

3D SCANNING AND PRINTING DAY2

Guide of good practice

Photography for photogrammetry

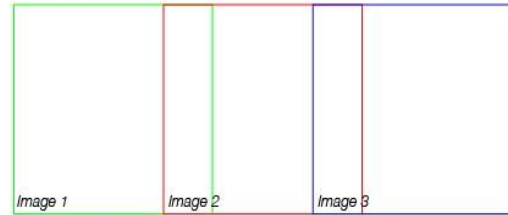
Think like a computer if it's not in the picture, I don't know it **exists** and if I don't have another picture with some overlapping reference point, I don't know **where** it exists...

Overlap images at least 40-60%

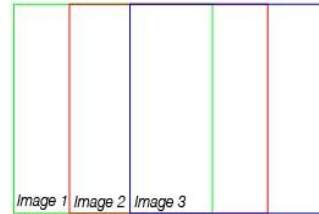
0% overlap



20% overlap



70% overlap



With what?



**With more or less anything that
allows for manual settings of the
camera: phone or DSLR...**

**Avoid changing settings
between photos**

Keep the object in focus

Ideal lighting conditions would be an overcast day outside or inside with controlled light avoiding sharp shadows and reflection.

50 - 75 images minimum for something that fits in the average adult hand. Best results at 100 - 150 images. 200 - 300 for a human sized object, 500+ for bigger. The bigger the model the more pictures will be needed to reconstruct,

More is less...

Mobile Apps:

<https://all3dp.com/2/best-3d-scanner-app-iphone-android-photogrammetry/>

Softwares:

<https://m.all3dp.com/1/best-photogrammetry-software/#section-free-photogrammetry-software>

Qlone

Policam

Meshroom

Manual: <https://meshroom-manual.readthedocs.io/en/latest>

Alice Vision: <https://alicevision.org/#>

Meshroom wiki: <https://github.com/alicevision/meshroom/wiki>

Education purpose only

