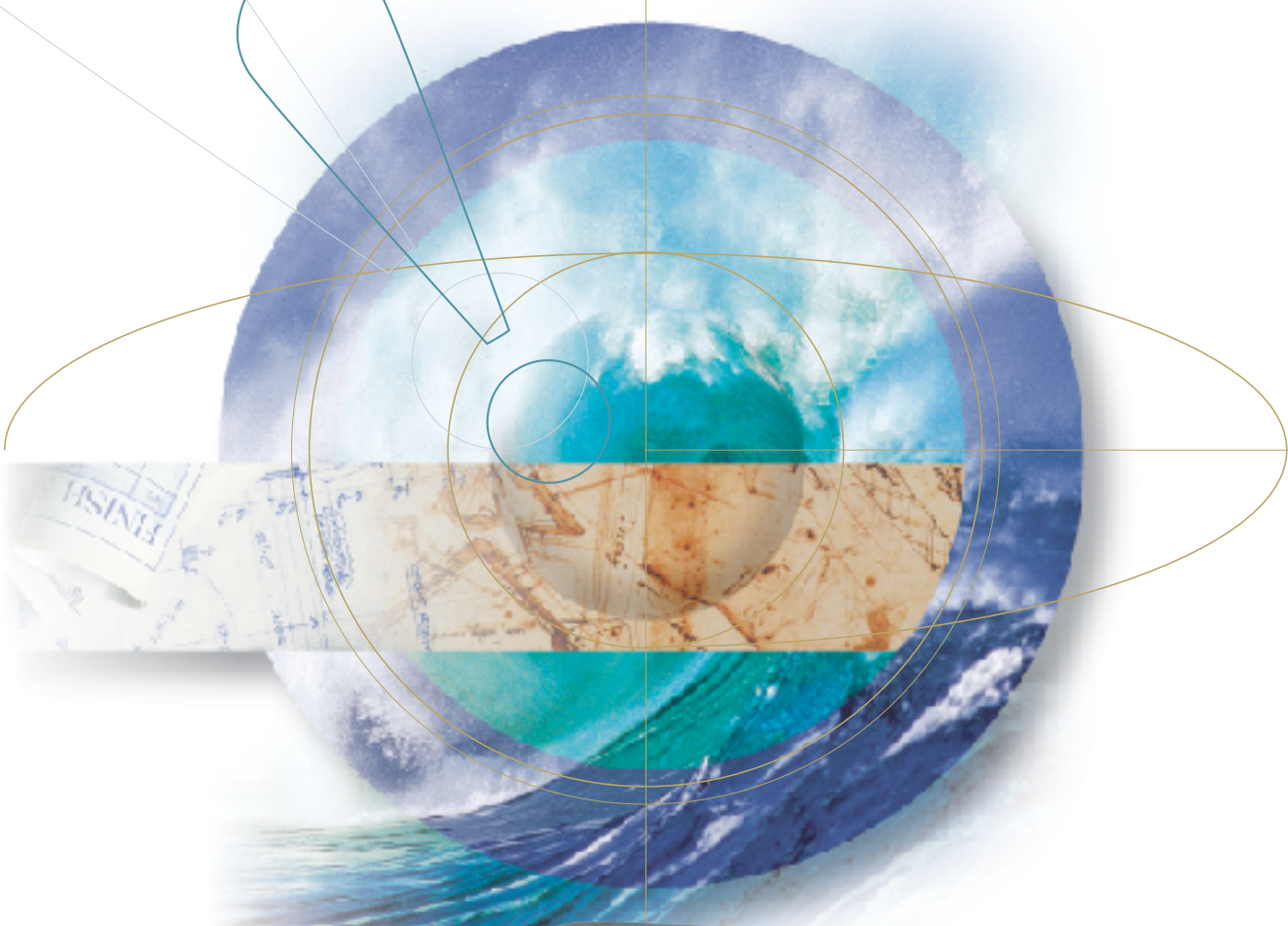


 Roland

3 D S C A N N E R

PIX-30 • PIX-4

PICZA
model:



More choices in desktop 3D scanners

Roland's PIX-30 and PIX-4 produce professional 3D scanning results at a very affordable price.



3D SCANNER

PIX-30·PIX-4

PICZA
model:

Expanding the world of 3D

The 3D scanner has become an indispensable tool in the 3D industry, on the front line of innovations in computer animation and product development. Roland was first to introduce this high-tech tool with the PICZA. New and upgraded PICZAs are available offering even more 3D design options. PIX-30 and PIX-4 significantly expand the scanning capabilities of PICZA. The Roland Active Piezo Sensor (R.A.P.S.) probe enables extremely high precision scanning with a minimum scan pitch of 50 microns. You can scan all manner of objects and turn them into 3D data files. This data can be used for a wide range of applications, including design or 3D prototyping, computer graphics, or as visual data for CAD/CAM design, product development and educational applications. Now, 3D scanning expands the world of your imagination.



POINT-1

Powerful scanning ability

Scans a wide assortment of objects

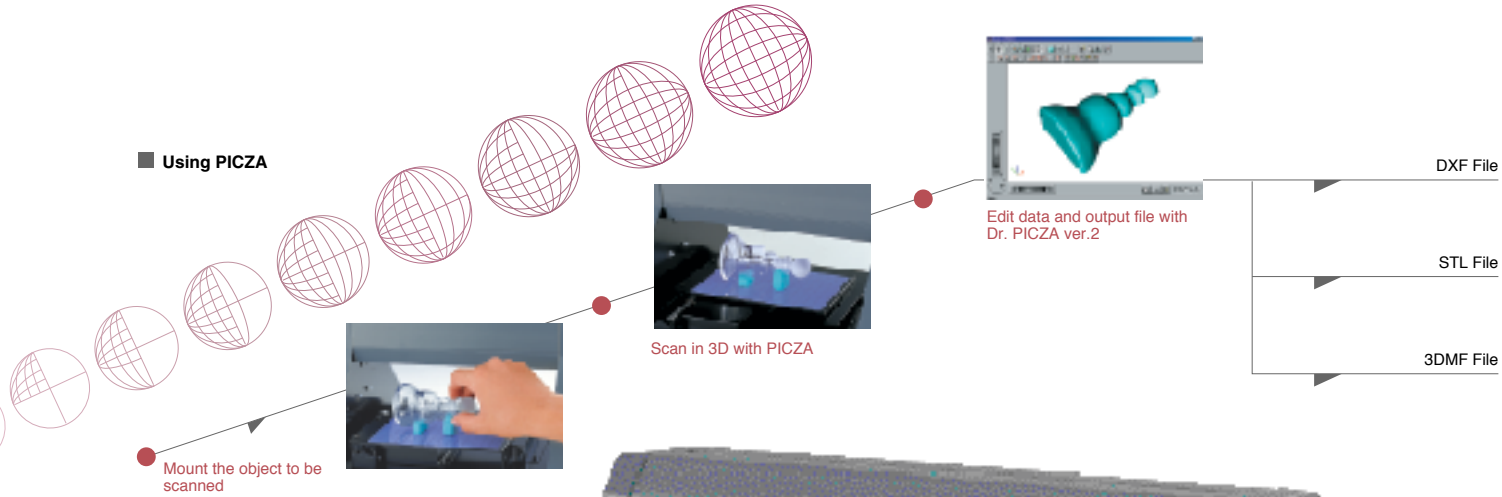
The PIX-30 can scan objects as large as 12.002" (width, X axis) x 8.001" (depth, Y axis) x 2.382" (height, Z axis). The PIX-4 scans sizes up to 6.001" (width, X axis) x 4.001" (depth, Y axis) x 2.382" (height, Z axis). For additional height, an object that sizes up to 5.119" (PIX-30) or 2.756" (PIX-4) can be set and the top 2.382" part of the object can be scanned. PICZA's high performance enables a scanning pitch of 0.025 mm (Z axis) and 0.05 mm to 5 mm (X axis and Y axis). Due to precision Piezo technology, PICZA scans a wide range of objects including soft objects like clay and fruit, etc., that conventional contact scanners find very difficult to scan. PICZA can even scan glass, impossible using optical scanners because the light beams pass through the glass.



More choices in desktop 3D scanners

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Using PICZA



3D Scanner
PICZA model:PIX-4

3D Scanner
PICZA model:PIX-30

POINT-2

Big Performance - Desktop Size

Dr. PICZA Ver.2

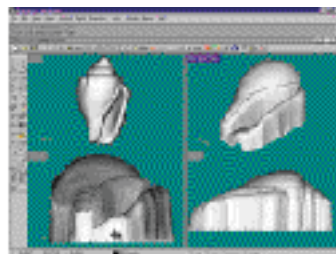
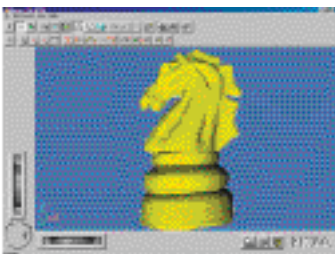
PICZA takes up very little room on your desktop. The PIX-4 is only 12.324" (width) x 11.970" (depth) x 10.868" (height) and can be used anywhere. It comes with its own comprehensive dedicated scanning software, Dr. PICZA Ver.2. Packed with easy-to-use functions, it can reduce data volume by reducing the resolution of all or part of the captured data, or it can re-scan part of the object at a finer scanning pitch and combine it with the original data. Most operations can be done using your computer mouse. The basic settings for scanning are as simple as setting the scanning pitches of the X and Y axes and the scanning range.

POINT-3

Working with 3D and computer graphics programs

Compatible with a variety of output formats

PICZA supports an array of data output formats including DXF (CAD data), STL and 3DMF (3D format standard). It can also be used easily with your own programs, since it can output to an ASCII file as dot data (X, Y, Z coordinate text data). It can also be used in combination with all Roland milling and modeling machines to output prototypes. Given its compatibility with all kinds of output formats, PICZA applications are virtually limitless. The result is an automated environment where you can turn imagination into reality.



SPECIFICATIONS

■ PIX-30 / PIX-4

	PIX-30	PIX-4
Max. scanning area	12.002"(X) x 8.001"(Y) x 2.382"(Z) (304.8 mm [X] x 203.2 mm [Y] x 60.5 mm [Z])	6.001"(X) x 4.001"(Y) x 2.382"(Z) (□152.4 mm [X] x 101.6 mm [Y] x 60.5 mm [Z])
Max. table load weight	11lb. (5 kg)	1.1lb. (500g)
Sensor	Roland Active Piezo Sensor (R.A.P.S.)	
Scanning method	Contacting, mesh-point height-sensing	
Scanning pitch (Dr. PICZA)	X/Y-axis direction .002 to .197" (0.05 to 5.00 mm) settable in steps of .002" (0.05 mm) Z-axis direction .001" (0.025 mm)	
Scanning speed	XY-axis -1.181"/sec (30 mm/sec.) Z-axis - .354"/sec (9 mm/sec.)	
Exportable file formats	DXF, VRML, STL, 3DMF, BMP, Grayscale, Point Group	
Interface	Serial (RS-232C)	
Power consumption	Exclusive AC adapter (DC + 12V 1.5A)	
Acoustic noise level	Standby mode : under 40 dB (A) Scanning mode : under 50 dB (A) (According to ISO 7779)	
External dimensions	18.821" (W) x 18.309" (D) x 13.427" (H) (478 mm (W) x 465 mm (D) x 341 mm (H))	12.324" (W) x 11.969"(D) x 10.868" (H) (313 mm (W) x 304 mm (D) x 276 mm (H))
Weight	24.2lb. (11 kg)	10.8lb. (4.9 kg)
Operation temperature	41 - 104 °F (5 - 40 °C)	
Operation humidity	35 - 80 % (no condensation)	
Accessories	AC adapter : 1, clay : 1, adhesive sheets : 2, spacers : 2, user's manual : 1, Dr.PICZA for Windows disks : 2	AC adapter : 1, clay : 1, user's manual : 1, Dr.PICZA for Windows disks : 2

Three-dimensional shapes may be protected under copyright. Users are responsible for observing laws and ordinances when scanning.



RDGA-PIX-30/4

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