



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.

Windows Logon

ThumbMax EC258 Fingerprint HDD provides individual user its own personal information bank, only the authenticated fingerprints allow to active application and computer. The storage of authenticated fingerprints automatically detects all required fields, such as user name and password, and inserts the provided information. To login Windows, retrieve the system, it only need a simple swipe! The storage of authenticated fingerprints automatically detects all required fields, such as user name and password, and inserts the provided information. It brings security, privacy and convenience to a wide range of computer and Internet applications, e-business transactions, and confirming a user's identity prior to network access.

Fingerprint Management

Use fingerprint to capture ID/PW information associated with convenience and security, and there is no need to memorize and worry about your password leaked out or broken by hackers. After fingerprint identification, your user name and password will be automatically shown on the screen. Users will no longer need to memorize their account IDs and passwords

Data Encryption



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

Screen Saver Lock

When the "Screen Saver Lock" activates, only authorized person can unlock the Screen Saver or password. The mean function of "Screen Saver Lock" is to disable the keyboard and the mouse. The users can instantly start its screen saver with fingerprint, no need to set waiting time.

Virtual Drive

With user's fingerprint successfully verified, Windows Explorer will show up a virtual disk drive which was created by SecureLock from the available hard drive space of your PC. The function of the virtual hard drive is exactly the same as normal hard drive. Every byte of data stored into this virtual drive is safely encrypted at the moment it is written. And it becomes decrypted only when the fingerprint was successfully verified. The size of virtual hard drive can be adjusted by user.





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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) | 1/1,000,00 |
| • Scanning Speed | < 20cm/second |
| • Matching Speed | < 1 second |

Security

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

Interface

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|----------------------|---------------------------------------|
| • 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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