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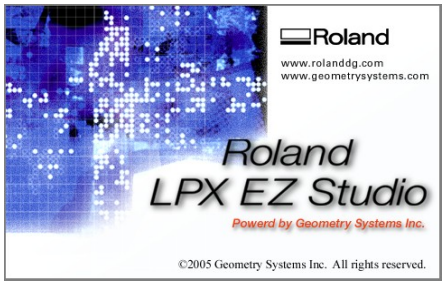
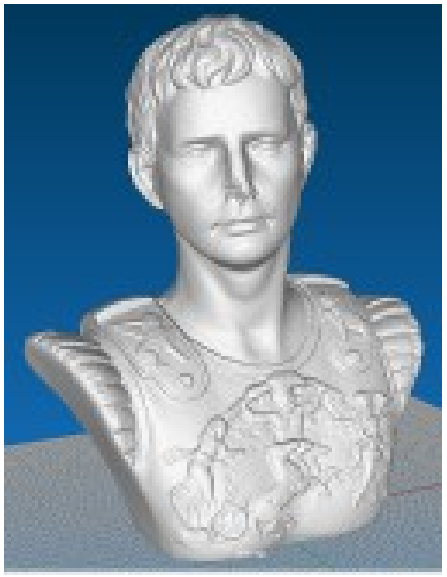
Roland LPX-1200 Laser Scanner





Contents

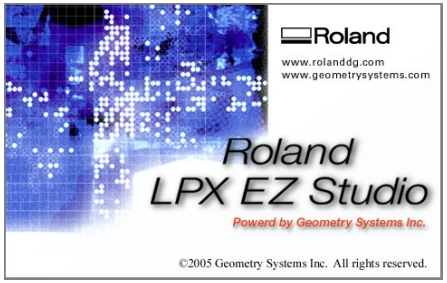
- 3D Scanning Technology
- 3D Scanning Process
- Hardware Features
- Software Features
- Scan Examples
- Conclusion

Scanning Process

Hardware

Object is positioned and scanned

Software



Point cloud data is automatically cleaned and converted to polygon data

Polygon Data

Polygonal data is ready for downstream applications

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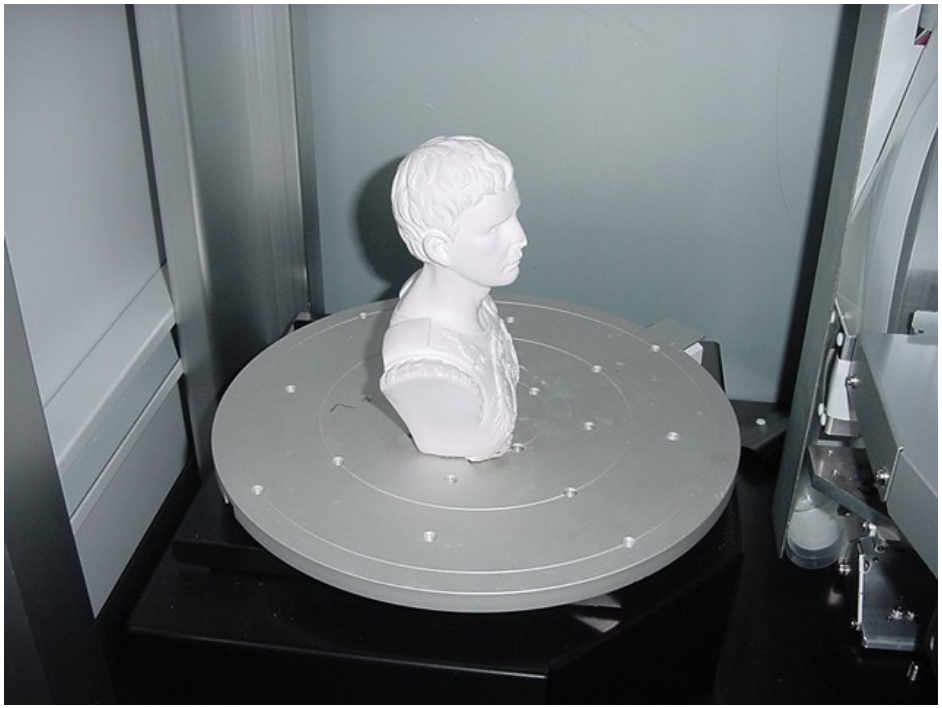
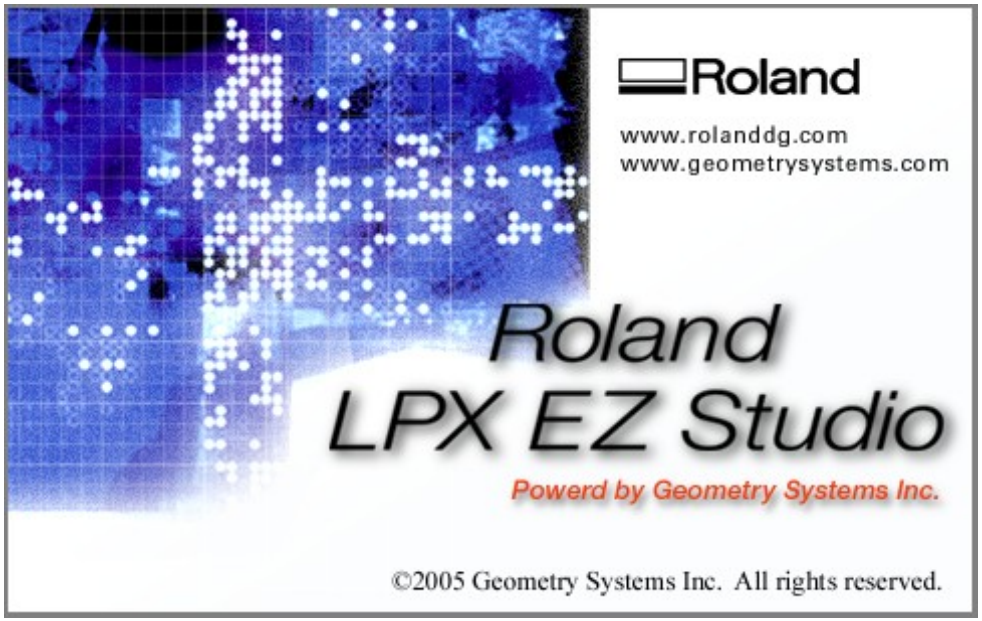
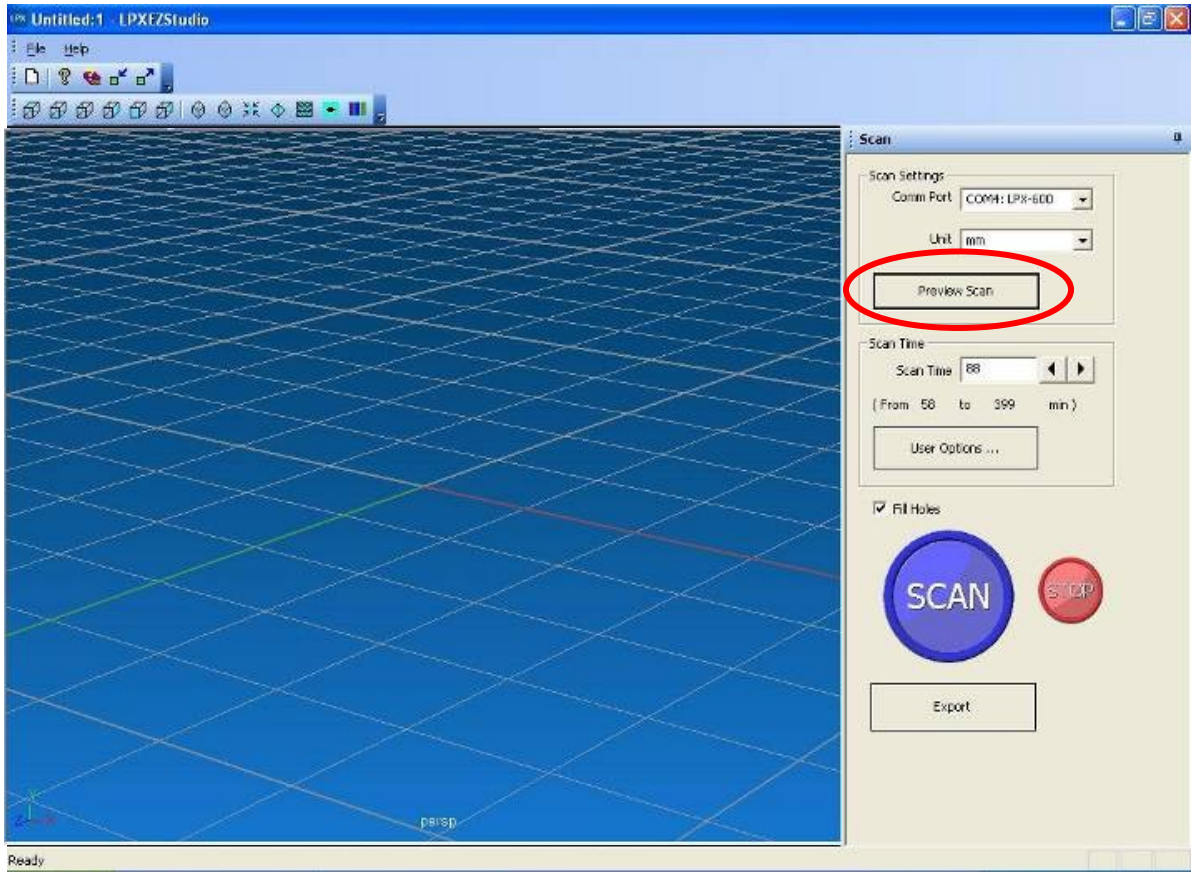
Position Object in Scanner



Launch Software



Preview Scan



Click "Preview Scan" button.

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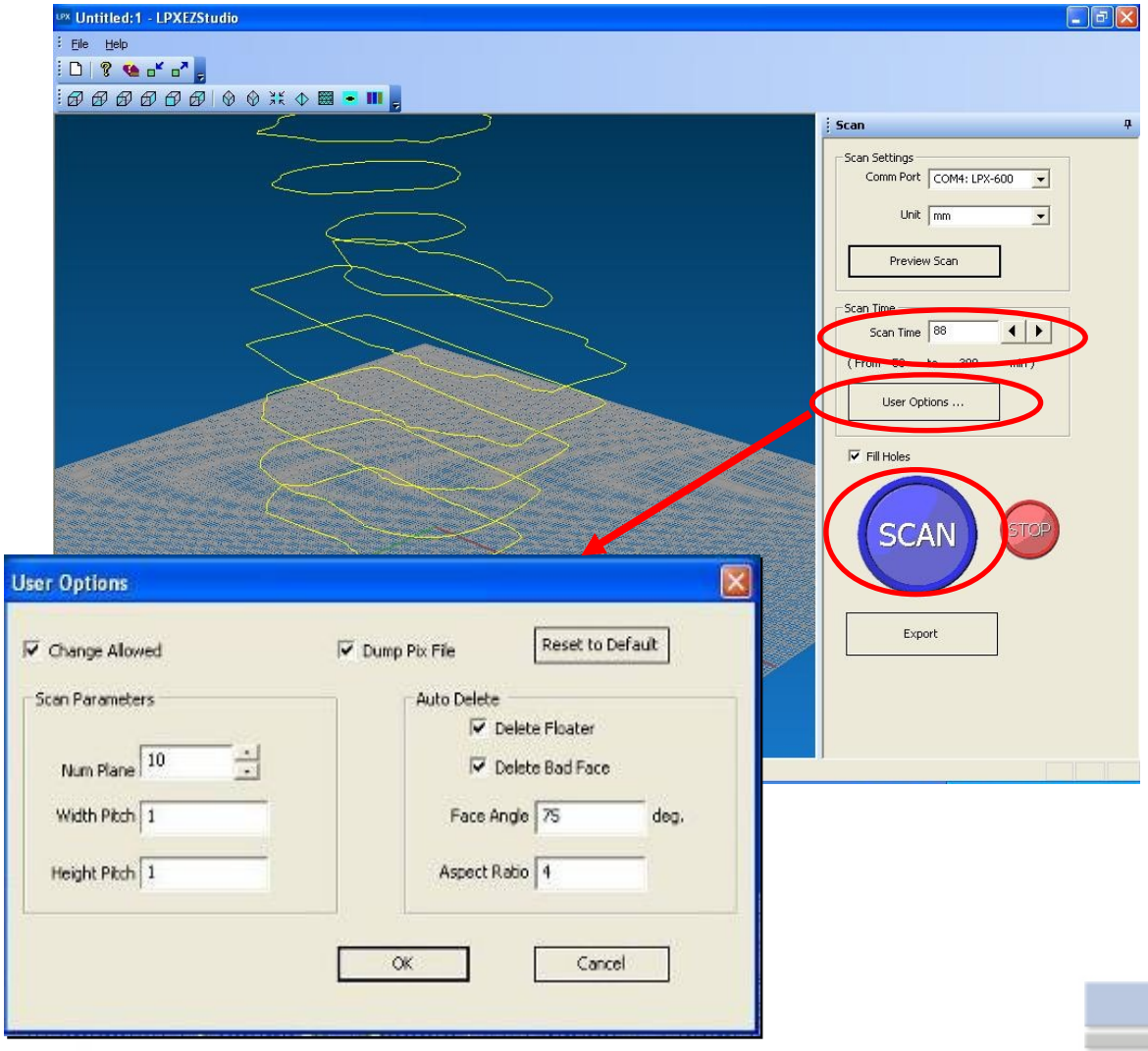
Estimated Scan Time

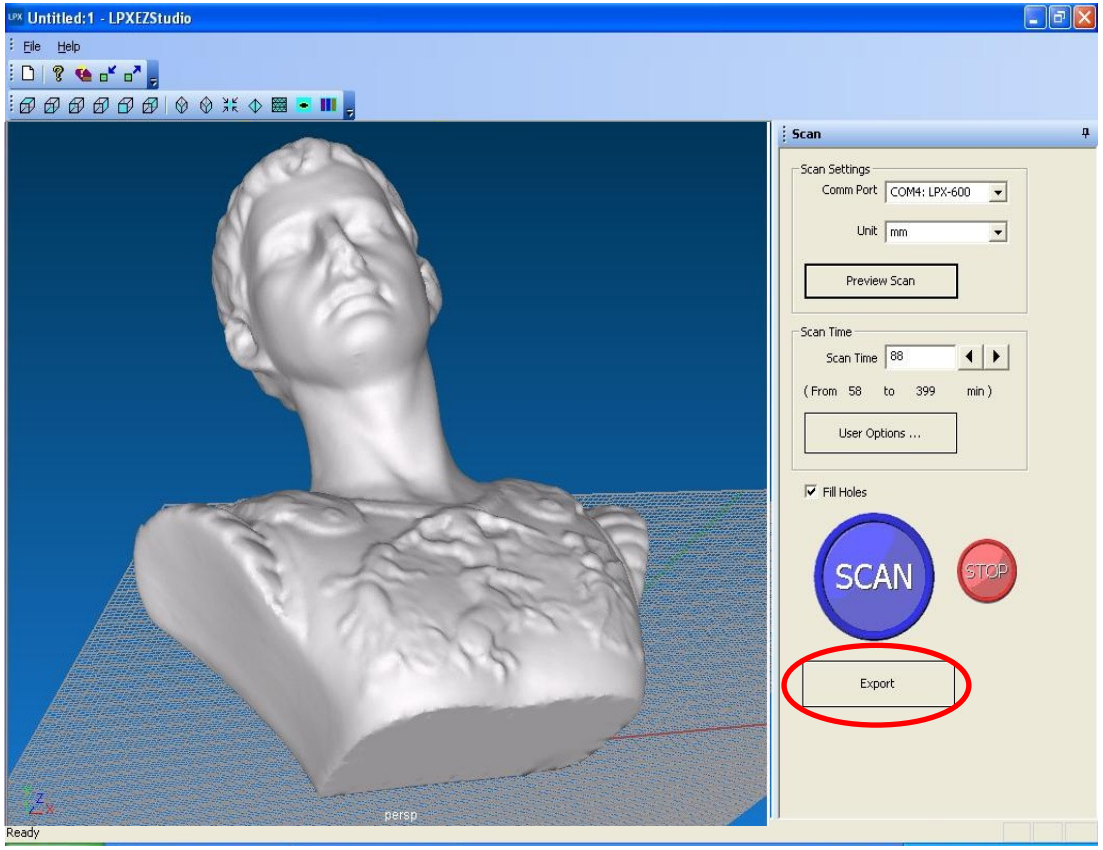


Preview scan will provide estimated scan time scan settings

User can modify scan settings

Click the SCAN button to start scanning.

Scan Results



Complete polygon data will be generated automatically.

Click "Export" button to save data as STL, 3dm, GSF or PIX file.

Hardware Features

- Large 16” height x 10” dia. scanning area.
- Rigid chassis and smooth mechanism creates high quality scan data.
- Completely enclosed design with safety interlock.
- Window in door enables users to monitor and view scanning process.
- Clean, quiet operation.
- USB interface.

Software Features

- Simple one-touch operation.
- Easy to set up and easy to use.
- Consistent quality results from any user.
- Automatically fills holes, deletes spikes and generates polygonal models from scanner.
- Export options include .stl, .3dm, .pix and .gsf (Geometry Systems software format)

Scan Sample #1: Plastic Bottle

Object height : 98mm

Num Plane : 6
Width Pitch : 0.4mm
Height Pitch : 0.4mm
Scan Time : 40min

Scan Sample # 2: Figurine

Object height : 130mm

Num Plane	:	5
Width Pitch	:	0.8mm
Height Pitch	:	0.8mm
Scan Time	:	37min

Scan Sample # 3: Statue

Object height : 152mm

Num Plane : 8
Width Pitch : 0.2mm
Height Pitch : 0.2mm
Scan Time : 238min

Comparison - Scanning Quality

LPX-250 LPX-600 LPX-1200

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Comparison - Specifications

	LPX-250	LPX-600	LPX-1200
MSRP	$9,995	$11,995	$21,995
Table size	Diameter 254mm	Diameter 254mm	Diameter 130mm
Maximum scanning area (Rotary)	Diameter 254mm Height 406.4mm	Diameter 254mm Height 406.4mm	Diameter 130mm Height 203.2mm
Maximum scanning area (Plane)	Width 230mm Height 406.4mm	Width 254mm Height 406.4mm	Width 130mm Height 203.2mm
Minimum scanning pitch (Rotary)	0.2 degrees	0.18 degrees	0.18 degrees
Minimum scanning pitch (Plane)	0.2mm	0.2mm	0.1mm
Table rotation speed	15rpm	9rpm	9rpm
Maximum head movement speed	50mm/sec	37mm/sec	7.58mm/sec
Interface	RS-232C	USB1.1	USB1.1
Dimensions	258(W) X 431(D) X 742(H) mm	630(W) X 505.2(D) X 761(H) mm	440(W) X 400(D) X 608(H) mm
Included Software	Pixform	LPX EX Studio	Pixform Pro
Weight	32Kg	63Kg	34.8Kg

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Conclusion

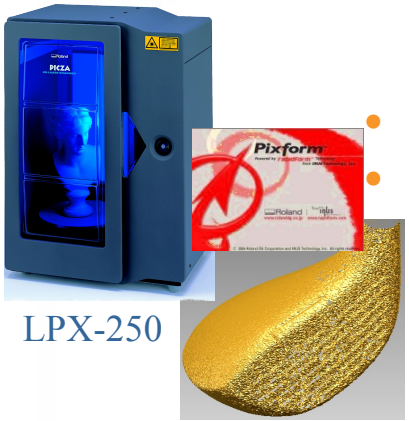
LPX-1200

- LPX-1200
- Highest quality scan data and resolution
  - .004 scan resolution
  - Cleaner scan input, less processing time
  - Smooth / merge surfaces, decimate model
  - **Includes Pixform Pro** for advanced editing

- LPX-600

High quality scan data large scanning area

  - .008 scan resolution
  - Rigid structure creates clean scan data
  - **Includes LPX EX Studio** for automated editing



LPX-250

- LPX-250
- High value
  - .008 scan resolution
  - **Includes Pixform** software to smooth/merge surfaces and decimate model