IH-1000
Fully Automated System for ID-Cards
IH-1000 is a revolutionary instrument for immunohematological diagnostics which can be used to execute a great variety of test procedures.

IH-1000 combines three important features which are significant both for today and for the future:

- Highest level of security and flexibility with full automation
- Fast sample processing with continuous access
- Cost efficiency
Walk-Away

The IH-1000 system is able to work independently for a minimum of 6 hours up to 9 hours (depending on the test profile).
- Card stock capacity for 240 ID-Cards - up to 20 different cards can be loaded at the same time
- Ability to load 28 reagent vials
- Loading capacity for up to 180 samples

Continuous System Access

Continuous sample and reagent loading.
System liquid can be refilled at any time while the system is processing.

Integrated Back-up System

IH-1000 provides its own back-up system to ensure fast, automated sample processing at all times.
- 2 independent pipetting arms
- 3 centrifuges
- 2 integrated PCs

Immediate STAT Handling

The multi-module concept provides an immediate STAT function.
The multi-module concept ensures the highest range of flexibility in sample processing to be able to start emergency samples in a minimum time span.

Automatic Start Function

IH-1000 is equipped with an automatic start function.
Only 3 steps are necessary to process samples:
- Load ID-Cards and reagent vials
- Maintain system liquid
- Load samples
Reduced Time to Overall Sample Results

The IH-1000 system’s high flexibility makes it possible to perform strictly sample-oriented processing, dramatically reducing time to overall sample results.

Optimized for Small Volumes

With the special tubes for small blood volumes and pediatric samples, it is possible to work with a volume of just 50 µl.

Adjustable Touchscreen Monitor

The system is equipped with an adjustable touchscreen monitor mounted on a moveable arm. The software is an intuitively designed, user friendly touchscreen interface.

Wireless Connection

IH-1000 is equipped with a state-of-the-art Wi-Fi connection for wireless computer connection.

Reagent Stock Management

All loaded reagents are actively monitored by the software. Resources lacking for additional loaded samples are displayed.

Automated Maintenance

All necessary maintenance steps are fully automated and controlled by the system. Minimum user intervention is needed to perform maintenance on the system.
IH-Com, Data Management and Result Interpretation Software

A Universal Cost-Efficient Solution

- Only one connection to the LIS through IH-Com
- Remote validation
- Electronic lot documentation
- Long-term storage of patient results and images
- Automatic crosschecking with previous results
- Automatic back-up function
- Integrated QC module

IH-Com, State of the Art in Modern Immunohematology Laboratories

IH-Com is a result validation and documentation software system.

All the single sample results from the different systems are combined to give a general patient result.

The integrated QC module checks the whole system, including the reagents used by lot.

This enables you to verify all the components used in producing the results.

All results are automatically backed up at defined time intervals.

IH-Com provides total freedom to validate the results any way you want:

- Automatic validation
- Remote validation
- Four eyes principle validation
- One-step validation

Instead of multiple connections for every single instrument, with IH-Com you have only one connection to the LIS for all instruments.

The IH-Com software provides a manual workstation option.

The integrated print module guarantees a maximum level of safety for manual ID-Card testing.
### Specifications

#### Electrical Data
- **Voltage**: 100-240 VAC
- **Power fluctuation**: ±10%
- **Transient overvoltage**: category II
- **Power consumption**: 1.350 VA

#### Environmental Conditions
- **Operating temperature**: 15°C to 27°C
- **Operating humidity**: 5% to 80% rh
- **Altitude maximum**: 2,000 m

#### Dimensions
- **Width**: 173 cm
- **Height**: 170 cm
- **Depth**: 83 cm
- **Weight**: 540 kg

#### Capacity
- **Samples**: 180
- **ID-Cards**: 240
- **Reagent vials**: 28

#### Emissions
- **Heat emission**: 720 W
- **Noise level**: max. 65 dB(A)
- **Pollution level**: 2

### Performance*

<table>
<thead>
<tr>
<th>Test</th>
<th>Samples/h</th>
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<tbody>
<tr>
<td>A, B, D, ctl/A, B</td>
<td>80</td>
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<tr>
<td>Ab screening I, II, III</td>
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<tr>
<td>A, B, D, ctl/A, B + Ab screening I, II</td>
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<tr>
<td>A, B, D, ctl/A1, B + C, c, E, e, K, ctl</td>
<td>56</td>
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<tr>
<td>A, B, AB, DVI+, DVI-, ctl + A, A, B, O + C, c, E, e, K, ctl + Ab screening I, II, III</td>
<td>36</td>
</tr>
</tbody>
</table>

* Performance data may vary depending on the loading sequences and requested sample profiles.

### Test Methods
- Blood grouping ABO/D
- Phenotyping Rh/K
- Antibody screening
- Direct AHG test (DAT)
- Reverse grouping
- Crossmatching
- Antibody identification
- Single antigen testing

### Ordering Information

<table>
<thead>
<tr>
<th>Catalog #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>001000</td>
<td>IH-1000</td>
</tr>
<tr>
<td>009000</td>
<td>IH-Com Kit Fullversion</td>
</tr>
</tbody>
</table>

### Main Features
- Walk-away
- Stand-alone system
- Continuous sample loading
- Continuous reagent vials loading
- Immediate STAT handling
- Optimized for small blood volumes
- 17” touchscreen monitor
- Internal & external validation
- Only one connection to the LIS through IH-Com
- CE compliant according to IVD Directive 98/79/EC