

BIOMETRIC SYSTEM



IMPACT can be operated with a biometric user recognition system. By integrating a fingerprint recognition module it is now possible to eradicate the need for cards altogether.

Although there is a premium associated with the biometric module, for many, the advantages outweigh the cost. It is easy to see that the uplift in sales arising from faster queues and a broadened client base (potential diners who might be reluctant to replace a lost card) coupled with the eradication of the costs of the cards, and the management of those cards, can quickly repay the additional investment.

Before launching your biometric system we visit your campus and register every potential user; a process that typically takes 2 to 7 days depending on the size of the roll.

All fingerprints are made up of unique identifiers called minutae. The biometric engine is able to extract these minutae, digitize them (convert them into a sequence of 1's and 0's) and encrypt them (using 128 bit encryption methodology) into a 300 byte template.

Even if you were able to break the encryption code, the template consists only of these individual datapoints, which could never be assembled to recreate a persons fingerprint image.

Once this database is set up it is used as a reference point each time a user presents themselves to a reader, whether at a revaluation unit, a POS terminal, a vending machine, or in the back office. Funds can then be credited to, or debited from ,an account, simply by placing the registered fingertip on the reader at the relevant location.

Once the biometric license has been acquired, the licensee is able to use the system for any other legitimate purpose within the campus e.g. registration, door access, library management etc.

It should be noted that the data can only be used with the users' voluntary and proactive involvement (putting their finger on the scanner) and that the data is destroyed when the user leaves the campus. The data cannot be used for any other purpose and cannot, in particular, be used to construct an image of the fingerprint.

In short, the system improves the delivery of the meals service using 21st century technology and is fully compliant with the Data Protection Act.

However, for those staff or students who are uncomfortable with the use of such technology, all users still have the option of using a card or other methods of recognition.

