Frequently Asked Questions
Topic: PICZA PIX-3

ST52200

1. What software is the included with the PICZA and MODELA?

A. The PICZA 3D Digitizer is bundled with Dr. PICZA software.
B. It also includes the MODELA Player software, which allows you to import files to other Roland engraving and CNC milling machines.
C. The MODELA is bundled with MODELA Player software which designs a generic 3D shape, adds 3D text in it and sends it to the MODELA for production.

2. What type of formats will the PICZA scan and save files to export?

A. .dxf
B. .wrl (vrml 2.0 format)
C. .stl

3. What is the scanable area for the PICZA?

PICZA - 4" x 6" x 1.5"

4. What are the interface requirements to connect these machines to my Windows® Operating System?

PICZA plugs into the serial port.

5. Can I scan a photograph or a drawing?

No. The PICZA is a physical 3D scanner that reads the contours of any object.

6. Can I import a file into the PICZA software application, Dr. PICZA?

No. Dr. PICZA only saves or exports file data. It will export in the following formats: DXF, STL, 3DMF, VRML, BMP and Grayscale (bmp).

7. Can I scan an object that has undercuts?

No. However, the object can be positioned to scan a right and left half and then saved as two different files. If the object is uniformly symmetrical, time can be saved by scanning one half and having Dr. PICZA duplicate a mirrored image for the other half.

8. Is there a larger model of the PICZA available?

Yes, PIX-30 has a scanning area of 12" x 8" x 2.375".

9. Does the file save as a solid image?

No, the files are a polygonal point-cloud of information viewed as a wire-frame model that can be saved as a common 3D DXF format as well as other 3D formats.

10. How long does it take to scan an object?

It depends on the desired resolution set for scanning. The X and Y pitch can be set independently of one another anywhere between .2" and .002". For example, a 1" x 1" x 1" cube scan area set at .008" X and .008 Y will take approximately 3 hours of unattended scan time.

11. How detailed can the scanner get?

The highest resolution possible is .002" which can capture detailed Information from a coin.

12. What does the PICZA use to scan an object?

The PICZA uses a Roland Active Piezo Sensor (RAPS) that has a touch-probe (similar to a sewing needle in shape) attached to it that is sensitive enough to scan a model made from clay without damaging the clay model.

13. What is the diameter of the touch-probe?

The tip of the touch-probe is 0.0105".