

Facial recognition that performs.

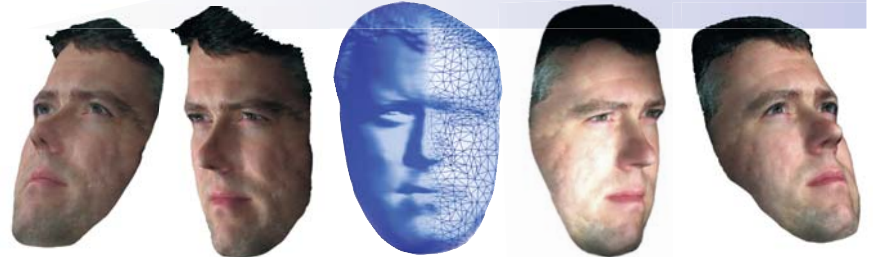
Introducing SureMatch 3D™ Suite for Access Control by Genex Technologies:

Real-life applications demand reliable performance. Much of today's facial recognition technology simply cannot provide adequate performance because of the fundamental limitations of 2D.

The answer lies in 3D technology.

SureMatch 3D is a suite of facial recognition tools that seamlessly integrates with existing 2D systems to provide more robust detection capabilities. Pose, lighting, and expression have historically prevented 2D facial recognition from working well. Genex has addressed these problems by drawing upon its extensive research in 3D imaging and 2D-to-3D facial structure conversion.

When integrated with leading facial recognition software, SureMatch 3D enables strong performance levels in a wide variety of angles and lighting.



Any Angle
Any Lighting
Any Expression

Access Control Suite Components

 **3D FaceCam™**

Capture 3D

The 3D FaceCam uses eye-safe white light to capture complete 3D faces in only 400 milliseconds. Now facial recognition systems can use the highest detail geometry and texture data to achieve enhanced recognition performance.

 **3D Enroll™**

Generate Multiple 2D from 3D

3D Enroll takes a 3D image and creates dozens of 2D images with varying pose, lighting, and expression. SureMatch 3D enables 2D databases to contain "three-dimensional information."

3D FaceCam

Component Features

3D Capture System (Camera Hardware and Software)

- High-Speed Capture in 400 Milliseconds
- Wide Coverage Area for Flexible Capture
- Automated 3D Data Output
- High-Detail Texture and 3D Data (Approx. 307,200 Points)

3D Enroll

Component Features

Multiple 2D Image Generation System

- Varying Pose, Lighting, and Expression
- User-Programmable Alteration Preferences
- Automatic Image Generation and Transfer
- Sophisticated Light Mapping, Muscle Movement Algorithms
- Seamless Integration Via API

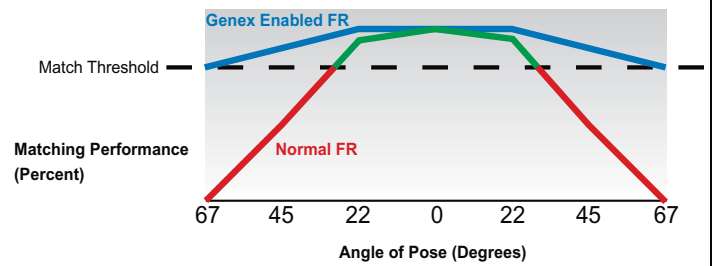
Enhanced Performance

Genex-Enabled Facial Recognition

outperforms normal facial recognition across the board when using 3D Enroll's pose and lighting generator.

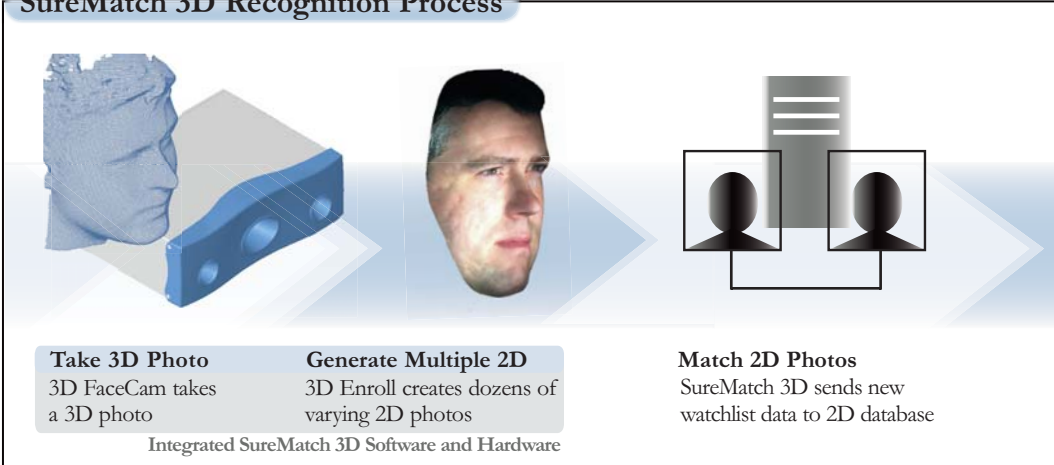
As a subject's head turns away from center or as lighting changes, normal systems lose critical feature points and cannot achieve a match. With 3D Enroll, performance stays strong even when pose and lighting change *dramatically*.

With SureMatch 3D, facial recognition can handle real-life scenarios.



*Data represented above is based upon limited testing at Genex Labs.

SureMatch 3D Recognition Process



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.