NOTE: For a full Atomlab 500 or Wipe Test Counter Operation and Service manual, please go to www.biodex.com/support/manuals.
Product Certifications and Classifications

This product has received the following certifications and falls within the following classifications:

- ETL Listed Electrical Equipment, Laboratory Use; Part 1, General Requirements for Safety conforms to UL 60601-1, CAN/CSA C22.2 No: 601-1-M90, IEC 60601-1, IEC 60601-1-4 and IEC 60601-1-2 and CE Marked.

- FDA Class II Equipment

- EC Certificate: EC #4132458

- Type B Applied Part

- Electromagnetic Compatibility: This equipment complies with the Medical Equipment ICC 60601-2 EMC Standard.

Authorized European Community Representative:

Emergo Europe
Prinsessegracht 20
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Contact information

Manufactured by:
Biodex Medical Systems, Inc.
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Service and Technical Support
For Installation questions, contact the BIODEX MEDICAL SYSTEMS, INC. Service/Technical Support Department at (800) 224-6339, (Int'l 631-924-9000).
**Introduction**

The Atomlab 500 Dose Calibrator and its respective components are carefully packed in two cartons inside a larger carton. One carton contains the Tablet, Interface Module, cables, and manual; the other carton contains the detector unit. If ordered, the optional Atomlab Wipe Test Counter will be in its own carton.

This Installation Guide contains the instructions for setting up the following products:

- Atomlab 500
- Atomlab 500Plus
- Wipe Test Counter

**Unpacking the Atomlab**

- Open the lighter carton containing the Tablet, Interface Module, Cables, and manual. The components are packaged as illustrated in Figure 1.

![Figure 1. Atomlab Shipping Carton Containing the Tablet, Interface Module, Cables, and manual.](image)

- Remove all of the components and place on a table.
- Layout all of the cables in connection order per the labeling on the individual plastic bags, which are labeled to match the callout numbers on the assembly diagrams.

*Note: Do not apply power to the Atomlab until all of the connections have been completed.*
Assembling the Atomlab 500, 500Plus, and Atomlab Wipe Test Counter

• Place the Tablet onto the Interface Module as illustrated in Figure 2.

![Figure 2. Tablet When Placed on the Interface Module.](image)

• Plug one end of the USB Cable 1 into the Tablet and the other end into the Interface Module.

• Plug the power connector of Cable 2 into the Tablet. Plug the other end into the power strip making sure the power strip has not been plugged into an electrical connection.

To ensure the appropriate steps are followed, please advance to the correct pages.

• If you purchased an Atomlab 500, continue to the next page.
• If you purchased an Atomlab 500Plus, advance to page 9.
• If you purchased a Wipe Test Counter, advance to page 13.
Atomlab 500 Dose Calibrator

Connecting the Detector:

• Open the second carton and carefully remove the Detector. Place it in the area where it will reside.

• Plug one end of RJ-12 Detector Cable 3 into the Interface Module as illustrated in the circular inset at the left of Figure 4 making sure that the open port is used. Plug the other end of the RJ-12 Cable into the Dose Calibrator/Detector as illustrated in the circular inset at the bottom of Figure 4.

• Connect the two sections of Cable 5 by plugging the cable into the power transformer (see Figure 4). Place the power connector end of Cable 5 into the Interface Module as illustrated in the circular inset at the upper left of Figure 4. Place the other end of the power cable into the power strip.

Figure 4. Connecting Cables from Tablet to Interface Module and Power Strip.

NOTE: Do not apply power to the Atomlab until all of the connections have been completed.

NOTE: If a printer is not being installed on the Atomlab 500, proceed to page 15.
Setup Instructions for Optional Printers

Connecting an Optional Label Printer:

- Place the appropriate end of Cable 6 into the Interface Module as illustrated in the circular inset at the top right of Figure 5 and the other end into the Label Printer as illustrated in the circular inset at the top left of Figure 5.

- Connect the two sections of Cable 7 by plugging the cable into the power transformer. Place the power connector end of Cable 7 into the Label Printer as illustrated in the circular inset at the top left of Figure 5 and the other end into the power strip.

Figure 5. Atomlab 500 – Connection to a Label Printer.
Connecting an Optional Report Printer:

- Place the USB end of Cable 8 into the Interface Module as illustrated in the circular inset at the top right of Figure 6 and the other end into the Report Printer as illustrated in the circular inset at the top left of Figure 6.
- Connect the two sections of Cable 9 by plugging the cable into the power transformer. Place the power connector end of Cable 9 into the Report Printer as illustrated in the circular inset at the top left of Figure 6 and the other end into the power strip.

![Diagram of Atomlab 500 - Connection to a Report Printer](image)

*Figure 6. Atomlab 500 – Connection to a Report Printer*

- Proceed to Page 15.
Atomlab 500Plus (Dose Calibrator and Atomlab Wipe Test Counter Combined)

Connecting the Detector and Chamber:

• The Detector is included in its own box inside of the first carton. Open the box containing the Detector and carefully remove it. Open the second carton and carefully remove the Chamber. Place both the detector and the chamber in the area where they will reside.

• Plug one end of RJ-12 Detector Cable 3 into the Interface Module as illustrated in the circular inset at the upper left of Figure 7 making sure that the open port is used. Plug the other end of the RJ-12 Cable into the Dose Calibrator/Detector as illustrated in the circular inset at the top of Figure 7.

• Plug one end of RJ-12 Chamber Cable 4 into the Dose Calibrator/Detector as illustrated in the circular inset at the top of Figure 7 and the other end into the Wipe Test Chamber as illustrated at the bottom right of Figure 7.

![Figure 7 Connecting the Detector and Wipe Test Chamber to the Interface Module](image)

**NOTE:** Do not apply power to the Atomlab until all of the connections have been completed.
Connecting the Power Cable for the Interface Module:

- Connect the two sections of Cable 5 by plugging the cable into the power transformer (see Figure 8). Place the power connector end of Cable 5 into the Interface Module as illustrated in the circular inset at the upper left of Figure 8. Place the other end of the power cable into the power strip.

** Note: Make sure all other cables are connected before applying power to interface module

Figure 8. Connecting the Power Cable 5 to the Interface Module.

NOTE: If a printer is not being installed on the Atomlab 500, proceed to page 15.
Setup Instructions for Optional Printers

Connecting an Optional Label Printer:

- Place the appropriate end of Cable 6 into the Interface Module as illustrated in the circular inset at the top center of Figure 9 and the other end into the Label Printer as illustrated in the circular inset at the top left of Figure 9.

- Connect the two sections of Cable 7 by plugging the cable into the power transformer. Place the power connector end of Cable 7 into the Label Printer as illustrated in the circular inset at the top left of Figure 9 and the other end into the power strip.

Figure 9. Connecting a Label Printer
Connecting an Optional Report Printer:

- Place the USB end of Cable 8 into the Interface Module as illustrated in the circular inset at the top center of Figure 10 and the other end into the Report Printer as illustrated in the circular inset at the top left of Figure 10.

- Connect the two sections of Cable 9 by plugging the cable into the power transformer. Place the power connector end of Cable 9 into the Report Printer as illustrated in the circular inset at the top left of Figure 10 and the other end into the power strip.

*Figure 10. Connecting a Report Printer*

- Proceed to Page 15.
Atomlab Wipe Test Counter

Connecting the Chamber:

• Open the second carton and carefully remove the Wipe Chamber. Place it in the area where it will reside.

• Plug one end of RJ-12 Cable 3 into the Interface Module as illustrated in the circular inset at the upper left of Figure 11 making sure that the open port is used. Plug the other end of the RJ-12 Cable into the Wipe Chamber as illustrated in the circular inset at the bottom right of Figure 11.

• Connect the two sections of Cable 5 by plugging the cable into the power transformer (see Figure 11). Place the power connector end of Cable 5 into the Interface Module as illustrated in the circular inset at the upper left of Figure 11. Place the other end of the power cable into the power strip.

NOTE: Do not apply power to the Atomlab until all of the connections have been completed.

NOTE: If a printer is not being installed on the Atomlab 500, proceed to page 15.
Setup Instructions for Optional Printer

Connecting an Optional Report Printer:

- Place the USB end of Cable 8 into the Interface Module as illustrated in the circular inset at the top center of Figure 12 and the other end into the Report Printer as illustrated in the circular inset at the top left of Figure 12.
- Connect the two sections of Cable 9 by plugging the cable into the power transformer. Place the power connector end of Cable 9 into the Report Printer as illustrated in the circular inset at the top left of Figure 12 and the other end into the power strip.

Figure 12. Connecting the Wipe Chamber to a Report Printer
Power Up the Atomlab 500 and/or Atomlab Wipe Test Counter

The following steps detail the process for powering up the Atomlab 500/Atomlab Wipe Test Counter:

**NOTE:** When asked to enter the System Password, enter the default of **159** to continue.

- Plug the Power Strip into an AC wall outlet.
- On the Interface Module, verify that there is an LED indicator that is solid green and a yellow flashing LED.
- Turn on the tablet computer power by pressing the power switch on the tablet.
- The Atomlab500 application software automatically runs when the tablet starts up.
- The Main Menu is displayed.

**NOTE:** If the Main Menu is not displayed after the tablet boots up, a message will be displayed indicating that the software is looking for a detector.

**NOTE:** Occasionally, the system boots before the detector. This can cause the system to display a message stating that it has not identified a detector. If such a message is displayed, touch <Rescan> to start a new search for the detector.