Elisys Quattro

Fully Automated ELISA Analyzer

> Developed and manufactured in Germany
> Highest precision and reliability

ELISA

Human

Diagnostics Worldwide

Elisys Quattro

Fully Automated ELISA Analyzer for Medium and High Volume Throughput in Hospitals and Blood Banks – More than 100 ELISA Tests Available

> **Proven technology**

Advanced Performance

Open System

> Optimised and preprogrammed for HUMAN and IMTEC ELISA tests

Continuous Loading

> New tests/plates can be loaded at any time

High Throughput

> Up to 7 plates simultaneously
> 4 independent incubators

Highest Processing Security

No Carry-Over

> Disposable tips for reagents and samples

Safety Features

> Clot and bubble detection
> Password protection
> Automatic reagent level checks
> Barcode reader for primary tubes
> Capacity level sensing
> Advanced level-error logging and execution

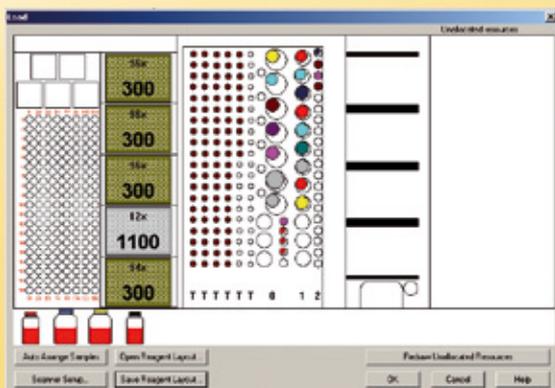|	Cat. No.
Elisys Quattro	16300
300 µl disposable tips	16300/10
1100 µl disposable tips	16300/11

Easy-to-use Software

> Easy-to-use interface and intuitive operation

> Self-explanatory structure

> Graphical interface

> Multitasking

> Bi-directional host communication

> Quality control module (Levy Jennings)

> Locking ability during assay processing

> Event log documentation

Convenient Use

> Loading time and maintenance less than 10 minutes

> Capacity of up to 200 samples

> Up to 152 predilution tubes

> Disposable carbon tips for reagents and samples

> Use of original kit components
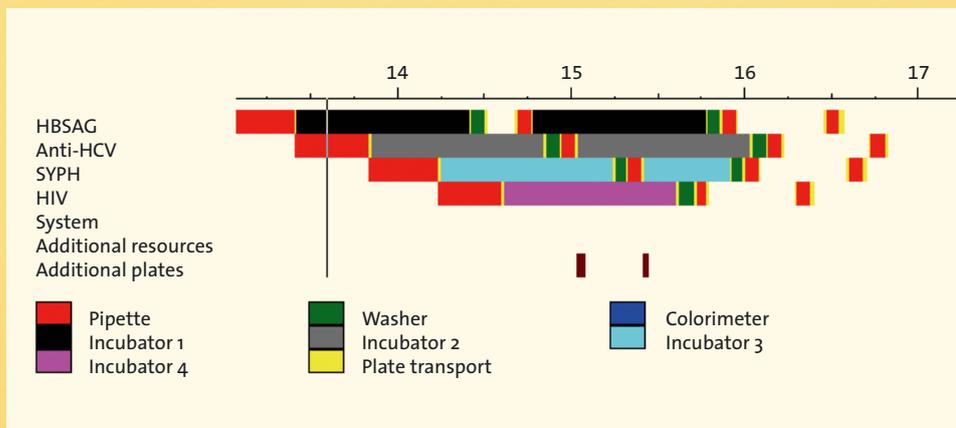
> Barcode identification of samples and reagents

Time Management Module

"Real-Time-Mode" Display

Example:

Processing time for

a typical blood bank panel

(92 samples/test)

less than 4 h

■ Pipette	■ Washer	■ Colorimeter
■ Incubator 1	■ Incubator 2	■ Incubator 3
■ Incubator 4	■ Plate transport	

Elisys Quattro

Technical Data

Sample/Reagent System

Number of plates: Up to 7 plates

Number of samples:
Max. of 200 tubes ø 10 – 16 mm

Number of reagents: Dependent on rack configuration

Controls & standards:
Dependent on rack configuration

Dilution area: For up to 152 dilution tubes

Sample/reagent identification: Internal barcode

Loading: Continuous loading of plates, samples and reagents

Lot Management: Included

Disposable Tips

Carbon tips: 300 µl and 1100 µl

Number of tips: Up to 5 tip racks for 300 µl, 1100 µl disposable tips or mixed use

Level Sense: Capacity

On-board capacity: 480 tips

Tip detection: Yes

Clot detection/bubble detection: Yes

Photometer

Light source: Halogen

Reading mode: OD (8 channel head)

Spectral range: 400 – 700 nm

Read time (96 samples): Approx. 20 seconds

Dynamic range (measurement range):
−0.100 to 3 000 OD

Accuracy: 0 – 2 000 OD 2.5 %

Linearity: 0 – 2 000 OD 1 %

Detection: Photodiode

Reading time: Less than 15 seconds

Filters: Up to 8 positions (delivered with 450 and 620 nm)

Pipetting/Processing System

Processing time samples:
Approx. 16 minutes (96 samples)

Processing time reagents: Approx. 4 minutes (96 positions)

Min/max volumes: 10 µl to 300 µl (with 300 µl tip) or 301 to 1000 µl (with 1100 µl tip)

Precision: < 5 % CV at 25 µl; < 2.5 % at 100 µl

Features: Tip detection, mixing, multi-dispensing

Incubation

Capacity: 4 independently controlled chambers; 4 independent ambient stackers

Mixing capability: Mixing frequency adjustable

Temperature range: Ambient + 7 to 45 °C

Accuracy: ± 2 °C

Uniformity: − 1.5 °C; + 1 °C

Washing

Capacity: Up to 4 buffers

Wash head: 8 channels

Plate type: Flat, U- & V shape

Wash mode: Plate/strips

Dispense volume: 200 – 2500 µl/well

Precision: +/− 5 % CV at 300 µl

Fluid alarms: Low reagent, waste full

Features: Sweep, soak, purge, top & bottom wash, variable pump speeds

Barcode Reader

Sample ID: Yes

Reagent ID: Yes

Plate ID: Optional

Types: 2/5 Interleaved, Code 39, 2/5 IATA, 2/5 Industrial, UPCA/UPCE, EAN (8 or 13 digits), Code 128/EAN 128, Pharmacode, EAN Addendum (2/5 digits), Codebar

Data Processing + Export

Interfaces: ASTM interface RS 232

ASCII import/export of worklist sample IDs: Yes

Time scheduling: Schedules 4 plates

Multiple assays per plate

Qualitative: User definable result classes

Quantitative: Linear to quadratic regression, sigma, and many more

QA analysis: Mean, SD, CV, standard error and Levy-Jennings (basic version)

External PC required

Power Supply

Universal AC input: Wide range AC 50/60 Hz, ~100−230 V +/− 10 %

Power consumption: 400 VA

Dimensions

W x D x H: Approx. 114 x 156 x 100 cm (with waste bag and open drawer)

Weight: 95 kg

Human

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