

Ortho Optix™ Reader BioVue® System Semi-Automated Solutions



A time of challenges

The world is changing. Increased demands and decreased resources are having a significant impact on labs everywhere. QuidelOrtho's semi-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.

Now more than ever, you need a proven partner

For over 80 years, blood bankers have trusted QuidelOrtho to help to ensure the safety of their patients' transfusions and increase the efficiency of their labs. With over 5,500 placements across the globe, a patient is safely transfused every second due to QuidelOrtho's portfolio of pre-transfusion testing

The freedom to focus

Award-winning services and Informatics is the evolution of how service, expertise, technology and data-driven solutions come together to create a more effective, efficient lab — so you can focus on improving patient care.

Today's transfusion medicine professionals face unprecedented challenges



Budgetary pressures



Skilled resource shortages



Increasing testing volume and complexity



Demographic shifts



Evolving regulatory requirements



A portfolio of solutions

Our comprehensive portfolio of scalable 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

Deliver a high quality and safe¹ result with a lower volume solution

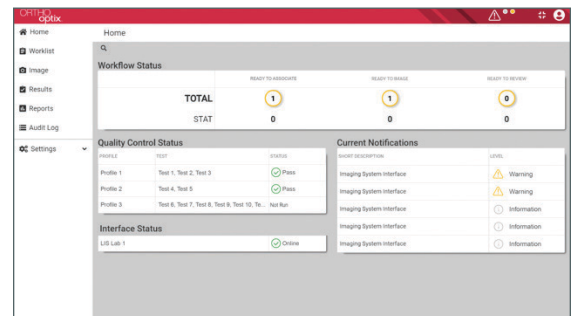
- Scalable solutions designed with the same imaging and interpretation system as our Ortho Vision® Platform to ensure a consistent and high quality result
- Easy-to-use and easy-to-train with online video tutorials



99.9%
concordance²

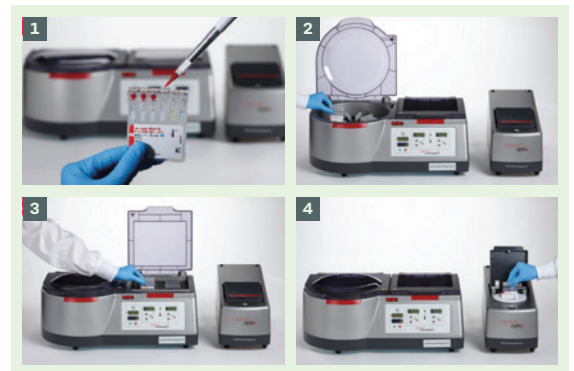
Standardize your processes to consistently deliver excellence

- 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
- Our team of 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® Technology** enables virtual troubleshooting and quick support from our award-winning service and informatics 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. Data on file. CAT # 59431: EXPERT READER GAGE R&R Study.

2. For direct and indirect antiglobulin testing, as determined by external validation testing using QuidelOrtho technology. The acceptance criteria for concordance for direct and indirect antiglobulin was 98.0% with a lower bound 95% CI of 99.7% (Data on file. D50425 Reader_Report_02062020: BioVue EET).

Integrated tools. Improved workflow. Better together.



Partners in performance

The Ortho Optix™ Reader works with the Ortho® Workstation — the only compact 2-in-1 blood testing system with reliable Ortho BioVue technology Column Agglutination Technology (CAT), to provide an accurate, cost-effective screening solution that contributes to your ability to deliver consistent results with confidence.



How Ortho Optix™ Reader benefits your lab:

- **Ensures accurate results:** Proven to deliver 99.9% concordance¹ for a high-quality and consistent result by utilizing the same interpretation system and camera image sensor of our award-winning automated Ortho Vision/Vision Swift platform
- **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 Reader focus on the result, so your staff can focus on other critical tasks
- **Minimizes manual errors:** Delivers results directly to your computer or from a bidirectional interface to your laboratory information system (LIS),² 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 technology which allows for user-defined testing and offers a comprehensive testing menu

Advancing transfusion medicine, improving patient care

Learn with industry experts and thought leaders through our QuidelOrtho Science Bytes monthly podcasts, webinars, videos and additional resources — some of which provide the opportunity to earn Professional Acknowledgment for Continuing Education. You'll gain invaluable knowledge to help your lab maximize performance and help achieve better patient outcomes.

Learn more at quidelortho.com

¹For 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%.

²Bidirectional 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 or Microsoft Windows 10 Professional
NOTE: The Ortho Optix Reader does not support Microsoft Windows 10 Home or Microsoft Windows 10 Education

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 × 1,080

Network connection

Needed for LIS and E-Connectivity

Malware protection

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

Barcode reader specifications

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

The following barcode symbologies are required for reading cassettes as well as QuidelOrtho-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 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

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 × 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

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

Centrifuge cassette capacity

10 cards/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)

Ordering information

QuidelOrtho BioVue Cassette Configuration Table

Formal 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					

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



Nearly 40 percent of the global transfusion medicine market relies on QuidelOrtho solutions.*

For more information, contact your QuidelOrtho Representative

*Market share is based on 2021 market size in reported revenue, 2020-2021 growth in constant exchange rate.

New QuidelOrtho branding may not be available in all markets, subject to country specific regulatory approval. Please confirm with your local commercial team.



At QuidelOrtho, we transform diagnostic data into answers, understanding and action, illuminating the path forward for all. For more than 80 years, we've pursued the unknown with a passion and purpose to improve health. And we'll continue to transform the power of diagnostics into a healthier future for all.

9975 Summers Ridge Road
San Diego, CA 92121 USA

[quidelortho.com](https://www.quidelortho.com)

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