




Laser Marking Technologies, LLC

Purpose: **Lens Cleaning PM Instruction**

When to Use: During Scheduled Preventative Maintenance (weekly or monthly dependent on process)

Materials: *Methanol (*Methanol preferred, but also can use $\geq 91\%$ isopropyl alcohol), laser optic tissues (such as Laser Mech’s part # PLOCK0002) or equivalent, flashlight, finger cots, and an air bulb

Steps:	Details:
<p>1. Power Down Machine</p>	<p>a. With the key inserted, turn the switch counter clockwise—use suitable lockout.</p> <div data-bbox="691 764 859 984" data-label="Image"></div> <div data-bbox="948 863 1464 978" data-label="Text" style="border: 1px solid black; padding: 5px;"> <p>Turn Key Switch OFF (remove key to prevent power on during inspection)</p> </div>
<p>2. Inspect lens’ glass surface for large debris/hazing/smudging</p>	<p>a. Look at the glass surface from all possible angles with a flashlight—most hazing or smudging can be seen looking at a hard angle (similar to looking at a placid lake’s reflection)</p> <div data-bbox="691 1234 1205 1474" data-label="Image"></div>
<p>3. If large debris or dust is found on the lens glass surface blow away</p>	<p>a. If found--For large debris, utilize a bulb air blower (to provide clean, dry air) to blow away and prevent the debris from being pressed into the glass while wiping.</p> <div data-bbox="976 1625 1214 1843" data-label="Image"></div>

Steps:	Details:
<p>4. If hazing or smudging is present—wipe with cleaning agent</p>	<p>a. Fold a tissue twice and soak with the alcohol</p> <p>b. Wipe the surface once—wear finger cots if possible to prevent transfer of particles or oils from hands</p> <p>c. Throw away and repeat until the tissue shows clean after the wipe</p> 
<p>5. Inspect again</p>	<p>a. Inspect at angles with the flashlight once again—repeat wiping with with *Methanol if necessary. Ensure no residue remains from the cleaning agents</p> <p>*Methanol preferred, but also can use $\geq 91\%$ isopropyl alcohol</p> 