



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.

Because
Every
Test
Is A **Life**™



A time of CHALLENGES

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.

A portfolio of SOLUTIONS

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.

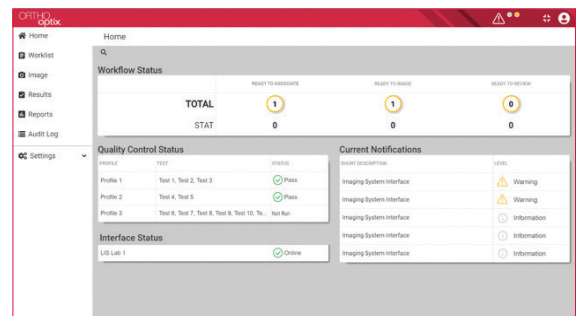
Get the high-quality results of an automated solution.

- 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**



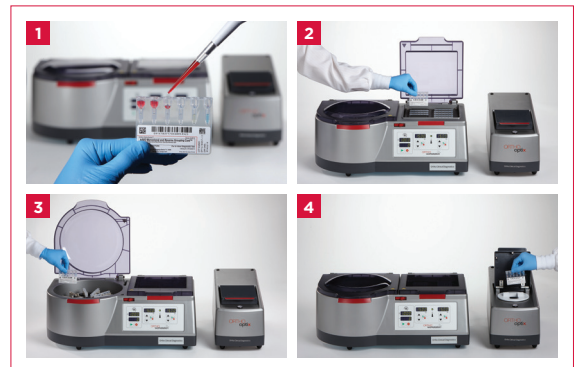
Standardize your processes to consistently deliver excellence.

- Consistent performance and compliance help **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 troubleshooting and quick support** from our award-winning **Ortho Care™ team**



At the heart of this solution is ORTHO Optix™ Reader—an advanced card 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 ID-MTST™ Technology. The acceptance criteria for concordance for direct and indirect antiglobulin was $\geq 98\%$ with a lower bound 95% CI of 99.87%.

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 ID-MTS™ Gel Card Column Agglutination Technology (CAT), a safe, cost-effective screening solution that contributes to your ability to deliver consistent results with confidence.



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 high-resolution images of each side of the reaction column to determine the result, eliminating the subjectivity and discrepancies associated with human reading of results. 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:** Uses best-in-class ID-MTS Gel technology, which 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.

Learn more at www.orthoclinicaldiagnostics.com

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*Bi-directional interface to an LIS is optional.



Specifications

ORTHO Optix Reader

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

Computer Specifications

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 symbology listed below.

The following barcode symbology is 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 symbology for sample containers is dependent on the sample containers used by the lab. Commonly used symbology for sample containers is:

- 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 Microsoft Windows 10. Either networked or USB connected.

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

Processor

Intel i5 CPU or higher

Memory

Minimum of 8GB RAM

USB Ports

2 minimum: 1 each for ORTHO Optix Reader and bar code scanner. Additional ports may be required for keyboard, mouse, and USB printer

Monitor

Minimum resolution of 1,920 x 1,080

Network Connection

Needed for LIS and e-Connectivity

Malware Protection

Customer supplied. Needs to include anti-malware/anti-virus

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: 1,509 rpm ± 10 rpm

Speed Indicator

4 digits

Timing Indicator

4 digits

Cycle Timing

10 minutes ± 10 seconds (including ramp-up time)

Centrifuge

Card/Cassette Capacity

10 cards/cassettes

Incubation Temperature

37°C ± 2°C

Incubator

Card/Cassette Capacity

20 cards/cassettes (2 sections of 10)

Noise Level Generated

Maximum 50 dBA at 1 meter (during normal operation)

Ordering information

ORTHO ID-MTS™ Configuration Table						
Formal Name	1	2	3	4	5	6
A/B/D Reverse Grouping	Anti-A	Anti-B	Anti-D	Control	Buffered	Buffered
A/B/D Monoclonal Grouping	Anti-A	Anti-B	Anti-D	Anti-A	Anti-B	Anti-D
A/B Monoclonal Grouping	Anti-A	Anti-B	Anti-A	Anti-B	Anti-A	Anti-B
Anti-A,B	Anti-A,B					
Anti-A	Anti-A					
Anti-B	Anti-B					
Anti-D	Anti-D					
Monoclonal Control	Control					
Monoclonal Rh Phenotype	Anti-D	Anti-C	Anti-E	Anti-c	Anti-e	Control
Anti-C	Anti-C					
Anti-E	Anti-E					
Anti-c	Anti-c					
Anti-e	Anti-e					
AHG Polyspecific	Anti-IgG, C3d, Polyspecific					
AHG Anti-IgG	Anti-IgG					
Buffered	Buffered					

Nearly 40% of the global transfusion medicine market relies on Ortho solutions.



For more information, please contact your
Ortho Clinical Diagnostics representative or visit
www.orthoclinicaldiagnostics.com.

Contact us to get started:

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Product availability is subject to fulfillment of regulatory requirements in each market. PR-11146

