CAPTURING IN LIGHTROOM MOBILE APP:

1. Camera icon in LR app -> select pro mode
2. Choose specific WB setting instead of auto (this makes sure fixed WB for all images)
3. Choose shutter speed (can be changed across captures)
4. Take multiple forward facing captures (100+)
5. Select images in the LR gallery and Export as (DNG for raw, and choose JPG (original size) to also get the corresponding jpg for colmap)
6. After it exports the images to phone, you can put them on drive or move them wherever

PRE-PROCESS:

1. Create raw and images folders with raw and jpg files respectively. Make sure they have same number of images with same corresponding name/order of images.
2. Use pkg( [llff\_pkg\_link](https://drive.google.com/file/d/1hYgdETQsoGVfDPpmHXz8Fc6_G4DiMGIy/view?usp=sharing) ) and the steps in **run\_colmap\_l3d.bat** to run colmap. (Will need to change directory paths in these steps based on your directory, might need to install colmap and add to path) Copy poses\_bounds.npy and sparse folder into your codes data directory.
3. On cmdline in raw images folder – run “"exiftool(-k).exe" \*dng -a -u -g1 -w txt” (exiftool is checked into git)
4. Run txt2json py nb in the raw folder where all txts were generated (might need to change number of images in loop or image names if you changes that) -> this will create jsons