



## ThumbMax-HDD EC256

### 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, PCW thought it would be a good idea to implement it in a new external hard drive.

The ThumbMax HD EC256 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 HD model is available from 40 to 80GB, is rigid with Aluminum metal with surface anodizing treatment. ThumbMax HD model is cushioned with fine silicon pads around the corners. Inside the enclosure, extra silicon strips support HDD in absorbing vibrations and shocks. ThumbMax HD model is operated from an AC power mains adapter. 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 HD EC256 is supplied with a protective case, USB cable, mains adapters, and CD-Rom with the software.

#### Security with convenience

This portable storage device has the need for data security. With state-of-the-art live scan chip sensor, only enrolled fingerprints can access the data stored in the ThumbMax HD EC256. In addition, ThumbMax HD EC 256 is embedded with X-Wall hardware encryption technology. Even if someone tries to physically swap the drives and connect to the other computers, the HDD will still be secured.

#### Be Green ! Thermal solution

To ensure product liability, ThumbMax HD EC256 thermal treatment is conducted in power management. Heat is generated while any HDD is actively running. Unlike other brand, ThumbMax HD EC256 power management manages the HDD only at running mode while fingerprint is recognized. Logout of fingerprint, the ThumbMax HD EC256 will automatically suspend the activity of the HDD. This cooling mode increases the lifespan of a HDD. Besides when ThumbMax HD EC256 is running mode, heat is automatically dispensed by its Aluminum enclosure.



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#### Multilingual

ThumbMax EC256 provides 7 languages user interface automatically converting user's operating system in Simplified Chinese, Traditional Chinese, French, German, Spanish, English and Japanese.

#### Windows Logon

ThumbMax HD EC256 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, unlock screen savers, it only need a simple swipe!

#### Data Encryption/Decryption

File & Folder encryption/decryption prevents accidental or corrupt information leakage. When the user wants to encrypt individual files or folders on the hard drive or ThumbMax HD EC256, 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.

#### 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.

#### Mobile My Mail

Insert the mobile device into another computer and you can use Outlook Express that will load your personal account information for you to send and receive new e-mail message.





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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             | Area Semiconductor Sensor |
| • Resolution         | 508 DPI                   |
| • Field Size         | 236X192 pixels            |
| • Gray Level         | 256 levels (8 bits/pixel) |
| • Scanner dimension  | 13.6mm * 11.8 mm          |
| • Allowable Rotation | ± 15°                     |
| • ESD                | 18~20kv                   |

### Authentication

Effective fingerprint recognition technology by a combination of 1:1 and 1:N Matching mechanism. Low power consumption.

- |                               |            |
|-------------------------------|------------|
| • False Rejection Rate (FRR)  | 1/1,000    |
| • False Acceptance Rate (FAR) | 1/1,000,00 |
| • Scanning Speed              | < 1 second |
| • Matching Speed              | < 10ms     |

### Security

Real-time encryption of the entire HDD, including boot sector and operating system. Hard-drive is hidden until upon positive fingerprint authentication for security purpose

- |                    |             |
|--------------------|-------------|
| • Encryption Speed | 1.6Gbit/sec |
| • AES Key bits     | 40~256 bits |

### Interface

- |                      |  |
|----------------------|--|
| • Driver             | No installation of driver is required (except Windows 98). |
| • Hard disk SPEC     | 2.5", Ultra ATA 66/100/133                                 |
| • Hardware Interface | USB 2.0 (480Mbit/sec)                                      |
| • MMI                | 2 DUO-LED'S red/green ,Power on , Access Status            |

### Environmental & Physical

- |                             |                                  |
|-----------------------------|----------------------------------|
| • Operating System          | Windows 98/ ME/XP/2000 supported |
| • Power                     | AC Adapter                       |
| • Dimension                 | 14(H) ×8.8(W) ×2.55(D) cm        |
| • Weight                    | < 120 gm                         |
| • Non-operating Temperature | -40°C ~ 70°C                     |

### Regulatory

- |                  |  |
|------------------|--|
| • NIST Certified | NIST,(National Institute of Standards & Technology, Washington, DC, <a href="http://www.nist.gov">www.nist.gov</a> ) Certified 100% hardware Cipher Engine (i.e. access to data in the hard-disk is protected by encryption technology). |
| • FCC            | FCC Part 15 Class B  |
| • CE             | EN 55022 Class B   |



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