

# FIRMWARE V2.1 README

This document contains information not found in the instruction booklet.  
If the instruction booklet differs with this document, this file takes precedence.

## 1) FIRMPD70.BSC V2.1 makes the following changes to the factory firmware:

- a) Adds Automatic Copy function
- b) Enables 24-bit hardware based ECC copy verification (already available in factory firmware)
- c) Improved folder numbering system, supports custom folder names
- d) Allows usage of fragmented non-contiguous hard disk space
- e) Improved compatibility with Windows Scandisk application
- f) Improved Mac OS 9 compatibility

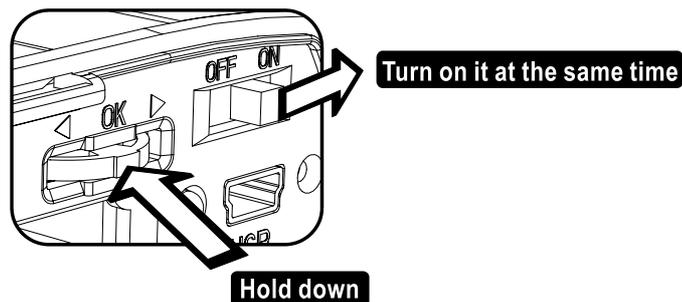
## 2) Upgrading the HD80:

### WARNING

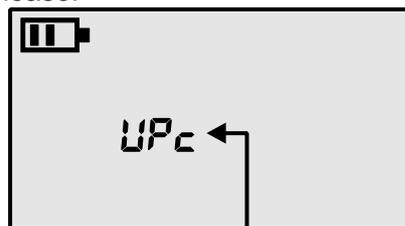
If it is not necessary, we do not recommend you perform the firmware upgrade. The firmware upgrade operation will attempt to rewrite the data in the chip. If this operation is unsuccessful, it may cause the HyperDrive to cease functioning and you may be required to return the unit to your dealer for servicing.

#### **a) The HD80 must be powered by AC adaptor when upgrading.**

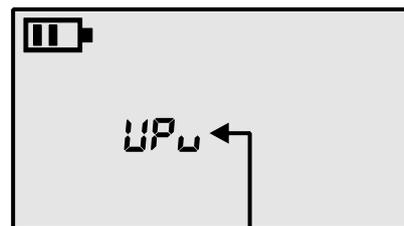
- b) Use any 256MB & above memory card, preferably a card that has been successfully used with the HD80
- c) Copy the firmware upgrade file (FIRMPD70.BSC or FIRMPD70.UMS) to the memory card. Only one firmware update file should be copied onto the memory card at any time.
- d) Ensure that the HD80 is powered by AC adaptor and power is not interrupted during the entire firmware upgrading process
- e) Insert card with the firmware upgrade file into the HD80 memory card slot.
- f) Hold down the multi-function wheel while turning on the HyperDrive (see below).



- g) Continue holding down the multi-function wheel until the HD80 LCD screen displays "Upc" or "Upu", then release.

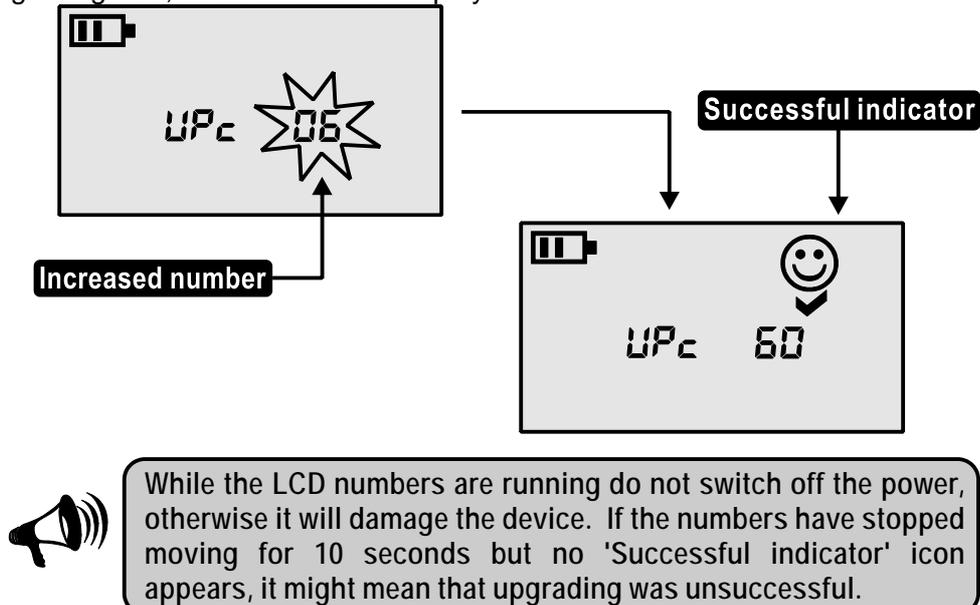


Use 'FIRMPD70. BSC'



Use 'FIRMPD70. UMS'

- h) The HD80 will automatically read the firmware file and upgrade the firmware. While upgrading, the LCD display number will continue to increase until the “Successful indicator” icon appears. If firmware upgrading fails, Error #23 will be displayed.



- i) Remove the memory card and delete the firmware files from the card. Turn off the HD80 and restart it to check that it is operating correctly.

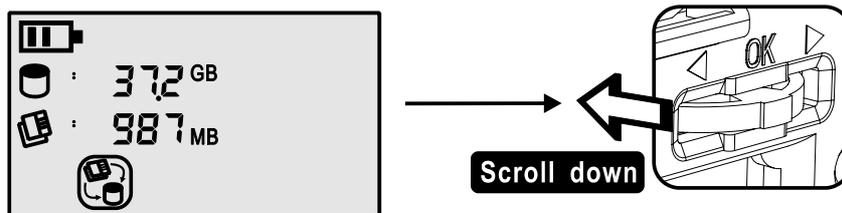
### 3) Automatic Copy function:

Insert the memory card and switch the device on, after about 7 seconds the HD80 will automatically begin the copy operation.

### 4) 24-bit Hardware Based ECC Copy Verification function:

a) To activate the Copy Verification function:

- i) Insert the memory card and switch on the HD80, the LCD will show the hard disk and memory card capacity.
- ii) Move the multi-function wheel left within 7 seconds, as shown below:



The HD80 will start the Copy Verification function and begin to copy the memory card.

b) Verification process:

- i) While copying in verify mode, the LCD will show the copy and verify symbols alternating.
- ii) When the copy symbol is displayed, the HD80 is in copy operation.
- iii) When the verify symbol is displayed, the HD80 is verifying the data copied. Because of the additional time needed for verification, the overall copy speed will be slower than just copying alone.
- iv) After each file is copied, the HD80 will verify it immediately.

c) Verification result:

- i) If the verification operation did not detect any errors, then HD80 will automatically copy the next file.
- ii) If the verification operation detects an error, then HD80 will automatically stop and display Error #30. To ignore the error and continue copying, move the multi-function wheel left within 30 seconds.

## 5) Enhanced folder numbering system:

### a) General description:

The custom folder numbering system allows users to organize pictures according to user-defined custom folders. For example, you may store China travel pictures in a folder named CHINxxxx folder, and store US travel pictures in a folder named USAMxxxx.

In order to avoid confusion the system increases folder serial numbers in a fixed ascending order. Hence even if you delete an earlier folder, the next copy session will not re-use a serial number that has already been allocated.

### b) Enhanced folder numbering system:

To use the enhanced folder numbering system, create a text file in the hard disk root folder named "CARDNAME.TXT ". This document must be a plain text document. CARDNAME.TXT document can only have a single line with a total of 8 characters. These 8 characters must strictly follow the convention below:

|                                  |   |   |   |                                    |   |   |   |
|----------------------------------|---|---|---|------------------------------------|---|---|---|
| A                                | A | A | A | 0                                  | 0 | 0 | 0 |
| Folder name<br>4 English capital |   |   |   | Folder serial number<br>4 numerals |   |   |   |

For example before you leave for travel in China, create the CARDNAME.TXT file and input the desired folder name such as CHIN0000. Subsequent copy sessions will be named: CHIN0000.Xxx, CHIN0001.Xxx, CHIN0002.Xxx... and so on.

Before leaving for travel to the US, edit the contents of CARDNAME.TXT to USAM1000. Subsequent copy sessions will be named: USAM1000.Xxx, USAM1001.Xxx, USAM1002.Xxx... and so on.

### c) Preventing folder repetition:

To prevent creating redundant folders if folder serial numbers are accidentally repeated, the HD80 sets a 3 digit number for the folder extension. This number is allocated according to the folder's position in the root directory and will not be duplicated unless 999 files or folders are exceeded in the root directory.

For example, "SANH0000" is set as the base name.

1. After transferring 10 cards, it creates the following folders:

SANH0000.000  
SANH0001.001  
SANH0002.002  
...  
SANH0008.008  
SANH0009.009

2. SANH0002.002 and SANH0004.004 are then deleted

3. And another 2 memory cards are copied after that. It should create:

SANH0010.002  
SANH0011.004

4. The serial number in CARDNAME.TXT is then reset to "SANH0000" and another 3 cards are copied. It should create:

SANH0000.010  
SANH0001.011  
SANH0002.012

5. At the end, these are the folders found on the HD80 (new folders in bold):

SANH0000.000  
**SANH0000.010**  
SANH0001.001  
**SANH0001.011**  
**SANH0002.012**  
SANH0003.003  
SANH0005.005  
SANH0006.006  
SANH0007.007  
SANH0008.008  
SANH0009.009  
**SANH0010.002**  
**SANH0011.004**