



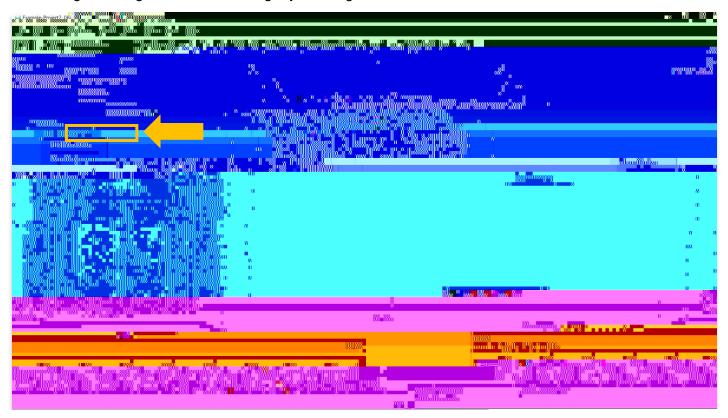
PHOTOGRAMMETRY AGISOFT METASHAPE

Building and Exporting an Orthomosaic Image (Professional Edition) (04.13)

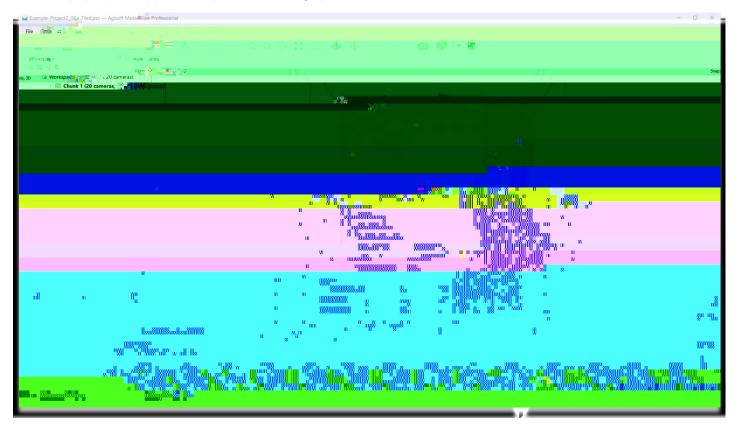
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1. Begin building an orthomosaic image by selecting the Workflow Menu > Build Orthomosaic.



2. A pop-up will appear that provides setting options:

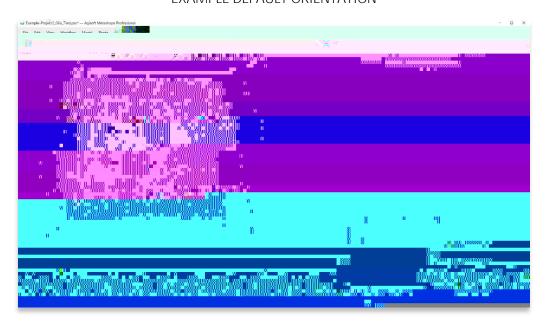


3. Projection Type:

- i. Geographic Best for aerial maps and landscapes. This option allows users to choose a geographic coordinate system from the dropdown list or upload parameters of a customized geographical coordinate system. The coordinate system set by default is the coordinate system previously selected for the model itself. You can switch to a different one, providing that corresponding datum transformation parameters are available.
- ii. Planar Best for facades or other vertical surfaces. Metashape allows users to project the orthomosaic onto a plane set by the user, providing that mesh is selected as the surface type. You can change the projection plane and orientation of the orthomosaic.
- iii. Cylindrical Best for portable objects or curved architecture. This option allows users to project orthomosaic on a cylindrical or curved surface. It helps to avoid severe distortions while projecting cylindrical objects, like tubes, round towers, tunnels, etc.

4. Projection Plane:

i. The common types of project planes you will use are Current View or X/Y/Z. When you save your Metashape project, the orientation of your model may change. Whatever orientation appears after saving your project will be the default view of your orthomosaic.

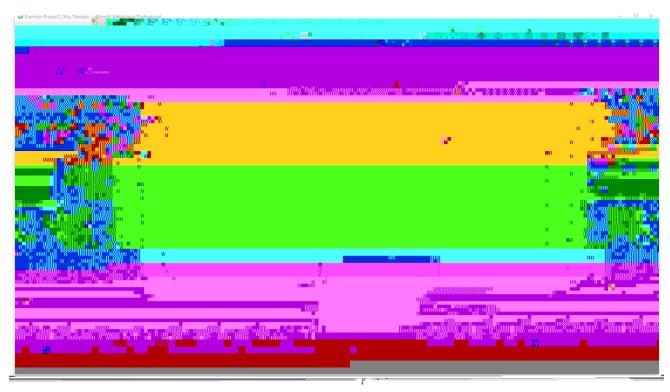


EXAMPLE DEFAULT ORIENTATION

5. If the default orientation appears similar to the one above, users can (1) move the model to its upright position and select Current View or (2) select Top XY and rotate the angle (in this case 270 degrees).

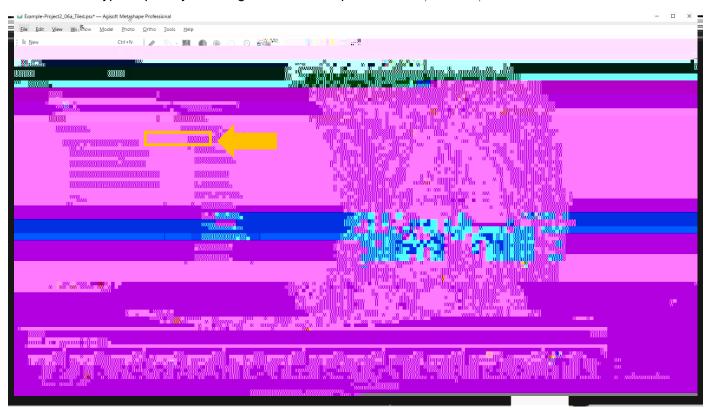
6. Users can view the default orthomosaic orientation by selecting the Ortho tab located in the top left of the main panel.

- 7. All other default settings that appear in the pop-up are sufficient to create an accurate orthomosaic image



EXPORTING AN ORTHOMOSAIC IMAGE

8. After building an orthomosaic image, users can export that image into many formats. TIFF is the most commonly used file type. Export by choosing the File menu option, then Export > Export Orthomosiac.



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9. Adjust any settings as needed. The default settings displayed to the right

are sufficient for the model used in this tutorial.