UNPACK your system. Save your packing material.

Locate the following items:

<table>
<thead>
<tr>
<th>Laser Head</th>
<th>Accessory Kit (including keys)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rack Power Supply</td>
<td>Power Cord</td>
</tr>
<tr>
<td>with Fill Kit</td>
<td>Coolant (Distilled Water)</td>
</tr>
<tr>
<td>Coolant Lines and</td>
<td>External DI Cartridge (optional)</td>
</tr>
<tr>
<td>Electrical Cables</td>
<td></td>
</tr>
</tbody>
</table>

CABLE CONNECTION

1. Attach coolant lines to the back of the laser head and back of the power supply: **blue to blue** and **red to red**.

2. Attach the double-connector side of the electrical cable to the laser head. These connectors have red dots indicating proper orientation. **Note:** It is easier to attach the bottom connector first. Ensure that the connectors are fully seated. **Note:** You should hear an audible “click”.

3. Attach the other end of the D-Connector to the back of the power supply and **tighten the thumb screws** completely to avoid connector contact damage. **Note:** Never operate the laser system without the connectors of the electrical cable fully inserted and the thumbscrews tightened.
   - The optional External DI Cartridge instructions are on the opposite side of this Quick Start Guide.

4. Connect the power cord to the back of the power supply.

5. Remove white plastic shipping cover from the front of the laser head. Do not discard.

FILL

1. Attach vent hose to the **upper** vent port on the front of the power supply as shown.

2. Attach the fill bottle to the **lower** fill port on the front of the power supply.

3. Add water to the fill bottle until the coolant begins to drain from the vent hose. **Note:** You may need to loosen the cap on the fill bottle to generate flow.

4. Ensure that the red emergency stop button on the front of the power supply is rotated to the OUT position.

5. Turn the key to the ON position. The pump will start.

6. Add coolant until coolant remains at the top of the view window. **Note:** To check the water level, it may help to tilt or move the power supply.

7. To purge the laser head of trapped air, turn the key OFF for approximately 30 seconds allowing trapped air to collect. Turn the key ON to start the pump. **Note:** This may take 3-5 attempts.

8. If possible, tip the laser head up and down to dislodge any trapped air. **Note:** You shouldn’t see any bubbles in the coolant lines.

9. Disconnect the fill bottle and vent hose.

10. Turn the key to the OFF position.

11. Secure the laser head to the table using three 8-32 UNC screws at torque 16-18 in-lb.

(OVER)
CONGRATULATIONS!
Your system is ready for full operation.

CONSULT CHAPTER 2 OF THE USER’S MANUAL BEFORE CONTINUING FOR APPROPRIATE EYE PROTECTION AND SAFETY PRECAUTIONS.

1. Ensure that the red emergency stop button located on the front of the power supply is rotated to the OUT position.
2. Insert the key and turn it to the ON position. Note: The front panel will illuminate and the pump will turn on.
3. Check the Pulse Repetition Frequency for the desired value and adjust accordingly.
4. Open the manual shutter on the laser head.
5. Press the RUN/STOP button. Note: You should hear a continuous “chirping” as the lamp flashes.
6. Press the Q-Switch Button.

Note: You can control the output energy with the output energy control buttons.

Optional External DI Cartridge Connection:
1. Connect the connectors and tubing to the DI cartridge.
2. Connect the connector sides of the DI cartridge to the vent/fill connectors located on the back of the power supply.

Your laser is pre-configured to operate at full energy and Pulse Repetition Frequency (PRF).

The only routine maintenance required on the ULTRA system is deionization cartridge and flashlamp replacement. Cycle the coolant at least 30 minutes every 2 weeks and replace the flashlamp as required. See the User's Manual for details.

If you need to ship the laser for any reason, see Chapter 3 of the User's Manual for details on draining the system for transport to prevent freezing.