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Ortho Clinical Diagnostics



Transfusion medicine professionals are doing more with less. Now it's time to do *better* with less.

The world is changing. Increased demands and decreased resources are having a significant impact on labs everywhere. Ortho's automated systems are designed to help blood banks meet the challenges of today - and tomorrow - with proven technologies and a scalable platform designed to elevate your standard of patient care...

A time of CHALLENGES.

A portfolio of SOLUTIONS.

Today's transfusion medicine professions face unprecedented challenges.



- Demographic shifts
- Increasing testing volume
- Budgetary pressures
- Evolving regulatory requirements
- Skilled resource shortages

Now more than ever, you need a proven partner.

For over 80 years, blood bankers have trusted Ortho to ensure the safety of their patients' transfusions and increase the efficiency of their labs. With over 3,500 placements, every second a patient is safely transfused due to Ortho's pre-transfusion testing.

Our comprehensive portfolio of automated solutions is designed to help you control your operations, optimize your resources and trust your results - regardless of the size or volume of your testing needs.

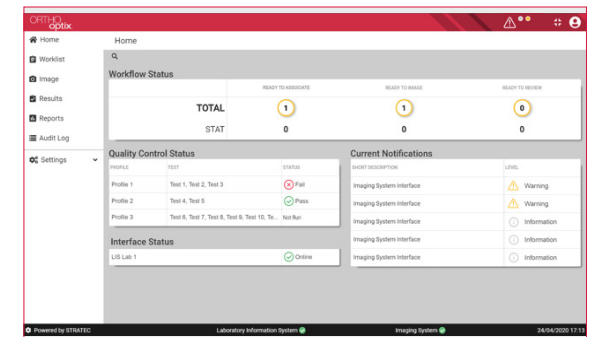
Get the high quality results of an automated solution.

- Scalable solutions for your lab designed with the same Ortho technology, so they all deliver the same high quality result - regardless of which instrument is used
- Easy to use and easy to train with online video tutorials



Standardize your processes - to consistently deliver excellence.

- Consistent performance and compliance helps standardize processes across shifts with enhanced data traceability and reporting capabilities, QC management and the ability to track assays and reagents
- Dedicated lab specialists can support technical questions and help select the right tests for your lab



Drive efficiency and streamline your workflow.

- Centralize your results and streamline your lab's workflow - to help eliminate the need for manual documentation and reduce manual errors
- e-Connectivity enables virtual trouble shooting and quick support from our award-winning Ortho Care™ team.



At the heart of this solution is ORTHO Optix™ Reader – an advanced cassette reader designed to automate reaction grading and elevate your lab's performance to the highest level.

1. For direct and indirect antiglobulin testing, as determined by External Validation Testing using BioVue® Technology. The acceptance criteria for concordance for direct and indirect antiglobulin was ≥98.0% with a lower bound 95% CI of 99.7%.

Integrated tools. Improved workflow.

Better together.



ORTHO
workstation

Partners in performance:

ORTHO Optix™ works with ORTHO™ Workstation, the only compact 2-in-1 blood testing system with reliable ORTHO BioVue® Column Agglutination Technology (CAT), a safe, cost-effective screening solution that contributes to your ability to deliver consistent results – with confidence.

ORTHO
optix
READER

How ORTHO Optix™ Reader benefits your lab:

- **Ensure Accurate Results:** Shown to deliver 99.9% Concordance¹; the same high quality and consistent results as our award winning automated solution ORTHO VISION® Analyzer, so you can trust that results are accurate the first time and every time.
- **Eliminates the Guesswork:** High resolution camera captures up to 26 images per cassette which validates the security of results and eliminates the subjectivity and discrepancies of multiple operators reviewing images by eye. Let the high resolution camera of ORTHO Optix™ focus on the result, so your staff can focus on other critical tasks.
- **Minimizes Manual Error:** Delivers results directly to your computer or from a bi-directional interface to your lab's LIS*, greatly reducing or eliminating the need for manual documentation - and the risk of transcription errors.
- **Improves Workflow Efficiency & Safety:** Cutting-edge software designed with customizable workflow settings enables enhanced traceability and reporting capabilities to keep labs compliant with accreditations and regulations.
- **Maximize Your Testing Ability with Cutting-edge Technology:** Utilizes best in class BioVue® System technology which allows for user defined testing and offers a comprehensive testing menu.

Comprehensive Support.

Inspired by labs' dedication to their patients, we created Ortho ON DEMAND the premiere online destination connecting laboratory professionals with thought leaders from around the world to share industry best practices and innovations. This educational collaborative platform provides 24/7 access to live webcasts, on-demand videos, peer-to-peer chats, articles and case studies.

1. For direct and indirect antiglobulin testing, as determined by External Validation Testing using BioVue® Technology. The acceptance criteria for concordance for direct and indirect antiglobulin was ≥98.0% with a lower bound 95% CI of 99.7%.
*Bi-directional interface to an LIS is optional.



Specifications

Ordering information

ORTHO Optix™ Reader for BioVue® Cassettes

Computer Specifications

Dimensions:
Height - 240 mm (9.45 in)
Width - 215 mm (8.46 in)
Depth - 435 mm (17.13 in)

Weight:
5.4 kg (11.9 lbs)

Power Requirements:
100 - 240 V~, 50/60 Hz, single phase (input auto-senses voltage/current, no manual selection required)

Power Consumption:
150 VA

Browser Requirement:
Google Chrome

Operating System:
Microsoft Windows 10 Enterprise and Microsoft Windows 10 Professional

NOTE: The ORTHO Optix™ Reader does not support Microsoft Windows 10 Home or Microsoft Windows 10 Education.

Barcode Reader Specifications

Reads, with auto-discrimination capability, the standard barcode symbologies listed below:

The following barcode symbologies are required for reading cards/cassettes as well as Ortho branded reagents and QC fluids.

- Interleaved 2 of 5
- Code 128

Configuration of the barcode reader symbologies for sample containers is dependent on the sample containers used by the lab. Commonly used symbologies for sample containers are:

- Code 39
- Codabar
- Interleaved 2 of 5
- Code 128 (includes A, B & C formats and ISBT 128 content)

Printer Specifications

Characteristic

Printers that are supported by Windows 10. Either networked or USB connection.

Description

Serves as an output device for printed system reports, including:

- Order Results Report
 - Quality Control Report
 - Quality Control History Report
 - Laboratory Report
- Assay Statistics Report
 - Blood Group Report
 - Consumable Lot Report

ORTHO™ Workstation

Dimensions:

Height - 220 mm (8.66 in)
Width - 575 mm (22.64 in)
Depth - 325 mm (12.80 in)

Weight:
10.89 kg (24 lbs)

Power Requirements:
100 - 240 V~, 50/60 Hz, single phase (input auto-senses voltage/current, no manual selection required)

Power Consumption:
150 VA

Fuses:
2 required, T4AH250V - 4 amp, 250 V, ceramic, time delay, 5 x 20 mm

Cycle Speed:
Phase 1 - 793 rpm ± 10 rpm
Phase 2 - 1509 rpm ± 10 rpm

Speed Indicator:
4 digits

Timing Indicator:
4 digits

Cycle Timing:
5 minutes ± 10 seconds (including ramp-up time)

Centrifuge Cassette Capacity:
10 cassettes

Incubation Temperature:
37°C ± 2°C

Incubator Cassette Capacity:
20 cassettes (2 sections of 10)

Noise Level Generated:
Maximum 50 dBA at 1 meter (during normal operation)

ORTHO BioVue® Cassette-Configuration

| Name | 1 | 2 | 3 | 4 | 5 | 6 |
|---------------------------|-----------------|---------------|----------|----------|-----------------|-----------------|
| ABO-Rh/Reverse | Anti-A | Anti-B | Anti-D | Control | Reverse Diluent | Reverse Diluent |
| ABDD/K | Anti-A | Anti-B | Anti-D | Anti-D | Anti-K | Control |
| ABO-Rh | Anti-A | Anti-B | Anti-A,B | Anti-D | Anti-CDE | Control |
| ABODD | Anti-A | Anti-B | Anti-A,B | Anti-D | Anti-D | Control |
| Reverse Diluent | Reverse Diluent | | | | | |
| ABD Confirmation | Anti-A | Anti-B | Anti-D | Anti-A | Anti-B | Anti-D |
| ABO-Rh/DAT (Newborn) | Anti-A | Anti-B | Anti-A,B | Anti-D | Control | Anti-IgG |
| DAT | Anti-IgG | Anti-C3b,-C3d | Control | Anti-IgG | Anti-C3b,-C3d | Control |
| AHG Polyspecific | Anti-IgG; -C3d | | | | | |
| Rh-hr | Anti-D | Anti-C | Anti-E | Anti-c | Anti-e | Control |
| Rh/K | Anti-C | Anti-E | Anti-c | Anti-e | Anti-K | Control |
| Kell/Control | Anti-K | Control | Anti-K | Control | Anti-K | Control |
| Kell | Anti-K | | | | | |
| AHG Anti-IgG | Anti-IgG | | | | | |
| AHG Polyspecific/ Neutral | Anti-IgG; -C3d | | | Neutral | | |
| Neutral | Neutral | | | | | |

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