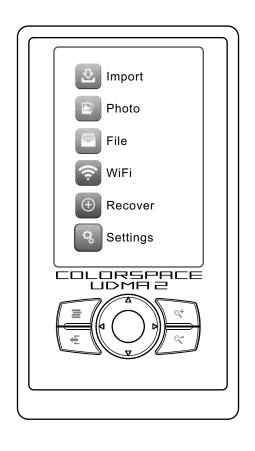
# COLORSPACE UDMA2 User Manual



#### **FCC STATEMENT**

- 1. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.
- 2.Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with these instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the separation between the equipment and receiver.

Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

Consult the dealer or an experienced radio/TV technician for help.

#### RF warning statement:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restrictions.

#### Sanho Manufacturer's Limited Warranty

Sanho warrants to the end user, that this product, excluding content and or software supplied with or on the product, will be free from material defects in manufacture, will conform to Sanho's published product specifications and be fit for normal use during the Warranty Period specified below commencing on the date of purchase provided that the product is legally placed on the market.

To make a warranty claim please contact Sanho at the telephone number below or support@hypershop.com within the Warranty Period and provide proof of purchase (showing date and place of purchase and name of the reseller) and product name, type and number. You may return the product after first obtaining a Return Material Authorization number and following any other guidelines listed. For further information see www.hypershop.com. Sanho may at its option repair this product or provide you with an equivalent product; and if unable to repair or replace the product, will refund the purchase price. Sanho will not be liable for indirect or consequential damage (including loss of data), or for damage caused by improper use (including use in an incompatible device and use not in accordance with the instructions), or by improper installation, unprofessional repair, modification or accident. This constitutes Sanho's entire liability which will never exceed the price you paid for it, plus the necessary costs you made for the warranty claim. Sanho products must not be used in applications where failure could threaten injury or life, such as life support systems. National, state and local laws may grant you other rights that are not affected by this warranty.

Warranty Period: 1 Year

Sanho Corporation 47456 Fremont Blvd. Fremont, CA 94538, U.S.A. Tel: +1-408-737-7878

Additional terms and conditions can be found at www.hypershop.com
Usage of this product constitute acceptance of these terms and conditions

## Safety Operating Instructions

Do not use the device in a moist environment and do not handle the device if your hands are wet. If liquid enters the device, please remove the battery and power off the device immediately and send it back to the dealer for repair.

Never try to use a device that has been corroded by liquid, as it may result in short circuit and cause fire

Do not place this device near the heavily magnetized objects; otherwise, data may be loss.

Do not insert non-compatible memory card or foreign objects into the memory card slots and the DC charging port forcibly.

Carefully remove the battery and power off the device if it produces odd smell, extreme heat or smoke. Handle with care as the device may be very hot.

If you are not charging the device with the original AC charger provided, please make sure that your charger has an output of 5V/1A.

The battery may heat up while charging; please charge the device in a ventilated area.

Please power off the device before opening the back cover.

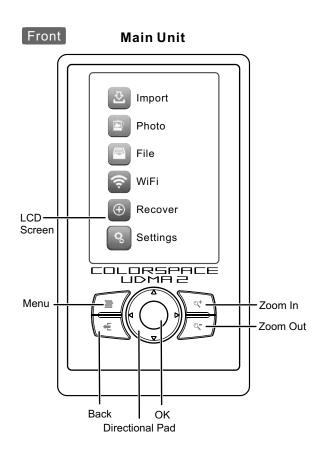
Please power off the device before inserting or removing the hard drive.

## **Contents**

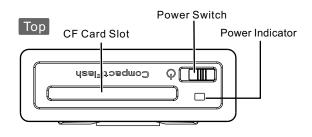
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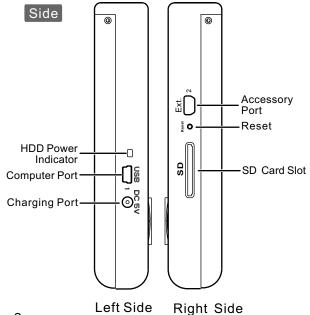
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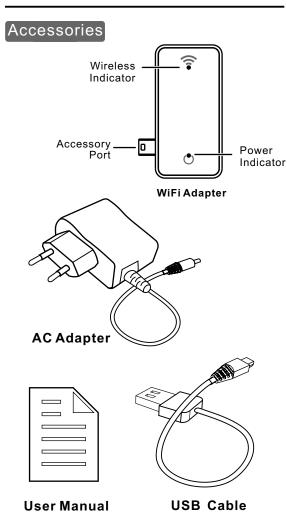
#### Overview



#### **Main Unit**

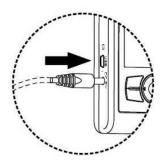


## Overview



## Charging The Battery

Turn off the device and connect it to a wall socket with the provided AC power adapter.



#### Battery Status Indicator:





Charging in progress

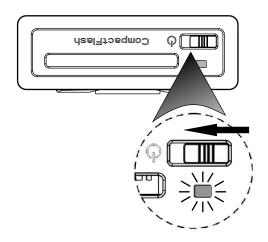
Fully Charged



If the device is being charged while it is on, the screen backlight will automatically turn off. You can turn on the backlight by pressing any key.

#### Turn On the UDMA2

Push the power switch in the direction as shown in the figure, and hold until the indicator lights is on.



#### Status of the power indicator:

Green light is on	Power on
Light is Off	Power off

#### Battery Status Indicator:

Fully charged

Battery is low, please charge the battery

Charging in progress

#### Turn Off the UDMA2

Toggle the power switch, Select OK to shut down when you see the pop-up message, or the system will start counting down to shut down in 5 seconds. If you wish to cancel the operation, press the **Back** button.



## Force Shutdown of the UDMA2

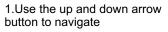
Push and hold the power switch until the power indicator light is off.

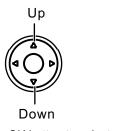
## Tip

Warning!

If the device is forced shutdown, data being accessed may be lost.

#### Main Menu

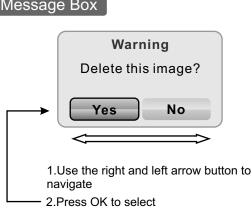




2.Use the OK button to select and activate a function



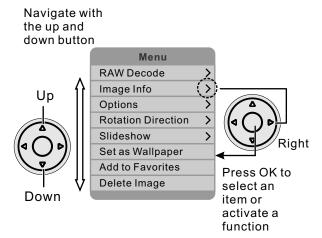
## Message Box



#### Pop-up Menu

Press the Menu button during any operation, a pop-up menu will show.

- Navigate with the up and down arrow button to a desired function in the popup menu;
- The ">" indicates that there is a sub-menu to the particular function. Use the OK button or the right arrow to enter the sub-menu;

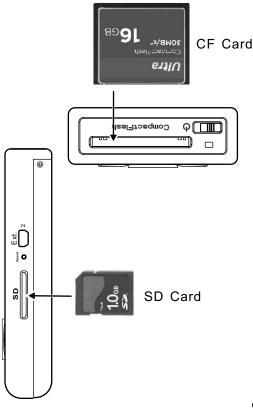


3. Use the OK button to select the highlighted item or function.

## Importing From Memory Card

Insert the memory card into its corresponding card slot.

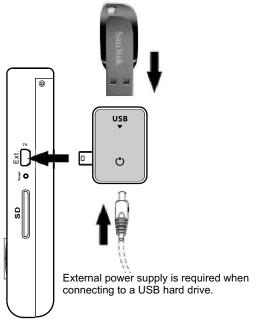
The device can only back up one memory card at a time. Please do not insert the CF card and SD card at the same time.



## Importing From USB Storage Device

Card Reader, USB Flash Drive or Hard Drive can be connected to UDMA2 through an optional OTG adapter.

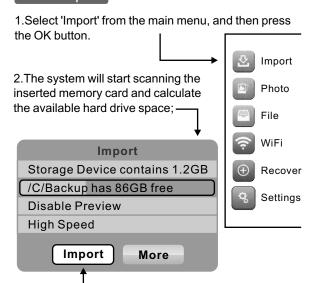
Card Reader, USB Flash Drive or Hard Drive



Tip

When connecting the OTG device, please make sure there is no memory card into the memory card slots.

## Start Import



3. Select Import and then press the OK button to immediately start import.

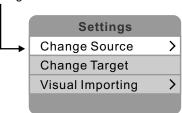
It may take a few seconds to calculate the available hard drive space depending on the hard drive capacity.

4. If you wish to change the import mode, please select 'More' and press the OK. You can then change the import mode.(Continued on next page).

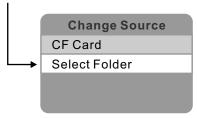
## Set Import Data Source

You can choose to import selective data from the memory card instead of doing a full backup of the memory card:

1. Select 'Change Source', and then press the OK button or the right arrow button to enter the submenu;



2.Select 'Select Folder' to select a folder in the memory card. Press the OK button.

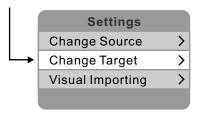


#### Data Source Settings:

Import from CF card	Import all files from the memory card	
Import from a folder	Import all files from a selected folder on the memory card	

## Set Import Destination Folder

1. Select 'Change Target', and then press the OK button or the right arrow button to enter the submenu;



2.Select a folder from the pop-up menu, and then press the OK.



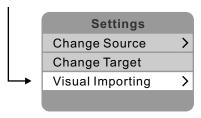
#### Tip

You can only choose a first level folder in the root directory as the destination location.

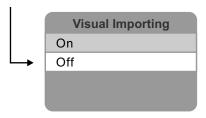
## Visual Import Setting

By default, the device will display a preview picture during each photo importing process. You can turn off this feature and the import speed will increase by 10%.

 Select 'Visual Importing' and the press the OK button or the right arrow button to enter the submenu;

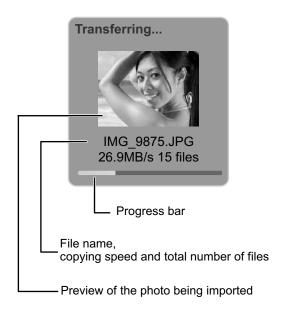


2.Select 'Off' and press OK.



#### Import In Progress

During the import process, the LCD screen will display the current progress of the import photos .



## Tip

During the import process, you can cancel the operation by holding the Back button until a confirmation notice pops up.

## After Import

1.After a successful import, the screen will display an Importing Summary.



2. For an unsuccessful import, an error message pop up.

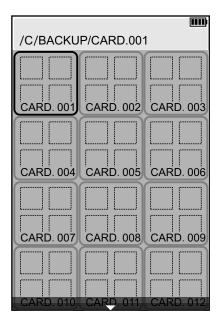


#### Tip

If you do not select OK to clear this error message, it will display again at the next start up.

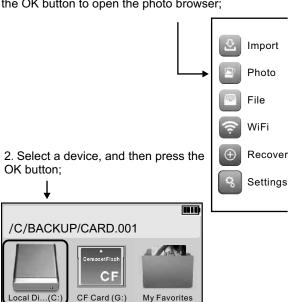
## The Import Folders

A folder is created during each import process where all the imported files are stored. The naming convention of these folders are: '/BACKUP/CARD.###', where '###' is the incremental number 001, 002 ... The folder with the largest number is the last imported folder.



## Browse Folder and Thumbnail Photos

1. Select "Photo" in the main menu, and then press the OK button to open the photo browser;

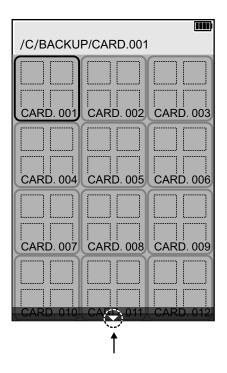


## Tip

My Backup...

You can adjust the icon or thumbnail size with the zoom in and zoom out button when you are in the Photo Browser.

3. Select a folder containing photos, and then press the OK button:





An arrow at the bottom of the screen indicates that there are more photos below and you can use the directional pad to scroll down to view more content.

#### 4. View photo thumbnails;

The file name and directory of the selected photo /DCIM/100EOS7D/IMG 00001.JPG

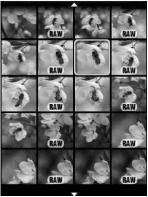
Tip

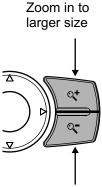
Some photos do not have thumbnail images. For these photos, the system can only display an icon with the file name. You can still press the OK button to try to view the full-size photo.

## Changing Thumbnails Size

You can adjust the thumbnail size by pressing the zoom in and zoom out button.



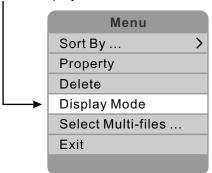




Zoom out to smaller size

## Changing Display Mode

In the photo browser, press the Menu button. A pop-up menu will show. Select 'Display Mode' and press OK. Then, you can switch between two display modes:



You can switch between 2 display modes in UDMA2.



**Thumbnails** Only

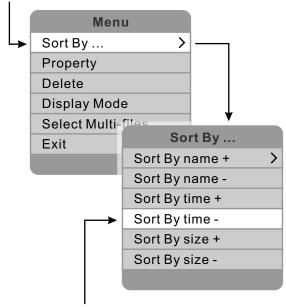
Display Mode 2



Large picture **Thumbnails** 

## Set Sorting Mode

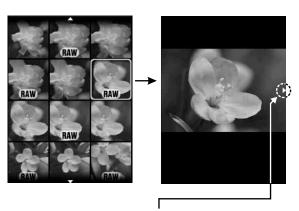
- 1. Press the Menu button to display pop-up menu;
- 2. Select 'Sort By ...', and then press the OK button or the right arrow button to enter the submenu;



3. Select a sorting mode and press the OK button.

## Viewing Fullscreen Photos

1. In view thumbnail display mode, you will be able to view the photo in Fullscreen display by selecting a photo and pressing the OK button.



2. An arrow on the right of the screen indicates that the next photo is ready for viewing. You can press the right arrow button to view the next photo immediately.

## Rotating a Photo

When in fullscreen display mode, press the OK button to rotate the photo by 90 degrees.

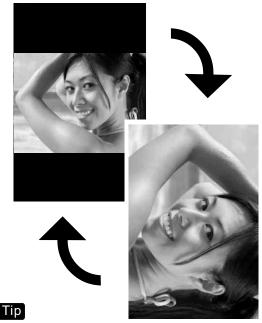


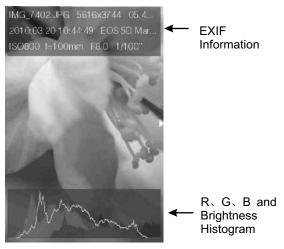
Photo rotation results are not saved to the photo or the device.

You can change the rotation direction of the photo:

- 1. Press the Menu button to enable the popup menu;
- 2. Select the "Rotation Direction" submenu;
- 3. Select "Clockwise" or "Counter-clockwise".

## Displaying Histogram and EXIF

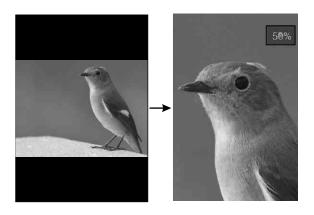
- 1.Press the Menu button to activate the pop-up menu:
- Select "Image Info", and then press the OK button or the right arrow button to enter the submenu;
- Select "Histogram" or "EXIF", and then press the OK button or the right arrow button to enter the submenu;
- 4. Select "Show" or "Hide" information.



Tip You can also toggle the up and down arrow button to display or hide the histogram and EXIF information.

## Zooming a Photo

1.When a photo is displayed at fullscreen, you can progressively zoom in/out a photo by pressing the zoom in or zoom out button. When photo resolution allows, the system can provide up to 6 zooming levels: 25%, 33%, 50%, 66%, 100%, 150%.





Red means the system is still processing/decoding the photo.

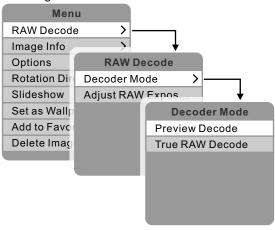
Green means the photo is fully processed/decoded for maximum zooming.

2. You can use the navigation pad to pan around the zoomed in photo.

## Decoding the RAW Data

UDMA2 is able to decode RAW data from the camera sensor contained within a RAW photo.

- 1. Press the Menu button to activate the pop-up menu when browsing a RAW photo;
- 2. Select < RAW Decode >, and then press the OK button or the right arrow button to enter the submenu;
- 3. Select<Decoder Mode >, and then press the OK button or the right arrow button to enter the submenu;
- In the Decoder Mode sub-menu, select <True RAW Decode>, and then press the OK button to start decoding.





The result of a decoded true RAW data is a photo without the post-processing effects such as de-noising, so you can view the unedited image file.

## Adjust the Dynamic Range and Brightness of RAW Image

As RAW photos have different color depth: 10bit/12bit/14bit. Therefore, it has a large dynamic range for adjustment.

- 1.After decoding a RAW photo, press the Menu button to active the pop-up menu;
- 2.Select "Decode RAW Data", and then press the OK button or the right arrow button to enter the submenu;
- 3.Select "RAW Brightness Control", and then press the OK button;
- 4. Press the left(<) and right (>) arrow button to adjust the brightness. Press the up (^) and down (v) arrow button to adjust the dynamic range. Press the OK button to restore back to the original file or press the Back button to exit the Brightness Control.



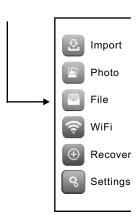




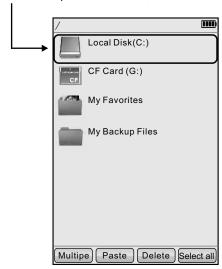
After adjustment

#### **Basic Operations**

1. Select 'File' in the main menu, and press the OK button.

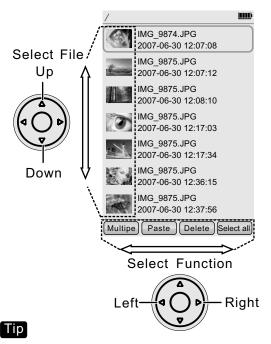


2. Select a drive, press OK button;



#### Basic Operations

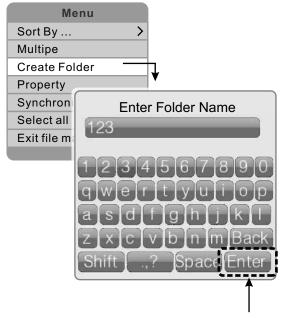
- 1, Use the up and down arrow button to select a file or folder;
- 2, Use the left and right arrow button to select a function:



When you are at the Function menu(at the bottom of the screen), you can always press the Back button to return to file selection.

#### Creating New Folder

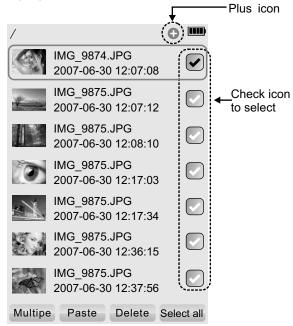
- Press the Menu button to activate the pop-up menu, Select "Create Folder" and press the OK button.
- 2. Input a new folder name by typing on the keyboard with the directional pad and OK button.



Once done, select <Enter> and press the OK button;

#### Selecting Multiple Files

Once a file has been selected by pressing the OK button, you will see check marks on the right. You can now perform multiple selections by pressing OK on the selected files. The selected files will be marked with a green tick marker.

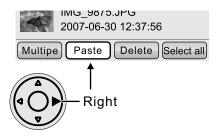


#### Tip

The appearance of the 'Plus' icon means that there are files that have been copied to the clipboard.

#### Paste the Selected Files Into A Folder

- 1.After selecting the files, press the Back button to exit from the current folder;
- 2.Choose the destination folder, then press the right arrow to select the 'Paste' function, press the OK button:



In next dialogue box, select "Yes", then press OK to start copying;



 After all files are copied, a confirmation note will appear.

#### Sync Folder to External USB Storage

- Connect external USB storage device to UDMA2 via optional OTG adapter.
- Select a folder to sync then press the Menu button. In pop-up menu, select 'Synchronizing to' function.
- 3, UDMA2 then connects to external USB storage device and open folder selection window. Select a folder as synchronization target.
- Select Yes and press OK to confirm, UDMA2 will start synchronizing local folder to external USB storage folder.

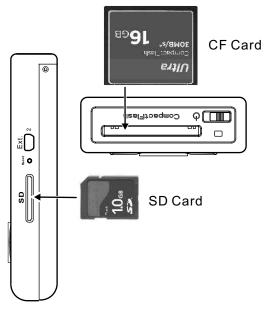


OTG Adapter is an optional accessory. It is not included in the standard package.

## 06 Photo Recovery

This function can recover photos that has been accidentally deleted from a memory card.

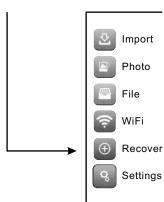
1.Insert the memory card that you want to restore into the corresponding slot;



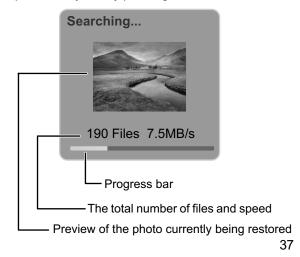
Once you have discovered that there are photos in a memory card that has been accidentally deleted, please stop using the memory card and try to recover the photos with the UDMA2 immediately. If you continue to use the memory card, you may not be able to recover the photos.

## Photo Recovery

2. Select 'Recover' in the main menu;



3.During the recovery process, you can cancel the operation anytime by pressing the Back button.



## Photo Recovery

4.A new folder is created with each recovery process, where all recovered photos are stored. The naming convention of these folders are "/C/RECOVER.###", where ### is an incremental number 001, 002 and so on.

You can recover deleted photos of the following formats:

Camera brands	Photo Format		
CANON	CR2/TIF/CRW		
NIKON	NEF		
PENTAX	DNG/PEF		
SAMSUNG	PEF		
RICOH	DNG		
SONY	SR2/ARW		
OLYMPUS	CRF		
PANASONIC	RAW		
MAMIYA	MEF		

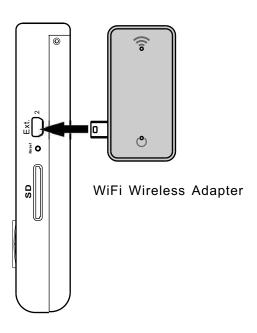


Please visit www.hyperdrive.com for the details of the latest list of supported formats.

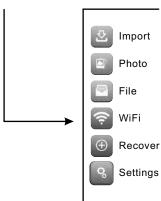
#### Turn On The WiFi Adapter

The UDMA2 has WiFi wireless file sharing capability. You can share your files in UDMA2 with iPad, iPhone, Android, tables, smartphones, computers and any WiFi device.

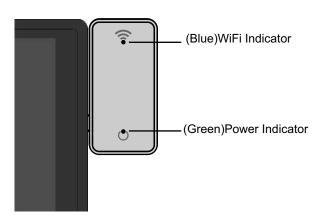
1.Connect the WiFi adapter to the accessory port of UDMA2.



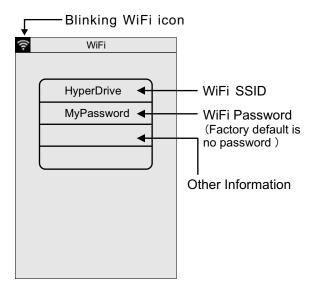
2.Select 'WiFi' on the Main Menu, press the OK button:



3.Upon activation of the Wifi adapter, the green light and the blue light will lit on.



4.The screen will then display the name(SSID) of the ad-hoc WiFi network created by UDMA2, WiFi password (if a password was set in UDMA2), and UDMA2's IP address (Internet mode).



WiFi Function Display

#### Tip

In order to conserve battery, upon activating the WiFi function, the screen will display the wireless information for about 15 seconds before it goes off. You can activate the screen again by pressing any key.

#### Connecting iPad to UDMA2

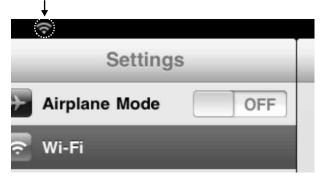
1.Go to 'Settings' in your WiFi mobile device (e.g. iPad)



2.Select 'HyperDrive' from the list of WiFi networks; Enter the password if you have set a password in UDMA2.



3.Once the connection is successfully established, the WiFi status symbol will show.

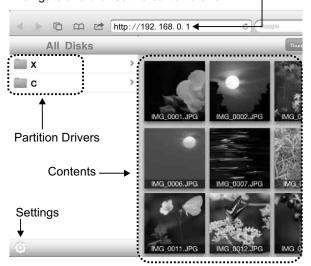


#### Accessing UDMA2 with your iPad

Open the Safari browser.



2. Enter the IP address of UDMA2 (as shown on the UDMA2 screen) in the URL address bar of Safari; Now, you can use the Safari browser to connect, navigate and browse the contents of UDMA2.



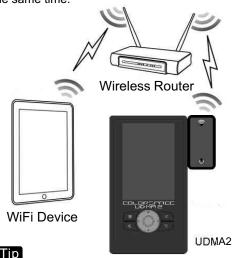
3. The contents of UDMA2 will be displayed in the Safari Browser. You can now navigate and view the files on the UDMA2 with your iPad. This connection mode is called the "Ad-Hoc" mode. This connection does not require internet connection or any existing wireless network.

Tip
We recommend using Safari as the browser as much as possible. Other browsers may not be able to display the full user interface.

#### Connecting UDMA2 to an existing WiFi network

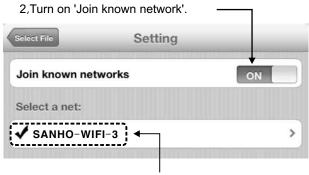
If you wish to connect your mobile device (eg, iPad, tablet, smartphone and laptop) to the UDMA2 and, at the same time, access the internet with your mobile device, you will need to connect the UDMA2 to an existing WiFi network.

This working mode called the 'Infrastructure mode'. In this mode, you can access UDMA2 with your mobile device and remain connected to the Internet at the same time.



The default network mode of UDMA2 is 'Ad-hoc' mode .In order to switch to the 'Infrastructure' mode, first turn on your wireless router. When the wireless router is working properly, turn on the UDMA2. If the UDMA2 is powered on before the wireless router is turned on, the UDMA2 will not be able to find the wireless router.

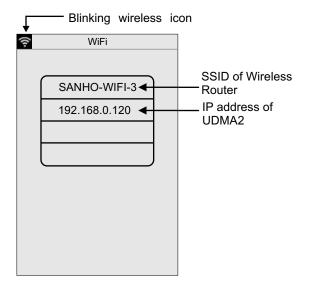
1,While UDMA2 is connected with the mobile device via "Ad-Hoc" mode: On the Safari browser i.e. showing the UDMA2 drive window (from Pg 43), select the Setting icon at the bottom left corner.



- 3, Select the existing wireless network you want to join.
- 4,Enter the network password, then click 'Done' to save the password. At this point, there will be no indication if the network password entered is incorrect until the UDMA2 is being restarted again in Step 5.



- 5.Push and hold the power switch to restart the UDMA2.
- 6.Select <Wi-Fi> function from the Main Menu. It will try to connect to the specified WiFi network. If the connection is successful, the LCD screen will display the wireless router SSID and IP address of the UDMA2 assigned by the wireless router.

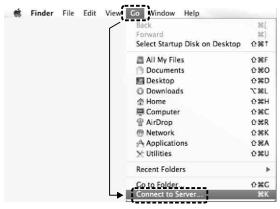




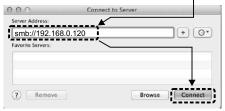
If the network password entered in Step 4 is incorrect or the UDMA2 fails to connect to the network, it will return back to 'Ad-hoc' mode.

#### Accessing UDMA2 in Mac OS

1.In the Finder Window, select 'Connect to Server' from the 'Go' menu.



2. Enter the IP address of the UDMA2 (in the format smb://<IP address>) in the 'Server Address' text box.



3. select 'Guests' and 'Connect'.



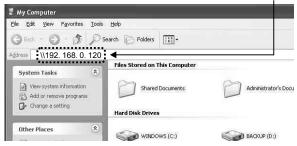
#### Accessing UDMA2 in Windows

1. Open 'My Computer';

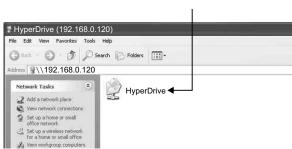


2, Enter the IP address of UDMA2 in the address bar;

#### NOTE! Add two backslash before theIP address!



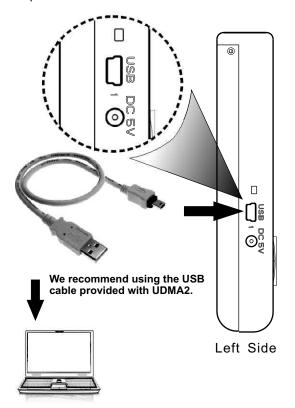
3.Click 'Go' or press Enter on the keyboard, and the UDMA2 drive will show on the window.



4.Click 'HyperDrive' to access the contents of UDMA2.

# 08 USB Connection to Computer

1.Turn off UDMA2 before connecting it to a computer via USB.



Tip

The computer would not detect the UDMA2 if it is turned on or if it is being charged.

#### View Hard Drive S.M.A.R.T. Info

- 1.Select 'Settings' in the main menu, and then press the OK button;
- 2. Select 'HDD' 'S.M.A.R.T. Info' and press the OK button:

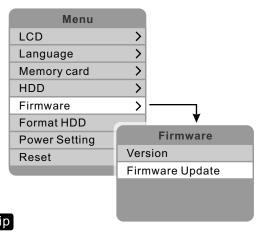
S.M.A.R.T. Info				
PowerOnHour	651			
RetractCount	41d			
LUCycleCount	2760			
Temperature	33			
Gsense	11f8			
RawErr	9d6			
SeekErr	0			
ReAllocCnt	0			
HungupCnt	0			
UDMAErr	f2			
Ok				

#### Tip

S.M.A.R.T stands for Self-Monitoring, Analysis and Reporting Technology. This feature detects and records any foreseeable mechanical failures of the hard drive, and warns of any failure that may result in data loss.

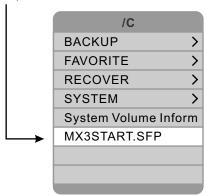
### Firmware Upgrade

- 1. Please download the latest firmware from www.hyperdrive.com;
- 2. Connect to the computer via USB (see '08 USB Connection to Computer'), and then copy the downloaded SPF firmware file into the UDMA2.
- 3. Disconnect UDMA2 from the computer and turn UDMA2 on. Select 'Settings' in the Main Menu, and then press the OK button;
- Select 'Firmware' > 'Firmware Update' and then press the OK;



If UDMA2 fails to update the firmware, the firmware file may be corrupted. Redownload the firmware file and try again.

5. Select the SPF firmware file from the file list window;



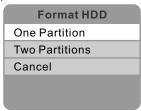
- 6.Select 'Yes' in the dialogue box and press the OK;
- 7. Upon completion, press any key to turn off UDMA2. The new software will apply in the next startup.

Tip

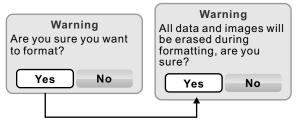
Make sure the UDMA2 has sufficient battery power or is plugged to the external power supply to complete the Firmware Upgrade. Interruption during the firmware upgrade may cause device malfunction.

#### Formatting the Hard Drive

- 1. Select 'Settings' in the Main Menu, and then press the OK button:
- Select 'Format HDD', and then press the OK button;
- 3. Select the number of partitions, and then press the OK button;



- 4. Select "Yes" on the first warning message;
- Select "Yes" on the second warning message;



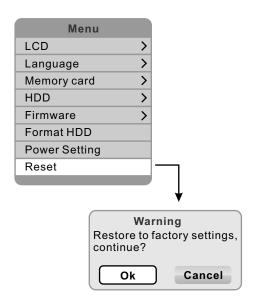
6. Hard Drive formatting will begin;

#### Tip Warning!

Reformatting the hard drive will erase all files and data in the hard drive. Please make a back up copy of any data you wish to preserve.

#### Restore Factory Settings

- 1.Select 'Settings' in the Main Menu and select 'Reset'; then press the OK button;
- 2.Select 'Ok' to confirm;





'Restore to Factory Settings' only resets all settings to the factory default settings.lt will not delete the files in the UDMA2 hard drive.

## **Specifications**

**Memory Card Slot** 

CompactFlash Type I SD/MMC/SDHC/SDXC

**USB Port** 

USB2.0 Device 480MBps

**Hard Drive Port** 

SATA 2.5-inch,9.5mm thickness

**Accessary Port** 

USB2.0 Host 480MBps

**Charging Port** 

DC 5V/2A

LCD

3.5" TFT 320x480 Color LCD

**Buttons** 

9 function buttons/1 power button 1 reset button

Build-in Battery

2600mAh rechargeable Li-on battery

**Battery Life** 

Importing photos up to 120 minutes Playing photos up to 180 minutes

Wireless Adapter

WiFi 802. 11b/g/n standard Support Ad-hoc and Infra modes

**Dimensions** 

76mmx138mmx26mm