

StereoMirror™ Case Study: Keystone Aerial Surveys, Inc.

Aerial Photography Production Process

Who Uses Planar's StereoMirror

Keystone Aerial Surveys, Inc. provides airborne acquisition and image processing services for clients throughout North America. Their operation activities range from collection of raw data to high-quality derivative products and custom software applications tailored to specific needs of their customers. They handle all types of data requirements, including digital imagery, magnetometer or film. Keystone has the airborne acquisition capacity to quickly fly a project of any size with great accuracy. The firm has an extensive library of imagery, including recently acquired, high-resolution digital imagery of nearly 300 cities in the United States, as well as historic image archives dating back to the 1960s.



Figure 1: Andrew Falker, Aerial Photographer/GIS Technician of Keystone, uses the SD2420W to view stereo aerial imagery

How Do They Use Stereoscopic Imagery

Keystone verifies the accuracy of Digital Elevation Models (DEMs) for use in their orthophoto production process. The stereo viewing of the aerial photography enables their team to confirm that the DEM data is "correct" and then, if needed, correct the problem areas quickly and effectively. They use Inpho DTMaster and a 3D Stealth mouse.

Keystone wanted to upgrade its workflow to make the team more efficient. The team conducted extensive research into their first purchase of a stereoscopic monitor.

Why the StereoMirror Provides a Better Viewing Experience

Keystone has been using Planar's StereoMirror SD2420W with Planar's PX 2411W monitors for over six months. Several of their photogrammetrists had experience with other stereo displays. They were highly impressed with the image quality and the overall "look & feel" of the StereoMirror technology.

"We chose the Planar system because we felt it best suited our needs moving into a complete digital workflow," states David Day, director of IT at Keystone Aerial Surveys, Inc. "We also chose Planar due to its outstanding reputation amongst other photogrammetric companies, and it was recommended to us by the one of our software providers as being the best on the market."

The team appreciates the image quality as compared to other "off the shelf" products. The 24" widescreen allows each user to view a much larger area without sacrificing the desired image magnification extent which is helpful when working with multiple users. With Planar's StereoMirror technology several users can easily view the stereoscopic images from a wider angle than traditional CRT monitors, allowing a better "visualization" of the area of interest. "The SD monitor has benefited Keystone by helping us move into an all digital workflow environment, from collection to the delivery of final products," says Brian Jennings, director of international operations at Keystone Aerial Surveys, Inc..

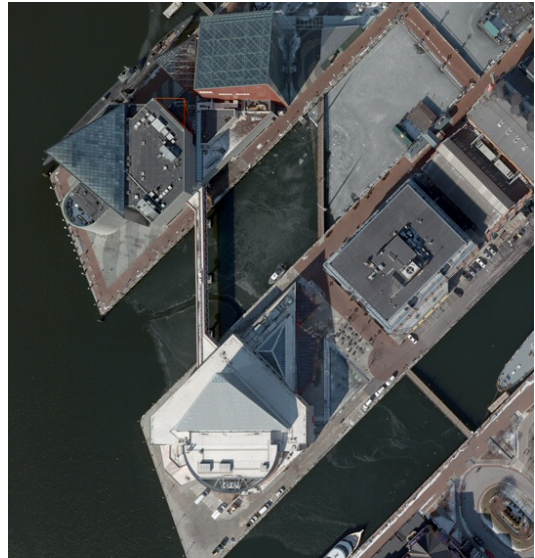


Figure 2: An example of content that Keystone would use a Planar stereo monitor to view. This aerial image of Baltimore was recently shown at the ASPRS conference.

For more information about Planar's stereoscopic display solutions, please visit www.planar3d.com or www.planar.com.

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