

Video with Map Overlay Patent Portfolio

US Patent Numbers 7,456,847 and 8,334,879 with Related IP Assets
This Portfolio is Offered for Sale

Command and Control: Advanced Technology Ready for Consumer Use

Pedestrians, bicyclists, and drivers rely on visual cues to keep track of their locations the same way military helicopter and fixed wing airplane pilots use landmarks to confirm positions. Most of the time, familiarity with the local landscape is sufficient to keep from getting lost; however, maintaining orientation in an unfamiliar location like a different city can prove challenging. Map access, or even GPS, may be insufficient alone for precisely locating and directing pedestrians, Segway or bicycle riders, or automobile drivers.

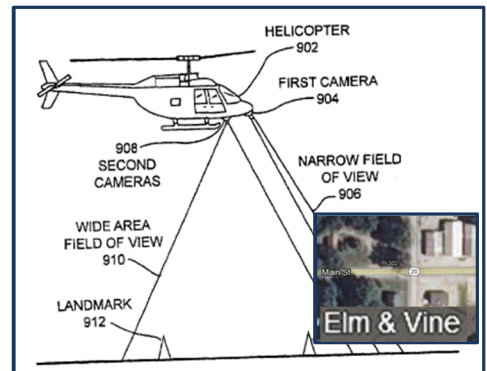


These patents, titled **Video with Map Overlay**, teach and claim the fusion of live video imagery with an informative data overlay useful for confirming exactly what location or landmark is displayed in the camera's field of view. Ubiquitous cell phones and even newly emerging augmented reality glasses all benefit from "labeling" live images with correct address, street or building name information, contact data, and other useful information.

Modern Mobile Computing Devices: Ideal Technology for Confirming Location

Eliminating guesswork and *time lost getting lost* are the ultimate objectives of these patents. Sophisticated video technology was once the exclusive domain of military and law enforcement organizations; for example, as part of helicopter-based video systems (see illustration). These days, advances in modern mobile electronics can deliver vast data access and live video to every user. When it becomes difficult for a viewer to recognize exactly where the camera is pointing, especially when the field of view is limited to a narrow area, this novel technology provides a video overlay (such as readable text) to confirm a location or landmark. Inventor Russell Krajec has recognized that this location data is essential to taking full advantage of all the advanced capabilities these new mobile technologies offer.

Descriptions relating to nearby streets or intersections, or perhaps well known structures, are usually helpful (e.g. – "the building at the Northwest corner of Elm and Vine"); yet, sometimes actual confirmation is necessary. Position sensing technology, computing power, and GIS databases have made the days of location "guesstimates" a thing of the past. Two cameras may be deployed – one capturing recognizable landmarks for image recognition and another coupled to a telescopic lens – or, for a mobile device, a single camera¹ may provide both the wide and narrow field-of-view video streams. These, along with other embodiments, enable fusion of wide and narrow field video information with position sensor data to instantly deliver very accurate location reference information as an overlay.



Available Patents: A Successful Bidder Will Protect Distinct Technical Advantages

Inventor Krajec claimed broad coverage of the modes of operation possible for generating a practical video information overlay. The successful bidder will acquire USPN 8,334,879 (issued December 18, 2012) and its continuation, USPN 7,456,847 (November 25, 2008), plus another continuing application along with access to the inventor's know-how.

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¹See USPN 8,334,879 for single camera claims.