

# NE×TO DI VIDEO STORAGE Doc

Portable Storage for Professional  
Video Workflow



- User Guide
- Version 5/16

NextoDI Co., Ltd.  
[www.nextodi.com](http://www.nextodi.com)

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Thank you for purchasing the NEXTO VIDEO STORAGE Doc (NVS2801).

Please read this manual before using the Product. Follow operating instructions carefully to avoid damage on the product, or personal injury. This guide assumes that your NVS2801 unit contains a properly formatted hard drive and a charged battery. If this is not the case, please refer to the User Manual for instructions on formatting a hard drive and charging the battery.

#### Important safety notice

- The color or shape of the product you purchased may be a rather different from the representative image.
- NextoDI Co., Ltd. reserves the right to make improvements and/ or changes to the product and programs described in this User's Guide at any time without notice.
- Do not drop, bump, shock, or expose the NVS2801 to vibration during video preview or while data is being transferred.
- Do not use near open flames (candles, stoves, grills, fires) or sparks (fireworks, welding torches).
- NextoDI does not offer and guarantee a service for data loss.  
For your important data, the additional separate backup is recommended.  
For more secure data management, backup your data to an extra hard drive periodically. Under no conditions is NextoDI Co., Ltd. liable for loss of, or damage to, a computer; or loss of, or damage to, a program, records, or data; or any consequential or incidental damages.
- This product can be used for business purpose as registered by EMI compliance.

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Origin	Korea
Manufacture	NextoDI Co., Ltd.

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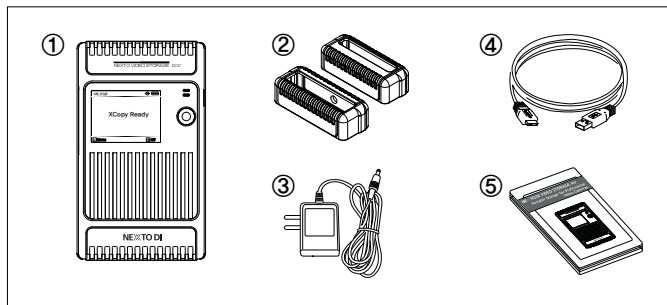
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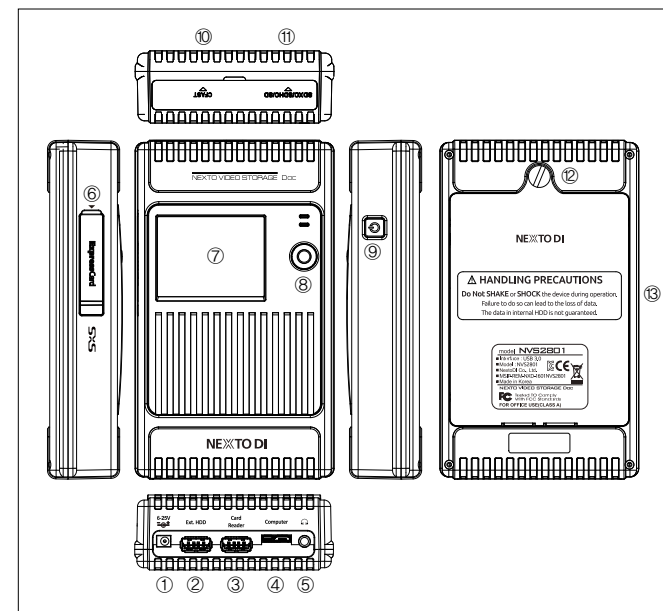
## 1. Contents of the NEXTO VIDEO STORAGE Doc

### 1. Main Package



- ① Main storage unit :  
Depending on which product you have purchased you may have an internal hard drive or SSD. If you purchased a model without an internal hard drive please refer to "6. INSTALLATION OF HARD DRIVE (OR SSD)" article to install an internal drive on your own in order to make it useable. (Page 9)
- ② Shock protective rubber jacket:  
Put on both side of the main body.
- ③ AC power adapter (12V/2A):  
This is used to charge the internal battery and provide operating power while NVS2801 is in use.
- ④ USB 3.0 cable:  
This is used to connect NVS2801 to the computer.
- ⑤ User guide

## 2. Device Diagram



- ① DC IN slot for AC power adapter unit (6~25V, 24W)  
Plug spec:  $\text{---}\oplus$  Ext. 3.5Φ, Int. 1.3Φ
- ② USB external drive port
- ③ USB card reader port
- ④ Computer interface port
- ⑤ Audio(Stereo) jack
- ⑥ SxS slot
- ⑦ LCD Display
- ⑧ Control key
- ⑨ Power key
- ⑩ CFast slot
- ⑪ SDHC/SDXC slot
- ⑫ Drive holding screw
- ⑬ Aluminum back cover

## 3. Product Description

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NEXTO VIDEO STORAGE Doc (hereinafter NVS2801) provides following functions.

### 3.1. Memory card backup and verify

NVS2801 contains a 2.5" SATA hard drive or SSD (Solid State Disk) and a Li-Poly rechargeable battery. You can copy SxS, P2/P2E (using a P2 card adapter), XQD (using a XQD card adapter), CF (using a CF card adapter) through the SxS slot on the left side of the device. You can copy CFast through the CFast slot and SDHC/SDXC through the SD slot on the top of the device. Also, there is a built-in USB card reader port which enables other memory cards to be backed up.

It can copy the contents of a memory card to the internal hard drive without a computer—even in the field where no electric power source is available. For complete backup information, see chapter 10 and chapter 11 of this manual. (Page 16, 17)

### 3.2. Show video & picture

It includes video preview feature which allows you to preview video from NVS2801 supported memory cards. For details on Show Video, see chapter 12. (Page 20)

### 3.3. Simultaneously backup to two drives (MCOPY)

NVS2801 performs backup to two drives through a single operation with creating two copies to internal hard drive (or SSD) and one external USB 3.0 drive simultaneously. For details see chapter 13 and chapter 14. (Page 24, 25)

### 3.4. Copy all files to another drive (SYNC)

NVS2801 copies all files from an internal drive (or SSD) to another USB external drive. Only those files and folders that have added from the last sync will be copied. For details on SYNC, see chapter 13 and see chapter 15. (Page 24, 27)

### 3.5. Changeable internal drive

It is possible for users to change the internal hard drive (or SSD). NVS2801 offers many features such as capacity check, self-test, format and etc for its internal drive. Please refer to "6. INSTALLATION OF HARD DRIVE (OR SSD)" and "9. FORMATTING THE HARD DRIVE (OR SSD)" and "17. HARD DRIVE (OR SSD) MANAGEMENT" for detailed information. (Page 9, 14, 32)

### 3.6. Computer connection

NVS2801 can connect to a corresponding port on a computer in order to copy data. For computer connections, see chapter 16. (Page 29)

### 3.7. Easy to use operating buttons

All functions can be operated using of 2 buttons – Power, Control, the operative status is displayed on LCD. See chapter 8 for the basic functions and operations such as power on & off and operating buttons. (Page 11)

### 3.8. Internal rechargeable battery

The NVS2801 contains an internal Li-Poly battery that enables the NVS2801 to be used without the power adapter. The power adapter is used to charge the internal Li-Poly battery. For details on charging the internal battery, see chapter 7. (Page 10)

### 3.9. Changing the Folder Name

When the NVS2801 backs up a memory card, the user can choose a folder name beginning with A1~J9 (i.e., A1160301.000). The user can also choose a date-based folder name (i.e., 20160301.000.123456). For details, see chapter 18. (Page 38)

### 3.10. Motion Sensor

If the internal storage of the NVS2801 is an hard drive, caution must be taken to avoid any vibration, including: jarring, bumping, shocking, or dropping the unit while in use. Exposure to such vibration could damage the data on the hard drive. When shaking is detected, the NVS2801 warns the user via an LCD indicator and beeping sound. The NVS2801 contains a free-fall sensor that will cut off power—in order to protect the internal data—should the unit be dropped. For details, see chapter 18. (Page 38)

### 3.11. LOG File

NVS2801 generates a LOG file (CRC-protected) to keep track of usage by the user and then saves it on each attached drive (internal drive & USB external drive). The log file provides information about XCopy, MCopy, Sync, computer connectivity etc. For details on keeping track of usage with LOG file, see chapter 16. (Page 30)

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### 3.12. Firmware upgrade

In the case of any additional improved or new functions, new firmware will be updated. For details on updates of F/W, see chapter 18. (Page 39)

### 3.13. Language selection

The NVS2801 supports various languages. You can select a language from the menu of the NVS2801. For details, see chapter 18. (Page 39)

## 4. Symbols Used in This Document

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### Warning

The flash icon in a triangle indicates warning for personal injury hazards such as electric shock.



### Caution

An exclamation mark in a triangle indicates important instructions which must be observed.



### Reference

An introduction of useful tips using the product.

## 5. Safety Instructions

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### Caution

- In case of any damage due to failure to observe these operating instructions, the warranty will be voided. NextoDI does not assume liability for consequential damages. Nor do we assume liability for damage to property or personal injury caused by improper use or failure to observe the safety instructions. The warranty would be voided in any such case.  
The following safety instructions and warnings are not only to protect you, but also to protect the device. Please read the following warnings:



### Warning

- Unauthorized conversion and/or modification of the product is forbidden for safety reasons.
- Never open the product housing. This device is not user serviceable.
- Damage to the Li-Poly rechargeable battery may result in explosion or fire. Maintenance or repairs may only be carried out by an authorized repair center.
- The AC power adapter unit is intended for use in dry conditions to avoid electric shock.



### Warning

- The case of the hard disk must not get damp or wet. Protect the device from humidity and water, from sun, excessive heat (>113°F) or cold (<32°F), dust and dirt.
- When the product is brought from a cold place into a warm room, condensation may form. This could damage the product. Always let the product get to room temperature before use or before connecting the AC power adapter unit. This could take several hours.
- Do not use in tropical climate conditions.
- The AC power adapter unit complies with safety class II. As a voltage source only a proper power socket of the public power supply system may be used. Note the input voltage/frequency imprinted on the AC adapter. It must correspond to the voltage/frequency of the power outlet. The AC power adapter is equipped with an input voltage range of 100 ~ 240V, 50/60Hz.
- The product is not a toy and should be kept out of reach of children.
- Do not place liquid near the product. Liquid could get inside the housing and cause a fire or electric shock. In case of fire damage or short circuit, de-energize the respective socket (e.g. turn off circuit breaker) and only then pull the AC power adapter unit from the socket.
- Never touch the AC power adapter unit when your hands are damp or wet.
- In industrial facilities, safety regulations for electrical equipment and facilities must be observed. If the product is used at schools, training facilities, or do-it-yourself/hobby shops, it should not be handled unless supervised by trained, responsible personnel.
- Do not drop the NVS2801 device.



### Caution

- The product must not get damp or wet. This product is not a toy. It contains fragile and swallow able glass parts, small parts, and a rechargeable battery. Any use other than that described above may damage the product. Read these operating instructions thoroughly and carefully. The instructions contain important information for installation, operation, and handling. Take note of all safety instructions.



### Warning

- A "Li-Poly" (lithium-polymer) rechargeable battery is integrated into the NVS2801. This rechargeable battery does not have the so-called "memory effect" —the rechargeable battery can be charged whenever you want. Furthermore, it has higher energy content than conventional NiCd and NiMH rechargeable batteries. Note these important instructions when handling the Li-Poly rechargeable battery. The rechargeable battery can be recharged 400 times. If the battery operation time gets shorter, it may be time to replace the battery. Consult your authorized NEXTODI dealer to replace the battery.

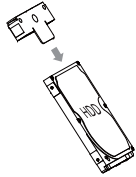


### Caution

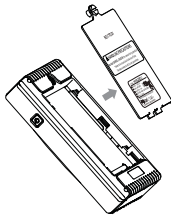
- Never damage the rechargeable battery--do not remove it from the NVS2801. Consult the chapter on "Battery Disposal". Damaging the wrapping of the rechargeable battery might cause an explosion or fire.
- Never short circuit the contacts of the rechargeable battery. Never touch the connections or electrical components inside the NVS2801 with metal objects.
- Charge the rechargeable battery regularly, even if you do not use the product. The NVS2801 needs some "current" (a small quantity) at all times. Due to the Li-Poly rechargeable battery technology, it is not necessary to discharge the battery before recharging. Recharge the battery completely, about once every three month, or the battery will go bad.

## 6. Installation of Hard Drive (or SSD)

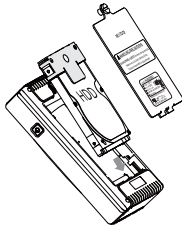
You can install the hard drive (or SSD) directly on your own. The NVS2801 accepts 2.5-inch SATA hard drive (or SSD) used for laptop computer. There is no limitation on the capacity of hard drive (or SSD), but the thickness of internal drive should be less than 9.5mm.



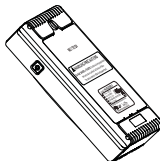
Put the protection rubber (Filler) on hard drive (or SSD).



Take off the aluminum back cover.  
(The case is not screwed when you purchase.)



Slide in the drive to the internal drive slot of NVS2801.  
To put it easily, recline the hard drive (or SSD) and push it inside as deeply as possible.



Install the aluminum back cover to the NVS2801 and Use a coin to tighten the screws on the aluminum back cover.

## 7. Charging the Rechargeable Battery

The battery can be charged using the AC power adapter unit delivered with this product.

- Turn off the NVS2801
- Connect the charger's wall plug to the NVS2801's "DC IN" slot
- Plug the AC power adapter unit into a wall socket
- The LED above the control key shows red when charging
- When the battery is charged, the red LED turns off.
- When error occurs during charging with LED blinking, unplug the AC adapter unit and plug it in again.

Users can also charge the NVS2801 via the USB3.0 cable. With a completely empty rechargeable battery, the charging procedure lasts approximately 5 hours using the AC power adapter. With the USB 3.0 cable, it takes about 9 hours to charge completely.



### Reference

- You must turn off the NVS2801 in order to charge the unit.
- The NVS2801 can be charged via USB without using the AC power adapter included in the box. A high powered USB connection is needed, i.e. a USB connection with its own power supply, such as the USB port of a computer or a USB hub with a power unit.
- Always keep the battery charged one or more of the gauge remaining on LCD. If the battery is completely discharged, it shortens the batteries life.
- If the NVS2801's battery is completely discharged, the performance of the battery may be degraded. It is recommended that the NVS2801's battery be recharged before the battery gauge reaches the empty level.

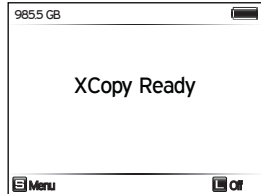


## 8. NVS2801 Interface

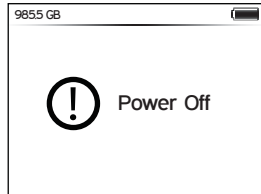
### 8.1. Turning the NVS2801 on/off



Press the power key on the right side of the device for a few seconds in order to turn the NVS2801 on. The power up logo and firmware version will be shown on the LCD. When you see the logo on the LCD screen, release the button. Otherwise, the NVS2801 will automatically power off.



After checking the system, the NVS2801 goes into [XCopy ready] mode. You can copy a memory card in this mode.






The NVS2801 will automatically turn off when not in use. The user can choose the amount of idle time (e.g. 30/40/50/60/90 seconds) prior to an automatic power off. The NVS2801 can be powered off by pressing down on the power key for more than 1 second. For details on Setting Auto Power Off, see chapter 18. (Page 37)

#### Reference

- The NVS2801 can be off via the power key by pressing for more than 7 seconds when frozen.

### 8.2. Key operation

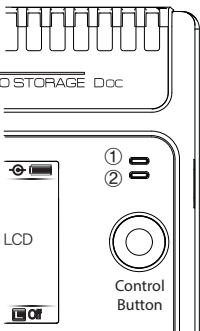
The NVS2801 is operated by a single control key which can be used in five different ways. The display shows you the "S" (Short) or "L" (Long) symbol as a means to invoke the desired function.

Symbols	Operation
 (Short Press)	Press once and release immediately.
 (Long Press)	Press and hold the key for more than one second.
	Push the key in the appropriate direction. Up/down/left/right movements are supported. Pushing and Holding the key in the up or down direction, results in repeated executions of the operation.

#### Reference

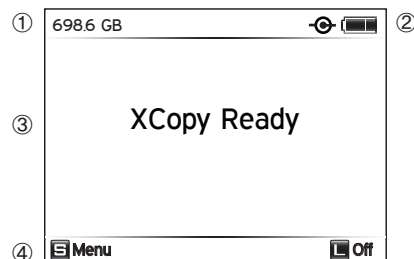
- If the control key is not working: If the control key is malfunctioning, the menu sub-functions cannot be used. However, functions such as copy and verify can still be activated through the power key. The user could thus rely on the power key—instead of the control key—to select the desired function from the menu.

### 8.3. The LED indicator



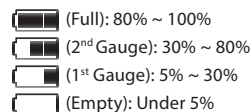
- ① Red indicates battery is being charged. Green indicates "power on."
- ② Blinking red indicates that the key is pressed or a data transfer is occurring.

## 8.4. The LCD Display



① Remaining capacity of the internal hard drive. A capacity check will be performed automatically during power on. If an external hard drive is connected to the NVS2801, the capacity of external hard drive will be displayed next to the capacity of the internal hard drive.

② Remaining capacity of the rechargeable battery / External power connection display. The battery capacity is displayed four ways: (3→2→1→empty) by the battery gauge.



### Reference

- External Power Connection Display :  
When the AC power adapter, the car charger or the external battery has been connected, a round mark is shown on the left side of the battery capacity display.
- ③ Current status of the device.
- ④ Available functions for the current screen. The display varies depending on the function in use.

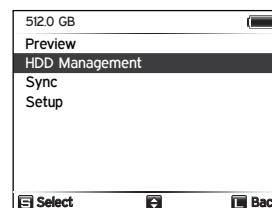
## 9. Formatting the Hard Drive (or SSD)

The hard drive (or SSD) installed in NVS2801 requires to be self formatted. NVS2801 only supports the self-formatted file system by its own hard drive management feature.

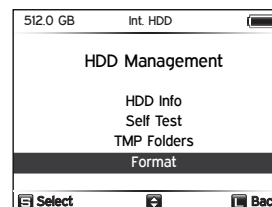


### Caution

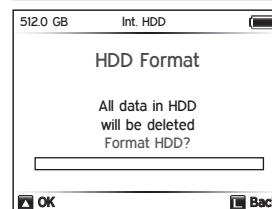
- Please back up all data to an extra hard drive before formatting the NVS2801's internal hard drive or USB external hard drive.
- The NVS2801 can only work with one partition in the file format "exFAT".



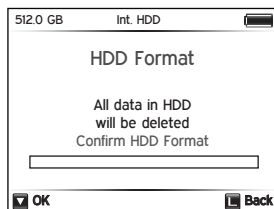
Press the control key once at the [XCopy Ready] mode to get to the menu ("S-Menu"). Move the highlighted cursor to the [HDD Management] menu by pushing the control key downward. Press the control key once to select [HDD Management].



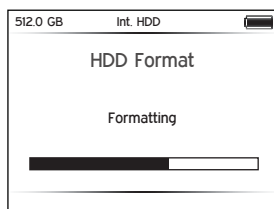
Move the highlighted cursor to the [Format] menu option with the control key. Press the control key once to select [Format].



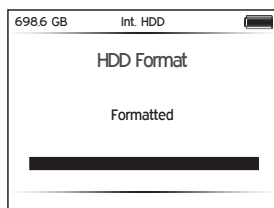
Confirm the selection by pushing the control key upward. You can cancel the operation by pressing and holding the control key or power key.



Then you can repartition and reformat the hard drive; to confirm, push the control key downward. All data on the hard drive (or SSD) will be lost.



The NVS2801 indicates the progress of the formatting operation.

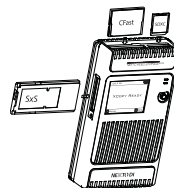


When the formatting is completed you are ready to copy data to the hard drive (or SSD).

## 10. Connecting the Memory Card

Many types of memory cards can be backed up on NVS2801 either by connecting the cards directly into the applicable slots or by using USB card reader through the USB3.0 card reader port on the bottom side of NVS2801. Please refer to "11. DATA BACKUP (COPY) AND VERIFY" article for more details. (Page 17)

### 10.1. Connecting a memory card into the built-in slot



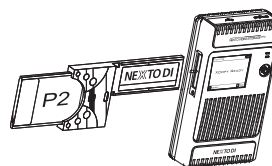
CFast and/or SDHC/SDXC card can be inserted directly into the slots located at the top of the device.

SxS card can be inserted directly into the slot located at the left side of this device.



- Do not connect more than one memory card to the NVS2801. Only the first one connected will be detected.
- Insert the memory card carefully. The pins may bend if you insert the memory card incorrectly.

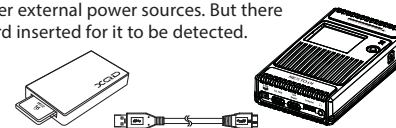
### 10.2. Connecting the memory card using the memory card adaptor



Connect one of the P2/P2E, XQD, CF cards into the applicable memory card adaptor (sold separately) and then connect it to the SxS slot located on the left side of the device.

### 10.3. Connecting the memory card by using USB card reader

Connect the USB card reader that supports memory cards such as XQD, CF to the "Card reader" slot located at the bottom of the device. USB card reader is powered by the internal battery of NVS2801 so that it is possible to connect without having a separate adaptor or any other external power sources. But there must be only one memory card inserted for it to be detected.



# 11. Data Backup (Copy) and Verify

When you insert the memory card to NVS2801, it can detect and back up the contents of the memory card automatically. Please refer to “10. Connecting the Memory Card” article for more details on memory card detection. (Page 16)

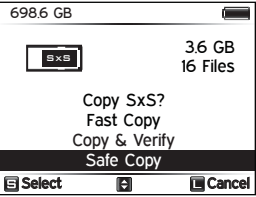
## 11.1. Parsing the memory card



The data on the memory card is compared with the data stored on the NVS2801 to determine whether it is new data or already stored data. According to the comparison result, the NVS2801 operates as follows:

## 11.2. Copy

### (1) If the memory card contains new data



When a new memory card is inserted, NVS2801 shows three kinds of copy menu as the left picture. Choose the copy you want. Three options are available for copying using the up/down key selection.

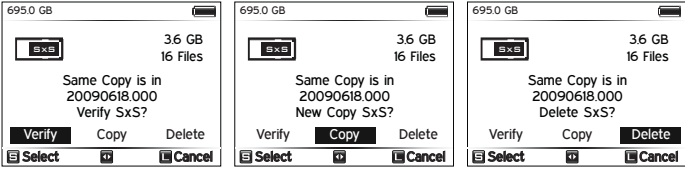
To Copy, press the control key briefly.

To Cancel the copy, press the control key for more than 1 second.

Fast Copy	Make a new folder on the hard drive (or SSD) and copy all the memory card data into the folder.
Copy & Verify	Same as [Fast Copy] but after copying, the data on the memory card is compared with the copied data in the hard drive (or SSD). Each bit is verified.
Safe Copy	Before copying data, the hard drive (or SSD) verifies that its hard drive area is safe. If a bad sector is detected, search for a new, safe area—then copying [Fast Copy] will begin.

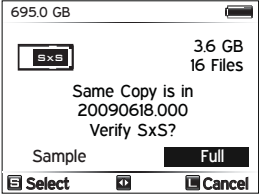
### (2) Memory card with copied data

Each time you put in the memory card, NVS2801 parse the folder structure then compare it with the stored backup folders. If the memory card was copied before, and not modified since, then you can choose to [Verify] or [Copy] or [Delete].



Verify	Compare data stored in the hard drive to the data stored in the memory card.
Copy	Copy again. Make a new folder and copy all of the data in the memory card to the hard drive.
Delete	Delete the data on the memory card so that it can be reused.

## 11.3. Verify



When you re-insert a memory card that has been already backed up once, the name of the folder saved in the hard drive will appear on display and you are able to choose one of the two verification options using left/right key selection.

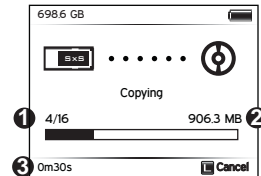
For verification, press the control key briefly.

Cancel verification, press the control key for more than 1 seconds.

Sample verify	Compare first 1MByte of each file.
Full verify	All the data is compared.

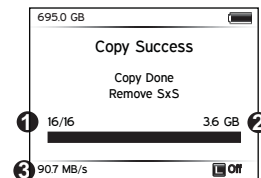
#### 11.4. Status

- ① Total number of files in the memory card versus the number of copied files.
- ② Amount of data copied.
- ③ Elapsed time.



#### 11.5. Indication of Results

- ① Total number of files in the memory card versus the number of copied files.
- ② Amount of data copied.
- ③ Copy speed in (MB/s).



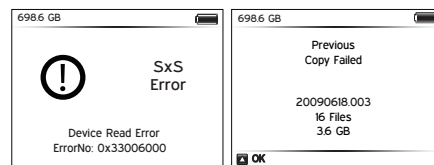
#### Reference

- Remove the memory card to return to the initial display.
- If you don't remove the memory card, the NVS2801 will automatically turn off within user set-up time (e.g., 50 seconds) to preserve battery life.
- For "The Location of Stored Data" and "The Name of Back up Folder", please refer to Chapter16. (Page 29)

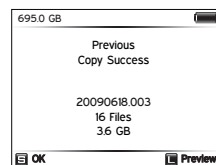
#### 11.6. Error Display

When the error occurs during the backup, the error message is displayed and NVS2801 will automatically turn off. For the reminding of user, the NVS2801 displays the previous operational status at the next power up. The user will then know whether the last backup was successful. If the previous operation was failed, please press the button upwards once. If the previous operation was successful, press the button shortly to bring the main screen (Xcopy/Mcopy ready) or press the button longer to bring the video preview screen.

[Display status after a failed task]



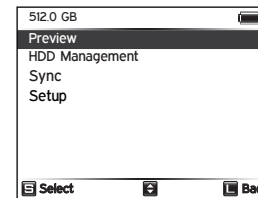
[Display status after a successful task]



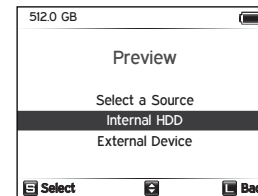
## 12. Video/Photo Preview

You can check the contents stored in internal hard drive (or SSD) or external drive or memory card with the function of preview.

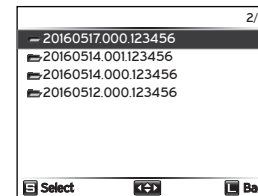
### 12.1. Browse Folders



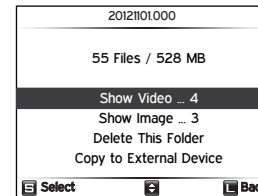
Press the control key once at the "XCopy Ready" mode to activate the menu. Press the control key and select "Preview".



Move the control key up or down to choose either the internal hard drive (or SSD) or external device to view your backup folder and press the button shortly to select a drive.



The NVS2801 will display the contents of the backup folder in date order. The most recent folder is shown first. After you select a folder, the NVS2801 will display a brief list of the contents as shown in the figure below. Please select a backup folder.

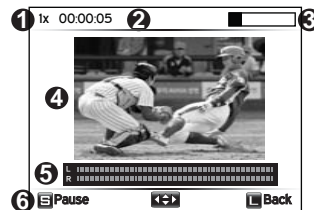


Backup contents will be shown on display as the picture on the left. Selected folder information and menu will appear on display. Move the button up and down to select the menu you want and press the button shortly.

## 12.2. Show Video



If you press “Show Video”, thumbnails of the video are displayed as the example on the left. Unsupported video files are shown with an [X] mark. Video clips are selected for preview by using an up/down/left/right push of the control key. Press the control key briefly to select a clip.



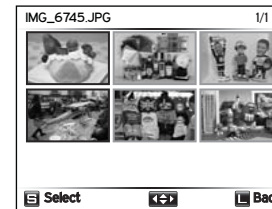
The NVS2801 will show a preview of the video file at reduced resolution. Moreover, the NVS2801 will play audio—from supported formats—via an audio jack. The user can select play/pause by pressing the control key. The user can also adjust the preview speed by pushing the control key to the left/right and the audio volume by pushing the control key up/down.

- ① Preview speed
- ② Elapsed time
- ③ Progress of preview in %
- ④ Preview video
- ⑤ Audio bar
- ⑥ Selectable command

### Reference

- See <http://www.nextodi.com> for supported preview formats.
- The preview of the NVS2801 is a “best effort” preview. Various preview speeds, ranging from 1X to 64X, are supported.
- Some audio formats may not be supported by the NVS2801.

## 12.3. Image Preview



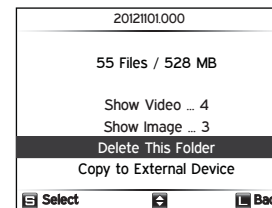
If you press “Show Image”, thumbnails of the image are displayed as the example on the left. Unsupported image files are shown with an [X] mark. Image clips are selected for preview by using an up/down/left/right push of the control key. Press the control key briefly to select a clip.



If you select an image, the NVS2801 shows the larger one. A user can control the “left/right” button to preview the next image or can short press the key to preview in slide show mode.

- ① File extension
- ② Resolution of images
- ③ Preview Images
- ④ Selectable command

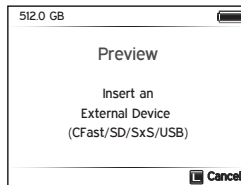
## 12.4. Delete the backup data



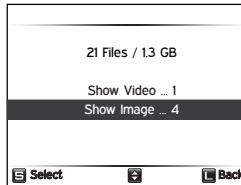
You can delete the folder you select. Be careful. Deleted folders cannot be restored. Move the button up or down to choose the “Delete This Folder” option and press the button shortly.

### 12.5. Preview from an external device

The NVS2801 supports the preview of video files and the playing of audio files stored on a USB external drive. In addition, the NVS2801 supports the preview of video files that are stored on memory cards such as: SxS, P2/P2E, CFast, XQD, CF and SDHC/SDXC. Please refer to “10. Connecting a memory card” and “13. Using a USB external drive” articles for more details. (Page 16, 24)

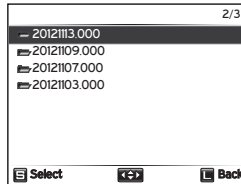


It will display a message to connect an external device. Now you can connect an external USB hard drive to play a video or insert a memory card directly into the slot or connect memory card adaptor/USB card reader.



#### (1) When inserting a memory card

If a memory card contains video or image files — and is inserted into the NVS2801 — information about the video or image files will be displayed.



#### (2) When connecting an external USB drive

If an external USB hard drive is connected, the NVS2801 will detect and analyze the backup folders. The NVS2801 will then display the backup folders as in the figure. The rest of the operations are the same as previewing from the internal hard drive.



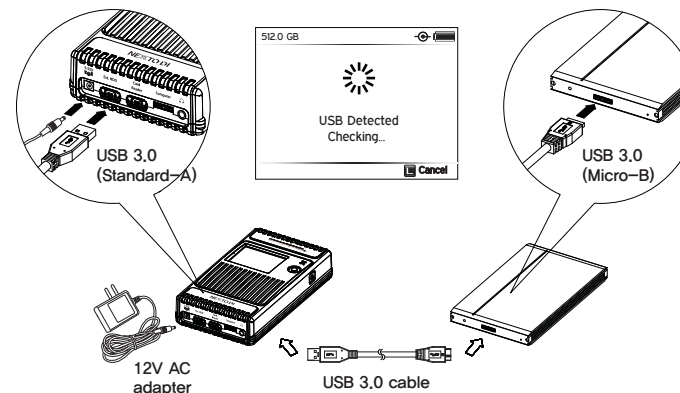
If you select “Back” by pressing and holding the control key, then a “Remove USB” message will appear on the LCD display. Once the cable or memory card has been removed, you will automatically be returned to the main menu.

## 13. Using a USB external drive

NVS2801 can be connected to USB external drive through USB 3.0 interface (Ext. HDD slot) so that it is possible to use the function of copy and SYNC in external drive.

The NVS2801 allows a user to copy a memory card to both the internal hard drive and to a USB external drive at the same time, making two copies of data in a single operation.

The NVS2801 provides “Multi-copy” and “Sync” functions to make backup more reliable. Connect a USB external drive using the supplied USB 3.0 micro-B cable during “XCopy ready” mode. Connect the larger plug to the USB 3.0 port (Ext HDD port) of the NVS2801. The NVS2801 will detect the device and check the USB external drive.



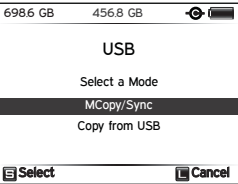
### Reference

- Any USB external hard drive(including 4K sector drive) is supported.
- To use USB external drive, NVS2801 must be connected to an external power source.
- 3.5-inch USB external drive must have its own power connected to a power source.

14. Making Two Copies in A Single Backup (MCopy)

Copying a memory card to both the internal hard drive and a USB external drive at the same time makes two copies of data in a single operation. The “MCopy” function of the NVS2801 makes backup more reliable. Please refer to “13. Using a USB external drive” article for more details on USB external drive connection. (Page 24)

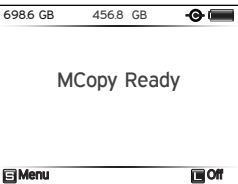
14.1. Detecting the USB external drive



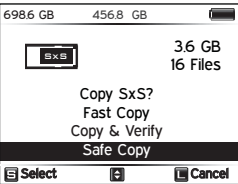
If the proper external USB hard drive is connected, the NVS2801 shows “Multi-Copy” mode. (If the external USB hard drive connects before the power is on, the NVS2801 will go directly into “Multi-Copy” mode)

MCopy/Sync	Select the “Mcopy” mode. It copies the memory card to the internal drive and USB external drive at the same time.
Copy from USB	It copies the contents of the USB external drive to the internal drive.

14.2. Selecting “MCopy” mode

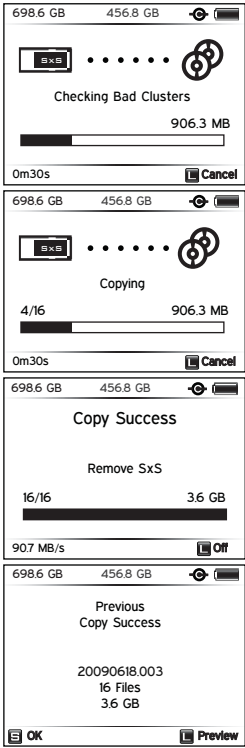


The remaining operation is the same as the “XCopy ready” mode. This mode can be exited by holding and pressing the key or by removing the USB cable from the NVS2801.



Insert the memory card when you are in the “MCopy ready” mode. The NVS2801 detects/ parses the contents of the memory card and asks you to confirm the mode of copy. Three options are available as in the normal XCopy mode(Fast Copy, Copy & Verify, Safe Copy). For details, see chapter 11. (Page 17)

- To Copy, press the control key briefly.
- To Cancel the copy, press the control key for more than 1 second.



When Multi-Copy is in progress, do not remove the memory card or disconnect the USB external drive.

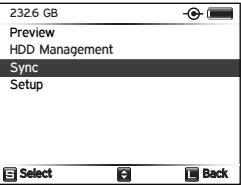
Multi-Copy completed. Remove the memory card to return to the initial display. If you do not remove the memory card, the NVS2801 will automatically turn off in order to preserve battery life.

If an error occurs during backup, the error message will be displayed and the NVS2801 will automatically turn off. In order to remind the user, the NVS2801 displays the previous backup status during the next power on. The user will then know whether the last backup was successful.



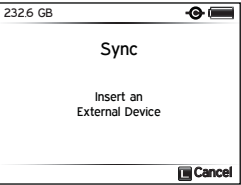
# 15. Making A Secondary Copy (Sync)

The “Sync” function synchronizes data between the [NvsDoc] folder of the NVS2801 and the [NvsDoc] folder of a USB external drive connected to the “Ext. HDD” connector via the USB 3.0 cable. This function compares the folders stored in the [NvsDoc] folder of the NVS2801 with the [NvsDoc] folder of an USB external drive. A new folder can only be copied to the USB external drive if it resides in the NvsDoc folder of the NVS2801 unit—but not in the USB external drive.

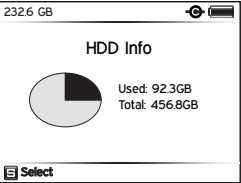


Move to “SYNC” on the main menu and select it.

## (1) Selecting “SYNC” from the menu



Connect the USB external drive to the [Ext. HDD] port of the NVS2801 as shown in chapter 13. (Page 24)



If the USB external drive is successfully detected, it will show the details of the drive as the picture shown on the left.

## (2) Selecting “SYNC” from Mcopy ready mode

Mcopy ready mode means the USB external drive has been connected already, so just selecting SYNC from the menu then NVS2801 shows SYNC mode directly as below.

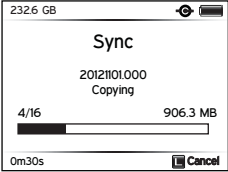
## (3) Sync function



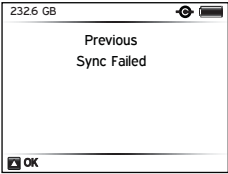
If there isn't any problem with the connected USB external drive, it will show two copy options as the picture show on the left. Move the button up or down to choose the copy option you prefer.

- S** Press the button shortly to perform the synchronizing process.
- L** Press the button for longer than one second to cancel the synchronizing process and go back to the menu screen.

Fast Copy	Duplicates new folder to external hard drive
Safe Copy	Before duplication, the NVS2801 verifies that the copy area of the USB external drive is safe. If the copy area is not safe, the NVS2801 will automatically search for a new safe area and copy to that area.



All of the data from the backup folder of the internal drive would be copied onto the USB external drive. However, the data from the USB external drive would not be copied onto the NVS2801's internal drive.



If an error occurs during the “Sync” function, the NVS2801 will automatically shut down and display an error message at the next power up-- as shown in the figure. Press the control key upwards to go back to the OK main menu.

## Reference

- If an error occurs during the “Sync” function, the NVS2801 will automatically shut down and display an error message at the next power up.
- If you don't make any operation after the completion of backup, the power is turned off automatically.
- In case of the NVS2801 is automatically turned off, it displays the previous operational status at the next power up whether the last backup was successful.

## 16. Using the NVS2801 as an external drive

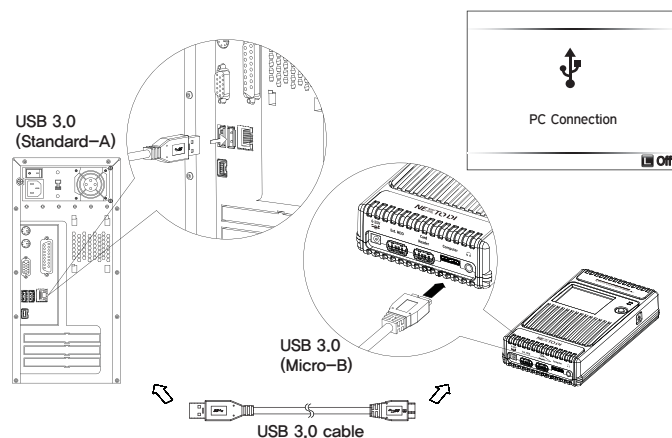
The NVS2801 can be connected to your computer for use as an external hard drive.

### Reference

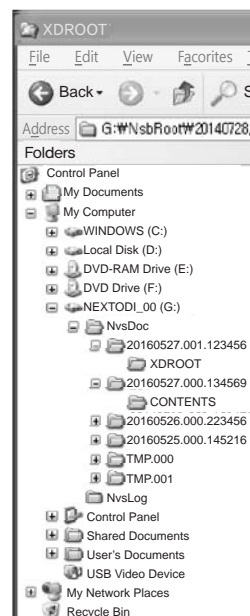
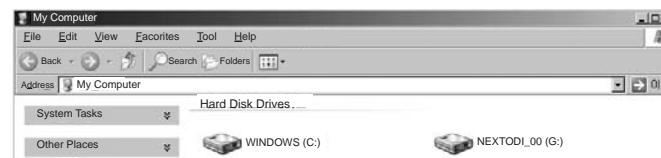
- Windows 10 / 8 / 7 / VISTA(Service Pack 1) and MAC OS 10.6.6 and Linux 2.4.18 and later can fully access exFAT file systems.
- Users of Windows XP must have Service Pack 2 or later and install an update to support exFAT.
- The NVS2801 cannot be read by any version of Windows prior to Windows XP (Service Pack 1).
- A computer can only recognize the NVS2801. A computer cannot recognize a USB external drive or any memory cards that are connected to the NVS2801. Thus, the NVS2801 cannot be used as a memory card reader.
- If connecting the NVS2801 to computer via USB, use the back slot of the computer. The front slot might not be able to process the high speed signal.

### 16.1. Connection to computer

- (1) Turn your computer on. Wait until the operating system has completely booted.
- (2) Turn the NVS2801 on.
- (3) Connect the NVS2801 "COMPUTER (USB 3.0 micro-B)" slot via the USB cable with a free USB 3.0 (Standard-A) port on your computer. A USB 2.0 port can also be used.
- (4) Check the "PC Connection" on the NVS2801's LCD display.



### 16.2. Browsing the contents of your hard drive



- Back up data is stored in the "NvsDoc" and subfolders is created automatically. The log file is stored in the subfolder of "NvsLog".
- The name of the folder is determined by the shooting date. For example, 20160301.000.123456 means the last footage recorded on March 1, 2016. (If you copy multiple items on a single day, the last three digits will be changed to indicate the download sequence – "000, 001, 002, 003, etc.)
- The date code comes from the video cameras. If the date on the video camera is incorrect, the folder name of NVS2801 will also be incorrect.
- For each memory card backup, NVS2801 creates a date-coded folder automatically. Also, it stores all of the contents of the memory card into the date-coded folder.
- The Log file is stored inside [NvsLog] folder. The NSB-25 generates a LOG file (CRC-protected) to keep track of usage by the user and then saves it on each drive attached to it. The Log file provides information about XCopy, Sync, computer connectivity etc.
- If a copying failure occurs, the copy is stored on your computer as a TMP folder. The TMP folder contains the same file names, but the data may be abnormal. You may delete the TMP folder. For details, see the function of TMP deletion in the chapter "17. HARD DRIVE (OR SSD) MANAGEMENT". (Page 36)

### 16.3. Disconnecting the NVS2801 from Your Computer

(1) For Windows

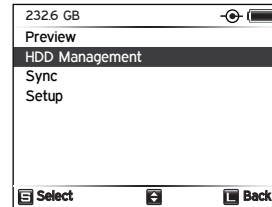
Right click the storage device icon in the System Tray (lower right corner of your screen) and select "Safely Remove Hardware" or "Unplug" or "Eject Hardware". Then disconnect the cable from your NVS2801 and your computer.

(2) For MAC

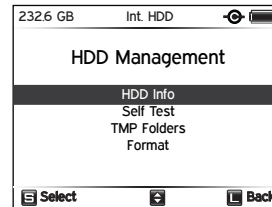
Drag and drop the NEXTODI icon in the trash. Then disconnect the cable from the NVS2801 and your computer.

## 17. Hard Drive (or SSD) Management

This is the function of HDD management of NVS2801's internal hard drive (or SSD) and USB external drive.

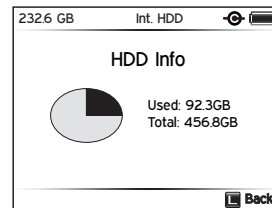


Select "HDD Management" from the main menu.



Select "HDD Info" sub-menu from the "HDD Management" menu.

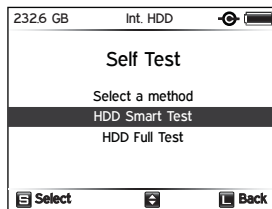
### 17.1. Drive Info



NVS2801 will show the capacity status of the internal hard drive using a pie diagram.

## 17.2. Self Test

Built-in test utility is for detecting physical errors on the hard drive. This function does not fix errors. If an error is detected during the self-test, consult your authorized NEXTODI dealer.

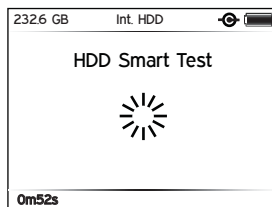


Select "Self Test" sub-menu from the "HDD Management" menu to choose one of the two test options shown as the picture on the left. Move the control button up or down to choose the method you prefer.

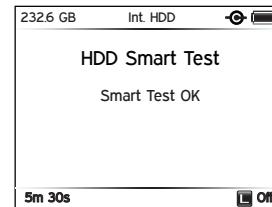
### (1) S.M.A.R.T Test



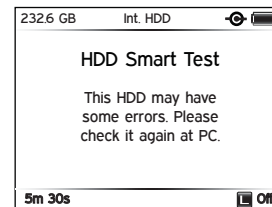
The S.M.A.R.T test takes several minutes to test the internal hard drive. If you want to start test, press "OK". (The S.M.A.R.T test cannot be used for SSD models of the NVS2801.)



The display shows the user that the S.M.A.R.T test is in progress.



No problems found during the S.M.A.R.T test.



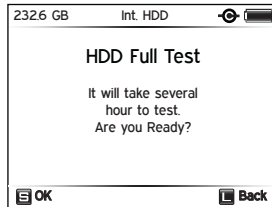
Error found during S.M.A.R.T test. Further use of NVS2801 may result in loss of backup data. Consult your authorized NEXTODI dealer for service.



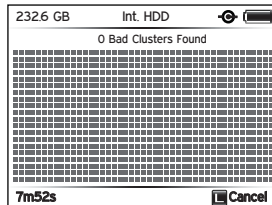
### Caution

- The NVS2801 buzzer—repeating every 3 seconds—indicates the completion of the test. The power does not turn off automatically at the completion of the test.
- The NVS2801 returns to the initial mode only after the user presses the control key for more than 1 second..
- It is strongly recommended that the AC adapter be used during this test in order to prevent battery failure during the process.

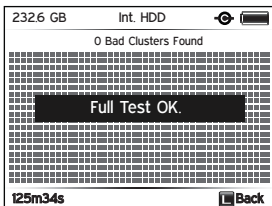
## (2) Full test



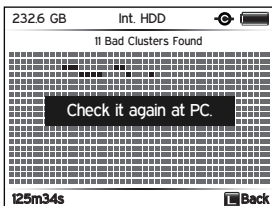
The full test will take several hours. It will read all the sectors in the selected drive to discover if any bad sectors exist.



The full test is in progress. This process will take about 2~3 hours.



No errors found.



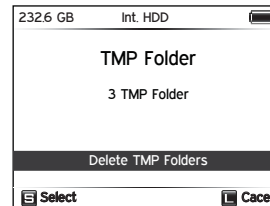
Error found during full test. Further use of NVS2801 may result in the loss of backup data. Consult your authorized NEXTODI dealer for service.



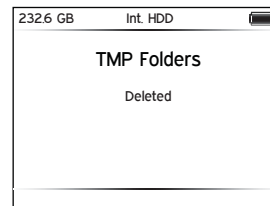
## Caution

- The NVS2801 indicates the completion of the test using the buzzer sound. The power does not turn off automatically at the completion of the test.
- The NVS2801 returns to the initial mode only after the user pushes the control key for more than 1 second.
- It is strongly recommended that the AC adapter be connected for this test in order to prevent battery failure during the process.

## 17.3. Delete TMP folder



If the TMP folder exists inside the [NvsDoc] folder, then the number of TMP folders will appear on the LCD. Press the control key briefly [S] to delete the TMP folders.



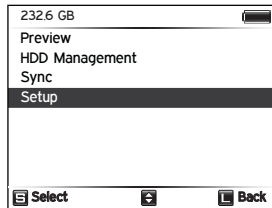
TMP folder has been deleted successfully. Press the control button shortly.



## Reference

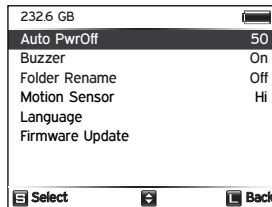
- The files in TMP folder are abnormal and invalid files. TMP folder is created when error occurred during the X-copy/M-copy operation.

## 18. Setup functions



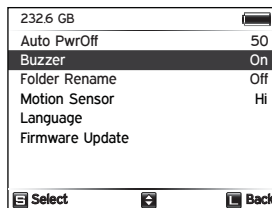
Move the control button up or down to choose "Setup" function then press the button shortly.

### 18.1. Auto Power Off



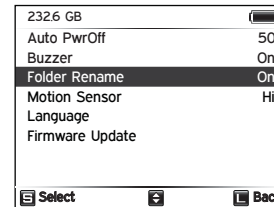
Select the "Auto Power Off" at the set up menu. You can choose the time interval of the auto power off as 30, 40, 50, 60 and 90 seconds by pressing the control button.

### 18.2. Sound

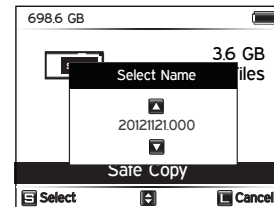


You can set sound on / off, the buzzer sound to tell the backup succeed / failed & other operative conditions and audio in previewing video.

### 18.3. Folder Rename



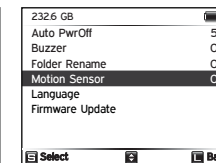
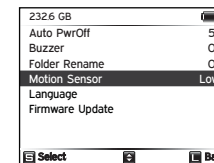
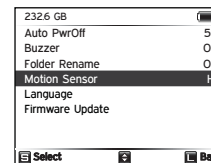
The name of the folder is determined by the shooting date (e.g., 20160301.000.123456). At the "Set Up" menu, the user can select the "Folder Rename" menu as ON, and then can change the folder name to begin with A1~J9.



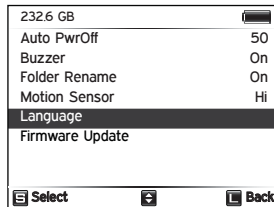
User can choose the folder name before back up.

### 18.4. Motion Sensor

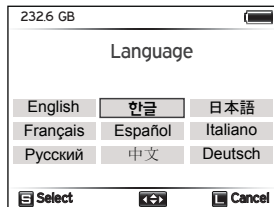
Hard drive is sensitive and prone to shakes/shocks during its operation. To minimize bad sectors, NVS2801 detects shakes/shocks during usage and warns you if the internal drive is the hard drive. This feature is disabled if the internal drive is SSD. Go to the set up menu and select "Motion Sensor" as Hi/Lo/Off by briefly pressing the control button.



### 18.5. Language setting

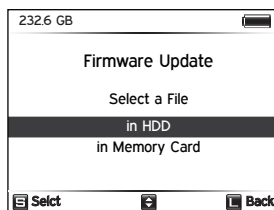


The user can select the preferred language using this function. Select "Language" sub-menu from the main menu.

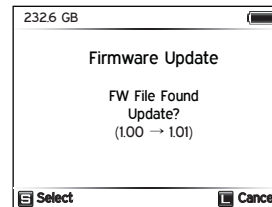


Select the desired language using the up/down/left/right key function. Press the key briefly to set the language as the default.

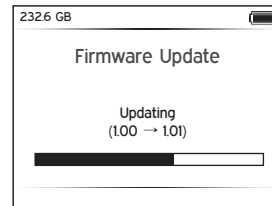
### 18.6. Firmware Update



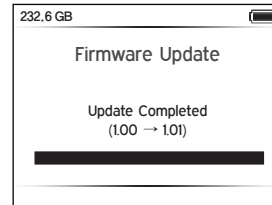
NVS2801 provides you with update of the new version of firmware through CFast/SD or internal hard drive (or SSD). Move the control button up or down to choose the option you want and press the button shortly.



If valid firmware is found at the specified location, the NVS2801 indicates a "FW File Found" message on the LCD. If you press the button shortly, it will perform a firmware update.



The LCD screen indicates that the NVS2801 firmware is being updated. Do not turn the power off during the firmware upgrade. Use of the AC power adapter is recommended.



Firmware upgrade completed. The NVS2801 turns off automatically.



If a valid firmware file is not contained in the specified device, the NVS2801 will indicate an error. Please try again from the beginning after downloading of F/W again.

## 19. Troubleshooting Tips

### 19.1. IF THE POWER OF THE NVS2801 CANNOT BE TURNED OFF:

The Power Button can be used as a reset key. In the event of a hardware or software malfunction, press the power button for at least 7 seconds. This will turn the power off safely so that the data stored in the NVS2801 will not be lost or altered.

### 19.2. IF THE CONTROL KEY IS NOT RESPONDING:

If you are unable to select an operation that involves the pressing of the control key in an up/down/left/right direction, you can still perform the [COPY] or [VERIFY] functions of the NVS2801 by using the power (on/off) button.

First, turn on your NVS2801 by pressing the power button for over two seconds. Next, place your memory card into the appropriate slot. When the LCD screen shows [COPY & VERIFY], briefly press the power button to begin copying. Please note that you will be initiating the "Copy & Verify" function— which takes longer, but is the most reliable method of backup. When the copying is done, remove your memory card. Now re-insert the memory card and wait until your NVS2801 asks [VERIFY?]. A brief press of the power button will begin the "Verify" process.

### 19.3. IF THE POWER CANNOT BE TURNED ON:

The NVS2801 has an internal rechargeable battery. If you cannot turn on the NVS2801 with the power button, it may be that the internal battery has been discharged. Connect the power adapter to the NVS2801 and push the power button for several seconds to turn the NVS2801 on.

### 19.4. CAUTION: DO NOT INSERT SEVERAL MEMORY CARDS AT THE SAME TIME:

Do not connect more than one memory card to the NVS2801. Only the first one will be detected.

### 19.5. IF A BACKUP ERROR OCCURS TO A COMPUTER:

When a video file stored in the NVS2801 cannot be copied or edited on a computer, the problem may be a bad sector on the hard drive (or SSD) of NVS2801. If an error is detected, consult your authorized NEXTODI dealer or proper restoration company.

## 20. Technical Specifications

Model Name	NEXTO VIDEO STORAGE Doc	
Model Number	NVS2801	
LCD	2.4" Color TFT LCD : 320*240, 64K color	
Memory Support	Built in slot : SxS(Pro/Pro+/-1), CFast(1.1&2.0) SD(SDHC/SDXC with UHS support)	
Storage	Internal Drive: 2.5" SATA hard drive with 9.5mm and less height.	
File System	Memory card : FAT16/32, exFAT, UDF, HFS+ Internal drive : exFAT	
Video Preview	DV, DVCPRO HD AVCHD, H.264, AVC-Intra MPEG2 4:4:4 / 4:2:2 / 4:2:0 XAVC 2K/4K, AVC Ultra 2K/4K *Preview of 4K footage could be very slow.	
Internal Battery	Rechargeable Li-Poly battery, 3.7V 4400mAh Operating time after full charge : 120min Rechargeable via AC adapter(5hrs), USB cable(9hrs)	
Computer I/F	USB 3.0 : 5Gbit/sec	
OS Compatibility	Windows XP(SP2) / VISTA / 7 / 8 / 10 (Windows XP requires exFAT patch update) MAC OS 10.6.5 or later, Linux 2.4.18 or later	
Power	Recommended : DC 12V/2A Operational range : DC 6~25V $\pm 5\%$ Operated by USB bus power during the computer connection	
Weight	430g / 0.95lb (with hard drive)	
Dimension	154 x 91 x 33 (mm) / 6 x 3.6 x 1.3 (inches)	
Contents	NVS2801 main unit / AC power adapter / USB3.0 cable / Rubber bumpers / Manual	