

HELIA[®]

HELMED LINE IMMUNOASSAY ANALYZER

WHY MAKE THINGS COMPLICATED?
HELIA[®] MAKES YOUR IMMUNOBLOT WORKFLOW A BREEZE...



Automated

A highly sensitive camera allows the **HELIA**[®] system to perform immunoblots from the primary sample tube, to the interpreted results, the **HELIA**[®] is a walkaway system.

Proven Reliability

Based on the well-known **HELMED**[®] platform with several installations in reference laboratories worldwide, **HELIA**[®] combines the **HELMED.BLOT**[®] processor and **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

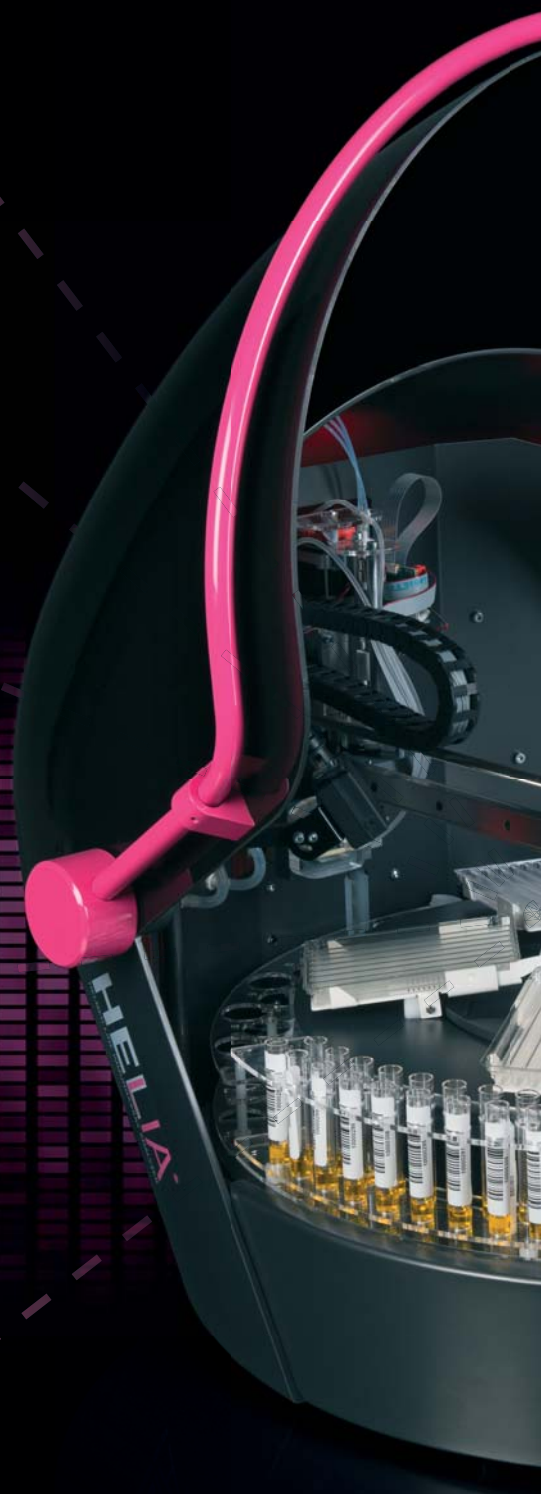
Up to 40 (barcoded) sample tubes per run. Multiple racks are available in order to manage different sample tubes.

Tray capacity

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

Liquid Detection

for patient samples and reagents. Immediately after starting, all conjugates, substrates and sample buffer are checked for their correct positions. Errors are indicated by a warning symbol indicating that the log file must be checked for errors.



HELIA[®] – HELMED LINE IMMUNOASSAY ANALYZER

HELIA[®] is a automated analyzer for line immunoassays. The **HELIA**[®] system is able to perform all immunoblot processing steps. 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-

AESKU[®] is a company that develops, designs and produces the **HELIA**[®] system and all dedicated reagents, offering



Optimization

Using a highly sensitive camera with 5 megapixel resolution CMOS color sensor, enables the **HELIA**[®] system to eliminate the strip drying step, commonly added at the end of the reaction, when performing immunoblotting 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 rights.

HELIA[®] Software

HELIA[®] Device Software is very user friendly. It offers a menu control panel with different toolbars (ribbons) for each menu option. The area below the ribbon reveals the corresponding information and also offers active elements such as buttons, tabulator fields and check boxes as well as passive fields, such as text and graphic boxes.

Additional Features

- Sample tube flexibility “plug and play” module concept
- Very compact instrument
- 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 with sample tubes. A log file will be created for each day the **HELIA**[®] software is initiated.

ps, 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® COMMON TECHNICAL SPECIFICATIONS

Sample capacity:	Up to 40 samples with barcode
Strip capacity:	Up to 40 strips
Test capacity:	Up to 9 different AESKUBLOTS® Tests/Lots per run
Sample identification:	Built-in barcode reader for sample detection and identification
Tray support:	5x8 strip trays
Standard sample rack tube size:	75mm to 100mm / 12mm 13mm diameter tubes and microtubes (2ml)
Sample & reagents support:	Customized multi-format extractable racks
Dilution fluid:	User choice of wash solution or dedicated diluent solution in the carousel
Pipetting station:	<ul style="list-style-type: none"> • 3 low carbon stainless steel needles, 2 fixed and one retractable • the 3rd retractable needle provides an independent reagent pipetting channel • one peristaltic pump for aspiration of fluids • one peristaltic pump for strip well washing • one 1ml syringe • one 50µl syringe
Level detection:	Continuous level tracking by conductivity
Minimum sample volume pick up:	1µl
Minimum sample volume required:	50µl
Maximum sample buffer transfer rate:	2000µl
Maximum wash buffer transfer rate:	2000µl
Reagents capacity:	<ul style="list-style-type: none"> • 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
Wash solutions:	2 different wash solutions
Software requirements:	PC with 64 bits compatible processor. Runs on Windows 7 engl.
PC communication port:	Bi-directional USB
LIS link:	Bi-directional LIS link
Certifications:	CE Mark (Not for sale in the US)
Power consumption:	75 Watt
Power supply:	Input: 100-240V, 50-60 Hz
Dimensions:	64cm x 70cm x 56cm (only Helia without All-in-one PC)
Instrument weight:	31 kg (only Helia without All-in-one PC)

PRODUCT ORDERING REFERENCES

HELIA® AUTOMATED BLOT SYSTEM

REF. LIA-1000

Description

BLOT Processor with All-in-one PC included

HELIA® Incubation Tray

20160008

BLOT Incubation Tray, 8 Strips /20PCS

AESKUBLOTS® BLOT TEST KITS

Reagents validated and optimized to be used automated with HELIA® & HELMED.BLOT®, additional profiles are under development:

