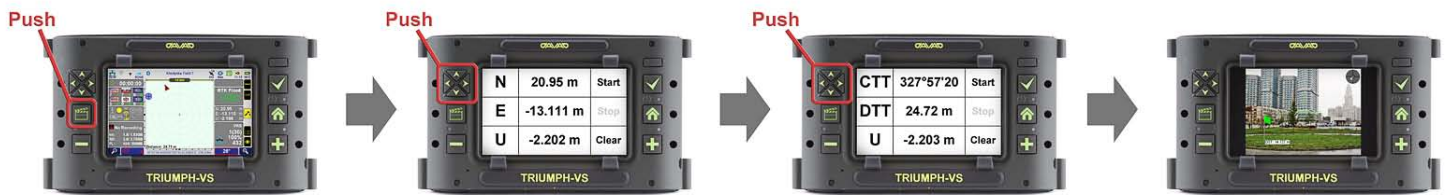


Visual Stakeout

In Visual Stakeout (VSO) you can see the virtual location of your stake by a “flag” that is shown on the camera image of the field in front of you. This visual aid helps you to navigate quickly to your stake point and makes your stakeout jobs fast and fun

Running Visual Stakeout

1. Start regular stakeout of process by selecting your stake point;
2. On the main stakeout Action Screen push “*Action*” button to bring up secondary action screen;
3. Use arrow buttons to cycle through the secondary action screen representations until the camera picture shows up.



4. Note that the only way to return from the secondary action screen to the main one is pushing “*Action*” again. Home button doesn’t work in secondary action screen;

Visual stakeout functioning

While at VSO screen the camera picture will always be displayed. There will also always be a virtual bubble level in the top-right corner of the screen and a green crosshair at the center of the screen. Virtual bubble level should act just like a real one placed on top of the device, helping to hold the device horizontally. Crosshair only shows the camera optical axis. Generally VSO precision is better when the target point is close to the crosshair.

When there is a target point selected for the regular stakeout mode, VSO screen will display it over the camera picture. If the point is out of the camera’s field of view, wide arrow would appear at the edge of the screen pointing the closest turning direction to bring the target point to the field of view.



If the target point is in the front camera's field of view, it will be marked with a small green circle and a flag of variable color. The green circle is displayed right at the target point and the flag should look like a real physical flag placed at this point. Note the green circle has a constant size; the flag is always scaled to keep a 1.6-meter proportion. It becomes taller as you approach the point.

Near the target point the planar distance to it is displayed. The distance is displayed in meters if it's smaller than 1 km and in kilometers otherwise.

Target point marking flag



Target point itself

Planar distance

The flag color represents current position solution type: it can be green, yellow or red, indicating RTK Fixed, RTK Float and Stand-alone solutions.



RTK Fixed



RTK Float



Stand-alone

When you come close enough to the target point the device will automatically switch view to the bottom camera. Displayed information remains the same as for the top camera except for the flag. The 1.6-meter height flag is replaced with a 30-cm circle for the bottom camera. The circle should look like a physically painted 30-cm circle around the target point. The circle color has the same meaning as the flag color for the top camera VSO.

Note that the distance displayed is still horizontal distance.

Target point marking circle

Target point itself



Final notes

1. The VSO precision is better when you get closer to the target point and it's also better when the point is close to the crosshair. This means that the best way to get the most precise target point picture is to place the device so that the bottom camera's marking circle is right in the center of the screen and the virtual bubble level has its bubble right in the center.
Use VSO as an easy and convenient way to get close to the target point, and then switch to the regular stakeout mode to perform precise measurement.
2. The VSO precision is highly depends on the levels and compass measurements. Be sure these are always accurately calibrated.