



# IH-1000

## Fully Automated System for ID-Cards

The Complete Solution for Safe Transfusion





# IH-1000

## The Ideal Solution for Immunohematology

IH-1000 is a revolutionary instrument for immunohematological diagnostics which can be used to execute any type of test procedure.

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



- 1 2 independent pipetting arms
- 2 Loading area for up to 180 samples and 28 reagents
- 3 Card drawer for 240 ID-Cards
- 4 System liquid and liquid waste area
- 5 Integrated adjustable touch screen monitor
- 6 Additional handheld scanner
- 7 Moveable working table
- 8 Card waste for 320 ID-Cards

## Real Walk-Away

**IH-1000** is able to work independently for minimum 2 hours up to 9 hours (depending on the test profile).

- Card stock 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



Drawer for 240 ID-Cards

## Continuous System Access

- Continuous sample and reagent loading
- Refilling of system liquid possible at any time while the system is processing



2 independent pipetting arms, separate transport arm for cards

## Integrated Back-up System

**IH-1000** provides its own back-up system to ensure fast and automated sample processing at all times.

- 2 independent pipetting arms
- 3 centrifuges
- 2 integrated PC



Continuous loading worktable

## True STAT Function

With the multi-module concept of **IH-1000** the instrument offers 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 cards and reagents
- Maintain system liquid
- Load samples



Sample loading area for up to 180 samples and 28 reagents

## Minimized Time to Overall Sample Result

The high flexibility of IH-1000 allows a strictly sample oriented processing, which reduces the time to an overall sample result dramatically.

## Optimized for Small Volumes

With the tubes for small blood volumes and pediatric samples it is possible to work with a volume of only 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. Any missing resources for additional loaded samples are displayed.

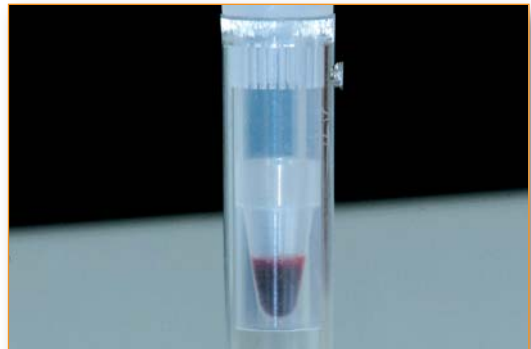
## Automated Maintenance

All necessary maintenance steps are fully automated and controlled by the system.

Only a minimal user intervention is required to perform a maintenance on the system.



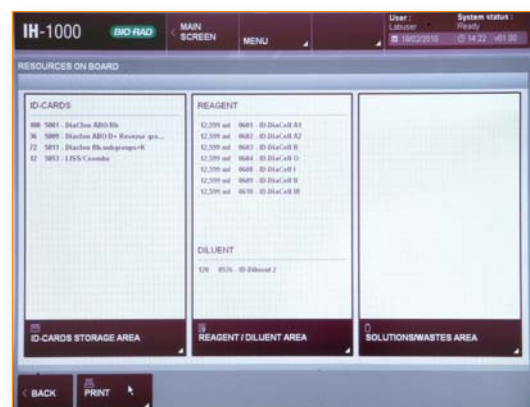
3 centrifuges



Special tubes for pediatric samples and small blood volumes



Easy to use touchscreen software



Active reagent stock management

## IH-Com Data Management and Result Interpretation Software

### A Cost Efficient and Universal Solution

- Only one HOST connection for all connected instruments
- Remote validation
- Electronic lot documentation
- Long time storage of patient results and images
- Automatic crosscheck to previous results
- Automatic back-up function
- Integrated Q.C. module
- Statistic module
- Manual workplace

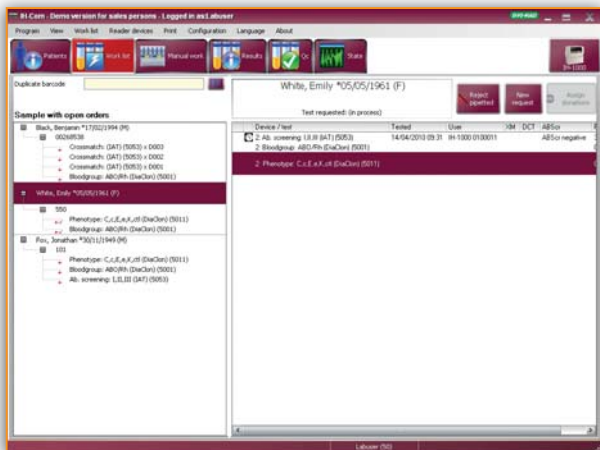
### IH-Com, State of the Art in Modern Immunohematology Laboratories

IH-Com is a new developed result validation and documentation software.

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

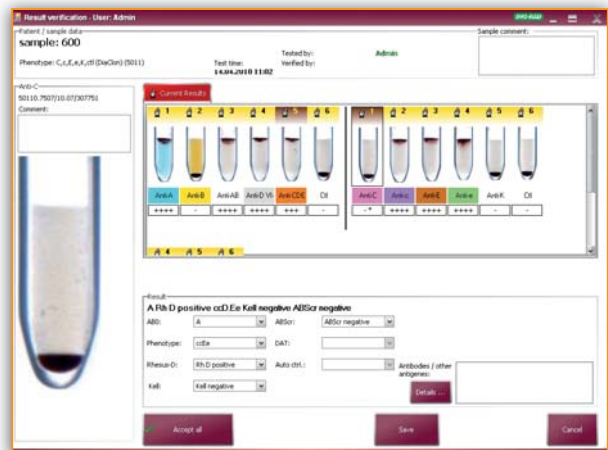
The **integrated Q.C. module** checks the whole system including the system hardware and the used reagents by lot. This enables you to check all the used components for producing results.

All **results are automatically backed up** in defined time intervals. The back-up starts automatically in the background. No user interaction is required.



Instead of multiple HOST connections for every single instrument, you have only one HOST connection with IH-Com for all your connected instruments.

The IH-Com software provides a **manual workplace option** for manual sample testing. The integrated print module provides a maximum level of safety for manual card testing.



IH-Com offers all the freedom to validate results in any way you want.

- Auto validation
- Remote validation
- 4 eye principle validation
- One step validation

## IH-1000, The Ideal Solution for Immunohematology

### Main Features

- Walk-away
- Stand alone instrument
- Continuous sample loading
- Continuous reagent loading
- Priority samples (STAT)
- Optimized for small blood volumes
- Touchscreen 17"
- Internal & external validation
- Bi-directional HOST communication
- Blood grouping
- Reverse grouping
- Phenotyping
- Crossmatching
- Antibody screening
- Antibody identification
- Direct AHG test (DAT)
- Single antigens

### Capacity

**180 samples**  
**240 ID-Cards**  
**28 reagent vials**

### Performance

ABO/D + Reverse Grouping  
 (A, B, D, ctl, A<sub>1</sub>, B)  
 ± 52 samples per hour

Antibody Screening  
 (I, II, III)  
 ± 105 samples per hour

### Electrical Data

Voltage	<b>100-240 VAC</b>
Power fluctuation	<b>± 10%</b>
Transient over-voltage	<b>Category</b>
Frequency	<b>50/60 Hz</b>
Power consumption	<b>1,350 VA</b>

### Emissions

Noise	<b>max 54 dB(A)</b>
Heat	<b>720 W</b>
Pollution Level	<b>2</b>

### Dimensions

Width	<b>173 cm</b>
Height	<b>170 cm</b>
Depth	<b>83 cm</b>
Weight	<b>540 kg</b>

### Environmental Conditions

Operating temperature	<b>15°C to 27°C</b>
Operating humidity	<b>5% to 80% rh</b>
Altitude max.	<b>2,000 m</b>

## Ordering Information

Catalog No.	Description
<b>001000</b>	<b>IH-1000 Fully Automated System for Immunohematology</b>
<b>009000</b>	<b>IH-Com Kit Full Version</b>



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1785 Cressier FR  
Switzerland  
[www.diamed.com](http://www.diamed.com)