

# Dremel LC40 DigiLab Laser Cutter-Engraver

**\*\*The laser cutter-engraver may be operated ONLY with a trained teacher\*\***

Click [HERE](#) for a helpful video on using the Dremel Laser Cutter.

**Materials that can be used in the laser cutter** (materials currently stocked for use)

- Wood\*
- Anodized Aluminum\*
- Acrylic\*
- Cardboard\*
- Cardstock
- Paper\*
- Leather

**Materials cannot be more than 2” thick**

**File types accepted for cutting only – PDF and SVG**

**File types accepted for engraving only – PDF, JPG and some PNG**

**File type for both engraving and cutting – PDF only**

**Please follow these instructions for a successful engrave/cut:**

1. Make sure the LC40 is on **and** the BOFA exhaust filter machine inside the cabinet.
2. Position your material in the laser cutter and calibrate the laser head by using the round plastic tool (“hockey puck”) next to the laser cutter (please ask for assistance with this).
3. Log onto a desktop computer.
4. Decide, locate, and save the file type you would like to engrave and/or cut.
5. Open a browser tab and type the IP address shown on the laser cutter touchscreen.
6. If there is a picture of a former material, select Import>Clear Capture, and if necessary, click on any images and press the delete key on the keyboard to remove the images.
7. Click Import>Capture and follow the prompts on the screen.
8. Click Import>File and choose the file you wish to engrave/cut.
  - a. Please ask for assistance with choosing cut or engrave with this file.
9. Position file on the captured material.
10. Ensure the proper material has been chosen and ask for assistance with the proper depth, temperature, and resolution settings.
11. Click RUN PERIMETER to make sure the laser is moving around the area you have placed your file.
12. Click STOP PERIMETER if all looks well, then START.
13. Follow the prompts on the screen to send your job to the laser cutter.
14. At this time, you will need to physically walk over to the laser and follow the prompts on the screen. Once the job begins, step down. You may periodically check on the progress of your job but never look directly at the laser. **DO NOT LEAVE YOUR JOB UNTIL IT IS FINISHED.**
15. Once your job is completed, press LASER HOME and open the lid to obtain your job. Carefully remove your media, taking care not to hit the laser head.