

# HELIA<sup>®</sup>

HELMED LINE IMMUNOASSAY ANALYZER

**WHY MAKE THINGS COMPLICATED?**

HELIA<sup>®</sup> MAKES YOUR IMMUNOBLOT WORKFLOW A BREEZE...



**AESKU.GROUP**  
WE TAKE CARE OF YOUR HEALTH

### Automated

A highly sensitive integrated camera enables total immunoblot automation from primary sample tube through result interpretation.

The **HELIA**® system offers a complete walkaway solution.

### Proven Reliability

The **HELIA**® combines the **HELMED**® architecture, installed in reference laboratories worldwide, with our robust and established **AESKU.SCAN**® interpretation software.

### Barcode Recognition

Secure workflow due to 1D Barcode Scanner for automatic sample detection and identification.

### High Capacity

All **AESKUBLOTS**® vials are designed to fit directly into the **HELIA**® reagent racks.

#### Test capacity

Up to 9 different **AESKUBLOTS**® tests/lots per run.

#### Samples

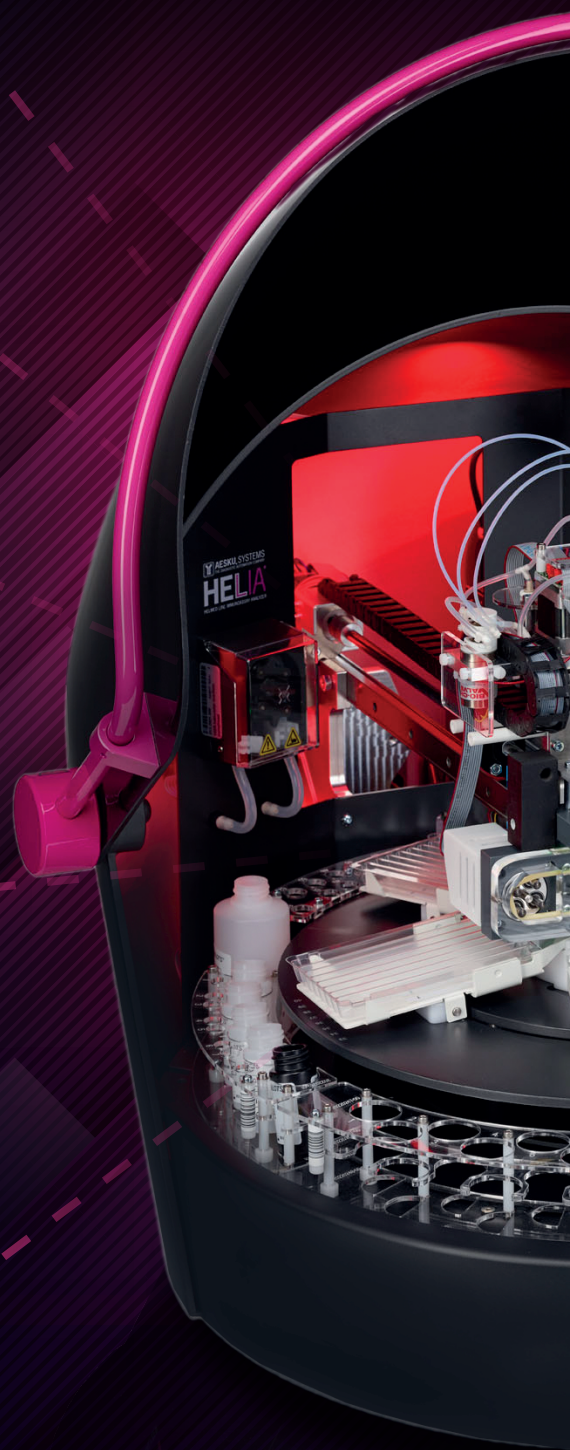
Up to 40 (barcoded) sample tubes per run. Multiple racks are available in order to manage different sample tubes.

#### Tray capacity

Up to 5 trays each with 8 **AESKUBLOTS**® strips, up to 40 strips in total.

### Liquid Detection

All conjugates, substrates, samples, and sample buffers are checked before pipetting and all errors are logged. Technicians can be alerted to fix the error or liquids can be skipped, depending on user preference.

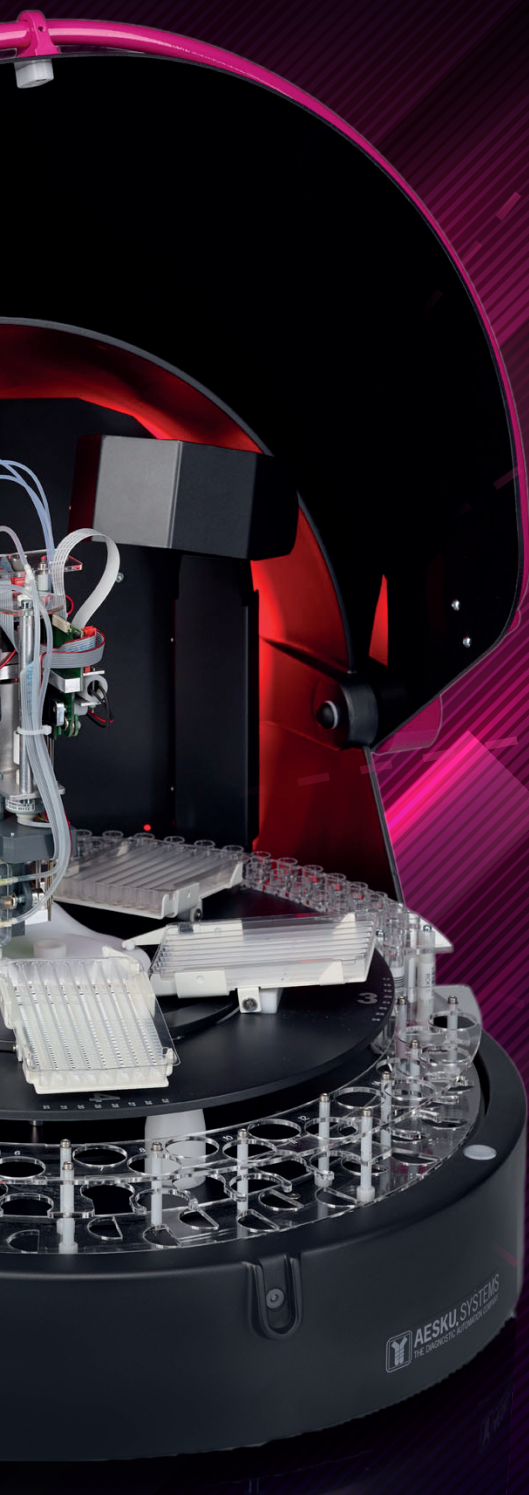


## **HELIA**® – HELMED LINE IMMUNOASSAY ANALYZER

**HELIA**® is an automated analyzer for line immunoassays. The **HELIA**® system is able to perform all immunoblot processing steps. With the **HELMED**® processor, the **HELIA**® system unifies proven lab automation with innovative immunoblot processing and reading to a minimal footprint and easy laboratory routine implementation. **HELIA**® will be delivered with a preinstalled and configured All-in-One software.

**AESKU**® is a company that develops, designs and produces the **HELIA**® system and all dedicated reagents, offering a complete walkaway solution.





### Faster

Using a highly sensitive camera with a 5 megapixel resolution CMOS color sensor enables the **HELIA**® system to eliminate the strip drying step, commonly added at the end of the reaction with other systems.

### LIS Connection

Bidirectional connection with **AESKU.LAB** middleware and/or LIS. Requests the sample-assay combination from the **AESKU.LAB** or LIS after scanning your sample tubes. Sends all results back to **AESKU.LAB** and/or LIS. The software includes several user licenses.

### HELIA® Software

**HELIA**® Device Software is very user friendly. It offers a sleek interface with a comprehensive workflow management suite and intuitive customization.

### Additional Features

- “Plug and Play” sample tube flexibility
- Minimal footprint
- No consumables
- Low sample dead volume (under 50 µl)
- Dispensation through 1 peristaltic pump minimizing maintenance and providing an optimal consumption of reagents
- 2 syringes (1x50 µL and 1x1 ml) for protocol flexibility

### Traceability

Full automation of the immunoblot procedure. A log file will be created for each day the **HELIA**® software is initiated.

steps, and due to an integrated camera module it is able to read and report immunoblot results. As a further development of the technology. **HELIA**® was developed to simplify and automate the workload in immunoblot testing with focus on standardization, one PC – One single compact system monitor with integrated PC.

g complete control of the entire product life cycle.

## HELIA® TECHNICAL SPECIFICATIONS

<b>Sample capacity:</b>	Up to 40 samples with barcode
<b>Strip capacity:</b>	Up to 40 strips
<b>Test capacity:</b>	Up to 9 different <b>AESKUBLOTS®</b> Tests/Lots per run
<b>Sample identification:</b>	Built-in barcode reader for sample detection and identification
<b>Tray support:</b>	5x8 strip trays
<b>Standard sample rack tube size:</b>	75mm to 100mm / 12mm 13mm diameter tubes and microtubes (2ml)
<b>Sample &amp; reagents support:</b>	Multi-format exchangeable racks
<b>Dilution fluid:</b>	User choice of wash solution or dedicated diluent solution in the carousel
<b>Pipetting station:</b>	3 low carbon stainless steel needles, 2 fixed and one retractable, one peristaltic pump for aspiration of fluids, one peristaltic pump for strip well washing, one 1ml syringe, one 50µl syringe
<b>Level detection:</b>	Continuous level tracking by conductivity
<b>Minimum sample volume pick up:</b>	1µl
<b>Minimum sample volume required:</b>	50µl
<b>Maximum sample buffer dispense volume:</b>	2000µl
<b>Maximum wash buffer dispense volume:</b>	2000µl
<b>Reagents capacity:</b>	Modular racks with dynamic allocation of positions; two reagent racks are combined in the outer ring, with capacity for 16 and 18 reagent bottles, respectively
<b>Wash solutions:</b>	2 different wash solutions
<b>Software requirements:</b>	PC with 64 bits compatible processor. Runs on Windows 7 engl.
<b>PC communication port:</b>	Bi-directional USB
<b>LIS link:</b>	Bi-directional LIS link
<b>Certifications:</b>	CE Mark (Not for sale in the US)
<b>Power consumption:</b>	75 Watt
<b>Power supply:</b>	Input: 100-240V, 50-60 Hz
<b>Dimensions:</b>	64cm x 70cm x 56cm (excluding All-in-one PC)
<b>Instrument weight:</b>	31 kg (excluding All-in-one PC)

## PRODUCT ORDERING REFERENCES

<b>HELIA® AUTOMATED BLOT SYSTEM</b>	REF. LIA-1000	<b>Description</b> BLOT Processor with All-in-one PC included
<b>HELIA® Incubation Tray</b>	20160008	Consumable BLOT Incubation Tray, 8 Strips / 20PCS

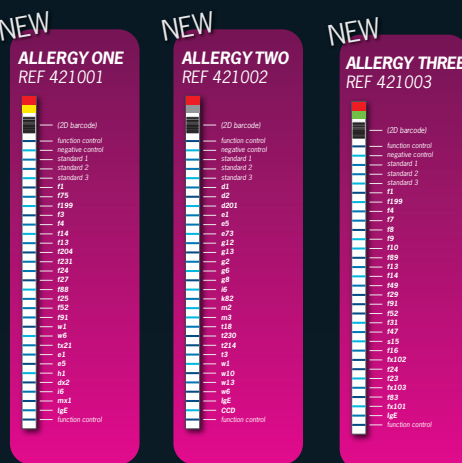
## AESKUBLOTS® BLOT TEST KITS

Reagents validated and optimized for automation with **HELIA®** & **HELMED®** BLOT, additional profiles are under development:



## AESKUBLOTS® ALLERGY TEST KITS

Reagents intended for fully automated performance with **HELIA**, quantitative results in kUA/L or classes. Additional profiles will follow.



## AESQC®

Improve your analytical performance with **AESQC** multiparametric auto-immune controls now validated as functional controls for **AESKUBLOTS®**

