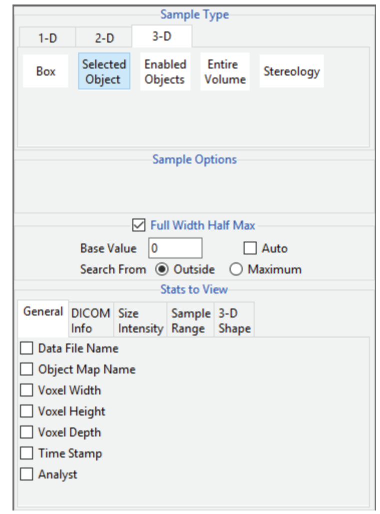
Selected Object



The selected object option allows users to sample an object within the 3D volume. An object map must be loaded for this sampling option to be available. The following sampling options are available:

Stats to View: The stats to view area allows users to enable and disable measurements and information reported to the stats log.

- **General:** Allows users to report general image data parameters in the stats log file (see General under Sample Point(s) > Stats to View.)
- **DICOM Info:** Allows users to report DICOM tag information (see DICOM Info under Sample Point(s) > Stats to View.)
- **Size Intensity:** Reports an array of size intensity information and measurements (see Size Intensity description for Sample 2-D Rectangle.)
- **Sample Range:** Samples voxels within a defined region based on a min/max intensity range (see Sample 2-D Rectangle > Sample Range.)
- **3-D Shape:** Allow users to sample different 3-D shape-based measurement, see the 3-D Shape description under 3-D > Box for details on each of the 3-D shape measurements available.

Making Measurements using Selected Object

Download the MRI_3D_Head.avw data set from analyzedirect.com/data to follow along.

- Open Input/Output and load MRI_3D_Head.avw into Analyze. Select MRI_3D_Head and open Measure.
- Select File > Load Object Map and load the MRI_3D_Head.obj.
- Select the 3D Sample Type [1] and choose Selected Object [2].
- In the Stats to View area check the required measurements [3] to be sampled.
- Check Auto Log Stats [4].
- Click on the brain object in any of the three orthogonal slices [5].
- Selected measurements will be reported for the region in the stats log [6]. Right click to save the log to disk as a .csv file.

Making Measurements using Selected Object (continued)

Generating Histograms with Selected Object

- Check the Histogram checkbox [7].
- To generate the histogram statistics (intensity and count information) [8] click on the brain [9].
- The histogram for the sampled objects will be displayed below the display area [10] in a new Histogram tab [11] in front of the other statistics tabs.
- Note that objects with the view disabled can accidently be selected and sampled when using the Selected Object tool. Be aware when selecting an object to sample.
- The histogram information can be saved as a .CSV file by right-clicking and selecting Save Log.