Quick Start Guide For Your ULTRA Laser System

**UNPACK** your system. Save your packing material.
Locate the following items:

<table>
<thead>
<tr>
<th>Laser Head</th>
<th>Remote Box</th>
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</thead>
<tbody>
<tr>
<td>ICE450 Power Supply</td>
<td>Accessory Kit (including keys)</td>
</tr>
<tr>
<td>Fill Bottle/Vent Tube</td>
<td>Power Cord</td>
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<tr>
<td>Coolant Lines and Electrical Cable</td>
<td>Coolant (Distilled Water)</td>
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</table>

**CABLE CONNECTION**

1. Attach the 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 a “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 thumbscrews tightened.
4. Attach the remote box to the remote box interface on the front of the power supply. Thread the silver collar on the connector until it is flush with the front of the power supply.
5. Connect the power cord to the back of the power supply.
6. Remove the white plastic shipping cover from the front of the laser head. Do not discard.
7. If you received a DI Cartridge that is not attached to the coolant lines, instructions to attach the DI Cartridge are on the opposite side of this Quick Start Guide.

**FILL**

1. Connect the vent tube to the fitting on the front of the reservoir bottle.
2. Connect the vent tube to the reservoir vent port on the front of the power supply.
3. Connect the fill bottle connector to the reservoir fill port on the front of the power supply.
4. Add coolant to the fill bottle until water rises into the vent tube.
5. Insert the key into the power key switch and turn it to the ON (“I”) position.
6. Continue to add coolant until the coolant lines are full and the coolant level is visible in the vent tube (above the minimum coolant level indicator). **Note:** The pink illuminated section indicates the actual coolant level.
7. Disconnect the fill and vent tubes.
8. Secure laser head to the table using three 6-32 UNC screws.

**WARNING:** THIS IS A CLASS IV LASER. READ AND FOLLOW YOUR USER’S MANUAL BEFORE OPERATING TO AVOID DAMAGE OR PERSONAL INJURY.

**WARNING:** OPERATING YOUR LASER WITHOUT COOLANT WILL CAUSE CATASTROPHIC FAILURE.

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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 on top of the remote box is pulled out.
2. See System Summary to verify the desired settings on the remote box. See the User’s Manual for more details of operation.
3. Press the “Flashlamp Start Button” on the remote box.
4. Open the manual shutter located on the side of the laser head.
5. Lasing will begin when the “Q-Switch Start Button” is pressed on the remote box.

Note: For systems with harmonics, it may take several minutes for desired energy output to stabilize.

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 filter replacement and flashlamp replacement. Cycle the coolant at least 30 minutes every month and replace the flashlamp as required. See the User's Manual for details.

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

*DI Cartridge (not attached to the coolant lines):
If your DI Cartridge is not attached to the coolant lines, please follow the steps below:
1. Remove the gray shipping fittings on the DI cartridge by using two fingers to hold down the base of the fitting while pulling straight out on the top of the fitting (See Item 1). Repeat on the opposite side.
2. Remove the two gray caps from the fittings on the coolant line (Item 2).
3. Attach the two sides of the DI cartridge to the coolant lines at the fittings on both ends (Items 3-4). Make sure that the “Flow” arrow on the DI Cartridge is pointing in the correct direction (away from the power supply). Return to the “Cable Connection” section of this Quick Start Guide.