

Revolutionize your medical research ...

Explore the human body in its true form with Genex's 3D camera and software solutions.

The **Rainbow 3D[®] Camera** uses a revolutionary visible-light capture technology to create precise 3D digital images. By encoding all of a subject's real 3D features into measurable data, researchers can eliminate the difficulties of traditional calipers and reference points.

With **3D Surgeon[™]** software, users have a wealth of advanced visualization and measurement capabilities at their fingertips. Entirely new techniques such as symmetry and volume comparisons are now possible – and accurate.

Explore the human body with today's most advanced tools. Contact Genex Technologies today for information on our affordable solutions.



Applications

- ◆ **Biomedical Engineering** - Production of custom-fitting prostheses.
- ◆ **Cranio-Maxillofacial** - Studies requiring exact measurements of the face, such as cleft palate.
- ◆ **Dermatology** - Quantitative analysis of the efficacy of skin and wrinkle treatments.
- ◆ **Genetics** - Research into genetic traits using anthropomorphic measurements.
- ◆ **Orthotics** - Development of customized shoes and lasts.
- ◆ **Otolaryngology** - Studies of nasal or facial conditions, such as deviated septums and facial scars.
- ◆ **Plastic and Reconstructive Surgery** - Surgical planning, simulation, and pre/post-operation comparison.

Rainbow 3D Features and Benefits

- ◆ **Exceptional Performance:** Acquires a highly accurate 3D image in less half a second with Genex's patented capture process.
- ◆ **User Friendly Interface:** Allows fast training while keeping rich functionality and powerful manipulation capabilities.
- ◆ **Real-time 3D Digitization:** Encodes and sends 3D data to a computer instantly.
- ◆ **High Spatial Resolution:** Yields micron-level accuracy and provides up to 307,200 points of dense data.
- ◆ **Realistic 2D Image Overlay:** Captures a 2D image simultaneously and maps it onto the 3D model precisely.
- ◆ **Remarkable Value:** Employs a simple design and off-the-shelf components to keep costs low and technology current.
- ◆ **Small Camera Size:** Fits into small rooms with a minimal footprint, allowing for mobility and use in any environment.

Product Models

Genex offers four standard Rainbow 3D Camera models, each optimized for varying areas of coverage and accuracy. To learn more about which model is best for your needs, please contact our knowledgeable sales and support staff.

- ◆ **Capture Field of View:** Ranges from approximately 10 x 8 x 8 inches to 1 x 1 x 1 inch (H x W x D).
- ◆ **Accuracy:** Ranges from 250 microns to 25 microns.
- ◆ **Example Configurations:**
 - Rainbow 250 for full frontal facial data
 - Rainbow 100 for detailed nose or ear data
 - Rainbow 50 and 25 for intricate wrinkle data

Software Packages

Standard: 3D capture software included with all cameras.

3D Surgeon Software: Provides advanced post-capture capabilities, including: viewing, measurement, editing, comparison, compression, overlay, and data output. Compatible with industry standard 3D data formats.

Pricing

The Rainbow 3D[®] Medical Camera solution, which comes with a one-year warranty on hardware and software, is priced as follows :

- ◆ **Turnkey Imaging Solution** **\$ 16,000**
Includes computer, 3D camera, and 3D capture software. Uniform pricing for Rainbow 25, 50, 100, or 250.
- ◆ **3D Surgeon Software** **\$ 5,000***
Software providing full volumetric measurement functionality and additional viewing, modeling, analysis, and assessment tools.
- ◆ **High-Resolution (4 Mpixel) color overlay** **\$ 1,500**
- ◆ **Year 2 Maintenance for Hardware** **\$ 1,550**
- ◆ **Year 2 Maintenance for Software** **\$ 750**

About Genex Technologies

Founded in 1995, Genex Technologies is a world leader in 3D imaging, 3D facial recognition, and intelligent surveillance. Genex provides simple, practical solutions to some of today's most challenging imaging needs.

Key Specifications

- **Image Acquisition Time:** 400 - 500 msec (depending on settings).
- **Processing Time:** 1 second for quick view, 5-30 seconds for full 3D model (depending on settings).
- **3D resolution:** 307,200 (640 x 480) data points of information (max).
- **Texture Overlay:** Automatic registration of 2D texture information with 3D data.
- **3D Formats:** GTI* (native), DXF, IGS, OBJ, PLY*, PNT* (point clouds), STL, and VRML. (* Format supports texture overlay.)
- **Size and Weight:** 438 mm (17 ¼") width x 171 mm (6 ¾") height x 356 mm (14") depth; 9.5 kg (21 lb).
- **Power:** 110 - 240 volts AC.

Camera Model	Accuracy (Microns)	Field of View (HxWxD)
RB 25	25 (.0010")	32x25x20mm (1.3x1.0x0.8")
RB 50	50 (.0020")	59x48x32 mm (2.6x2.0x1.0")
RB 100	100 (.0039")	100x200x200mm (3.9x3.1x3.1")
RB 250	250 (.0098")	250x200x200mm (9.8x7.9x7.9")

*3D Surgeon software \$5,000 when bundled with camera. \$7,500 sold separately.