

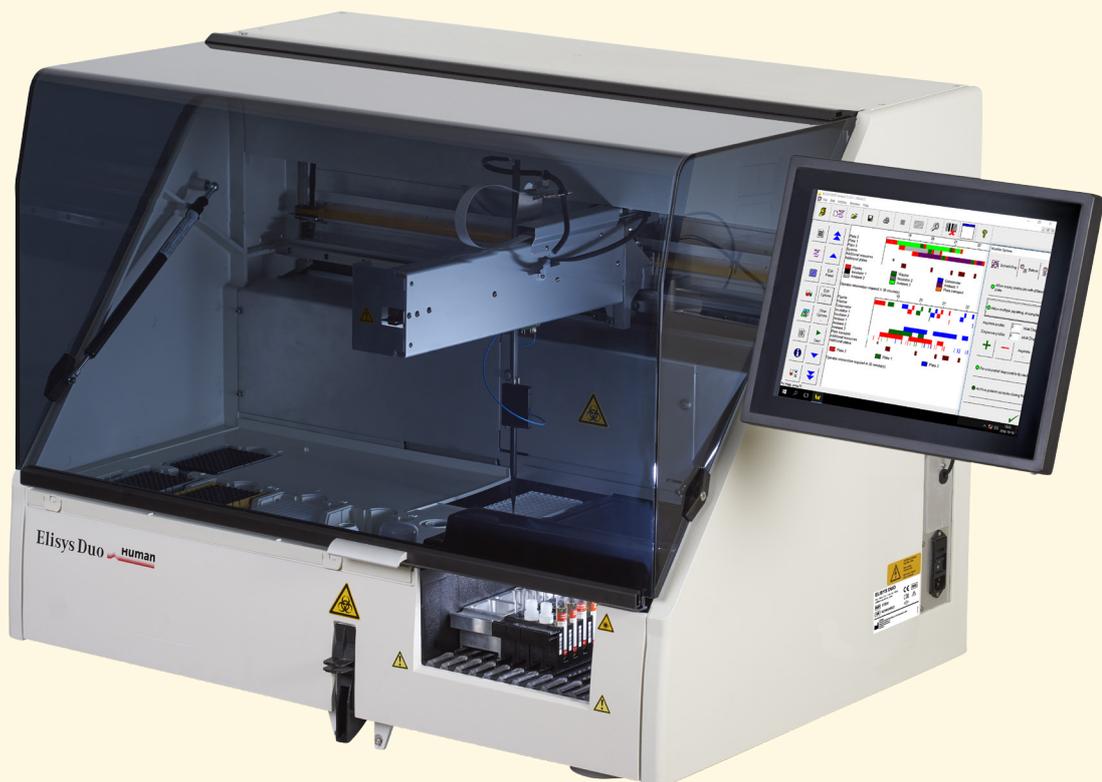
# Elisys Duo

## Fully Automated ELISA Analyzer

- > Optimized for medium throughput segment
- > Up to 3 plates simultaneously
- > HUMAN/IMTEC ELISA tests available
- > Engineered and manufactured in Germany and Switzerland

ELISA

CoreLab DX



# Elisys Duo

## Compact Advanced Fully Automated ELISA Analyzer

### Convincing performance

- > Built-in-PC and touchscreen
- > Open system
- > Up to 3 plates can be loaded
- > Up to 8 different tests on one plate
- > Continuous loading of samples, reagents and plates
- > Build-in sample and reagent barcode reader
- > True walk away system
- > Incubation/shaking



### High-capacity

- > Up to 144 samples and tubes on 9 racks
- > Primary samples
- > Barcode reading
- > Use of original kit bottles
- > 40 reagent positions on 5 racks

### Easy and safe operation

- > Operation software windows
- > Barcode identification for samples and reagents
- > HUMAN and IMTEC methods are preprogrammed
- > HUMAN tests specific racks
- > Direct use of HUMAN/IMTEC kit components

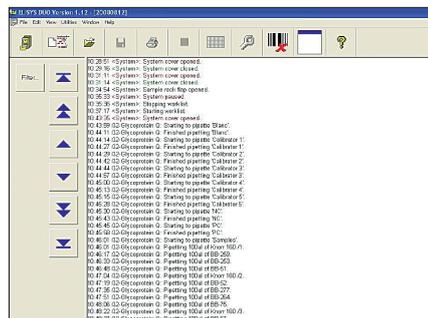


### High precision and safety

- > Disposable carbon tips
- > Liquid level sensing
- > Carry over prevention

### High processing security

- > Event log documentation
- > Password protection on several levels
- > QC control program
- > In-process-control features

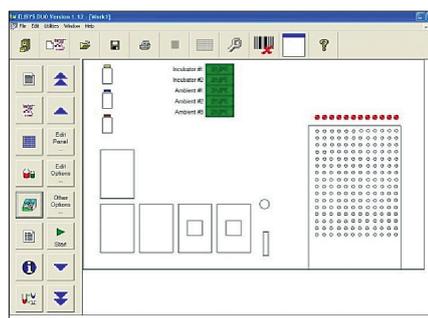


### Event log documentation

- > Run-specific information about hardware, software and assay processing
- > Optional printout together with the results

### Flexible easy-to-use software

- > Graphical interface
- > Time management
- > ASTM interface (bidirectional)



### Self-explanatory structure

- > Permanent graphical update about assay status and reagent allocation
- > Simple access and controlling via icons

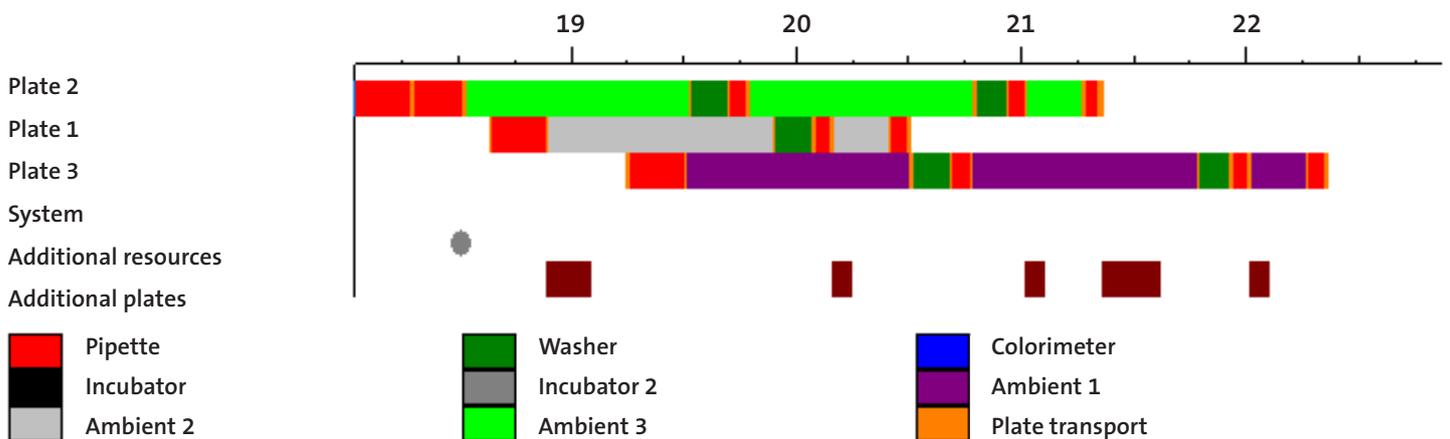
### Time Management

- > Real-time-mode display
- > Processing time optimizer



### Elisis Duo

- Dilution in deep-well plates (192 positions)
- 2 incubators (temperatures up to 45°C)
- 3 wash buffers



### Ordering information

	REF
Elisis Duo	17200
300 µl disposable tips (10 x 96 pcs)	16300/10
1100 µl disposable tips (10 x 96 pcs)	16300/11

# Elisys Duo

## Technical Data

### 2 plate fully automated ELISA analyzer

<b>Number of plates</b>	up to 3 plates
<b>Number of samples</b>	max. of 144
<b>Number of reagents</b>	depending on rack configuration
<b>Controls &amp; standard</b>	depending on rack configuration
<b>Dilution area</b>	for up to 192 dilution positions (2 x 96 Deep well plate)
<b>Number of tips</b>	up to 3 tip racks for 300 µl or 1100 µl disposable tips
<b>Loading</b>	continuous loading of plates, samples and reagents

### Photometer

<b>Spectral range</b>	400 – 700 nm
<b>Dynamic range</b>	–0.100 to +3.000 OD (measurement range 1 wavelength) –3.000 to +3.000 OD (measurement range 2 wavelengths)
<b>Accuracy</b>	±0.005 OD or 2.5% (whichever is greater)
<b>Linearity</b>	0 – 2.000 OD ± 1%
<b>Detection</b>	photodiode
<b>Read modes</b>	OD
<b>Filters</b>	up to 8 positions

### Pipetting system

<b>Pipettor</b>	Liquid pipettor for disposable tips
<b>Liquid level detection</b>	standard (capacitive)
<b>Min / Max volumes</b>	10 µl to 300 µl (with 300 µl tip) or 301 µl to 1000 µl (with 1100 µl tip)
<b>Processing time</b>	patient samples ( 100 µl/well) appr. 16 min. for 96 positions reagent (100 µl/well) appr. 4 min. for 96 positions
<b>Accuracy</b>	< 10% at 20 µl, < 5% at 100 µl
<b>Precision</b>	6% at 20 µl, 3% at 100 µl
<b>Features</b>	tip detection, mixing, multi-dispensing

### Incubation

<b>Capacity</b>	2 independently controlled chambers, 1 ambient
<b>Temperature range</b>	ambient +5 to 45°C
<b>Accuracy</b>	–2°C; +0°C (measured in plate, 200 µl)
<b>Uniformity</b>	±1.5°C (measured in plate, 200 µl aqua)

### Washing

<b>Capacity</b>	up to 3 buffers. 2 x 2l bottles, 1 x 1l bottle
<b>Wash head</b>	1 x 8
<b>Dispense volume</b>	200 – 999 µl/well
<b>Precision</b>	10% CV at 300 µl
<b>Residual volume</b>	< 3 µl in U Bottom < 6 µl in F Bottom
<b>Fluid alarms</b>	low reagent, waste full
<b>Features</b>	Sweep, soak, purge, top & bottom, wash, variable pump speeds, Plate & Strip mode

### Others

<b>Barcode</b>	Samples and in rack system
<b>Plate barcode reader</b>	(optional)
<b>Operating system</b>	Windows 10
<b>Interfaces</b>	ASTM interface

### ASCII import of worklist sample ID's

<b>Time Scheduling</b>	schedules 3 plates
<b>Multiple assays per plate</b>	up to 8 assays per plate
<b>Export options</b>	ASCII export/report
<b>Qualitative</b>	user definable result classes
<b>Quantitative</b>	linear to quadratic regression, sigma, and many more
<b>QA analysis</b>	Mean, SD, CV, Standard Error and Levey-Jennings (basic version)

### Power supply

<b>Universal AC input</b>	wide range AC 50/60Hz, ~100 – 240V ± 10% typically Max 240VA
---------------------------	--

### Dimensions

<b>Packaging</b>	97 cm (W) x 82 cm (D) x 75 cm (H)
<b>Installed</b>	120 cm (W) x 66 cm (D) x 110 cm (H) (with bottle tray and open cover)
<b>Weight</b>	90 kg

### Environmental conditions

<b>Temperature</b>	operating: 15 – 30°C transport: 5 – 50°C
<b>Humidity</b>	operating: 30 – 80% non-condensing transport: 10 – 85% non-condensing