

Worried About Privacy with Biometric Technology?

With Synel, you can relax.

Biometric technology helps create more secure workplaces by verifying the identity of employees as part of the data collection process. But while the benefits of biometrics are well documented, some employees may still be concerned about the privacy issues surrounding this technology.

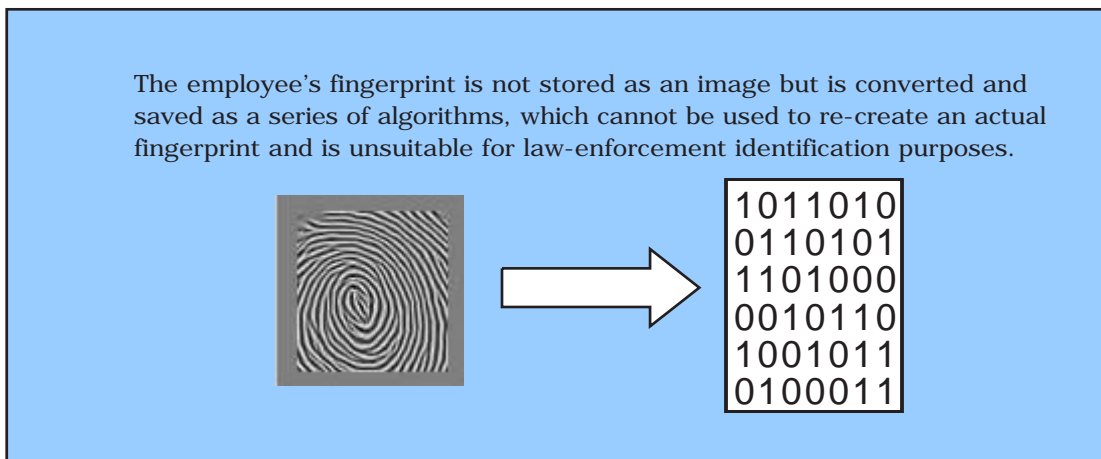
Proven technology

That's why Synel selected Bioscrypt, the leading provider of fingerprint technology, to provide the biometric components for its line of data collection terminals. Bioscrypt is committed to providing the most secure biometric solutions possible and constantly searches for the latest advances in sensor technologies and software approaches to incorporate into its products.

Fingerprinting for the Workplace

Unlike the technology used by Automated Fingerprint Identification Systems (AFIS) for law enforcement purposes, Synel's biometric terminals, designed to facilitate the collection of data about employee activities, do not capture and store actual fingerprint images. Rather, the Synel finger-scanning unit collects sample data, converts it into a series of algorithms (mathematical equations) and stores only a digital representation of the fingerprint (not an actual fingerprint image), from which it is virtually impossible to recreate the original image. (See Figure 1.)

Figure 1:



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Data Collection Systems

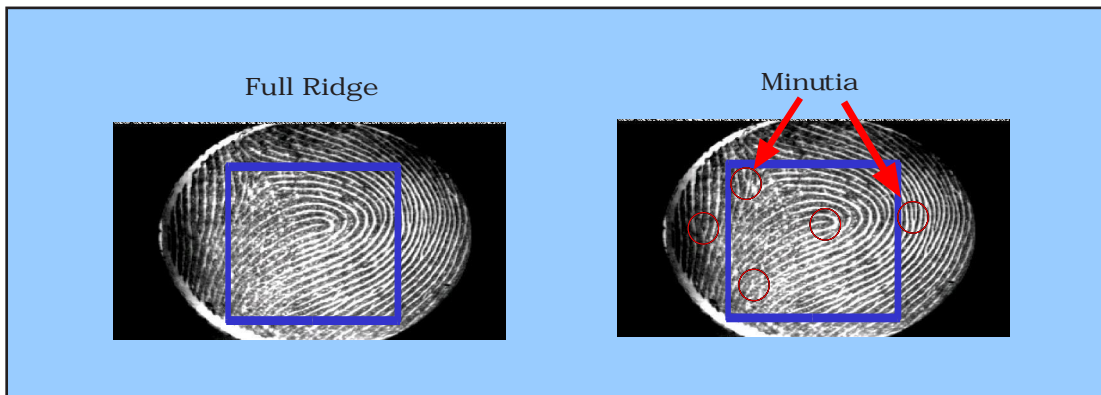
Another difference between the two technologies is the enhancement process. Synel terminals preserve and enhance the ridge pattern from an employees' finger while removing features such as scars or cuts, since they can appear or disappear over time.

The technology used by AFIS devices, however, uses comparison techniques based on minutia - including scars. Since these features of the fingerprint are removed during Synel's enhancement and compression process, the template stored by Synel is therefore unsuitable for AFIS identification systems.

Significant differences between AFIS devices and Synel sensors include:

Ridge vs. Minutia Analysis - Synel terminals rely upon the ridge patterns in the core of the scanned fingerprint, not upon minutia data; conversely, AFIS systems, using the entire rolled fingerprint image, capture minutia points in and around the core of the fingerprint.

Figure 2:



Resolution - AFIS devices require a minimum 500 dots per inch (dpi) resolution to define the fingerprint ridge pattern; the resolution required by Synel terminals is only 160 dpi.

Image size - Synel terminals use small, 3/4" x 3/4" solid-state sensors; AFIS devices require a full measure of the fingerprint, which is typically a rolled fingerprint image.



Synel Biometrics: Accuracy and Integrity

Synel biometric terminals are extremely accurate and virtually impossible to deceive, thanks to the integrated security components within the sensors. These technologies combine to form the most powerful fingerprint security solution in the industry.

For maximum accuracy, the terminals have a dynamic optimization process, enabling high fingerprint image resolution and quality with low false acceptance rates. As well, Synel fingerprint scanners use a sub-surface technology that images below the outermost layer of the skin to the live layer where the true fingerprint resides. This means that conditions on the skin's surface (such as calluses, dryness, dirt or contaminants, moisture, or the effects of aging) do not limit the ability of the sensor to capture fingerprint data.

And with the technology's anti-spoofing feature, any attempt to place a fake finger — rubber stamps, finger molds, latex fingers, etc. — is immediately rejected.

Allay employees' fears about privacy with the facts about Synel biometric terminals:

No fingerprint images are saved — Fingerprint images are converted to mathematical representations before storing.

Incompatible with AFIS technology — Because of the different resolution, fingerprint size, and image enhancement processes of the two technologies, the data collected by a Synel terminal is virtually unusable by AFIS.

Accurate — Synel biometric terminals ensure fast, accurate identification and eliminate false readings, creating a more secure environment for everyone.

For more information about Synel biometric terminals, please visit www.synel-usa.com or contact Synel at 1-877-796-3546 or info@synel-usa.com