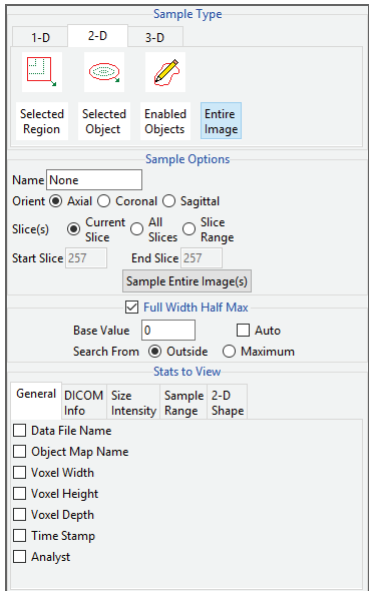
Entire Image



The Entire Image option allows users to sample measurements for the entire slice for the current slice, all slices, or a range of slices.

Sample Options: Provides users the following sampling controls:

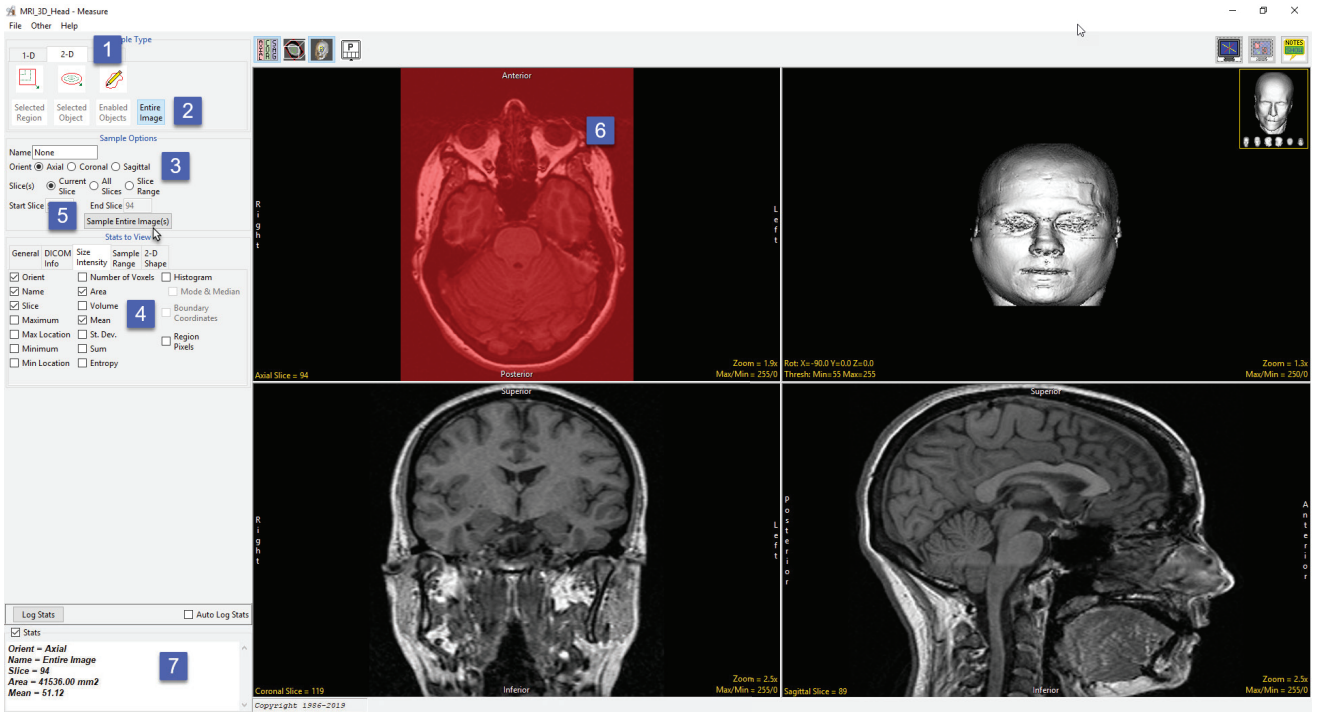
- **Orient:** Select the orientation to sample enabled objects in.
  - **Axial:** Sets the sampling orientation to axial.
  - **Coronal:** Sets the sampling orientation to coronal.
  - **Sagittal:** Sets the sampling orientation to sagittal.
- **Slices:** Allows users to specify the slices sampled.
  - **Current Slice:** Samples the current displayed slice for the selected orientation.
  - **All Slices:** Samples all slices in the selected orientation.
  - **Slice Range:** Samples the range of samples specified using the start and end slice fields for the selected orientation.
  - ***Start Slice:*** Allows users to set the starting slice for sampling. Slices before the start slice will not be sampled.
  - ***End Slice:*** Allows users to set the ending slice for sampling. Slices after the end slice will not be sampled.
- **Sample Entire Image:** Initiates the sampling process.

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.)
- **2-D Shape:** Reports 2-D shape measurements for the defined region (see Sample 2-D Rectangle > 2-D Shape.)

Sampling the Entire Image

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 the 2D Sample Type [1] and choose Entire Image [2].

Sampling the Entire Current Slice

To sample the entire current slice, do the following:

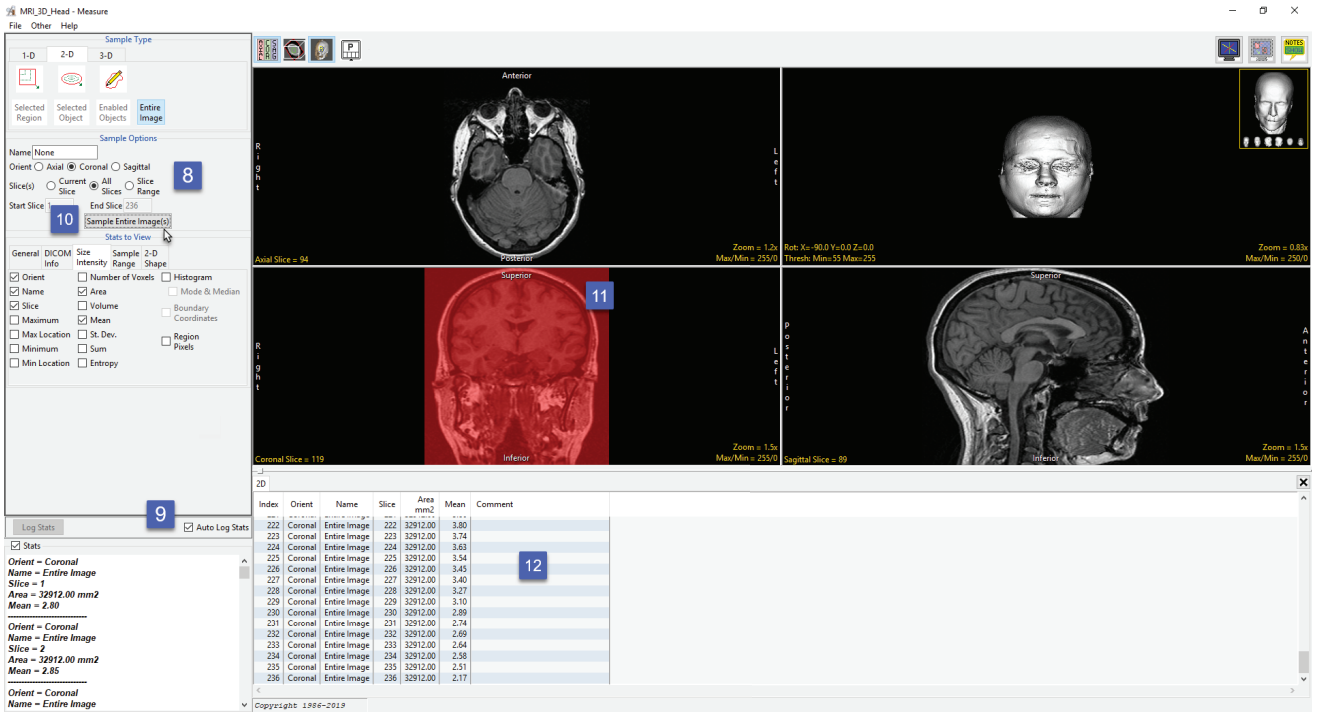
- Leave Orient set to Axial and Slice(s) set to Current Slice [3]. This will sample the current axial slice when Sample Entire Image(s) is selected.
- In the Stats to View area check all the measurements [4] you would like returned.
- Click the Sample Entire Image(s) button [5].
- The current axial image will be sampled [6].
- The selected measurements will be returned to the stats review area [7].

Sampling the Entire Image (continued)

Sampling the Entire Slice for All Slices

To sample the entire slice for all slices in the selected orientation, do the following:

- Set Orient to Coronal and then set Slice(s) to All Slices [8].
- Check the Auto Log Stats check box [9].
- Click the Sample Entire Image(s) button [10].
- All slices in the current orientation will be sampled [11].
- Measurements for each slice will be returned to the stats log [12].



Sampling the Entire Image (continued)

Sampling the Entire Slice for a Range of Slices

To sample the entire slice for a range of slices in the selected orientation, do the following:

- Dismiss the previous stats log by clicking the x in the upper right-hand corner of the stats log.
- Next, set Orient to Sagittal and then set Slice(s) to Slice Range [13].
- Set the Start Slice to 50 and the End Slice to 150 [14]. These settings will allow you to sample a range of slices, slice 50 to 150, in the sagittal orientation.
- Click the Sample Entire Image(s) button [15].
- Only slices in the current range for the selected orientation will be sampled [16].
- Measurements will be returned to the stats log [17].