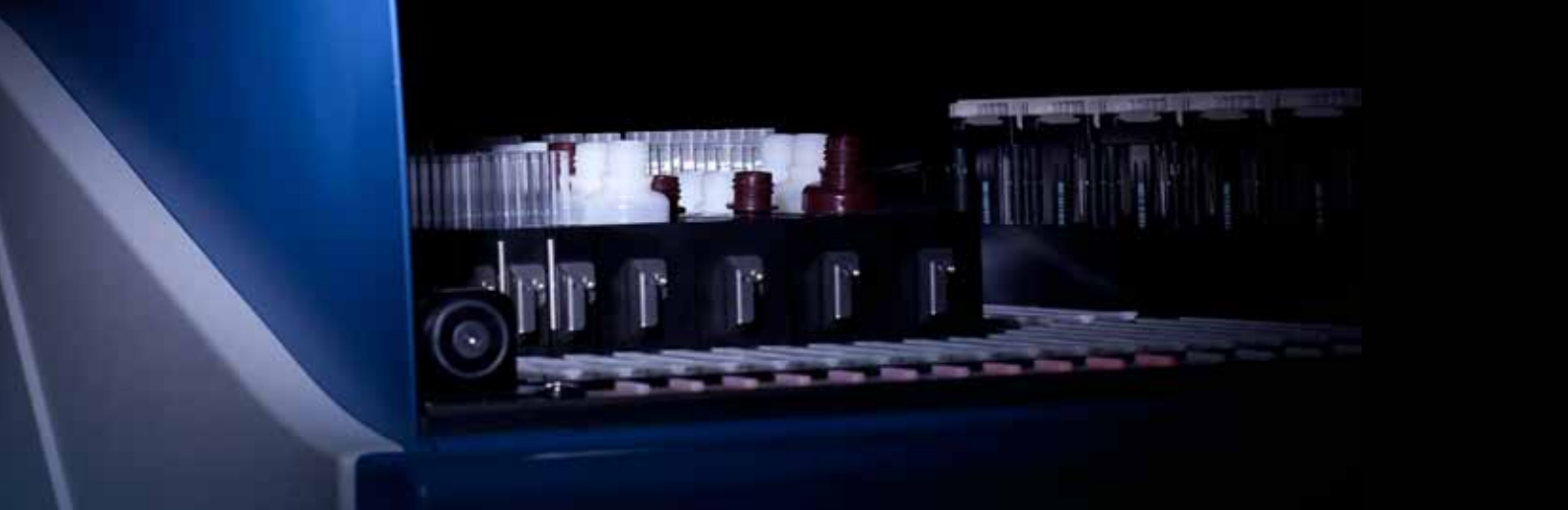


SkyLAB 752

SkyLAB 752

- pipetting system
- working area
- washing station
- reading system
- incubators

technology for everyone



∞ SkyLAB 752™

SkyLAB 752™ is an analyzer that processes EIA microplates and IFA slides simultaneously. The instrument's architecture was designed to make it adaptable to the Microarray technology as well.

Thanks to the flexibility of the working area, SkyLAB 752™ is an instrument that naturally meets a Lab's many requirements and it is designed to be easily integrated with a preanalytical system.

The barcode labels on all the resources on board are read by an automatic barcode reader.

∞ easy to use

SkyLAB 752™ is designed to be a user friendly instrument, easy to use and to manage.

Intuition™ is a software created to provide the best user experience due to the more modern user interface that guides the operator step by step to perform all operations.



LabFLOW™ and EasyRESULT™ enable a product specialist to implement in easy way any protocols on SkyLAB 752™ analyzer.

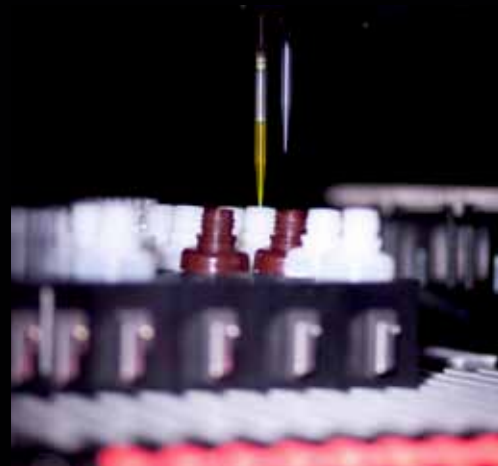
xCONNECTION™ provides support for communication with LIS and preanalytical systems.

xIVD™ is a technology that allows, in a single file, storage of all the information produced by the run and it is created to meet regulatory requirements such as 21 CFR Part 11.

∞ performance

SkyLAB 752™ is equipped with 2 innovative dispensing systems that allow it to work simultaneously and independently. This enables the instrument to pipette an entire microplate in half the time compared to other analyzers available on the market. It also allows to minimize the drift effect detecting zero carryover by using standard disposable tips.

The innovative and unique dispensing technology guarantees precision and accuracy in the level of identification and protection from clots and bubbles.



SkyLAB 752



The movement of the manifold robotic arm does not interfere with the movement of the other two robotic arms, pipettes and microplate robotic arm, making the dispensing, washing and reading steps independent of each other. This architecture allows to maintain strictly separated the single step times (as indicated in Kit Instructions for use) creating a minimized **drift effect**.

SkyLAB 752™ can accommodate up to five different washing buffers and one distilled washer and is equipped with 8 liter capacity waste container.

The washing pressure control makes the washer extremely flexible and adaptable for any assay.

In standard configuration SkyLAB 752™ accommodates 5 positions equipped with incubators on the working area. Under the working area there are 2 further positions, one of them equipped with incubator. Each of the 7 positions can contain both microplates and IFA slides.

As an optional, under the working area, SkyLAB 752™ can accommodate from 1 to 4 positions equipped with incubators and shakers that can contain both microplates and IFA slides.

In the configuration with optional, there are 10 total thermostated positions to accommodate the microplates and IFA slides.

The incubators can maintain temperatures between room temperature and 50°C.



The position of the incubators, under the microplates, enables all the test steps to be performed without moving the microplates. This novel design allows the microplates to be always be accessible by the washer and pipettes, even during the incubations step, so that all steps of the test procedure can be followed exactly for each strip.

This unique approach allows to minimize the **drift effect**.

SkyLAB 752™ uses an LED microplate reading system that allows precision, reduced maintenance and a 3.5 OD dynamic range.

A state of the art LED light-source provides high performance and minimum maintenance, large measurement range and excellent reproducibility.

High resolution scanning: each well is measured at a resolution of 0.2 mm providing 29 measurement values across each well.

pipetting system

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∞ technical specifications

DIMENSIONS

Width	130 cm
Depth	94 cm
Height	98 cm
Weight (net)	220 kg

GENERAL SPECIFICATIONS

Number of plates	Standard 7 Optional 10
Number of IFA slides	Standard 28 (7 holders x 4) Optional 40 (10 holders x 4)
Sample capacity	Up to 288 primary tubes against 2 tests Up to 24 primary tubes against 11 tests*
Continuous sample loading	Yes
Sample tube size	Diameter: max 16 mm Height: max 100 mm
Number of reagents	From 4 to 44
Number of controls	From 24 to 132
Assays per plate	From 1 to 12
Reagent fluid capacity	Up to 50 ml bottles
Self-test at start-up	Yes

* Tests with same dilution, diluent in common and 5 different wash buffers as maximum.
Intermediate configurations depend on the tests and samples number.

PIPETTING SPECIFICATIONS

Number of pipettes	2 independent channels using disposable tips for sample and reagent
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	< 8 seconds (for two samples)
Time to dispense	< 8 minutes (for 96 samples with volume of 100 µl)
Precision	< 5.0% (1 µl to 5 µl) < 2.0% (5 µl to 50 µl) < 1.0% (50 µl to 1000 µl)
Accuracy	< ± 10% (1 µl to 5 µl) < ± 2% (5 µl to 50 µl) < ± 1% (50 µl to 1000 µl)
Adding reagent to full 96 plate	From 3 to 4 minutes depending on reagent volume (50 µl to 200 µl)

INCUBATOR SPECIFICATIONS

Number of incubators	6, 5 independent under plate on the working area and 1 under plate under the working area 1 to 4 optional with shaking under the working area
Temperature range	RT (+7°C) to +50°C
Accuracy	±1°C
Temperature uniformity	±1°C
Shaking	Yes (optional up 4 plates) 200-1000 rpm

WASHER SPECIFICATIONS

Manifold configuration	1 (8-way wash head)
Programmable volumes	50 - 2000 µl
Residual wash volume	< 3 µl per well flat-bottom plate
Wash containers	6 tanks at 2 liters 5 washing buffers + 1 distilled washer
Low and half buffer alarm	Yes
Waste container	8 liters with waste full sensor
Dispense precision	< 5% CV (with 300 µl H ₂ O in a 96 well)
Liquid level sensing	Gravimetric for all tanks and waste container

READER SPECIFICATIONS

Dynamic range	0 - 3.5 OD
Spectral range	400 - 700 nm
Filter slots	8
Precision	±0.005 OD (at 1.5 OD)
Linearity	< ±0.75% (at 0.100 - 3.000 OD) < ±1.50% (at 3.000 - 3.500 OD)
Accuracy	< ±0.50% (at 1.0 OD 492 nm)
Read time	< 5 seconds
Shaking	3 modes

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