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The All New Trimble V10 Imaging Rover

By gisresources | 24 January, 2014 | No Comments |

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Image Credit: Trimble

The Trimble V10 Imaging Rover with Trimble VISION™ technology is an integrated camera system that precisely captures 360-degree digital panoramas for efficient visual documentation and measurement of the surrounding environment. As a complete system solution, the Trimble V10 enables you to capture more critical information that can be transformed into enhanced, rich geospatial deliverables.

The applications include geospatial documentation, survey, oil & gas, and site visualization, etc. The Trimble V10 provides urban planners, GIS professionals, asset managers and other geospatial professionals with the means to capture images in the field and build a clean, comprehensive dataset back in the office. The resulting geodatabase can be used for the development of virtual cities, as well as inventorying and managing assets. By enabling complete geospatial documentation, these professionals are able to efficiently create a complete database. This ensures that the data meets quality standards and is consistent.

The Trimble V10 unlocks a whole new workflow to complete traditional survey work such as design surveys. With the Trimble V10, the job starts with capturing panoramas of the site, something now easily accomplished with Trimble VISION at the rod. The panoramas are then used to create positions for standard survey features in Trimble Business Center. While generating positions the user can create points, lines, and polygons with attribute data for the job site. These results can be exported directly as deliverables or taken into other packages for CAD work, modeling or data analysis.

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Sometimes not all of the necessary data is collected resulting in a required trip back to the field. The Trimble V10 helps alleviate this problem by enabling surveyors to completely document the job site with 360-degree panoramic images as well as its spatial relationship so that any missed data can be quickly and efficiently created.

THE COMPLETE SOLUTION FOR YOUR APPLICATION

For a complete system solution in the field, the Trimble V10 combines seamlessly with the Trimble R10 GNSS receiver or Trimble robotic total station, such as the Trimble VX™ along with the Trimble Tablet Rugged PC running Trimble Access™ field software. Each of these products work together to form a cohesive solution that fosters a seamless workflow from data collection to data processing. In the office, use Trimble Business Center to view panoramas, measure photo points, and create rich image-based geospatial deliverables.



The Trimble V10 offers a solution to this challenge by enabling these professionals to take a picture, complete with details and georeferenced positions, of objects quickly.

In short, in the field, use the V10 visually observe and capture the entire job site and in the office, Trimble Business Center offers close-range photogrammetry tools to perform survey-grade measurement of imaged features and prepare rich deliverable.

Features

- 12 calibrated cameras capture 60 MP panorama for full site visualization
- Generate Survey, GIS or mapping accuracy positions from images
- Rapid data collection with one-button capture of panoramas
- Familiar, easy-to-use workflows in Trimble Access field software
- Seamless integration with the Trimble R10 GNSS receiver or Trimble VISION total stations
- Flexible, simple processing in Trimble Business Center to generate deliverable

Read more about [Trimble V10 Imaging Rover](#)

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Source: Trimble

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