

3D FaceCam—

Technest's state-of-the-art 3D FaceCam™ revolutionizes the way we capture someone's 3D image for facial recognition applications or personalized gifts. The 3D FaceCam uses multiple sensors to create precise, complete 3D face images at light speed. With total acquisition time of only 400 milliseconds (black & white), this innovative system can capture a small child's 3D form or a 3D family portrait accurately and without motion artifacts. The 3D FaceCam is designed for simple and flexible operation. Built-in options allow users to customize the application to their environment. The simple interface allows users to train very quickly. By supporting numerous 3D formats for production, Technest makes it easy to integrate 3D FaceCam. Popular output formats include laser etching, CNC routing, and holograms. Most important, the 3D FaceCam is our most streamlined and automated system to date. Data creation takes only 10-12 seconds with Technest's powerful and efficient calculation algorithms – making more customers smile, faster.



3D Camera System



3D Capture Result

Features:

- **High-Speed Capture:** Captures data in 400 milliseconds (critical to acquiring good 3D data)
- **Coverage:** Employs multiple coordinated sensors to capture great 3D details of complex geometries (such as nose and eyes) while providing coverage of the shoulders and ears.
- **Minimum Manual Post-Processing:** Automatically cleans 3D data with advanced filters to minimize the need for user intervention during post processing.
- **User Friendly Interface:** Provides rich functionality for your particular application via a simple user interface.
- **3D Data with Texture:** Outputs 3D data with registered intensity or RGB values for use in data modulation and representation.
- **Real-Time 3D Digitization:** Encodes and sends 3D data to the computer instantly, with complete 3D model ready within 10-12 seconds.

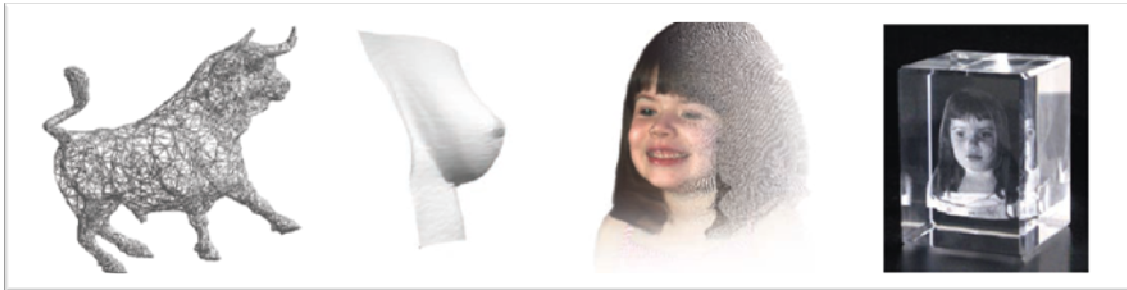
Software Packages

- **Capture Output Formats:** GTI (native format), DXF, IGS, OBJ, PLY, PNT, STL, and VRML; acceptable for use with laser etching or CAD/CAM systems.
- **Laser Etching Solutions:** Technest can provide a turnkey solution with customized software for laser etching applications. This optional software modulates 3D data points based upon light intensity, for a more visible representation of key features on the face.

3D FaceCam— (continued)

Applications:

- **Security/Biometrics** – Enhance facial recognition with 3D data to address pose, lighting, and expression issues.
- **Laser Etching** – Ingrain a 3D face model or family portrait into a laser-etched cube for a personalized gift.
- **CNC Routing** – Portray loved ones with a unique sculpted representation that is set in a timeless, classic hardwood.
- **Bronze Sculptures** – Cast a personalized bronze bust in a fraction of the time and cost of traditional methods.
- **3D Holograms** – Add a third dimension to traditional photos by creating holograms of children.
- **Gaming/Entertainment** – Create life-like characters (avatars) for players of massively popular 3D games.



· Miniature bull model for reverse engineering · Breast image for medical imaging · Child photo for personalized gift · Crystal cube via laser etching

Contact Information

For more information on Technest's exciting 3D and 360 degree imaging technologies, please contact us. We will be happy to discuss your specific needs.

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