

EZ-ID Biometric Fingerprint Reader Module from Intelligent Instrumentation



Applications

- Time and Attendance
- Security Systems
- Access Control
- Stops Buddy Punching
- Labor Reporting
- Supports Identification AND Verification

The EZ-ID optical fingerprint reader from Intelligent Instrumentation provides a biometric-based method to meet the increasingly important need to accurately identify individuals. Fingerprint identification is the most widely used and mature biometric technology available today. High-security access control, foolproof Time and Attendance, and other applications relying on the accurate identification of an individual are easily served using the EZ-ID fingerprint module.

EZ-ID's core component is the optical fingerprint sensor. Optical sensors are superior to silicone-based sensors –immune to electrostatic damage, require no special coatings on the sensor, and are maintenance-free. The EZ-ID sensor is manufactured by the award-winning SecuGen Corporation. It is enclosed in Intelligent Instrumentation's ergonomic housing with integral finger guide that is pleasing to the touch. EZ-ID connects to the RS232 COM port on any Intelligent Instrumentation terminal of your choice, or any computer for that matter.

These rugged sensors have been tested under extreme conditions, simulating the environments in which applications may operate. They have been proven to perform in high-traffic and outdoor conditions and resist exposure to electrostatic discharge (electric shock – a potentially devastating effect on silicone-based sensors), impact and scratches to the optical surface, and various contaminants such as sweat, dirt and oil. Secugen won the 2002 Frost & Sullivan Award for Technology Innovation, for making significant product performance contributions to the biometrics industry with this sensor.

EZ-ID supports fingerprint *identification* as well as fingerprint *verification*. Fingerprint *identification* only requires that the fingerprint match a pre-recorded fingerprint pattern stored in the on-board fingerprint database; no separate badge or other form of ID is required.

Fingerprint *verification* is accomplished by using an employee badge or other form of ID - barcode, magnetic-stripe, Radio Frequency tag/card (RFID), or even a keyed-in ID number. The ID is used to ensure that the person whose finger is presented to the reader is indeed the owner of the badge, eliminating security failures due to lost and stolen identification credentials.

EZ-ID is maintenance-free. The optical prism is made of a hard quartz-like material that resists scratches, stress and corrosion. There are no coatings to maintain or disturb as with some other technologies.

The programming interface is via data strings communicated through the COM port. Extensive example code is provided. The reader is powered by the +5VDC accessory power connector in an Intelligent Instrumentation terminal, or a separate customer-supplied power source when used with PC's and other computers.

Intelligent Instrumentation's LANpoint data collection terminals that support EZ-ID include:

LANpoint XL LANpoint PLUS LANpoint TIME LANpoint PRO
 FACTORYpoint PRO LANpoint CE LANpoint CE.NET

SPECIFICATIONS	
Sensor Resolution:	500 dpi
Sensor Controller:	CPU, 1MB DRAM, 4MB Flash memory
Fingerprint Template Size:	400 bytes
Number of Templates Stored:	Up to 1,000 locally on sensor controller, virtually unlimited remote storage capability
Fingerprint Validation Types Supported:	Choice of: <u>Verification</u> - with external ID card, keyed ID number, or other credential providing a unique ID number And/or <u>Identification</u> – fingerprint only, no other identification credential required
FRR (False Reject Ratio):	0.1%, adjustable
FAR (False Accept Ratio):	0.001% adjustable
Verification Time:	Less than 1 second
Encrypted Data Size:	400 bytes
Sensing Area:	0.54" x 0.64" (13.6 x 16.2 mm)
Dimensions:	2"W x 6.6"H x 3.125"D (50.8 x 167.4 x 79.4mm)
Operating Temperature:	-40° to 60°C (-40° to 140°F)
Operating Humidity:	Up to 90%
Sensor Light Source:	red LED
Supply Voltage:	5 VDC
Maximum Supply Current:	270mA standby, 320mA operating
Communications Interface:	RS232C
Sensor Housing Material:	Silicone rubber over metal
Mounting Method:	Two screws, flush on existing surface or with bracket to match the host terminal. Many interface cable routing alternatives are provided for maximum physical protection.

ORDERING INFORMATION:

Order part number LPA080

Suggested List Price

\$ 995

