**Overview**

The Bio Watch Lumidigm, with its fastest fingerprint-matching algorithm and multispectral sensor technology, maintains its performance in almost any environment. It eliminates performance problems associated with conventional fingerprint sensors. The scanner protects against fake and spoof fingerprints by capturing detailed surface and deep tissue data. Lumidigm’s sensor multispectral technology can capture fingerprints in any weather condition like rain, snow, cold, dry, dust or hot. High-quality images are captured by multispectral sensor even when fingerprint ridges are hard to distinguish due to genetics, age, dirt, finger placement or environmental conditions.

**Features**

* High quality images and spoof detection
* 1-touch 1-second employee recognition
* Verification 1 :1 and 1: N
* Capacity to store 50000 templates and 200000 transactions
* No need to enter PINs
* Tamper-proof switch and alarm outputs
* Request-to-exit and alarm contacts
* Operates stand-alone without a computer
* TCP/IP, serial and Wiegand interfaces
* Supports Contactless Smart Cards like Mifare 4K
* Master/ Slave option to transfer templates without a computer
* Audio-Visual indications for acceptance & rejection of valid and invalid fingerprints
* SDK available for OEM customers and software developers
* Eliminates failure to enrol/ FTE and failure to acquire

**Application Areas**

* Field Work Force Management
* Authentication applications
* Time & Attendance applications

**Technical Specifications**

|  |  |  |  |
| --- | --- | --- | --- |
|  | Processor | CPU | High Speed ARM Cortex A8 processor |
| Speed | 1GHz |
| C:\Users\Aamani\Downloads\2-OperatingSystem.png | Operating System | OS | Android/ Linux |
| C:\Users\Aamani\Downloads\3-Memory.png | Memory | RAM | 512MB |
| Flash | 4GB |
| C:\Users\Aamani\Downloads\4-CommunicationPort.png | Communication Ports | USB & Other | 1-RS232  1-USB host  1-USB device  1-Weigan in  1-Weigand out |
| C:\Users\Aamani\Downloads\5-Wireless.png | Wireless Connectivity | WLAN | IEEE 802.11 b/g/n |
| Connectivity | GSM/GPRS/3G |
| Bluetooth | V4.0 |
| C:\Users\Aamani\Downloads\6-Power.png | Power supply | Input Power | 12V DC, 3A |
| C:\Users\Aamani\Downloads\28686.png | Fingerprint sensor | Capacity | 50000 templates |
| Scanner features | 500 DPI resolution  0.7 x 1.1” platen size |
| C:\Users\Aamani\Downloads\7-DisplayKeypad.png | Display & Keypad | Display type & size | 3.5” QVGA TFT w/Touch Panel |
| C:\Users\Aamani\Downloads\8-Optional.png | Optional Peripherals | Camera | 3MP/ 5MP Auto Focus |
| Identification | RFID reader |
| Access control interface | Electric lock, door sensor, exit button, alarm, door bell |
| Environmental rating | IP 65 |
| C:\Users\Aamani\Downloads\10-Operating.png | Operating Conditions | Operating Temperature | 0°C - 50°C |
| Relative Humidity | 0-100% condensing |