

3D Relief & Challenge Coins

Turn a photo or logo into a grayscale heightmap — and one toggle away, a challenge coin.

01 Generate the relief

In Depth mode, click **Generate depth map**. An AI depth model runs in your browser (free; the first run downloads ~50 MB and caches). The result is a grayscale heightmap where white = highest — exactly what a 3D/relief engrave reads.

02 Dial in detail

Detail comes from your image, not the model. Turn **Image detail** up (1.5–2) for crisp surface detail, lower **3D form** if it looks bulbous, and add a little **Sharpen**. Use **Smooth** to remove stair-steps on faces.

03 Isolate the subject

Turn on **Remove background (AI)** to drop the background to a flat base plane, or use **Flatten background** to push the darkest tones flat. This keeps the relief focused on the subject.

04 Make it a coin

Toggle **Challenge coin**. Set the diameter (25/40/50/65 mm presets or custom), reposition and zoom the crop, add a raised rim, and type curved **top** and **bottom** rim text with a font of your choice.

05 Export the heightmap

Export a grayscale PNG. Load it into your laser's 3D/grayscale mode. If it engraves inside-out, toggle **Invert** — some machines read white as deepest.

