



Because
Every
test
is a Life™

Semi-Automated Solutions *for* ORTHO BioVue® System

Safety and efficiency are critical to labs of every size



Integrated tools. Improved workflow.

Better together. Partners in performance.

ORTHO Optix™ works with ORTHO™ Workstation, the only compact semi-automated solution with reliable ORTHO BioVue® Column Agglutination Technology (CAT). A safe, cost-effective solution that contributes to help you control your operations, optimize your resources and trust your results - regardless of the size or volume of your testing needs.



ORTHO
workstation

ORTHO™ Workstation is a 2-in-1 blood testing system combining a centrifuge and incubator in a footprint of about 0.2 m². It is simple to operate, with language neutral icons and enhanced alarm systems. 70% more efficient* than a separate centrifuge and incubator.

* Vs. current Ortho BioVue® System Centrifuge and Ortho BioVue® System Heat Block.

ORTHO Optix™ Reader - an advance cassette reader based on Ortho Technology to elevate your lab's performance to the highest level.



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® Platforms, 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. Optix captures both sides of the cassette, which provide more objective data compared to only one side.
- **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.

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 $\geq 98.0\%$ with a lower bound 95% CI of 99.7%.

*Bi-directional interface to an LIS is optional.

Specifications

ORTHO Optix™ Reader for BioVue® Cassettes

Computer Specifications

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 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:

3 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 1920 x 1080

Network Connection:

Needed for LIS, e-Connectivity, and network printer

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



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