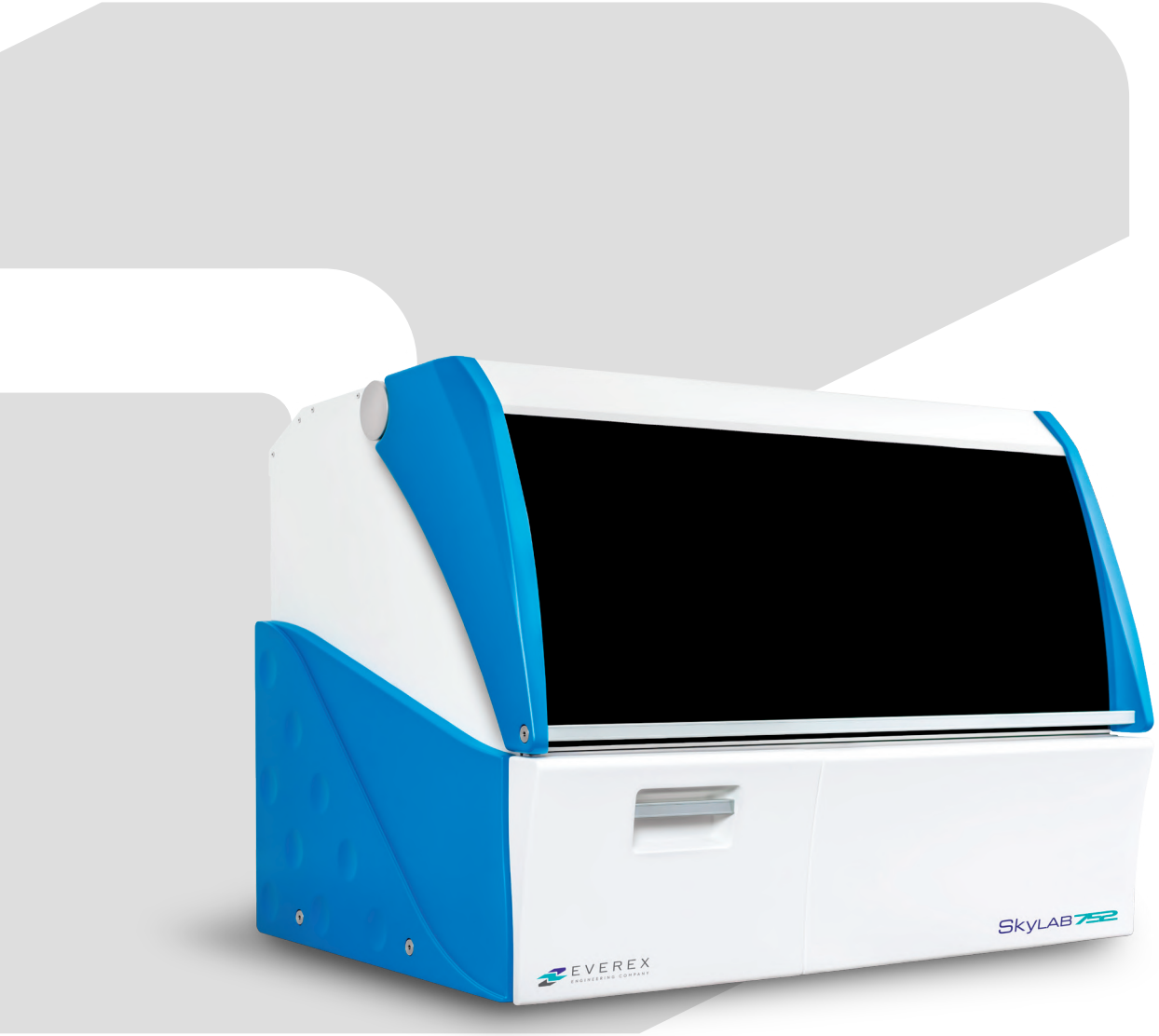


SkyLAB 752

Fully automated 5+2 plates
ELISA and IFA analyser
CE and FDA approved

EVEREX
ENGINEERING COMPANY

SkyLAB 752

SKYLAB 752 is an analyser that process ELISA microplates and IFA slides simultaneously.

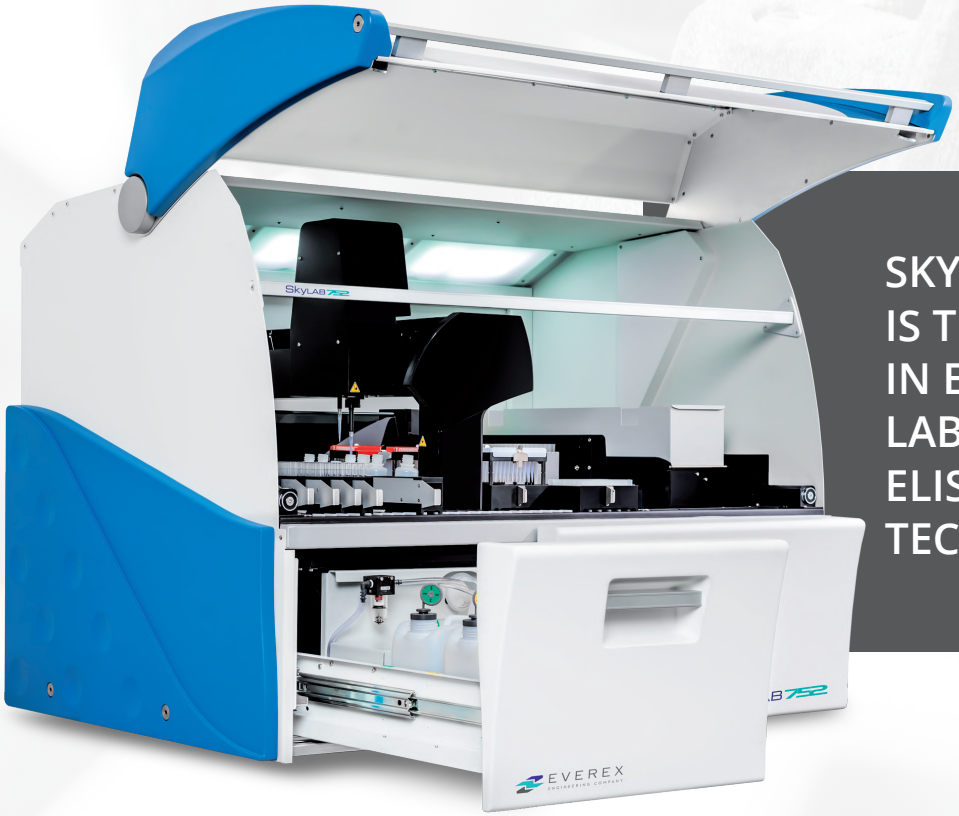
Thanks to the flexibility of the working area, SKYLAB 752 is an instrument that meets laboratory requirements and it is designed to be easily integrated with a pre-analytical system.

SKYLAB 752 is designed to be used by every lab's operator.
Easy to use and to manage simplify every step of the ELISA and IFA analysis in the laboratory.

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

SKYLAB 752 optical group use state of the art led microplate reading system that allows precision, reduced maintenance and achieve 3.5 OD dynamic range.

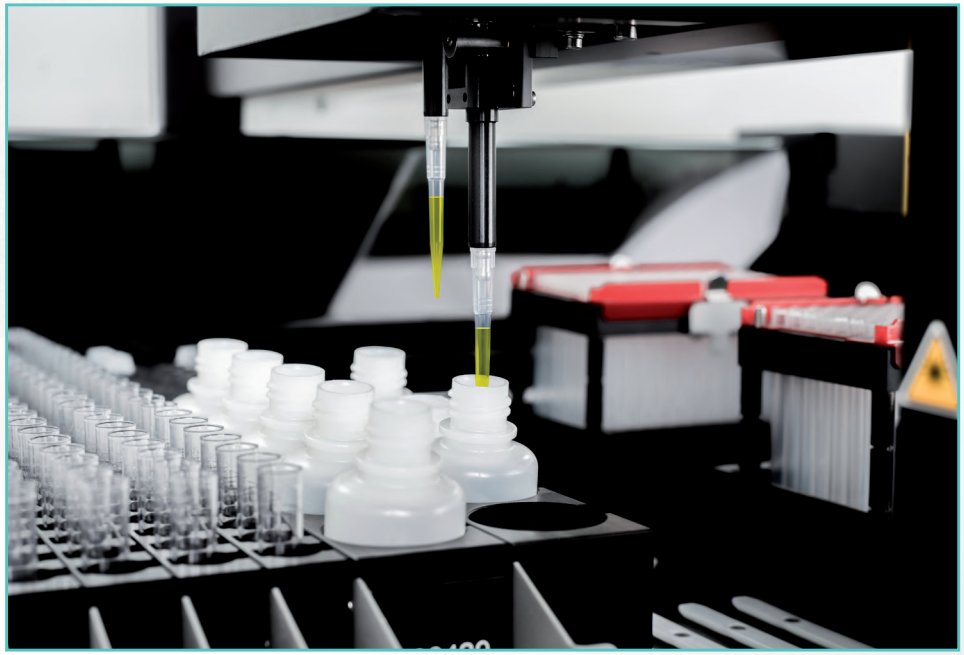
- High performances and minimum maintenance, large measurement range and excellent reproducibility.
- High resolution scanning: each well is measured at a resolution of 0,2 mm providing 29 measurements values across each well.

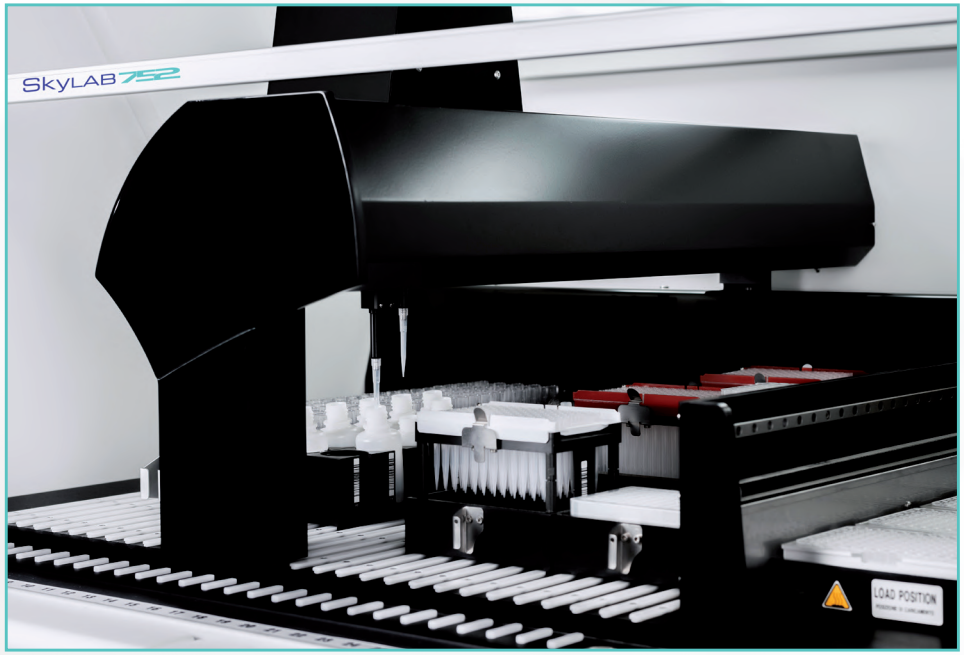


SKYLAB 752 IS THE BEST PARTNER IN EVERY DIAGNOSTIC LABORATORY FOR ELISA AND IFA TECHNOLOGY

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 ed frame)
- Clot detection
- Programmable speed of orbital shaking





RESOURCES

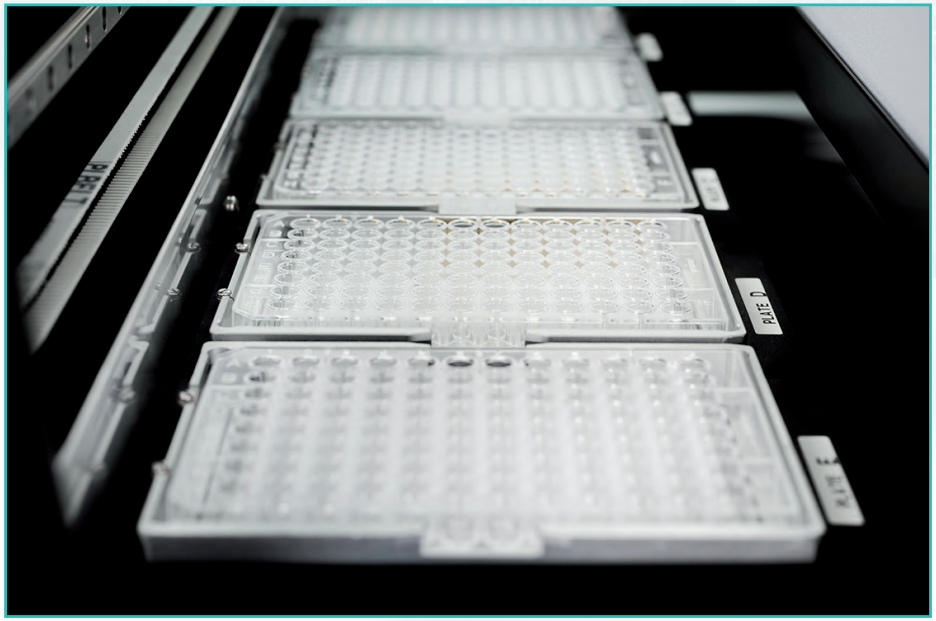
Samples: different kind of tubes (from 11mm to 16mm up to 100mm height).

Reagents: original bottles directly on board with barcode label.

Disposable: 200ul-1000ul plastic tips and deep well strips for samples predilution.







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.

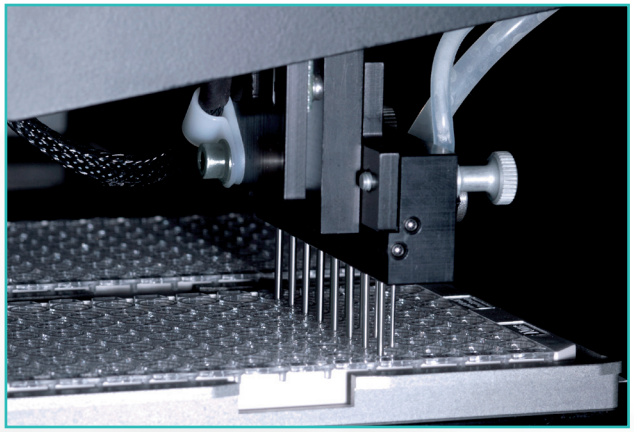
PIPETTING

- Two dispensing arms capable to work simultaneously or independently equipped with flow meter sensors.
- Efficient pipetting minimizes the carry-over using standard disposable tips.
- Innovative dispensing technology secure high-level precision and accuracy.
- Two dispensing arms equipped with clot and bubble detection.
- Two different types of tips dedicated for samples ad reagents.
- Automatic controlled release of used tips into the waste container.



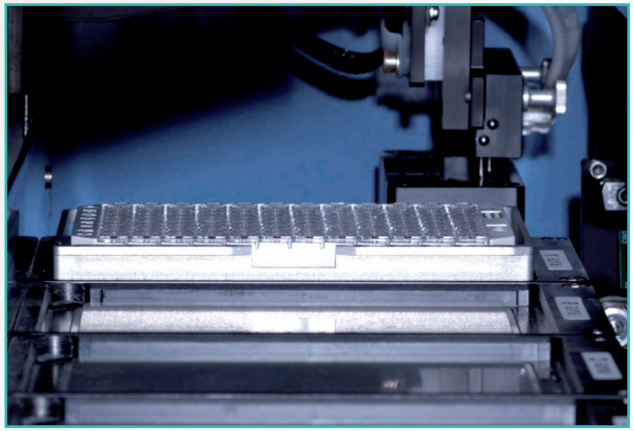
WASHING STATION

- Simultaneous operations of washing station and pipettors.
- Washing station washes previous microplate while the pipettors dispense the next microplate.
- Washing station calibrated on 5 aspiration points to secure complete aspiration of the washing buffer.
- Up to 4 different washing buffers.
- Continuous gravimetric monitoring of buffers and waste tank.
- Waste tank with 8 liters capacity equipped with full sensor.
- Ability to control the washing pressure.



INCUBATION

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



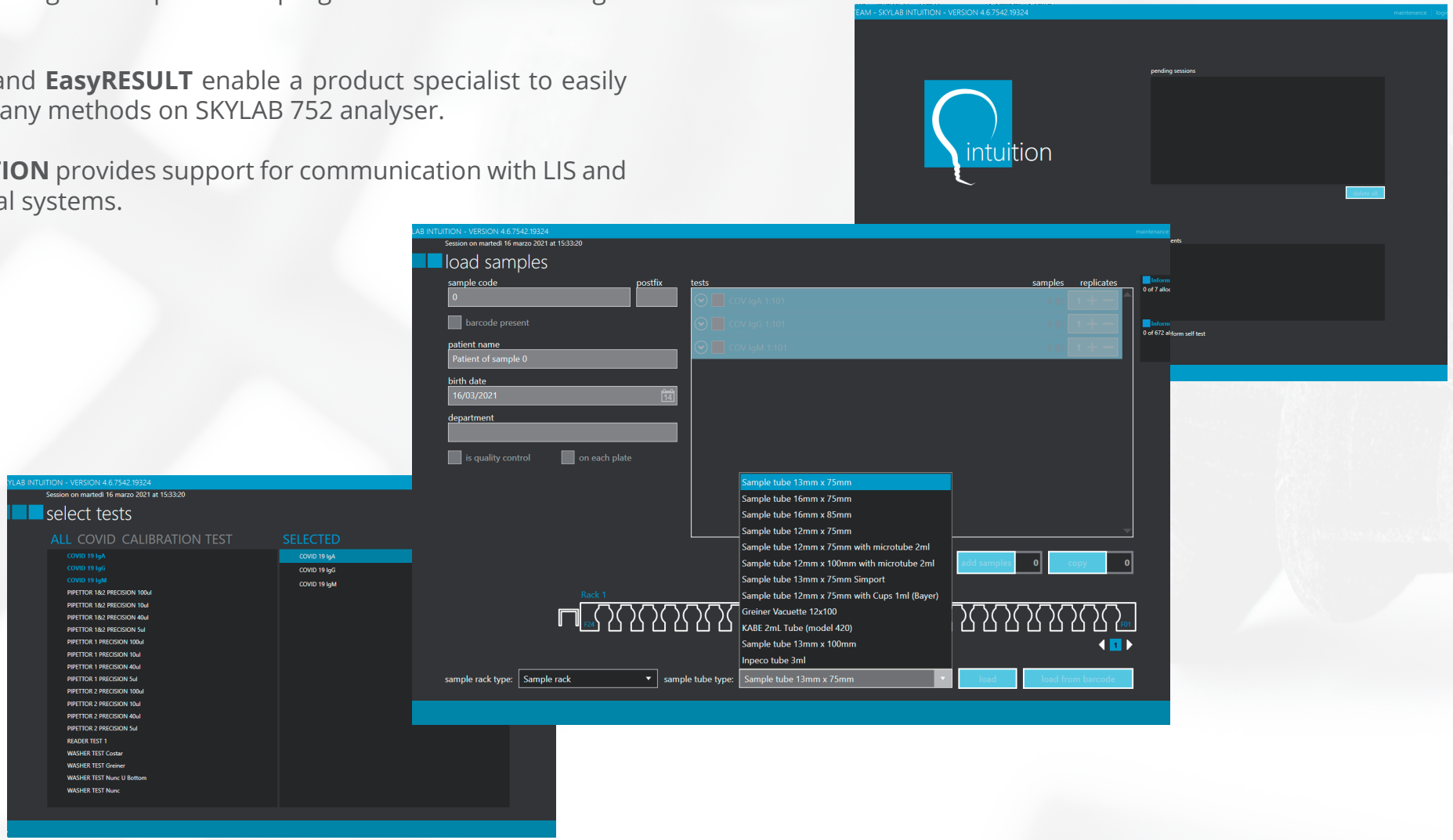
SOFTWARE

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.



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

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 H2O in 96 well)
Liquid level sensing	Gravimetric for all tanks and waste container

INCUBATOR SPECIFICATIONS

Number of incubators	Up to 7, with following configuration: 5 independent under plates on the working area 1 under plate below the working area 1 shaker-incubator unit below the working area 1 to 3 optional extra shaker-incubator units below the working area
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

READER SPECIFICATIONS

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

OTHER SPECIFICATIONS

Number of reagents tips	96
Reagent pipetting volume	Up 1000 µL
Number of sample tips loaded	Up to 9 tip racks (864 in total) No tip number limits in continuous loading mode
Dilution range	1 part in 200 one stage dilution 1 part in 40000 two stages dilution
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

DIMENSIONS

Size	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

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