

# LPX DS Series

## 3D LASER SCANNERS



## 3D SCANNING AT THE TOUCH OF A **BUTTON**



With the touch of a button, LPX DS Series 3D laser scanners can generate a detailed CAD model and watertight surface. Bundled

LPX EZ Studio reverse engineering

software automatically scans, fills holes, aligns, decimates and merges planes of 3D models. The LPX DS series features three models. The LPX-60 DS scans objects measuring up to 12" high by 8" in diameter and the LPX-600 DS scans objects measuring up

to 16" high by 10" in diameter. The maximum scanning resolution for both models is 0.008". The LPX-1200 DS scans objects up to 8" high by 5" in diameter and offers a maximum scanning resolution of 0.0039".



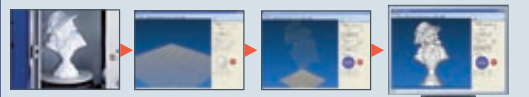
**LPX-60 DS**  
Compact and most affordable

**LPX-600 DS**  
Large, versatile scanning capacity

**LPX-1200 DS**  
High resolution detailed scanning

### Roland LPX EZ Studio™ — the one button solution

LPX Series scanners come standard with Roland's LPX EZ Studio software for precision 3D scanning at the touch of a button.



- 1** Position your object on the LPX scanner work table
- 2** Press the 'Preview' button to confirm scanning time
- 3** Press the 'Scan' button to begin scanning



Scan Dental Casts



Archive Fine Arts

Give Life to Clay Models



Use Original Work for Product Designs



Images provided by Saga Co. Ltd.

## BUNDLED SOFTWARE

Precision 3D scanning at the touch of a button with included software

One-touch automated scanning with Roland LPX EZ Studio™ software controls the entire process from the initial scan to the creation of 3D CAD/CG data.

Roland's Dr. PICZA 3™ software enables full user control of both rotary and indexed scanning features for objects with complex forms and undercuts.



Roland LPX EZ Studio



Dr. PICZA 3

## OPTIONAL SOFTWARE

Revolutionary advances in reverse engineering software will change the way you work

Pixform® Pro II software is reverse engineering software that converts scanned data into editable high quality parametric solid and surface CAD compatible models. Features user friendly interface similar to major CAD applications.



Powered by **RAPIDFORM** Technology



## SPECIFICATIONS

		LPX-60DS	LPX-600DS	LPX-1200DS
<b>Table size</b>		Diameter 8 in. (203.2 mm)		
<b>Maximum scanning area</b>	<b>Plane scanning</b>	Width 8 in. (203.2 mm), height 12 in. (304.8 mm)		
	<b>Rotary scanning</b>	Diameter 8 in. (203.2 mm), height 12 in. (304.8 mm)		
<b>Scanning pitch</b>	<b>Plane scanning</b>	Width direction 0.2 to 203.2 mm, height direction 0.2 to 304.8 mm		
	<b>Rotary scanning</b>	Circumference 0.2 to 3.6 degrees, height direction 0.2 to 304.8 mm		
<b>Repeat accuracy</b>		±0.1 mm (This figure reflects standard scanning conditions established by Roland DG.)		
<b>Maximum table load weight</b>		11 lbs. (5 kg)		
<b>Sensor</b>		Noncontact laser sensor		
<b>Operating speed</b>	<b>Table rotation speed</b>	10.06 rpm	9 rpm	9 rpm
	<b>Head rotation speed</b>	4.98 rpm	4.48 rpm	4.48 rpm
	<b>Maximum head movement speed</b>	50 mm/sec.	37 mm/sec.	7.58 mm/sec.
<b>Interface</b>		USB (compliant with Universal Serial Bus Specification Revision 1.1)		
<b>Power supply</b>	<b>Dedicated AC adapter</b>	AC 100 to 240 V ±10% 50/60 Hz 1.5 A		
	<b>Input Output</b>	DC 19 V, 2.1 A		
<b>Power consumption</b>		Approx. 20 W (including AC adapter)		
<b>Dimensions</b>		19-11/16 [W] x 15-1/16 [D] x 24-3/8 [H] in. (500 [W] x 382 [D] x 619 [H] mm)	24-13/16 [W] x 19-15/16 [D] x 29-15/16 [H] in. (630 [W] x 506 [D] x 761 [H] mm)	17-7/16 [W] x 15-9/16 [D] x 24 [H] in. (443 [W] x 396 [D] x 609 [H] mm)
<b>Weight</b>		71 lbs. (32 kg)	139 lbs. (63 kg)	78 lbs. (35 kg)
<b>Included items</b>		AC adapter, power cord, AC adapter holder, cable clamps, USB cable, CD-ROM, clay, user's manual, Roland LPX EZ Studio	AC adapter, power cord, AC adapter holder, cable clamps, USB cable, CD-ROM, clay, user's manual, Roland LPX EZ Studio	AC adapter, power cord, CD-ROM, clay, user's manual, Roland LPX EZ Studio

\* Never use a USB hub or the lile.

### Roland LPX EZ Studio and Dr. PICZA 3 Specifications and System Requirements

Specifications	
<b>Saving file format</b>	EZ Studio: STL (Stereolithography), GSF (Geometry Systems native file format), 3DM (Rhinceros file format) and PIX (Roland Picza format). Dr. PICZA 3: STL, 3D-DXF, Polyline, Point Cloud and PIX.
System Requirements	
<b>Operating system</b>	Windows Vista® (32-bit edition), Windows® XP (SP2 or later) or Windows® 2000 (SP4 or later)
<b>CPU</b>	Intel® Pentium®4 2.4 GHz or faster recommended
<b>RAM</b>	512 MB or more recommended 1 GB or more recommended for Windows Vista®
<b>Display/Graphic Card</b>	EZ Studio: 1,024 x 768 resolution and 16-bit colors (High color) or more recommended (video card compatible with OpenGL 1.4 recommended) Dr. PICZA 3: 800 x 600 resolution and 16-bit colors (High color) or more recommended (OpenGL-compatible accelerator board recommended)
<b>Free hard-disk space for installation</b>	EZ Studio: 100 MB or more Dr. PICZA 3: 20 MB or more

### System Requirements for Optionally Available Software Pixform® Proll

<b>Operating system</b>	Windows Vista® Ultimate/Business/Home Premium/Home Basic (Service Pack 1, 32-bit or 64-bit edition), or Windows® XP Professional (Service Pack 2 or x64 Edition)/Home Edition (Service Pack 2)
<b>CPU</b>	Intel® : 3.0 GHz dual-core or above recommended, AMD: Athlon™ 64 dual-core or above recommended
<b>RAM</b>	2 GB recommended
<b>Display</b>	1,280 x 1,024 resolution recommended, 32-bit true color required
<b>Graphic card*</b>	OpenGL 2.0, NVIDIA GeForce 6600 or above, or ATI Radeon X1650 or above recommended
<b>Free hard-disk space for installation</b>	10 GB or more recommended

\*For more information about certified graphic cards, please refer to the LPX-DS specifications listed on the Roland DG web site, [www.rolanddg.com](http://www.rolanddg.com).



Imagine. **Roland**®