

# Trimble VISION Technology

## Improve Workflow and Survey More Efficiently With Trimble VISION™ Technology

**R**obotic total stations made it possible for a single surveyor to be more efficient than multi-person crews using non-robotic total stations. However, robotic surveying still has its limitations. One being that the surveyor still needs to stand behind the instrument in order to collect reflectorless measurements. As a one-person survey crew, this can cause wasted time spent walking back and forth between the rod and the instrument. Trimble VISION-enabled instruments can help eliminate this problem and more.

You're performing a survey and need to measure from a control point to a structure located across a busy highway. The job requires a number of measurements to prisms throughout the site as well as several reflectorless measurements to a structure and several other surfaces.

Equipped with a robotic total station loaded with Trimble VISION technology, simply establish your station setup and proceed onto the site with your robotic rod and controller. When you measure points with the robotic rod, you will see that you're locked onto the correct target and have collected the necessary measurements.

Now, it's time to collect the reflectorless measurements. From the controller, simply switch to DR mode, zoom the camera, select the point to be collected and store the measurement. Then continue to measure additional points with the measured data overlaid on the live video display. You can review your work and have full confidence that you have completed all of the necessary measurements from the live video on your controller.

With each measured point, you can choose to store a corresponding image. Or collect multiple images to create a panoramic photo of the station setup. This allows you, or someone else, to visualize the site conditions back at the office.



All of this data can be collected and verified without the need to go back and forth to the instrument, across the busy highway, over the river, or through the brush, and whatever else may stand between you and the instrument, until the survey is complete. Eliminate wasted time, work safer, and reduce rework to complete your work faster all thanks to Trimble Vision technology.

**Resources:**

Use these Trimble website links for more information about Trimble VISION-enabled solutions:

- <http://www.trimble.com/trimblevx.shtml>
- <http://www.trimble.com/trimbles8.shtml>
- <http://www.trimble.com/trimbles6.shtml>

**EFFICIENCY AT WORK**

*Eliminated trips back to the instrument save hours of project time.*

**OLD WAY:**

Take robotic measurements, return to the instrument to collect DR shots. Realize you forgot a measurement, requiring you to return to the field again and collect the missing data.

**NEW WAY:**

Take the robotic measurements and collect DR shots while at the rod, then easily review your data overlaid on live video to ensure all measurements are collected before returning to the instrument.

