

# Geospatial Modeling & Visualization

A Method Store for Advanced Survey and Modeling Technologies

GMV Geophysics GPS Modeling Digital Photogrammetry 3D Scanning Equipment Data and Projects by Region

## Z+F Laser Control: Interface Basics

[INTERFACE BASICS](#)

[VIEWING A SCAN IN 3D](#)

[OPTIONS FOR 3D VIEW](#)

[CONTINUE TO...](#)

### Z+F Laser Control Interface Basics

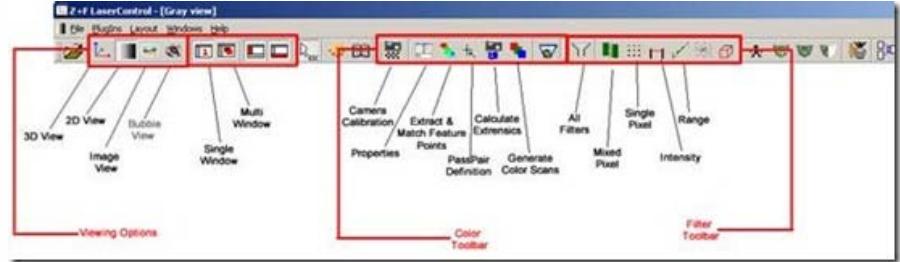


Figure 1: Laser Control Toolbars

1. To view a scan in 3D, RC in the 2D View and select Points to 3D (this gives you the most options), you can also select Full Scan to 3D (automatically subsamples) or Selection to 3D (automatically subsamples). In the Points to 3D options the Subsample factor is the key element to adjust. The default subsample is 0 which is automatic. If you want to see all of the data, set it to 1 (1/1) if you want it subsampled, set it to 4 (1 point is displayed for every 4) or 8 (1 for every 8). You can also filter by intensity and range and also do basic Mixed Pixel filters here. Remember this only filters what you SEE in the 3D Window and doesn't actually filter the data at all.



Figure 2: Points to 3D options

2. Look at the image for other options in the 3D View. Note: The 3D View is cumulative – data is added each time it is exported from a 2D view. To clear it, RC in the 3D window and choose Clear View.

In the Points to 3D options the Subsample factor is the key element to adjust. The default subsample is 0 which is automatic. If you want to see all of the data, set it to 1 (1/1) if you want it subsampled, set it to 4 (1 point is displayed for every 4) or 8 (1 for every 8). You can also filter by intensity and range and also do basic Mixed Pixel filters here. Remember this only filters what you SEE in the 3D Window and doesn't actually filter the data at all.

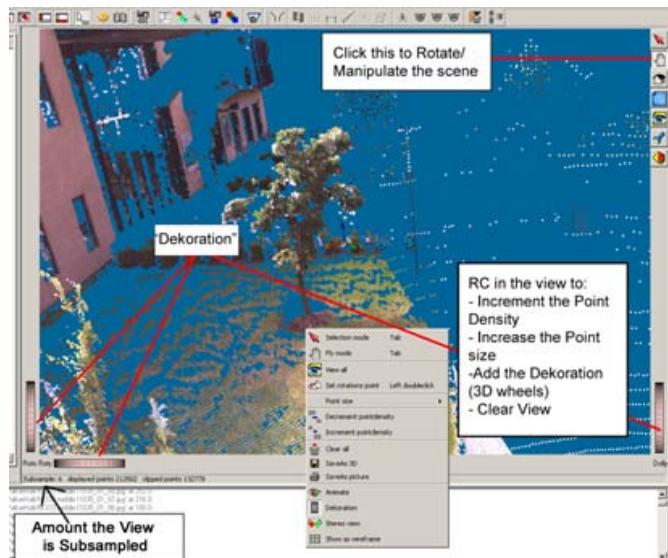


Figure 3: Points to 3D Options

Continue to [Z+F Laser Control: Color Mapping](#)

Please cite this document as: Winters, Snow. 2012. Z+F Laser Control: Interface Basics.CAST Technical Publications Series. Number 7410. <http://gmv.cast.uark.edu/scanning/zf-laser-control-interface-3/>. [Date accessed: 27 April 2013]. [Last Updated: 9 May 2012]. *Disclaimer: All logos and trademarks remain the property of their respective owners.*

## Login

[Log In](#)

© 2013 - Geospatial Modeling & Visualization