

January 31, 2022


Steve Watson
Hall County, GA
300 Henry Ward Way
Gainsville, Georgia 30501

Dear Steve,

As technological leader in the field of high resolution geo-referenced aerial imagery, Pictometry International Corp. holds 94 U.S. patents issued and in force and 32 pending U.S. patent applications that relate to various aspects of capturing, processing, displaying, and using geo-referenced aerial imagery (information current as of September 18, 2020). The Pictometry patent portfolio protects, among other things, Pictometry's (and its EagleView affiliates') exclusive rights to use or provide the following capabilities:

- Determine from an oblique image distance along the surface of the earth following the terrain instead of a straight line that ignores changing terrain (US Patent 7,995,799);
- Use tessellated ground plane data with an oblique image to produce greater accuracy when converting from pixels to geo-locations and when making linear and area measurements (US Patent 7,787,659);
- Use Pictometry's proprietary file structure for oblique images (US Patents 7,787,659 and 8,068,643);
- Select a measurement mode (including distance, height, relative elevation) from a list of tools while viewing an oblique image and using the associated metadata and ground plane information for the oblique image to obtain the corresponding measurements directly from the imagery (US Patent 8,068,643);
- Use a geographic location, whether manually input or from an address lookup, to search a database of oblique images, each with metadata and ground plane data, in order to retrieve the image that contains that location and display it for analysis (US Patent 8,204,341);
- Calculate a desired measurement in a displayed oblique image by referencing positional data for the oblique image and a pre-calculated or created ground plane having elevation data conforming to the topography of an area within the oblique image (US Patents 8,204,341; 9,811,922; and 10,607,357);
- Calculate multiple elevations of a tessellated ground plane for an oblique image using positional data and data indicative of topography represented by the oblique image such that the elevations of the tessellated ground plane conform to the topography of the oblique image (US Patent 8,204,341);
- Measure distance, height, area and relative elevation dependent upon ground plane data that closely approximates the terrain within an oblique image (US Patents 8,223,666 and 8,634,594);
- Extract area measurements of vertical or pitched surfaces using an oblique image, its associated camera information and ground plane information (US Patent 8,223,666);
- Pan through an oblique library by detecting the border of the current image and automatically selecting the oblique image that best matches the current camera orientation and scale while extending farther in the direction the user is panning. (US Patents 8,593,518; 8,643,720; and 9,530,181);
- Transmit post-disaster imagery to the ground from an airplane in real-time through a high-speed directional communications link that is synced with a "non-line of sight communication system" such as a satellite telephone (US Patents 8,477,190; 9,723,269; and 9,743,046);
- Use a capture system that acquires the geo-location of a camera during image acquisition, and controls multiple cameras separately (US Patent 9,182,657);
- Measure between at least two selected points on a man-made structure, such as a building, using an intermediate selection of points or a summation of at least two line segments (US Patent 9,443,305);
- Securely process images of sensitive geographic regions (US Patents 9,881,163 and 10,311,328); and
- Ensure full coverage of acceptable images without costly reflights or delays (US Patents 8,385,672; 8,515,198; 9,262,818; 9,633,425; 9,959,609; 10,198,803; and 10,679,331).

Those patented technologies enable Pictometry to deliver combinations of product and service offerings, features, functions and quality not available through other vendors.



Frank Giuffrida - Senior Vice President – Image Capture R & D