

Image Stitching Project Feedback:

I've received feedback from the client regarding the stitched composite generated by our tool. They ran some sample data sets and noticed a common issue: the real-life dimensions of objects are not accurately represented in the generated DXF file.

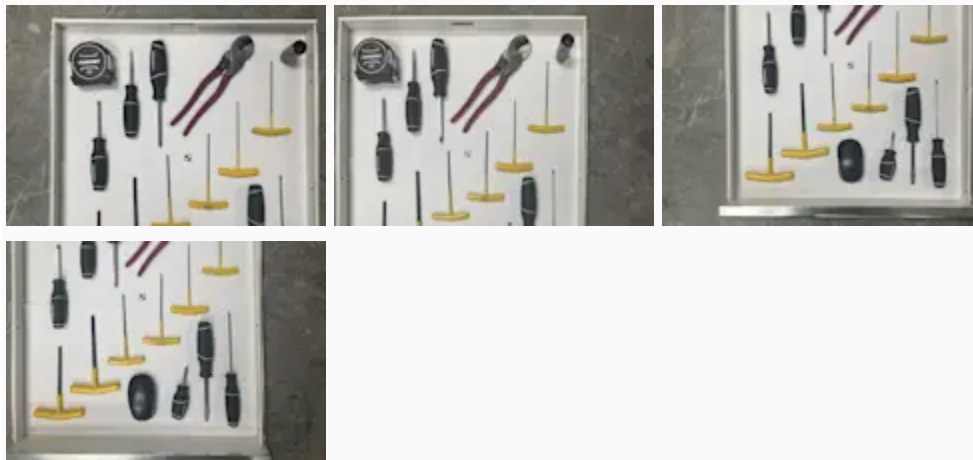
Feedback Summary:

I ran some sample data sets through it. There was a common problem. The real life dimensions of the objects are not accurately being represented in the stitched composite. For example, see the attached stitched composite. I measured the tool circled in red both in the generated DXF and in real life. In the DXF its length is ~5.47 inches. In real life, this tool measures at 6 inches in length (see attached images). Please advise what is happening and what will be done to fix this very important issue.

Please see the attached images for reference:



Here are the 4 images I used to create this composite.



3. I recommend you guys do extensive testing and refining of this software before resubmitting it to me for review. Place an object of known dimension in either corner of a drawer. Collect your own 4 sample images. Run the generated composite through the DXF generator, then measure the contour of the tool within the DXF and compare it to the real-life dimensions of the tool.

4. There are many free CAD programs out there that will allow you to measure the lengths of tools within the DXF file so you can do your own testing in order to refine and resubmit this application.

5. This was my main worry with this image stitching approach. How would the tools maintain their real-life size relative to one another? The images are from inconsistent angles, at inconsistent heights. The same tool will be a different relative size in all 4 of these images. I feel this is more complex than you may be considering. Please let me know your thoughts.

Prepare a detailed explanation for the client about what caused the issue and how we're addressing it. If you have any questions or need further clarification do let me know.

Thanks