


## Scanning With ScanStudio

## STEP1

Start program with this icon on Desktop 

Enter the Scan Panel by clicking the Scan button



Customize your scan name in the yellow toolbar



There are 3 main types of scans:



Single:

-Single scan of the object from one angle. Quickest scan.

Bracket:

- Select "bracket" scan in the scan panel to scan three consecutive angles.- The number of divisions will control the degree of rotation between scans- The three scans will be grouped as a family. More on Scans and Families

360:

- Select the "360" scan option in the scan panel to scan the object from every angle.- The number of divisions will control the degree of rotation between scans and the total number of scans:



(360 / divisions= degree of rotation)

- The individual scans will be grouped as a family.

**Precision:**

Choose MACRO or WIDE distance based on object size and desired resolution



Macro = 0.005" accuracy, 3x5" field of view

**Place object 6.5 inches from the front of the scanner**

Wide = 0.015" accuracy, 10x13" field of view

**Place object 17 inches from the front of the scanner**

**Speed:**

Choose Standard, Quick or Fine scan speed based on desired scan time and quality

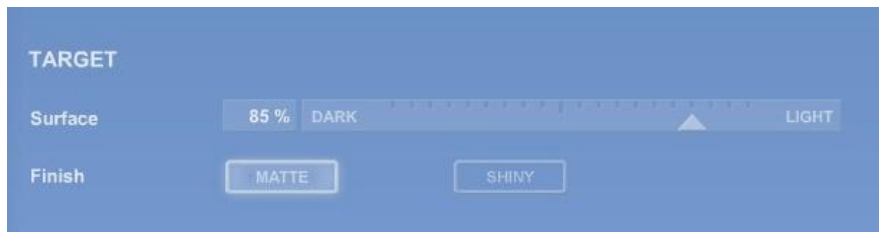


**Approximate Scan Times for a Single Scan**

Fine Speed for the greatest resolution.

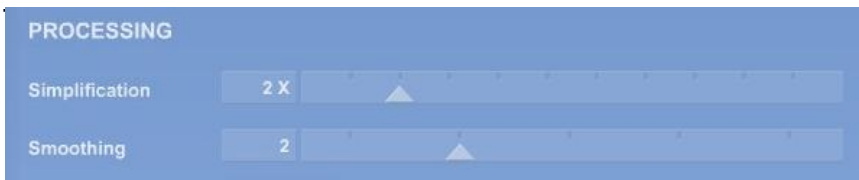
Choose Quick Speed to capture data the quickest with lowest resolution.

The Target Characteristics can be adjusted to reflect the characteristics of the object and improve output.



**Surface:** Adjust the surface slider to reflect the color of the object. For completely white objects use 90-95%.

**Finish:** Choose Matte or Shiny depending upon the texture of your object.



### **Simplification:**

1x = raw data

2x = 1/4 of the data

3x = 1/9 of the data

### **Smoothing:**

0 = roughest

5 = smoothest

Adjusting the smoothing will adjust the output texture of the scan. This can help reduce texture due to noise.

Secure the object for scanning using the PartGripper if necessary

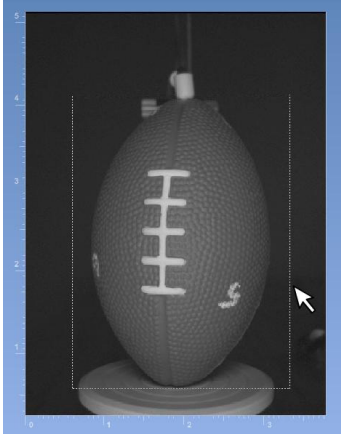


Orient object in viewfinder using Rotate buttons



\*Note: The AutoPositioner should only be rotated using the Rotate Arrows and should not be done manually.

To select only a portion of your object drag the cursor around the object to select a smaller scan area.

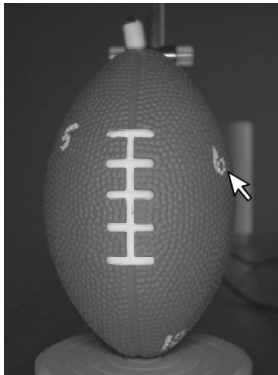


Click the Start button to run the scan



Tip:

It may be helpful prior to scanning to make alignment marks using the alignment pen. These marks will make it easier to align scans and identify locations on the object.



Plugin for Rhino can be found here:

<http://en.wiki.mcneel.com/default.aspx/McNeel/NextEngine.html>