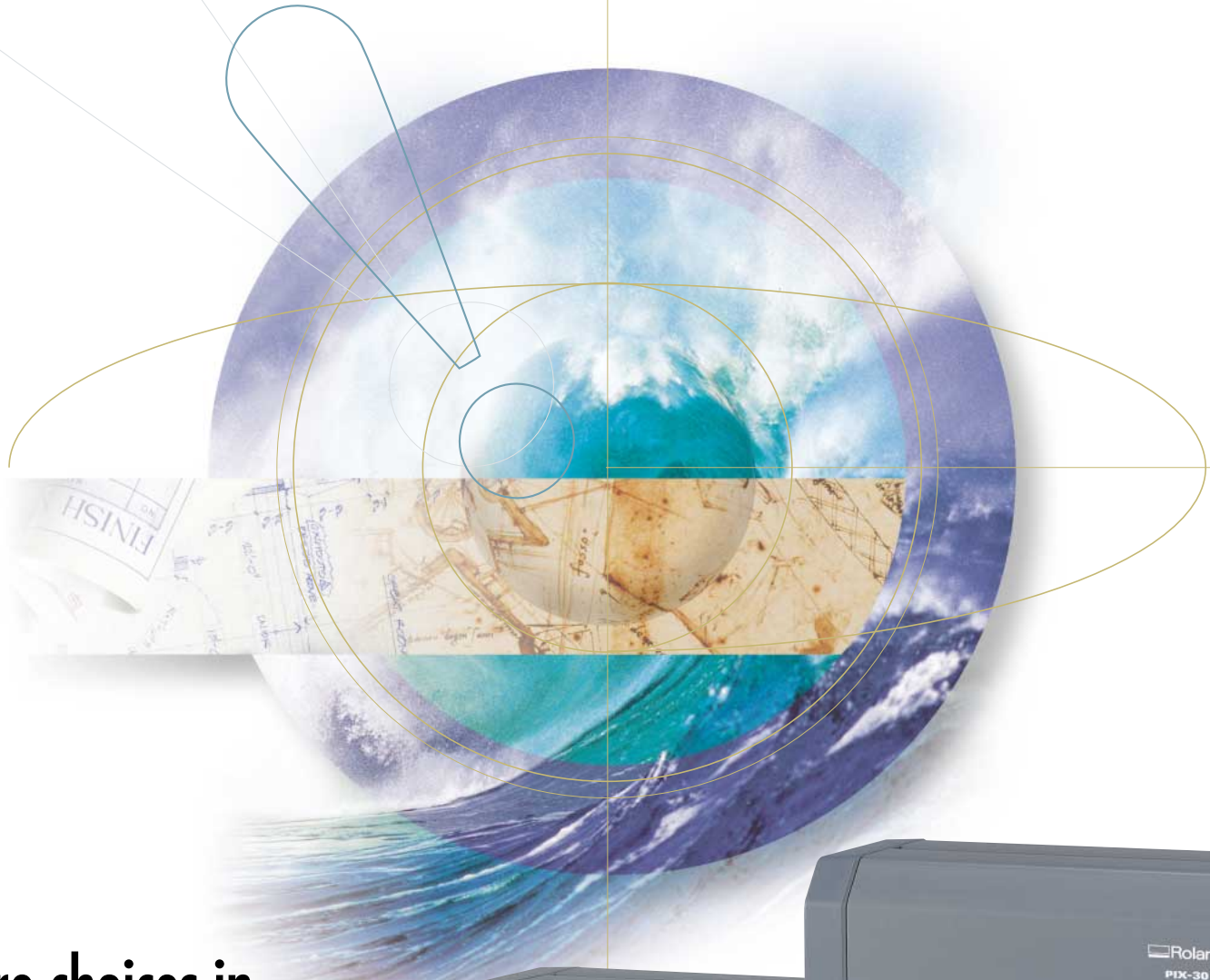
Roland

3D SCANNER

PICZA model: PIX-30•PIX-4



More choices in desktop 3D scanners

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

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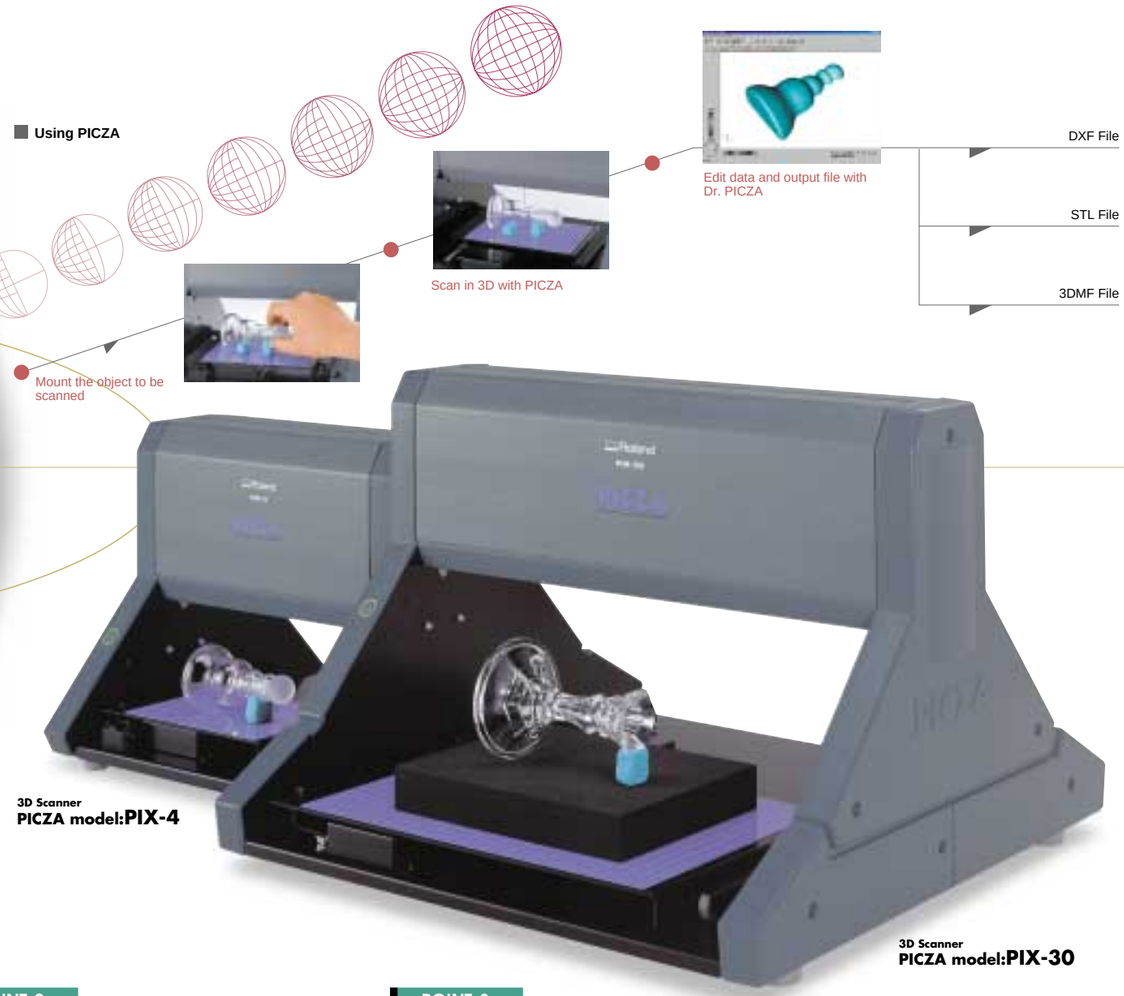


3D Scanner
PICZA model:PIX-4

3D Scanner
PICZA model:PIX-30

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, as CAD data, computer graphics or in animation form 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 304.8 mm (width, X axis) x 203.2 mm (depth, Y axis) x 60.5mm (height, Z axis). The PIX-4 scans sizes up to 152.4 mm (width, X axis) x 101.6 mm (depth, Y axis) x 60.5 mm (height, Z axis). For additional height, an object that sizes up to 130 mm (PIX-30) or 70 mm (PIX-4) can be set and the top 60.5 mm 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 are very difficult to scan. PICZA can even scan glass, impossible using optical scanners because the light beams pass through the glass.

POINT-2

Big Performance - Desktop Size

Dr. PICZA

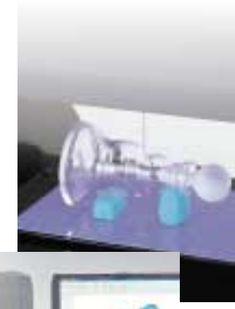
PICZA takes up very little room on your desktop. The PIX-4 is only 313 mm (width) x 304 mm (depth) x 276 mm (height) and can be used anywhere. It comes with its own comprehensive dedicated scanning software, "Dr. PICZA." Packed with easy-to-use functions, it can reduce data volume by reducing the resolution of all or part of the captured data or it can rescan 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.



3D Scanner **PICZA Model PIX-30 / PIX-4**

SPECIFICATIONS

PIX-30 / PIX-4

	PIX-30	PIX-4
Max. scanning area	304.8 mm [X] x 203.2 mm [Y] x 60.5 mm [Z] (12"(X) x 8"(Y) x 2-3/8"(Z))	152.4 mm [X] x 101.6 mm [Y] x 60.5 mm [Z] (6"(X) x 4"(Y) x 2-3/8"(Z))
Max. table load weight	5 kg (11lb.)	500g (1.1lb.)
Sensor	Roland Active Piezo Sensor (R.A.P.S.)	
Scanning method	Contacting, mesh-point height-sensing	
Scanning pitch (Dr. PICZA)	X/Y-axis direction - 0.05 to 5.00 mm (settable in steps of 0.05 mm) Z-axis direction - 0.025 mm	
Scanning speed	XY-axis - 30 mm/sec. Z-axis - 9 mm/sec.	
Exportable file formats	DXF, IGES, 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	478 mm (W) x 465 mm (D) x 341 mm (H) (18-7/8" (W) x 18-5/16" (D) x 13-7/16" (H))	313 mm (W) x 304 mm (D) x 276 mm (H) (12-3/8" (W) x 12"(D) x 10-7/8" (H))
Weight	11 kg (24.2lb.)	4.9 kg (10.8lb.)
Operation temperature	5 - 40℃(41 - 104 ℉)	
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

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

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AUTHORIZED DEALER:

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