

SL-Tech is proud to bring to you a new student access device that uses a finger sensor as a method to identify students. Finger scan recognition, one of the oldest methods of biometric identification, is a relatively new technology for school foodservice. We have put together this list of Frequently Asked Questions about biometrics and our product to help you better understand this technology and its application.

What is finger scan technology?

Finger scan technology is the use of automated methods to recognize a person based on their finger image or template. A finger consists of ridges (lines across fingers) and valleys (spaces between ridges). The pattern of the ridges and valleys is unique for each individual, making it one of the most popular biometric tools that can be used for identification. It can be deployed in a varied range of environments. For example, finger scan technology has been used as a security system for ATMs, computer networks, cell phones; for membership management and access control at Disney World or SeaWorld; and for keyless entry to homes and cars. It is fast, accurate and cost-effective.

How does it work?

SL-Tech's biometric solution uses a sensor to generate an image of the ridges and valleys that make up a finger image. This image is converted to a template which consists of minutiae points on a finger that are unique to an individual. The measured fingerprint-area consists in average of about 30-60 minutiae points depending on the finger and on the sensor area. The template sizes vary from 100 bytes to 1500 bytes depending on the algorithm. The device can store up to 9090 templates.

