sightlogix

How to Download a Geo-Calibrated Image Using Google Earth

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When you perform a GPS Map calibration with a SightSensor, you need a site map that represents your actual location. SightLogix can often provide this for you, but sometimes a custom site map is not available when your product ships. In this case, you can add your own geo-referenced topology map that represents your site using Google Earth, as described below.

1. Use a version of Google Earth that provides at least six digits of latitude and longitude resolution.
2. Download and install Google Earth.
3. Start Google earth and select Tools – Options select in Show Lat/Long select Degrees for decimal degrees. Select Detail Area and select Large. Press OK to save and close window.
4. After Google Earth is installed and started press F11 to use full screen mode.
5. Next search the location where you need a calibrated map. Use the navigation tools to center the area of interest and permit some adjacent area coverage. Be sure to pan earth rendering to flat and no edge on view. Keep North exactly at the top of image for proper calibration (no rotation).
6. Go to your SightLogix Windows directory and select a sample .info file and press right mouse button (. Select - Copy. Name the new info document something descriptive.info (for example TRAIN_YARD.info). Open the new info document for editing by double clicking on the icon. Select the window with the new info document using left mouse button.
7. Next, in Google Earth you will copy calibration latitude, longitude for upper left and lower right as well as height and width measurements for the image as follows:
   - Press the push pin icon and move it to the extreme upper left corner of the image.
   - Highlight the latitude field not including the degree symbol and press control + C to copy the latitude digits.
   - Paste the latitude digits using control + V in to the .info file latitude field.
   - Highlight the longitude field not including the degree symbol and press control + C to copy the longitude digits.
   - Paste the longitude digits using control + V in to the .info file longitude field.
8. Go back to Google Earth and repeat step 4 above for the lower right corner.
9. Go back to Google Earth and press the ruler tool. Select meters. Carefully measure the image width and type the numbers to the proper info file width meters field.
10. Next select feet and retype the distance measured in to the width and type the numbers to the info file width feet field.
11. Using Google Earth press the ruler tool. Select meters. Carefully measure the image height and type the numbers to the proper info file height meters field
12. Next select feet and retype the distance measured in to the height and type the numbers to the info file height feet field.

13. Press clear in the Google Earth window to clear the measurement line. Close the ruler tool in Google earth.

14. Press File then Save in the info file window to save the modifications.

15. Go to the Google Earth window and select file then select save then image. Save the image to a location where you can find it (desktop etc.).

16. Copy image and info file to one of the following locations (for CS - WebConfig users can save the file at a convenient location):

    - 32-Bit Systems: C:\Program Files\SightLogix\CS\Tomcat\webapps\slcs\site_images
    - 64-Bit Systems: C:\Program Files (x86)\SightLogix\CS\Tomcat\webapps\slcs\site_images

14. Load site map in to CS and verify that there are no calibration errors reported when new site is loaded and saved.