



## ThumbMax-HDD EC258

### 2.5" HDD enclosure with fingerprint authentication

The need of security is more and more stringent and this can be easily seen from the numerous attacks that caused companies and users to lose vital data. And considering that biometry is becoming increasingly popular, PWI thought it would be a good idea to implement it in a new external hard drive.

The ThumbMax HDD EC258 is an external USB Hard disk 2.5" enclosure which allows you to backup and transport your data as well as securing the access via the fingerprint recognition. The ThumbMax HDD model is available more than 40 GB, is rigid with Aluminum metal with surface anodizing treatment. ThumbMax EC258 is designed for mobility. ThumbMax HDD model is operated from USB bus power. The software which can be used under Windows OS is embedded and prompt for the user's fingerprint to allow the access to the files. The ThumbMax HDD EC258 is supplied with USB cable, USB bus power, and CD-Rom with the software.

#### Data Encryption

Data encryption prevents accidental or corrupt information leakage. When the user wants to encrypt individual files or folders on the hard drive, the user only need to double-click encrypted file or folder, a dialog box will be automatically pop-up and requires fingerprints. It does the same with decryption of file or folder. The user only need to simply swipe authenticated fingerprints, then the file or folder will be encrypted or decrypted automatically. It's a snap! Without either the authenticated fingerprints or master password, the file or folder can not be access. The protection is not only encrypted files, but also protects files from deletion, renaming, duplication, and moving.

#### Password Replacement

Computer passwords provide a measure of security only as long as they aren't lost, stolen, forgotten, or hacked. Restricting a PC to one or more authorized users strengthens security, and by using ThumbMax-HDD, the users only need to do the enrollment at beginning. After fingerprints are authenticated, users can store dozens of passwords and logins for a specific applications or Web sites directly and easily. The users only need to swipe of the finger or login with a click of the mouse via ThumbMax EC258 fingerprint software. ThumbMax-HDD will automatically enter user names and passwords for the authenticated



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users. The user's fingerprints are now replacing all of the passwords the user currently uses.

#### Mobile Favorites

Mobile Favorites is an application launched from Hard Disk. According to your necessity, you may carry URLs used constantly. By that, you do not need to search the URLs on the Internet. It is simple and easy to use.

#### FDBackup

**Introduction** Using computers has become an important part of our lives nowadays. However, there are still people who do not have the habit to backup data. As a result, they lose all their important data while the computer is broken down. With FDBackup, it will never be a problem to you. You can backup all your important data to the external storage device easily and efficiently.

#### FlashMail

Use the save feature of FingerprintDisk, the activity of sending/receiving mails all takes place in the disk. There is no need to use other email software, however you have to pass the fingerprint verification to start the email software.



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### Scanner

Live-scan capturing of 3D-fingerprint minutiae. Effectively detect fingerprints with scar, cut, swelling, and fingers that are too dry or wet. Firmware automatically ignores residual fingerprints. Scratch resistant sensor withstanding ESD 20KV.

- |                     |                            |
|---------------------|----------------------------|
| • Sensor            | Swipe Semiconductor Sensor |
| • Resolution        | 508 DPI                    |
| • Field Size        | 192x16 pixels              |
| • Gray Level        | 256 levels (8 bits/pixel)  |
| • Scanner dimension | 13.6mm * 11.8 mm           |
| • ESD               | ±15kv                      |

### Authentication

Effective fingerprint recognition technology with low power consumption.

- |                               |               |
|-------------------------------|---------------|
| • False Rejection Rate (FRR)  | 1/1,000       |
| • False Acceptance Rate (FAR) | 1/1,000,000   |
| • Scanning Speed              | < 20cm/second |
| • Matching Speed              | < 1 second    |

### Security

- |                |          |
|----------------|----------|
| • AES Key bits | 256 bits |
|----------------|----------|

### Interface

- |                      |                                       |
|----------------------|---------------------------------------|
| • Driver             | No installation of driver is required |
| • Hard disk SPEC     | 2.5", Ultra ATA 66/100/133            |
| • Hardware Interface | USB 2.0 (480Mbit/sec)                 |

### Environmental & Physical

- |                         |                                 |
|-------------------------|---------------------------------|
| • Operating System      | Windows 2000/XP/Vista supported |
| • Power                 | USB bus power                   |
| • Dimension             | 12.5(H) × 7.9(W) × 1.81(D) cm   |
| • Weight                | < 100 g                         |
| • Operating Temperature | 0°C ~ 45°C                      |
| • Operating Humidity    | 0°C ~ 85°C                      |
| • Operating RH under    | 60°C                            |
| • Storage Temperature   | -40°C ~ 70°C                    |
| • Storage Humidity      | 10°C ~ 95°C                     |
| • Storage RH under      | 70°C                            |

### Regulatory

- FCC
- CE
- ROHS



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