

# Geospatial Modeling & Visualization

A Method Store for Advanced Survey  
and Modeling Technologies

GMV Geophysics GPS Modeling Digital Photogrammetry 3D Scanning Equipment Data and Projects by Region

## Checklist for Close-Range Photogrammetry Image Collection



Download a printable checklist in PDF format [here](#).

### Before you leave the office

- Check that the battery is charged (check spare battery if taking one)
- Copy images from past projects to a laptop if needed and format the card
- Attach the lens you plan to use
- Check the lens for excessive dust

### Goals for each image you capture

- Use entire frame
- Sharp focus at all distances
- Good exposure throughout image

### Camera setup for typical close-range project with DSLR

- Set to Aperture Priority mode
- Set aperture to between f8 and f16 (depending on DOF<sup>1</sup> needed)
- Set the camera to collect RAW and/or JPEG Large
- Configure other settings as needed
- Mount camera to tripod and frame the object for the first image
- Focus the camera on the object (using auto or manual), then turn the lens to manual focus and tape the focus ring so that it doesn't move
- If using a zoom lens, tape the zoom so that it doesn't move
- Set the camera to use a 2 second timer (or use wired shutter release)
- Set camera to use mirror lock-up (to avoid camera vibration)

### Notes

<sup>1</sup> DOF stands for Depth of Field and is a term used to describe the depth of the scene that is in focus. Smaller apertures create more depth of field, though, at some point a small aperture will introduce blur due to diffraction. Learn more here at the [dpreview.com glossary](#).



You are reading the series: [Close Range Photogrammetry](#)  
[Four Basic Steps of a Close-Range Photogrammetry Project](#)  
Checklist for Close-Range Photogrammetry Image Collection  
[Acquire Images for Close-Range Photogrammetry](#)

[Computer Requirements for PhotoScan and PhotoScan Pro](#)  
[Close Range Photogrammetry Documentation](#)  
[List of Helpful Websites and Publications for Close-Range Photogrammetry](#)

Please cite this document as: Barnes, Adam. 2012. Checklist for Close-Range Photogrammetry Image Collection. CAST Technical Publications Series. Number 10840. <http://gmv.cast.uark.edu/photogrammetry/hardware-photogrammetry/canon-5d-mark-ii/canon-5d-checklist/checklist-for-close-range-photogrammetry-image-collection/>. [Date accessed: 27 April 2013]. [Last Updated: 11 August 2012]. *Disclaimer: All logos and trademarks remain the property of their respective owners.*

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