Installing the AriaDx Instrument

**Step 1** Select a location for the instrument

Locate a solid, flat clean surface for the instrument. Make sure that:

- The instrument can stand completely stable.
- The rear air slots will not be covered.
- The unit always has at least 10 cm (approximately 4 inches) to the next wall or neighboring instrument.
- The temperature (normal ambient) is between 20°C and 30°C with humidity levels between 20% and 80% non-condensing.
- The atmosphere is not explosive.

**Step 2** Unpack the shipping containers

The AriaDx instrument is shipped in two separate containers. The small container holds the power cord. The large container holds the instrument and accessory tray.

Optical modules are packed separately.

1) Open the small shipping container. Remove the power cord and set it aside for now.

2) Make sure that the large shipping container is in the upright position (Figure 1), then cut the four plastic straps that hold the container together.

3) Open the top flaps of the large container. Inside the container is an accessory tray (Figure 2), which contains the Certificate of Conformance and the installation poster.

4) Remove the accessory tray and set it aside.

5) Remove the foam support that sits on top of the instrument in the shipping container.

6) Grip a handle on each side of the shipping container and lift up to remove the box sleeve that surrounds the instrument. The instrument sits on the base of the shipping container, as shown in Figure 3.

7) Remove the plastic wrapping from the instrument.

8) Lift the instrument off of the shipping container base and set it down on its selected location (see “Step 1. Select a location for the instrument”). Agilent recommends that two people lift the instrument together.

**Step 3** Install the optical modules

1) Open the instrument door by lifting up on the handle on the top of the instrument. Lift the door all the way up and back.

2) Remove the piece of foam and then remove the strip of cardboard from around the thermal block assembly (see Figure 4). The optical module housing carrier is positioned to the left of the thermal block assembly.

3) Slide the optical module housing carrier to the right until it is centered in the opening of the instrument door (as shown in Figure 5). Use the indentation on the top of the carrier to help slide it.
Connect the instrument to a power supply

1) Plug one end of an ethernet cable into the ethernet port on the back of the instrument. Use a standard Cat 6 straight/crossover ethernet cable.
2) Plug the other end of the cable into either a network port or a PC.

You must connect the instrument to a grounded AC outlet.
3) Plug the power cord into the power connector at the rear of the instrument.
4) Connect the cable plug to the outlet (100–240 VAC, 50/60 Hz, 1100VA).

Connect a keyboard or mouse to the instrument (optional)
If desired, you can connect a keyboard or mouse to the instrument via the USB ports on the front and back of the instrument. Plug the USB cable of the device into a USB port on the instrument. Multimedia keyboards are not supported.

With the instrument door still open, clean the outside and inside surfaces of the thermal block.
1) Lift the lid of the thermal block by pulling forward on the handle of the lid and then lifting the lid up and away from the thermal block.
2) Using an aerosol can of compressed air, clean out the wells of the thermal block. Hold the can 3–4 inches away from the thermal block as you press the trigger.
3) Moisten a lint-free cleansing tissue with dH₂O, and gently wipe down the thermal block and the underside of the lid. Then, close the lid of the thermal block and wipe down the top of the lid.
4) Close the instrument door.

If you are connecting the instrument directly into a PC, rather than through a network, you need to set a static IP address, subnet mask, and static default gateway on both the PC and the instrument. See the AriaMx Setup and User Guide for instructions.

Install the optical modules (continued)

4) Open the lid on the optical module housing carrier. a) With your thumb and index finger, pinch together the two pieces of plastic in the indentation on the top of the carrier (see Figure 6). b) Lift the lid all the way back to reveal the six slots for the optical modules (see Figure 7).
5) Open the boxes containing the optical modules. Remove the top piece of foam from each box (Figure 8) then remove the plastic bag containing the optical module.
6) Install the optical modules into the slots.
   a) Open the plastic bag and remove the optical module.
   b) Peel off the plastic film from the edge of the optical module (see figure 9). Once the film is removed, do not touch the exposed edge.
   c) Put the optical module into an available slot. The correct orientation for the optical module is label side up with the Agilent spark closer to the front of the instrument (see Figure 10).
   NOTE: If you are installing fewer than six optical modules, make sure that the empty slots are on the left-most side of the housing.
7) Lower the lid on the optical module housing until it clicks shut. When you turn on the instrument for the first time, it will prompt you to calibrate the background for the optical modules.

Clean the thermal block

Connect the instrument to a network or directly to a PC

Open the lid on the optical module housing carrier.
1) With your thumb and index finger, pinch together the two pieces of plastic in the indentation on the top of the carrier (see Figure 6).
2) Lift the lid all the way back to reveal the six slots for the optical modules (see Figure 7).

Connect the optical modules into the slots.
1) Open the plastic bag and remove the optical module.
2) Peel off the plastic film from the edge of the optical module (see figure 9). Once the film is removed, do not touch the exposed edge.
3) Put the optical module into an available slot. The correct orientation for the optical module is label side up with the Agilent spark closer to the front of the instrument (see Figure 10).
   NOTE: If you are installing fewer than six optical modules, make sure that the empty slots are on the left-most side of the housing.
4) Lower the lid on the optical module housing until it clicks shut. When you turn on the instrument for the first time, it will prompt you to calibrate the background for the optical modules.

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