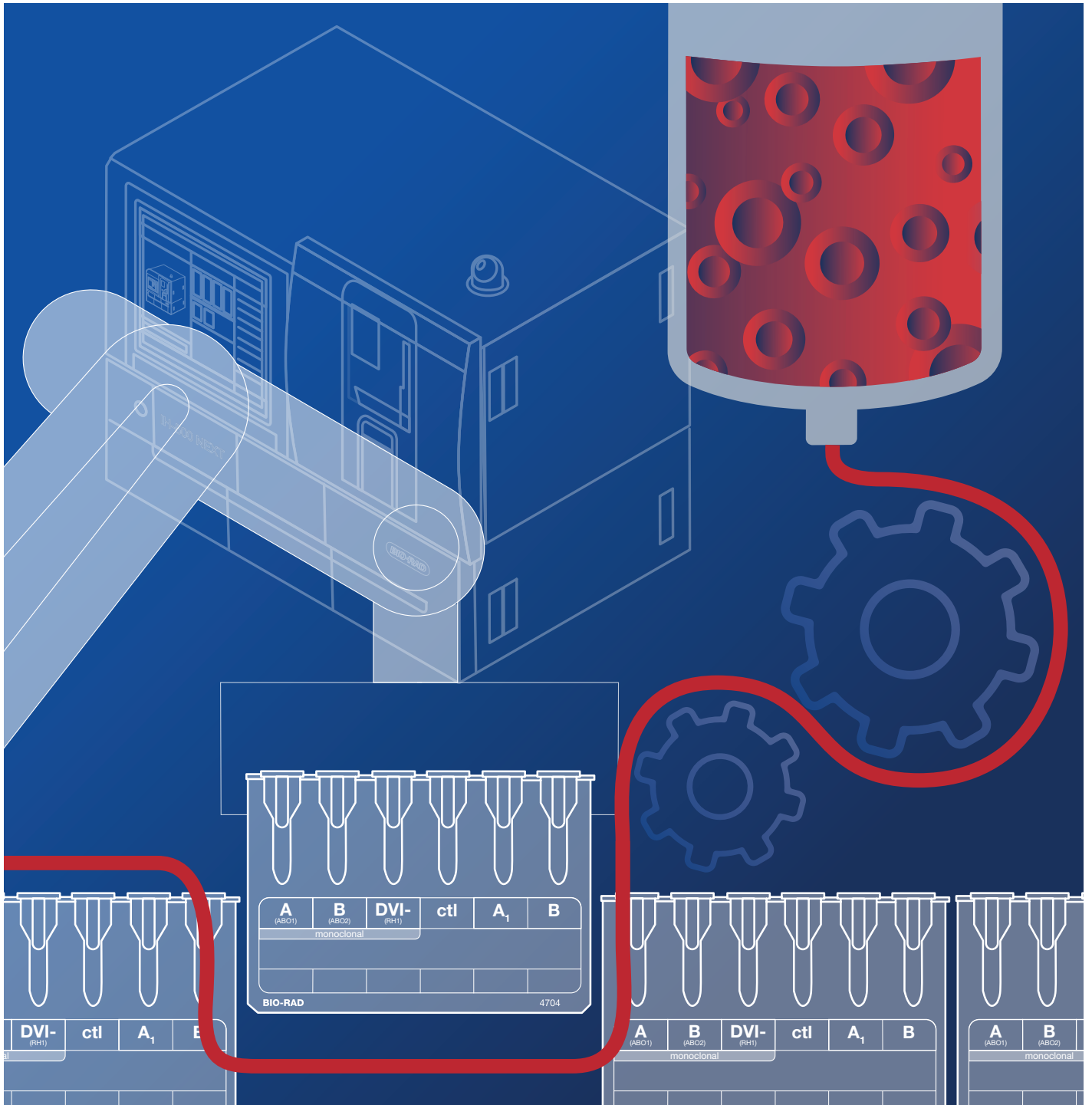


IH-500 NEXT System Fully Automated System for IH-Cards





Choose. Connect. Control. Community.
Choose your preferred testing method and platform

IH-500 NEXT System

Innovation Driven by Experience

Bio-Rad is one of the world's most respected suppliers of blood screening systems.

We have been serving blood banks and transfusion centers across the world for more than 30 years, consistently developing and delivering high-performance and reliable systems designed to satisfy your needs.

We know our future – and that of our customers – depends on our ability to search beyond today's solutions.

We will continue to invest in innovation that lies at the heart of our commitment: helping you to provide your services as efficiently and effectively as possible.



The IH-500 NEXT Fully Automated System Developed Together with our Customers



IH-LISS rack piercing

- Fully automated QC Monitoring system
↳ Increased result reliability
- Optimized scheduling of emergency samples (STAT)
↳ Faster time to result
- 7 day on-board reagent stability
↳ 24/7 availability
- Automated antibody titration
↳ Increased productivity/test panel
- Intelligent reagent identification system
↳ Improved traceability
- Well by well processing of IH-Cards
↳ Reduced wastage and cost
- Waste management
↳ Operator safety



6-axis industrial robot

Innovation Meets Design

Revolutionary Robot Technology

The 6-axis industrial robot provides new possibilities for managing resources. This technology allows for a compact instrument design and optimal use of space.

The innovative motor inside the arm provides a maintenance-free transport component and increases the reliability of the entire instrument.

Flexible Bench-Top System

The IH-500 NEXT System combines functionality and design to satisfy the changing needs of a modern transfusion medicine laboratory. It features a compact bench-top design that together with an optional stand-alone table can flexibly become a stand-alone system.



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IH-500 NEXT

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Innovation

- 6-axis industrial robot
- Maintenance free transport technology

Improved Traceability

- Internal storage for up to 164 IH-Cards
- Single IH-Card tracking for more flexibility during IH-Card loading
- 100% traceability

Continuous Loading

- Continuous sample and reagent vials loading
- Independent loading and pipetting areas

Flexibility

- Stand-alone table (optional) with customizable configuration
- Flexible multi-purpose loading dock

Reduced Hands-on Time

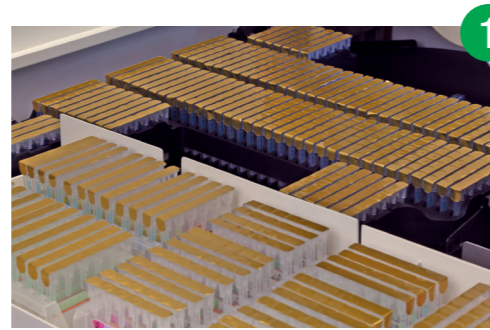
- Automated workflow
- Automatic waste management system

Safety & Reliability

- Intelligent liquid identification system
- Well by well processing for less IH-Card waste

Easy to Use

- Integrated keyboard for convenient data input
- Integrated PC and 19" touchscreen monitor



Internal storage of IH-Cards



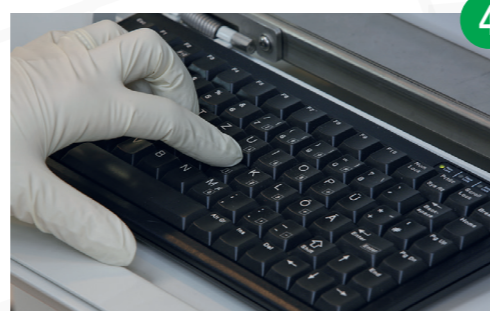
Drawer for flexible loading



Tray for reagent vials



Internal solid waste container



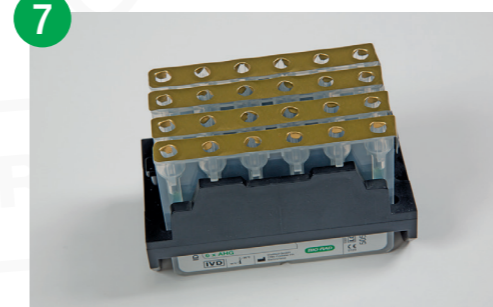
Keyboard for manual data entry



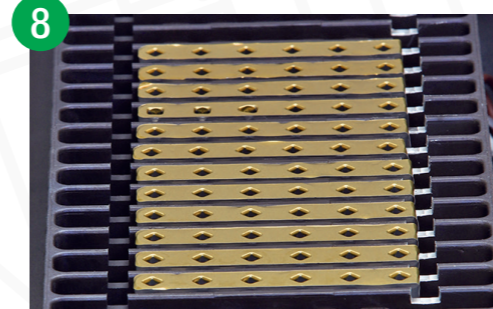
4-color status light



Reagent storage and pipetting area



IH-Card transport holder



Incubator at 37°C



Fluidic area

24/7 Ready to Start Availability

- 4-color status light
- More than 100 tests available

7 Day On-Board Reagent Stability

- Temperature controlled storage area
- New active cooling technology

Throughput Optimization

- Faster time to result
- Optimized scheduling of emergency samples (STAT)
- On-board priority updates
- Flexible IH-Card management for optimized throughput

Walk-Away

- Loading capacity for 50 samples
- Internal storage for 34 liquid reagent vials
- Management of 4 IH-LISS racks in parallel

Active QC Monitoring

- Automatic check for reagent lot QC status during the loading process
- Automatic check for instrument QC status prior to each sample processing

Reduced Training & Maintenance

- Easy to learn standardized Bio-Rad user interface
- No daily maintenance (only weekly)
- No-interruption process for system liquid refilling and liquid waste emptying
- Optional direct connection to laboratory drainage

Assay and Sample Oriented Mode

Perform the tests sample by sample or prioritize a specific test which result will be delivered first throughout a multitude of samples.

Single IH-Card Tracking

Properly load the IH-Cards in any direction and any order. The IH-500 NEXT System adapts, stores, and indexes.

Carry over Prevention Greater than 1:32,000

One of the highest carry-over prevention in the immunhematology automation.

7 Day On-Board Reagent Stability

Through active cooling of the reagent storage area, IH-500 NEXT System can ensure a 7 day on-board stability for reagents.

On-Board Reagent Management

Ensures the correct on-board time even when a reagent is interchanged between different systems.

Immediate STAT Handling

A designated STAT sample will be pipetted and processed immediately.

Well by Well Processing

IH-500 NEXT System is able to handle single wells. This feature reduces the waste of partially used IH-Cards.

Automated Antibody Titration

Perform two-fold dilutions up to 1:2048 and titrate using any reagent registered on the machine.

Instrument QC

IH-500 NEXT System dedicates an additional QC to the instrument. This is useful when one lot of reagents is used between different systems.

Antibody Identification

Perform full antibody identification testing, with assistance from optional integrated IH-A[®]ID software to help identify and rule out possible antibodies.



IH-Card piercing

The IH-500 NEXT System fits any Laboratory Environment

Stand-Alone System

In combination with the optional stand-alone table, IH-500 NEXT System can become a stand-alone system providing ultimate flexibility for the modern laboratory environment.



Compact Bench-Top System

Designed as a compact bench-top system to fit into any laboratory environment, IH-500 NEXT System requires minimal workspace whilst providing maximum workflow.



Specifications

Electrical Data	
Voltage	100-230 VAC
Frequency	50/60 Hz
Power consumption	1,350 VA
Environmental Conditions	
Operating temperature	64.4°F to 82.4°F (18°C to 28°C)
Storage temperature	-4°F to 131°F (-20°C to 55°C)
Operating humidity	5% to 80% rh
Storage humidity	5% to 80% rh
Altitude maximum	2,000 m
Dimensions	
Width	45.3 in (115 cm)
Height	38.6 in (98 cm)
Depth	33.5 in (85 cm)
Weight	470 lb (213 kg)
Minimal installation depth	23.6 in (60 cm)
Capacity	
Samples	50
IH-Cards	164
Reagent vials	34
IH-LISS racks	4
Emissions	
Heat emission	1,000 W
Noise level	max. 65 dB(A)
Pollution level	2

Main Features

- Walk-away
- Continuous loading
- 7 day on-board reagent stability
- Immediate STAT handling
- Active QC monitoring
- Well by well processing
- Only one connection to the LIS through IH-Com

Ordering Information

Catalog #	Description	
001510	IH-500, Fully Automated System for IH-Cards	1 Unit
0595002	Stand-alone table (optional)	1 Unit
12010236	IH-Com Kit Fullversion, Data Management and Result Interpretation Software	1 Unit
12010902	IH-A [®] ID, Integrated Antibody Identification Software	1 Unit
2000050	BRiCare, Remote Service and Support Software	1 Unit

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Finland +358 9 804 22 00 **France** +33 (0) 1 47 95 60 00 **Germany** +49 (0) 89 31884 393 **Greece** +30 210 7774396 **Hong Kong** +85 2 2789 3300
Hungary +36 1 459 6190 **India** +91 124 4029300 **Israel** +972 03 963 6025 **Italy** +39 024 94 86 600 **Japan** +81 3 6361 7070 **Korea** +82 080 007 7373
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Performance*

A, B, DVI+, cti/A, B + Ab screening I, II, III	32 samples/h
A, B, DVI-, cti/A, B	48 samples/h
Ab screening I, II, III	82 samples/h
Ab screening I, II, III + Autocontrol (AC)	42 samples/h
Ab screening with pooled cells	96 samples/h
A, B, DVI-, cti/A, B + Ab screening I, II	36 samples/h
A, B, DVI-, cti/A, B + C, c, E, e, K, cti	48 samples/h

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

Test Methods

- Blood Grouping ABO/D
- Phenotyping Rh/K
- Antibody Screening
- Direct Antiglobulin Test (DAT)
- Antibody Titration
- Reverse Grouping
- Compatibility Tests
- Antibody Identification
- Weak D Testing