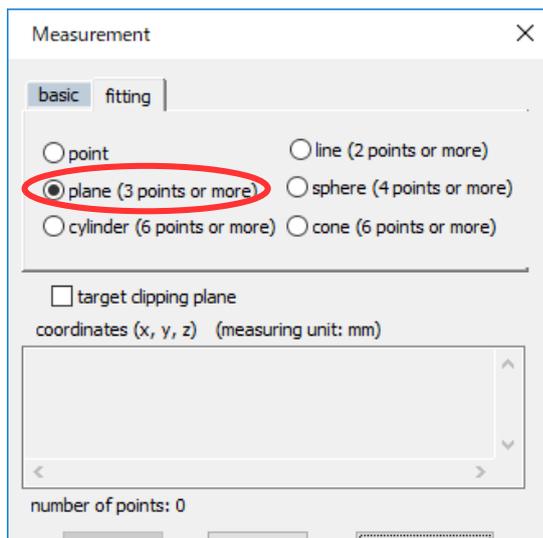
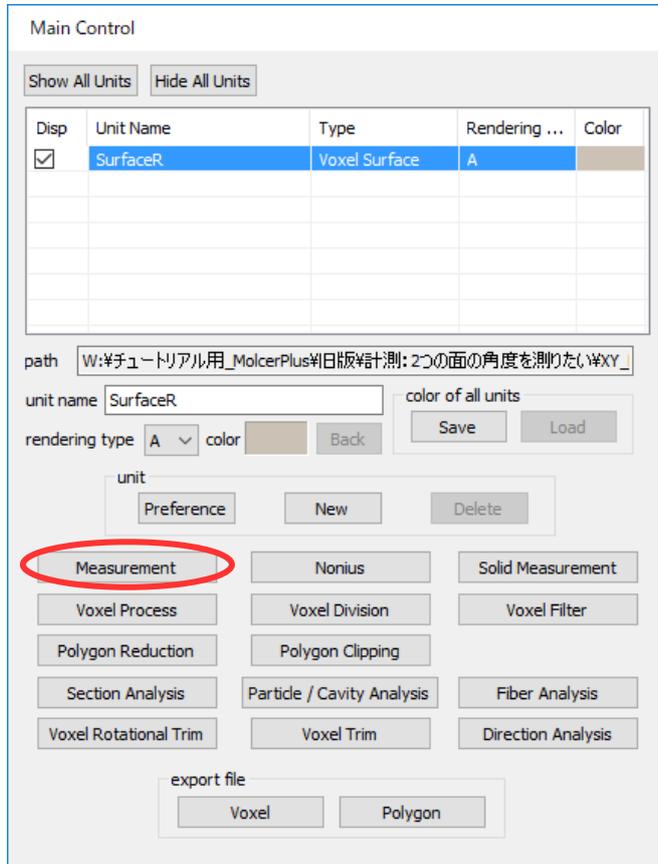


Measurement: angle between two planes

For v1.36

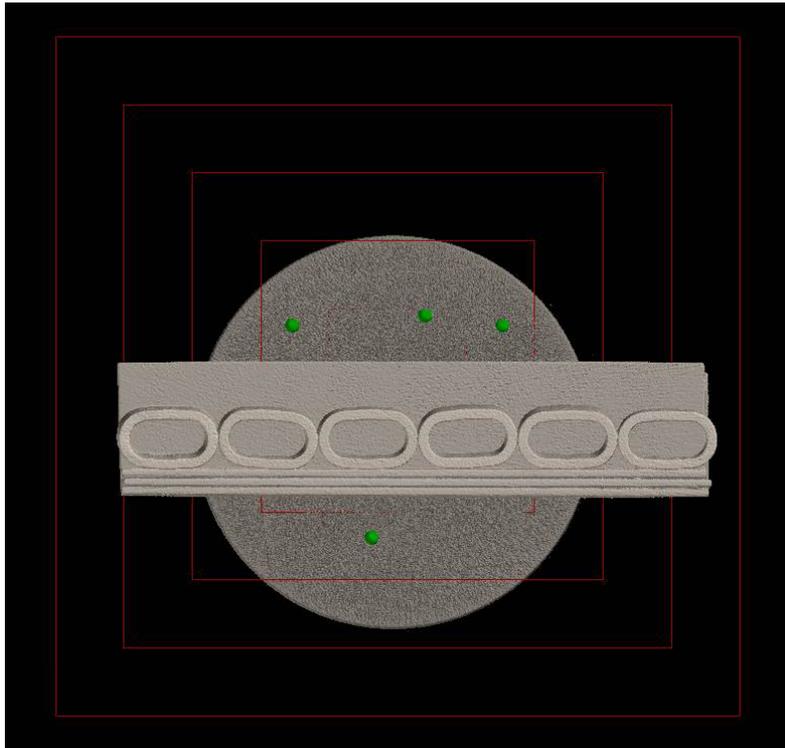
Set two arbitrary planes on object and measure angle between them.

Change to "Surface Rendering" and open "Measurement" dialog from "Main Control".



Show "fitting" tab and select "plane (3 points or more)".

Click on the target face over three times (green points) to define plane (red squares) and press "Set".



Measurement ×

basic fitting

point line (2 points or more)

plane (3 points or more) sphere (4 points or more)

cylinder (6 points or more) cone (6 points or more)

target clipping plane

coordinates (x, y, z) (measuring unit: mm)

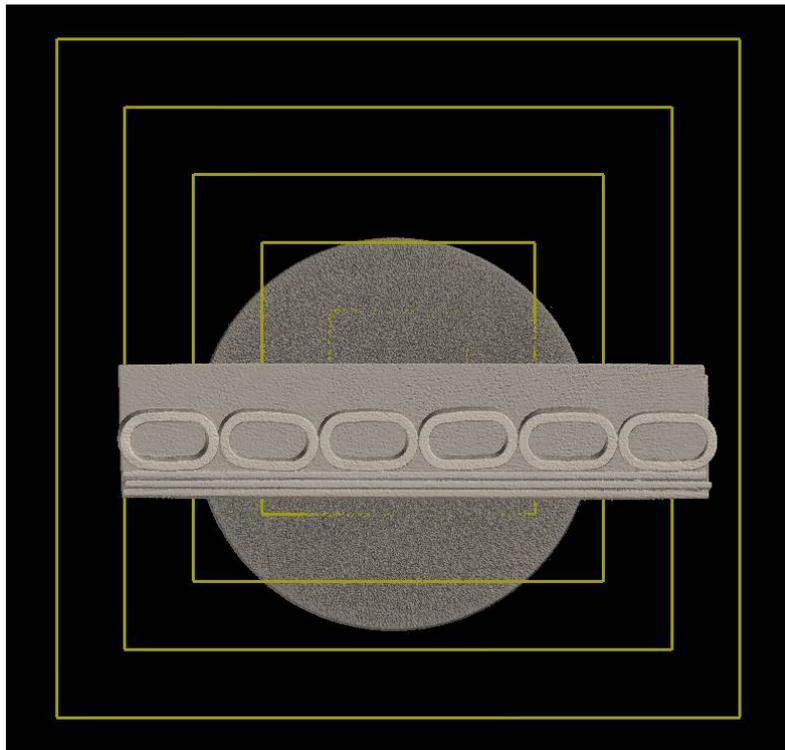
-3.58591	7.64462	-27.4685
5.34283	2.33399	-27.4682
-3.54815	-3.0382	-27.4683
3.30782	-9.02393	-27.4391

number of points: 4

result (measuring unit: mm)

mass of Points = 0.379148, -0.520883, -27.461
normal vector = -0.000562239, 0.00150274, 0.999999
standard deviation = 0.00735098

Defined plane is drawn by yellow wireframe and "plane1" is added to list.



Measurement ×

basic fitting

point line (2 points or more)

plane (3 points or more) sphere (4 points or more)

cylinder (6 points or more) cone (6 points or more)

target clipping plane

coordinates (x, y, z) (measuring unit: mm)

number of points: 0

Set Clear All Clear Last Point

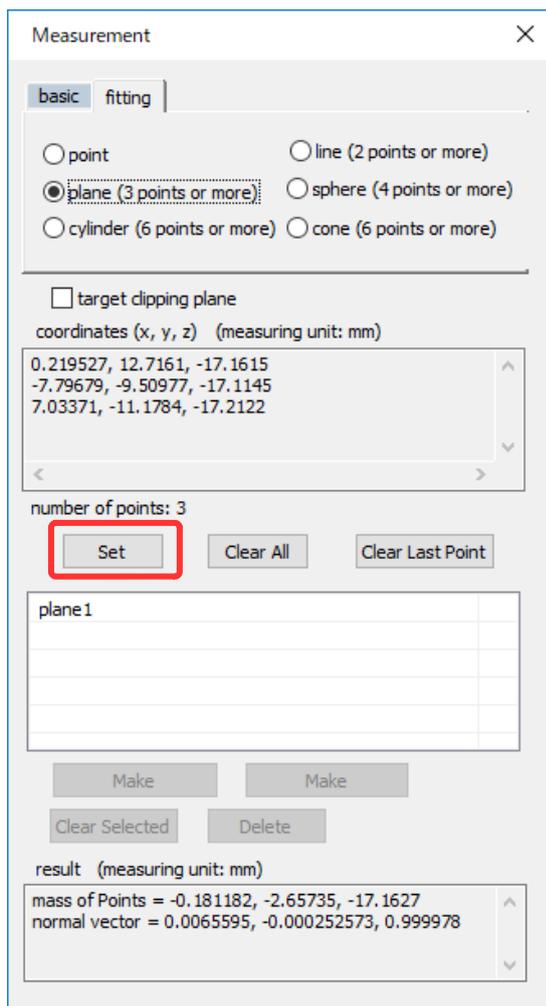
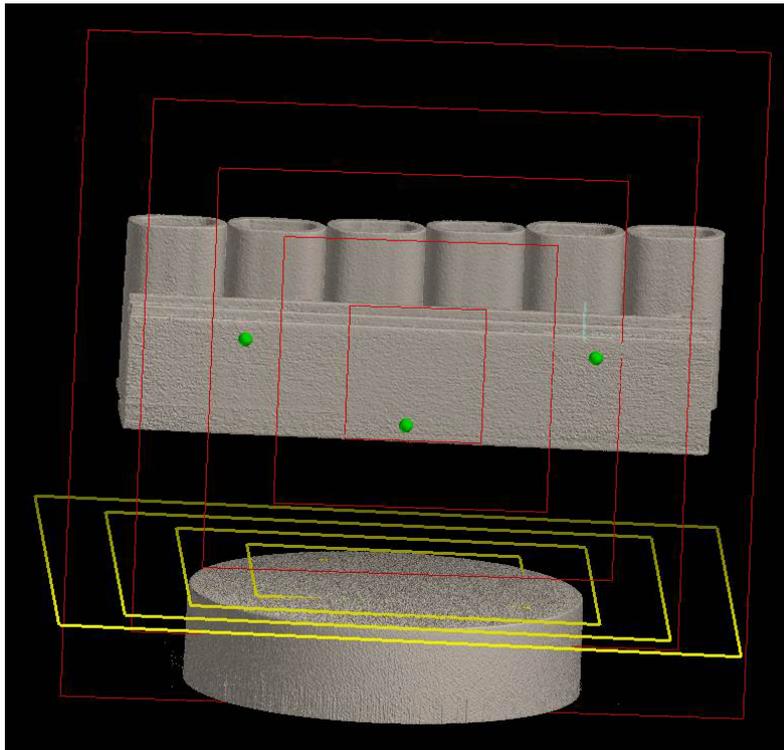
plane 1		

Make Make

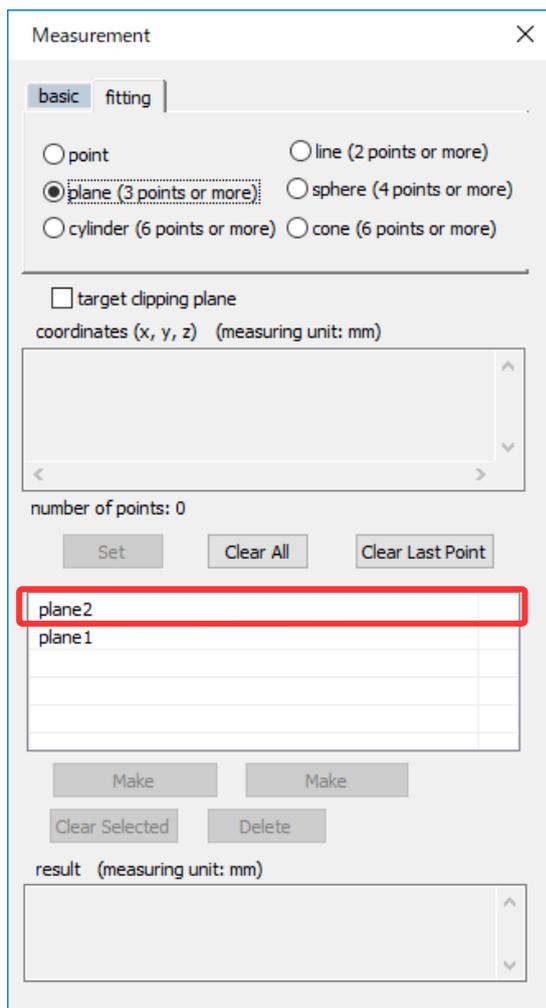
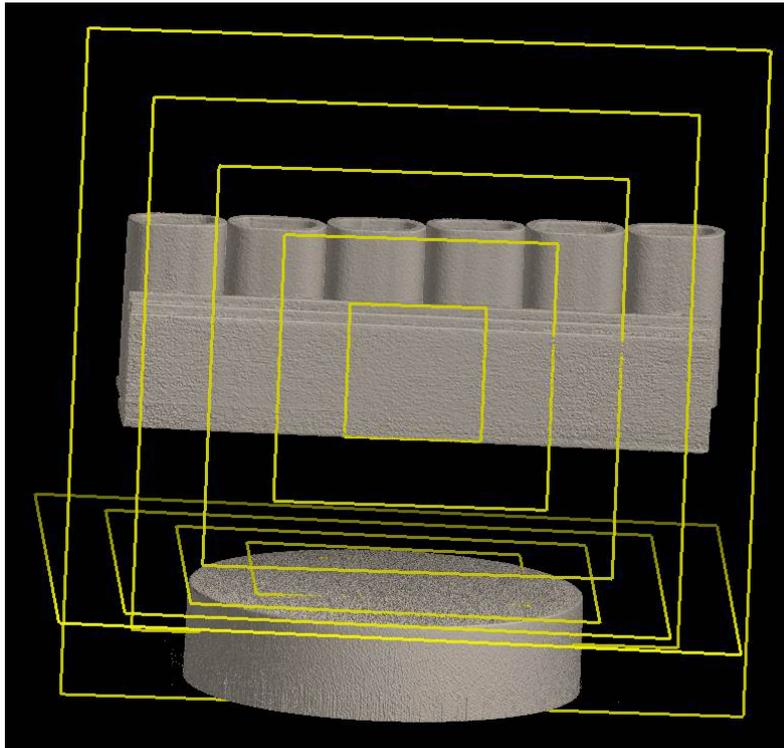
Clear Selected Delete

result (measuring unit: mm)

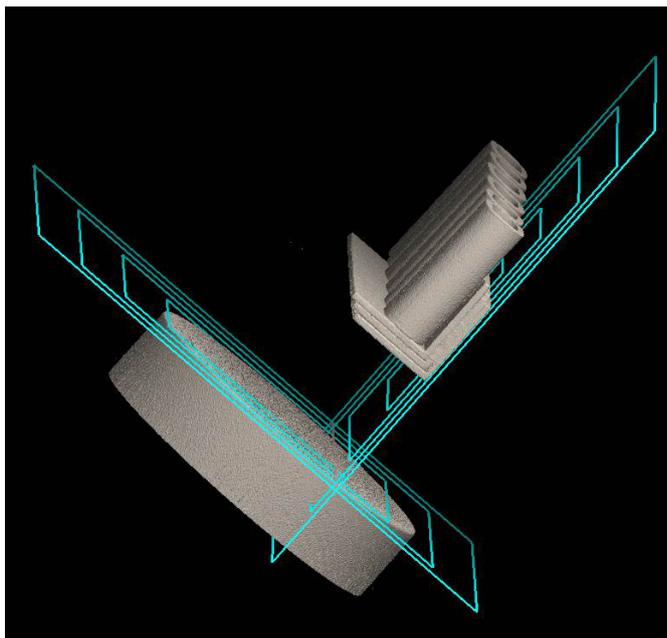
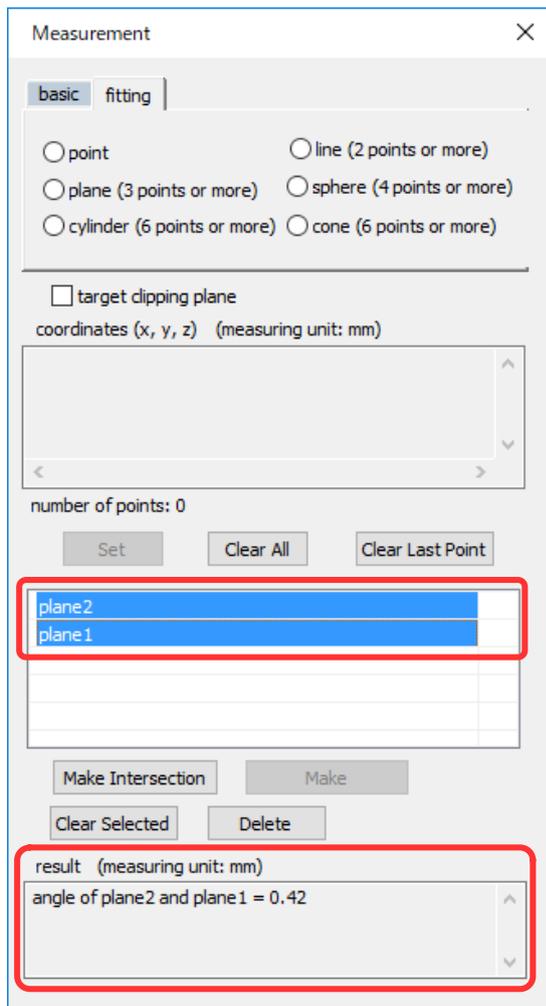
Click on another face over three times (green points) to define another plane (red wire frame) and press "Set".



Defined plane is drawn by yellow wireframe and "plane2" is added to the list.



Select "plane1" and "plane2" by Ctrl + click and "angle between plane2 and plane1" is shown in "result" area. Selected planes are drawn by cyan wireframe and intersection of "plane1" and "plane2" is drawn red.



Enlarged view around intersection

