

Fingerprint Reader Unit

BIOMETRIC FINGERPRINT TIME & ATTENDANCE FINGERPRINT READER UNIT Item Code: OZD-ABC-OA99

OZD-ABC-OA99 is one of the most cost effective Biometric Fingerprint Readers on the market today.

OZD-ABC-OA99 incorporates many high technology features, such as Industrial strength, hard plastic, streamlined housing casing available in black, white or argent colours, USB Cable for Data Communication, LED Operation Indicator Lights, Optical Fingerprint Sensor, Enhanced Fingerprint Capture and Reading due to the Soft Clear Latex Membrane Fingerprint Sensor Cover, High Speed Fingerprint Capturing and Reading Algorithm, Driver CD and optional Software Development Kit (S.D.K.) enabling development of Professional Fingerprint Enrolment and Verification Applications. It is light-weight and mobile and can be readily connected to different PC's and Laptops in your organisation.



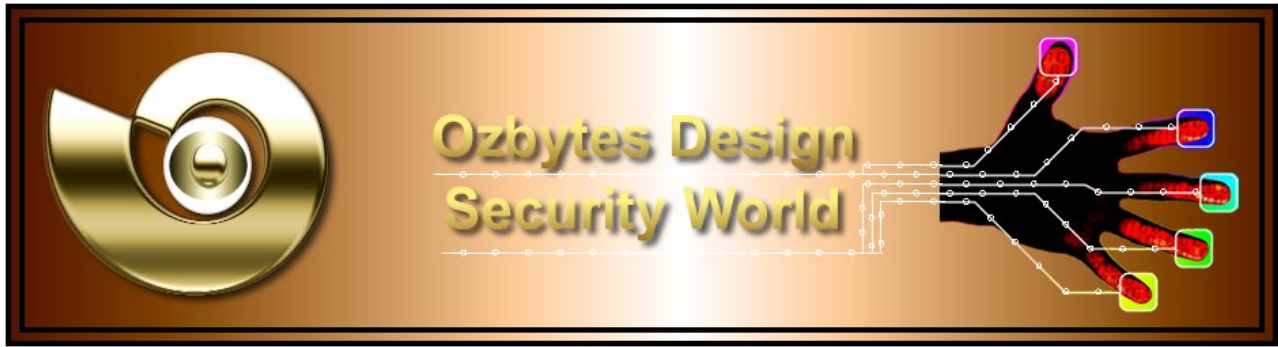
The Captured Fingerprint Templates are compatible with our OZD-ABC-OA180, OZD-ABC-OA280, OZD-ABC-T8 and OZD-ABC-T60 Biometric Fingerprint Time & Attendance and Access Control Units.

The OZD-ABC-OA99 Biometric Fingerprint Reader Unit is a high technology, fully integrated Biometric Fingerprint Reader Unit. The OZD-ABC-OA99 Unit operates in the following manner:

- Up to 2,000 Identification Numbers can be used and associated with User Fingerprints for Fingerprint Matching Verification purposes by default.



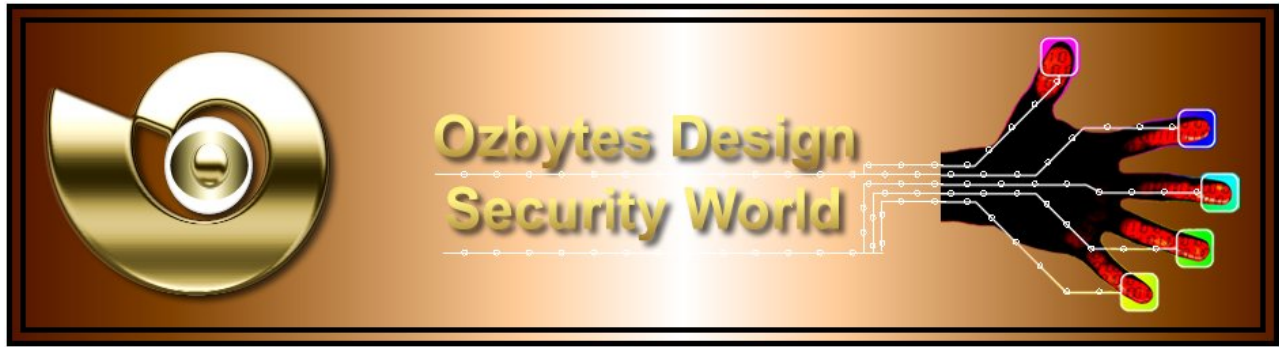
- Using the Software Development Kit, much larger Fingerprint Matching Verification or Identification Applications can be developed by associating the 2,000 Identification Numbers to Fingerprint Template Location Directories and using the Identification Number input to check the Captured Fingerprint Image against the stored Fingerprint Template Files in the Directory location obtained from the Identification Number. The Application Type is then only limited by infrastructure as theoretically, each of the 2,000 possible Fingerprint Template Directories could store millions of Fingerprint Template Files. If using a Name, Area Location and Date of Birth, a National Fingerprint Identification Application could readily be developed and maintained over a Wide Area Network.
- The OZD-ABC-OA99 Unit's Firmware Operating System is embedded on a Security Chip seated on the OZD-ABC-OA99 Unit's Motherboard. This Security Chip cannot be accessed, nor can the data stored on the Security Chip be edited, deleted or otherwise tampered with.
- User Fingerprints are captured by the Fingerprint Sensor and the Fingerprint Image is stored in the Management Computers Cache Memory.
- When using the Software Development Kit to develop an Application to interface with the OZD-ABC-OA99 Unit, it is highly recommended that when enrolling a User on the OZD-ABC-OA99 Unit, the Users Fingerprint must be successfully scanned twice before it is saved to the Applications Database System.
- The Users Fingerprint image is broken up into segments, edited by morphing (transformation), converted to digital binary code, encrypted, and saved as a Fingerprint Profile Template to the Management Computers Cache Memory using a proprietary Pattern Matching Algorithm. The Employee Fingerprint Profile Templates cannot be re-created, edited or otherwise tampered with. Using the Software Development Kit, the captured Fingerprint Image can be saved from the Management Computers Cache Memory and then saved to a location on the Management Computer or a Network Folder as a Fingerprint Template File.
- The saved Fingerprint Template Files can then be uploaded to our OZD-ABC-OA180, OZD-ABC-OA280, OZD-ABC-T8 and OZD-ABC-T60 Biometric Fingerprint Time & Attendance and Access Control Units using those Units Management Software Application.



- When using the Software Development Kit, full access is given to the Fingerprint Matching Algorithm's Operation Functionality. The actual function of the proprietary Pattern Matching Algorithm cannot however be altered using the Software Development Kit. Software Developers can develop a fully functioning Management Application to interface with the OZD-ABC-OA99 Unit. An Application could be developed that checks the Captured Fingerprint Image against a database of Fingerprint Template Files by rotating the Captured Fingerprint Template for a full 360 Degrees in 0.1 Degree Rotation Increments to determine if the Captured Fingerprint Image matches one of the Fingerprint Images stored as Binary Data in the database of Fingerprint Template Files. Upon finding a Match, the Application could then enable access to important documents, or log into a Computer Application or onto a Network, Computer or Laptop or record the Time and Date for an Employee Time and Attendance Application or Control other Hardware, such as automatically open an Electronic Bolt or Magnetic Door Lock.
- The Fingerprint Sensor is covered with a thin layer of clear latex. This aids in the efficiency of capturing Fingerprint Images by completely reducing the possibility of residual fingerprint smears being left behind by the previous Employee using their finger to enrol or clock-in / out of the system. It also enables grease, oil or other foreign materials to be easily removed from the Fingerprint Sensor. Finally, it also assists with the efficient reading of Fingerprints from Employees who have dry fingers or have recently received a scar on their finger after an accident.
- The Fingerprint Sensor also detects pressure and a pulse, to ensure a "sign of life" is registered along with the captured Fingerprint Image.
- When directly connected to a Computer or Laptop, Fingerprint Matching Time for a system with 2,000 enrolled Fingerprint Templates is less than 20 ms.

The OZD-ABC-OA99 Biometric Fingerprint Time and Attendance and Access Control Unit has successfully been installed in the following Industry sectors:

- Commercial Offices
- Banks
- Manufacturers
- Hospitals
- Management Systems for Contractor Employees
- Restaurant Management Systems
- School / Student Management Systems
- Laboratories



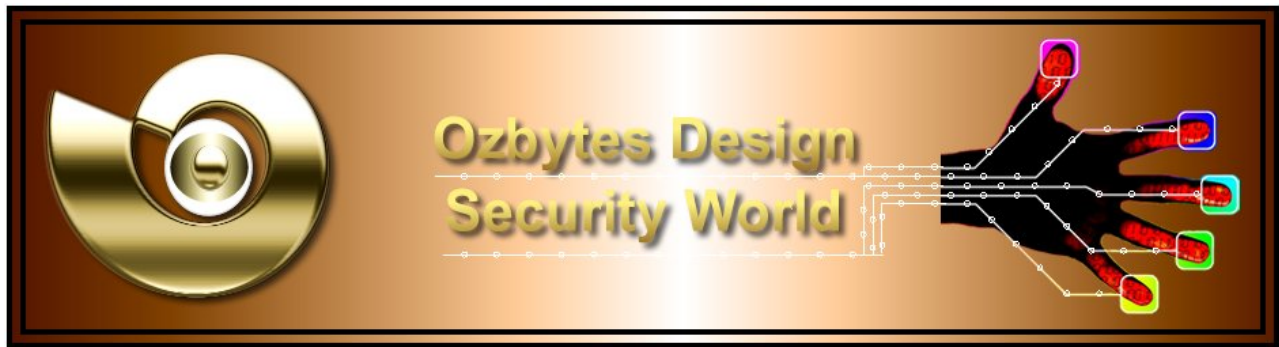
- Restricted Access Offices / Rooms
- Parking Lots
- Warehouses
- Public Institutions
- Membership and Fitness Centres
- Hotels

Our Fingerprint Reader Units have successfully used for the following range of Applications:

- Government Departments Systems
- Banking Systems
- Prison Systems
- Museum Systems
- Finance Systems
- Military Facility Systems
- High-tech R&D Centre Systems
- Warehousing Systems for Treasure and Valuable Goods
- Security Entrance and Exit Systems
- Data Centre Systems
- Elevator Hall Systems
- Mining Systems
- Engineering Systems

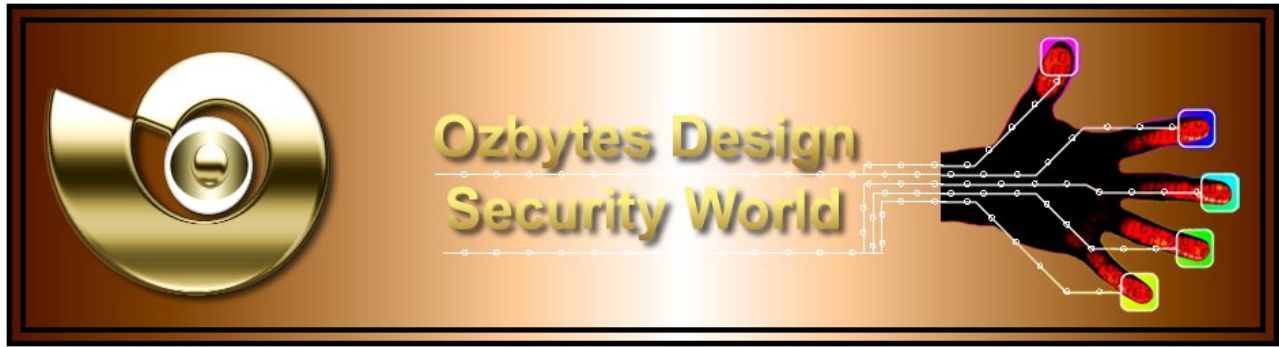
Core Applications:

- Employee Time and Attendance.
- Employee Job Costing.
- Security Door Access.
- Internet, Intranet, Local PC, LAN, WAN and WLAN Hardware Remote Control.
- Fingerprint Log on.
- Fingerprint File Encryption and Decryption.
- Fingerprint Enrolment Unit for our OZD-ABC-OA180, OZD-ABC-OA280, OZD-ABC-T8 and OZD-ABC-T60 Biometric Fingerprint Time & Attendance and Access Control Units.



Key Features:

- USB Connection.
- Weighted Mounting Stand.
- Strong, Industrial, Tamper Proof Construction.
- Excellent Identification.
- Compact, lightweight and portable.
- Integrated Finger Guide.
- Readily accessible for any finger.
- Driver CD included.
- High performance, maintenance free optical fingerprint reader.
- Resistant to scratches, impact, vibration and electro-static shock.
- Fast and accurate identification.
- Latent print image removal (does not accept prints left behind).
- Encryption of fingerprint templates (does not allow fingerprint templates to be modified or reconstructed).
- Verification Methods: 1:1, 1:N.
- Matching Speed: <20 ms.
- 5,000 Fingerprint Template Matching Speed: <1 s.
- Image Reading Speed: 15 Frames Per Second.
- Sensor Scan Area: 15.00 x 16.00 mm.
- Sensor Image Resolution: 500 DPI - Greyscale; 304x256 BMP Format.
- False Rejection Rate (FRR): < 0.001 %.
- False Acceptance Rate (FAR): < 0.000001 %.
- ESD Tolerance: > 15,000 V.
- Fingerprint enrolment unit for our OZD-ABC-OA180, OZD-ABC-OA280, OZD-ABC-T8 and OZD-ABC-T60 Biometric Fingerprint Time & Attendance and Access Control Units.
- The Software Development Kit (SDK) is available and required to develop Management Software Applications for this Unit.
- Input Power: 5V DC.
- Unit Size: 6.60 cm x 10.50 cm x 5.50 cm.
- Unit Weight: 0.20 kg.
- Shipping Packaged Dimensions: 12.00 cm x 10.00 cm x 8.00 cm.
- Shipping Weight: 0.50 kg



Your OZD-ABC-OA99 Biometric Fingerprint Reader Unit has been manufactured and quality assurance tested to ISO9001, FCC and CE Standards.

Your OZD-ABC-OA99 Biometric Fingerprint Reader Unit comes with a full 12 month return-to-base Warranty. Any faulty products will be immediately replaced with a new OZD-ABC-OA99 Biometric Fingerprint Reader Unit.

For all Customer Care issues, contact your Local Reseller in the first instance, or the Australian / International Distributors whose contact details appear below:

Your local reseller is:

Manufacturer's Agent / Australian and International Distributor:

Business Name:	Ozbytes Design
A.B.N.:	24 200 625 187
Postal Address:	G.P.O. Box 2224, G.P.O. Melbourne Private Boxes, Melbourne, Victoria, 3001 Australia
Mobile:	0422 170153 (Within Australia) +61 422 170153 (Internationally)
Website URL:	http://www.ozbytesdesign.com
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