HyperDrive UDMA3

FCC Statement

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 the 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.

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, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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

Sanho Manufacturer's Limited Liability

Sanho warrants to the end user, that this product, excluding its content and / or software supplied with or on the product, will be free from material defects in the 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 purchased on the market.

To make a warranty claim please contact Sanho at the telephone number below or at support@hypershop.com within the warranty period and provide proof of purchase (showing date and place and name of the reseller) and product name, type and number. You may return the product after obtaining a Return Material Authorization number and following any other guidelines provided by our customer support. For further information, see www.hypershop.com. Sanho may at its option repair this product or provide you with an equivalent replacement. Sanho will not be liable for indirect or consequential (including loss of data) , or for damage caused by improper use(including use with 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 Operation Instructions

We recommend user to test device before first use to familiarize with the functions and to ensure that device functions as per published specifications.

Do not replace the internal battery in the battery compartment. The device is installed with internal battery that is certified safe and compatible by the manufacturer. Replacing with incompatible battery may result in short circuit and fire hazard. Please contact Sanho for the battery compartment assembly replacement instead.

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 immediately power off the device, remove the battery, 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.

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

If you are not using the original AC charger provided, please make sure your charger has an output up to 10W and certified safe by your country safety commission.

The device may be hot while charging. Please charge the device in a ventilated area.

Power off the device before opening the back cover and installing or removing the hard drive.

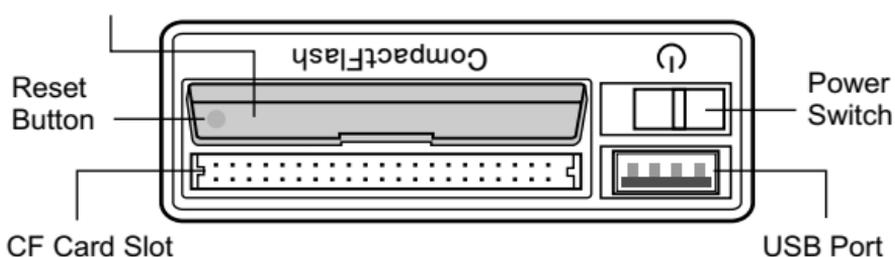Do not place the device near heavily magnetized object. Otherwise, data may be lost.

Contents

Overview

Top

Card Slot Protective Cover

CompactFlash

Reset Button

Power Switch

CF Card Slot

USB Port

Front

Hard Drive Indicator

Color LCD Screen

Battery Indicator

COLORSPACE

Directional Buttons

OK

Menu

Back

Display Mode

Zoom in/ Prev. Page

Home

Zoom out/ Next Page

UDMA 3

Overview

Left Side	Right Side

USB3.0

SDXC Slot B

SDXC Slot A

Charging Port

DC5V

Back Cover

Internal WiFi Antenna

Battery Compartment

SDXC Slot A and CF card slot could not used concurrently. The UDMA3 could only access one of the card slot at any point of time.

SCXC Slot B could be use concurrently with the CF card

Main Menu
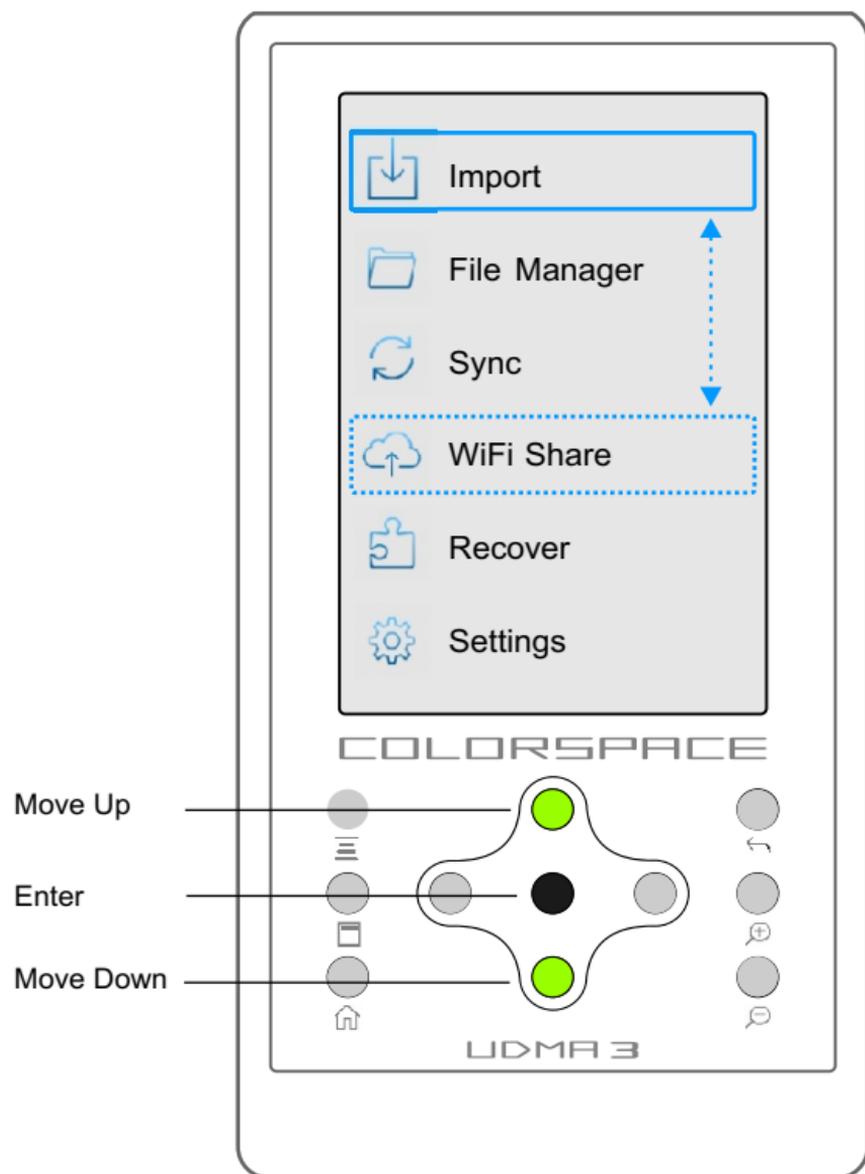
Return to Main Menu by pressing the 🏠 button from any screen.

Import

Import from Memroy card

CF Card

SD Card Slot B

| 导入照片 |
| 文件管理 |
| 文件同步 |
| 无线分享 |
| 照片恢复 |
| 系统设置 |

COLORSPACE

UDMA 3

SD Card Slot B

SD Card Slot A

| 导入照片 |
| 文件管理 |
| 文件同步 |
| 无线分享 |
| 照片恢复 |
| 系统设置 |

COLORSPACE

UDMA 3
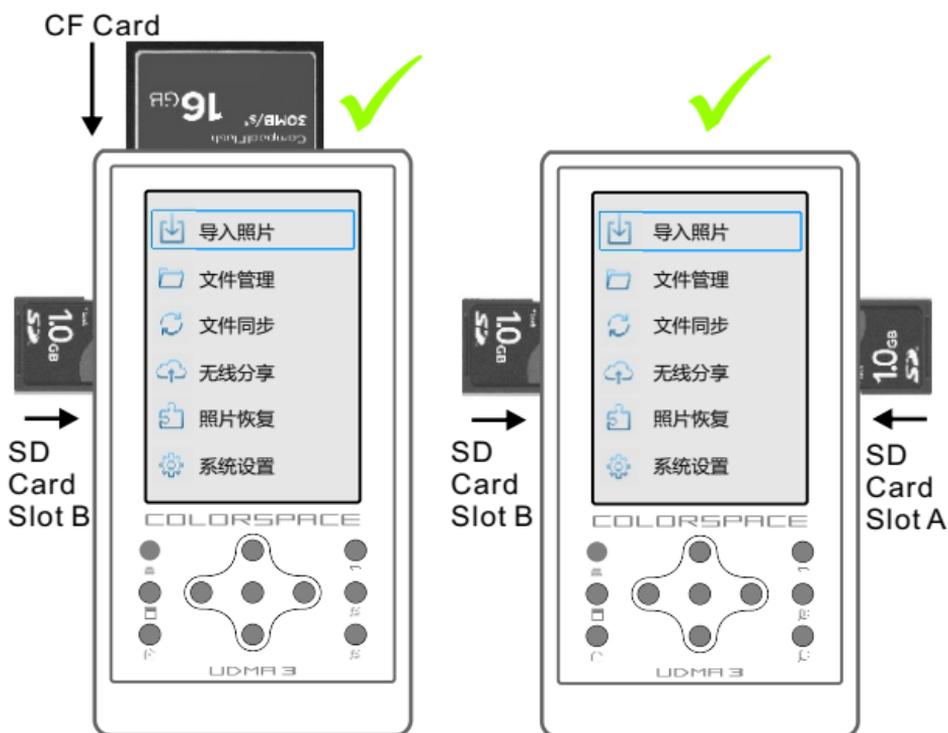
Wrong Way

SDXC Card Slot A and CF Card Slot could not be used concurrently!

CF Card

| 导入照片 |
| 文件管理 |
| 文件同步 |
| 无线分享 |
| 照片恢复 |
| 系统设置 |

COLORSPACE

UDMA 3

SD Card Slot A

Import

Import from USB Device

USB Drive
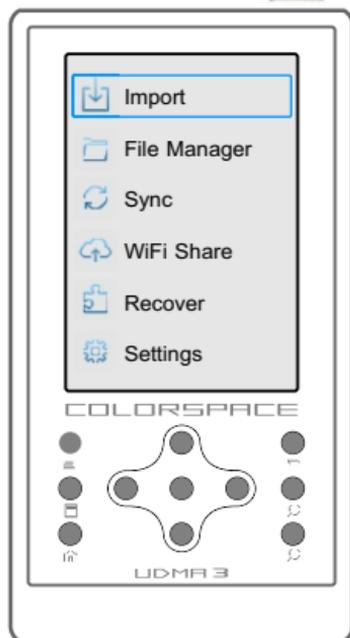
Import
File Manager
Sync
WiFi Share
Recover
Settings

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UDMA 3

USB Card Reader

Import
File Manager
Sync
WiFi Share
Recover
Settings

COLORSPACE

UDMA 3

Import

Import	
Source:	
Device:	Card Reader
Capacity:	14.5GB
Path:	/W
Destination:	
Device:	HDD-C
Free Space:	900.89GB
Path:	/C/BACKUP
Options:	
Preview:	Off
Verify:	Off

Import All ◄┈┈► Import Incr.

☰ Menu   ✛ Select   ✛ Start

Select 'OK' button to start Import,
Press the 'Left' or 'Right' button
to select Import option.
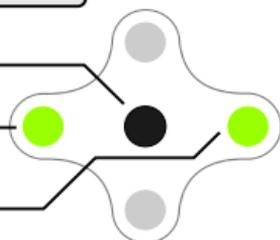
Import All: Copy all files from Source to Destination Folder
Incremental Import: Copy only new files created from the
Source to the Destination Folder

Select the Menu button. The Settings Menu will pop up allow
user to Change Source, Change Destination, Select Visual
Import Setting, File Verification Setting , Folder Name Setting.

Import

Import All

When 'Import All' is selected, a new Folder will be created in the destination location. You can define the Folder Naming Rule, i.e. name according to sequential number of based on date.

The screen will display the import progress during the operation.

	Copying...
File being copied	IMG_9859.CR2
Speed	28.1MB/s. 138 个文件
Time Remaining	00:01:43
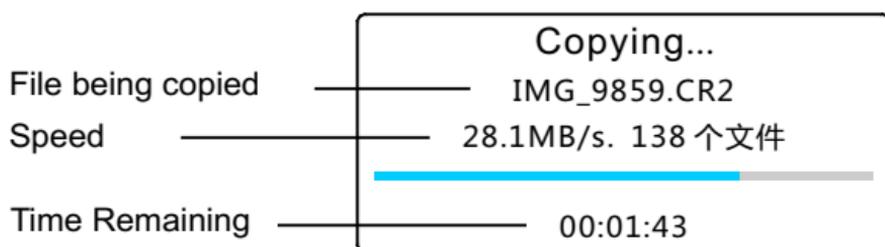
Upon completion, the screen will display Import Details.

	Import Details
	Folder**:** ...BACKUP/CARD.005
	Files: 1234 files
Files Skipped (Incremental Import)	Skipped Files: 0 files
	Status: Successful
	Browse Cancel
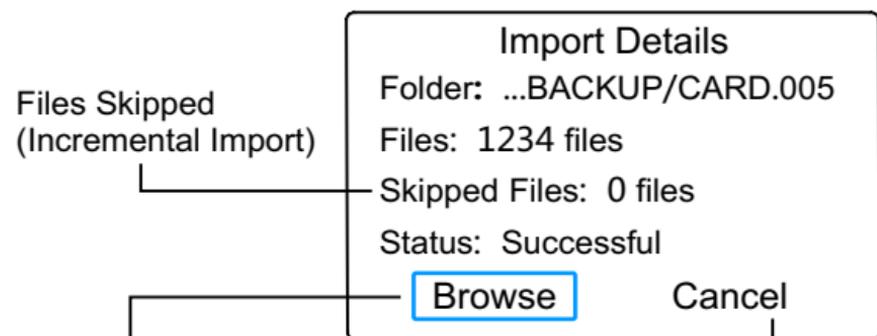
Press 'OK' button to start browsing the files, Select the Left or Right button to change your option. Select 'Cancel' to return to the Main Menu.

If 'Import All' is selected and carried out twice from the same memory card, two folders will be created in the destionation location on each operation, and the files will be imported twice, utilizing twice the memory space in the destination location.

Import

Incremental Import Defined

For Incremental Import, the device will first identify if the file to be copied exists in the destination location (by identifying the file name). If the file is already existing in the destination location, the device will skip this file and move on to another file.

> Memory Card from the Camera with contents

1 Select **Import All**. Import all Files from the memory card into the UDMA3. Note destination folder name: Eg. CARD.005

> Insert Memory card back into the Camera and continue taking more pictures

2 Select Destination location as CARD.005, the destination folder when the first import was carried out

3 Select **Incremental Import** to this destination folder. Only the new files created after the first import will be imported into the destination folder.

> Insert Memory card back into the Camera and continue taking more pictures

> Select **Incremental Import** to import only the new files into the destination folder.

Import

Set Import

Import	
Source:	
Device:	Card Reader
Capacity:	14.5GB
Path:	/W
Destination:	
Device:	HDD-C
Free Space:	900.89GB
Path:	**Select Folder**
Options:	
Preview:	Off
Verify:	Off
Import All ·······▶ Import Incr	
☰ Menu ✚ Select ✚ Start	

Destination Folder

On the first Incremental Import, the device will prompt you to select a destination folder.

Select <Menu>.
When the Settings Menu pops up, Select 'Change Destinations'.

Settings ◀
Change Source >
Change Destination >
Visual Import >
Verify >
Folder Name >

Then press the 'Right' button

Change Destination
HDD-C
Select Folder

/C/BACKUP
CARD.001
CARD.002
CARD.003
CARD.004
CARD.005

Select Destination folder and press 'OK'

Import

Set Import

Ensure that the correct Destination Folder is selected before begin import.

Import	
Source:	
Device:	Card Reader
Capacity:	14.5GB
Path:	/W
Destination:	
Device:	HDD-C
Free Space:	900.89GB
Path:	**...BACKUP/CARD.005**
Options:	
Preview:	Off
Verify:	Off
Import All ·········▶	Import Incr ◀
≡ Menu　　　✦ Select　　　✦ Start	

Select 'OK' to start import.
Use the 'Left' and 'Right' button to change import method.

> **Downloading photos from Memory Card used on Camera: While using Incremental Import, always define a NEW destination folder whenever the memory card has been reformatted to capture new pictures. The camera repeats file names when capturing picture files in a newly reformatted memory card.**
> **In Incremental Import mode, the system will skip importing file names that already exist in the destination folder.**
> **Using a new destination folder will ensure that the system does not skip importing any file by error.**
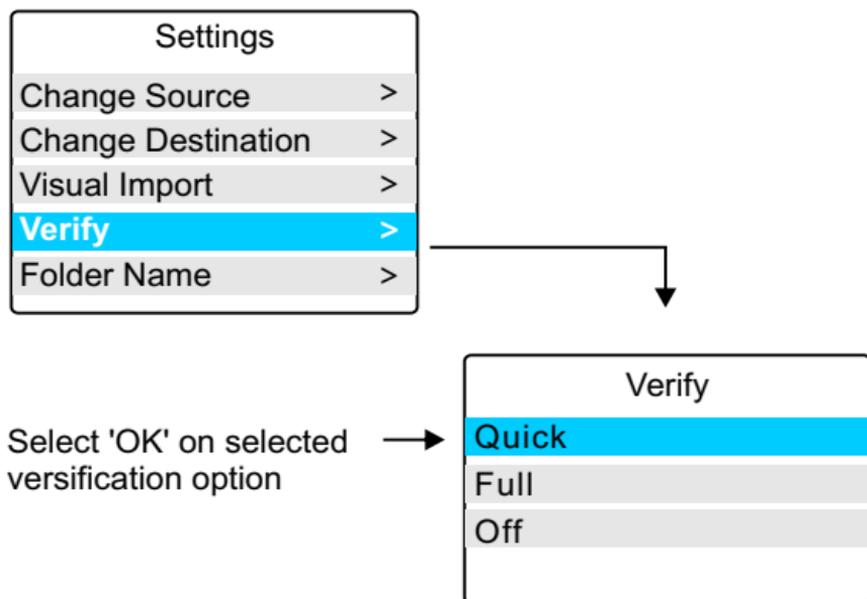
Import

Data Verification

Data security is paramount importance to every user. The UDMA3 is able to securely import and store data. Also, the UDMA3 provides the Verification feature to verify that the data is imported correctly by comparing the data from the source to the imported data int he destination location. You can select:

Quick Verification:
Verify only the first 2M header of every files. If the file is less then 2M header, complete verification will take place.

Full Verification:
Complete data versification of the entire file.

Settings	
Change Source	>
Change Destination	>
Visual Import	>
Verify	**>**
Folder Name	>

Select 'OK' on selected versification option

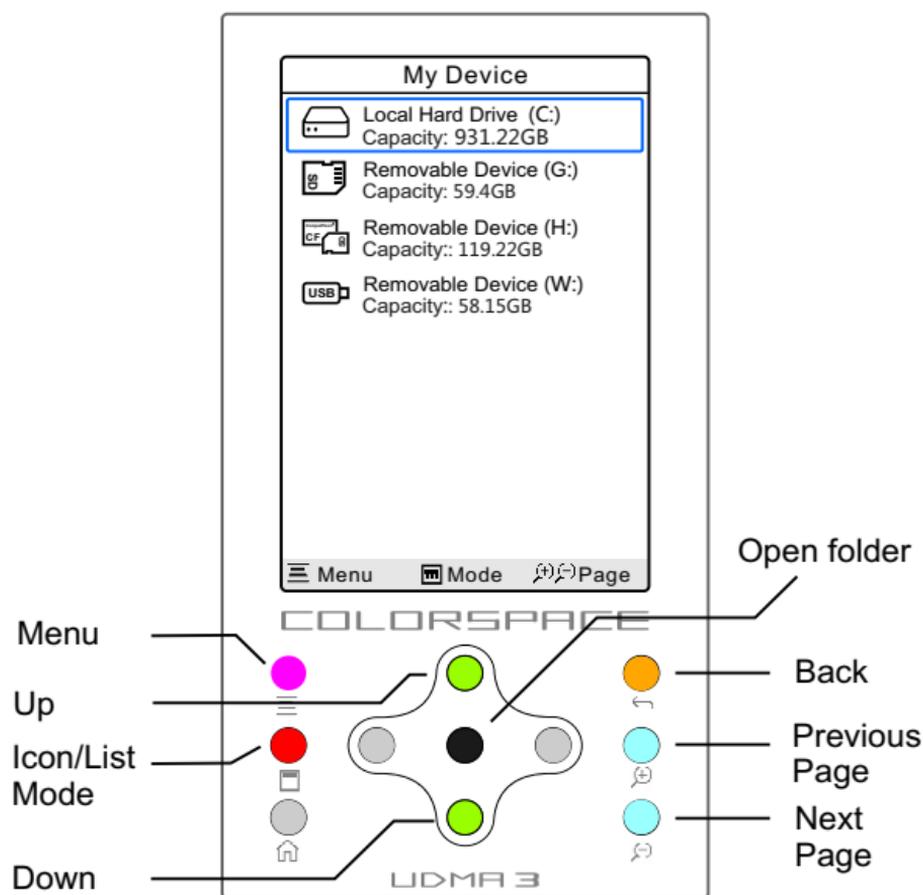| Verify |
|---|
| Quick |
| Full |
| Off |

Data Verification DOES NOT prevent data loss as a result of hard drive defect or computer defect. Please do extra back up of important data in a different device.
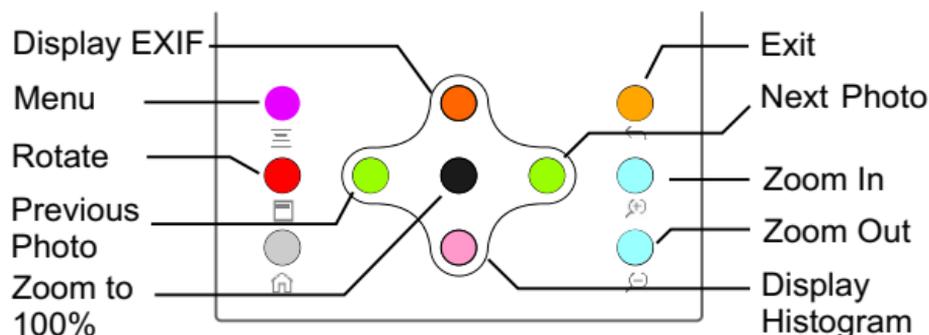
File Manager

Basic Operations

From the Main Menu, select 'File Manager'

When browsing photo, select a photo by pressing the 'OK' button. Once you are in the photo, navigate as follow:

File Manager

Copy/Paste File

In the File Manager list, press the ☰ button. A sub-menu page will pop up. Select 'Edit'.
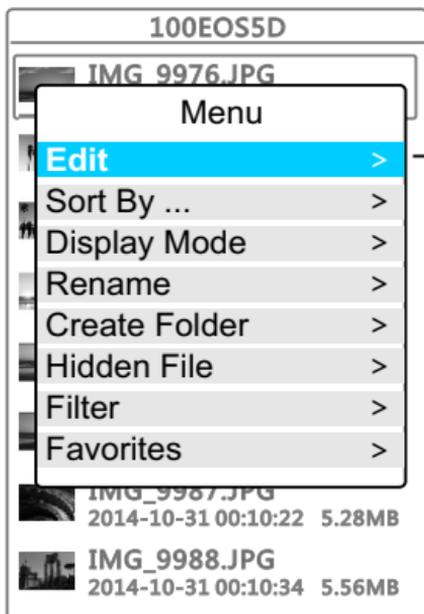
In the Edit mode, a check box will show on the right of each file.

100EOS5D
Menu
Edit >
Sort By ... >
Display Mode >
Rename >
Create Folder >
Hidden File >
Filter >
Favorites >

100EOS5D
IMG_9976.JPG ☑ 2014-10-31 00:10:38 4.71MB
IMG_9977.JPG ☐ 2014-10-31 00:10:52 5.27MB
Menu
Done
Copy
Delete
Select All
Reverse Select
Display Mode >
IMG_9987.JPG ☐ 2014-10-31 00:10:22 5.28MB
IMG_9988.JPG ☐ 2014-10-31 00:10:34 5.56MB
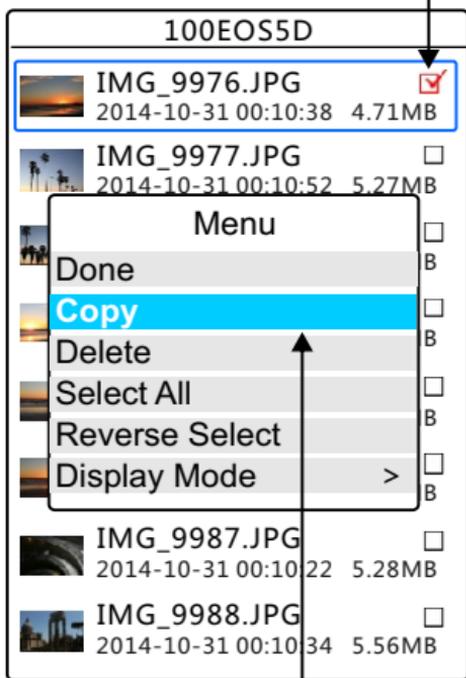
Select the files to be edited, press 'OK' to mark the check box on selected files. Press the ☰ button, and select 'Copy'.

Next, browse for the destination folder, press the ☰ button, Select 'Paste'

Menu
Done
Paste
Display Mode >
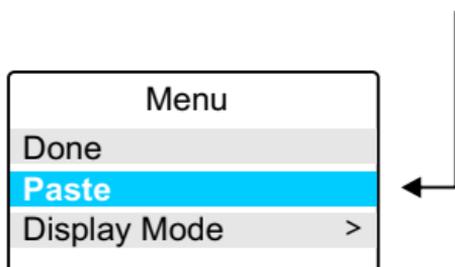
File Manager

Create New Folder

In the File Manage list, press the ☰ button, select 'Create Folder'

Menu	
Edit	>
Sort By ...	>
Display Mode	>
Rename	>
Create Folder	>
Hidden File	>
Filter	>
Favorites	>

100EOS5D

IMG_9976.JPG
2014-10-31 00:10:38 4.71MB

IMG_9977.JPG
2014-10-31 00:10:52 5.27MB

IMG_9978.JPG
2014-10-31 00:10:12 5.42MB

IMG_9980.JPG
2014-10-31 00:10:42 5.02MB

Input Folder Name

New Folder

Selected letter (Hi-light)

Uppercase/Lowercase

Switch to Number

Enter

COLORSPACE

Select letter using the navigation buttons

Enter

UDMA 3

Input a new folder name by typing on the keyboard with the navigation buttons and 'OK' button.

Browser

Select a photo for viewing. When the photo is display in full screen, you can use keypad button to browse the photo as follow:

EXIF Data

IMG_5293.JPG 5616x3744
2015:03:22 10:43:23 09.9MB
ISO500 f=24mm F2.8 1/800"
Canon EOS 5D Mark II

Histogram

COLORSPACE

Display EXIF

Zoom to 100%

Rotate

Show the next photo

Display Histogram

UDMA 3

Zoom in / Zoom out
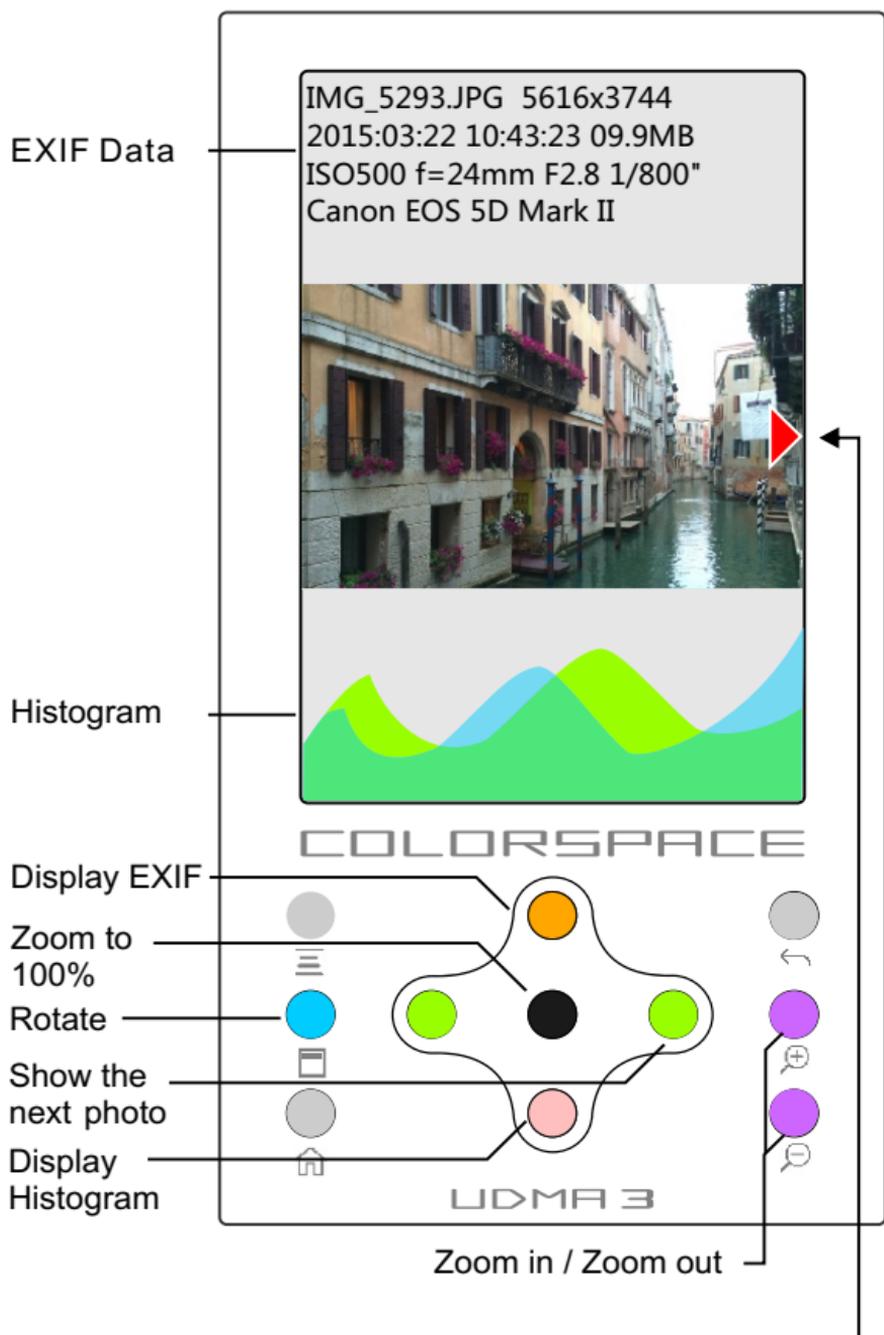
Right arrow: The next picture has already been loaded and ready to view. Press the 'Right' button to view the next photo.

Browser

Decoding Raw File

A Professional Camera photo has two sets of data for each photo file. A reduced size photo file for quick preview and a true RAW photo file taht contains all data captured from camera sensor.
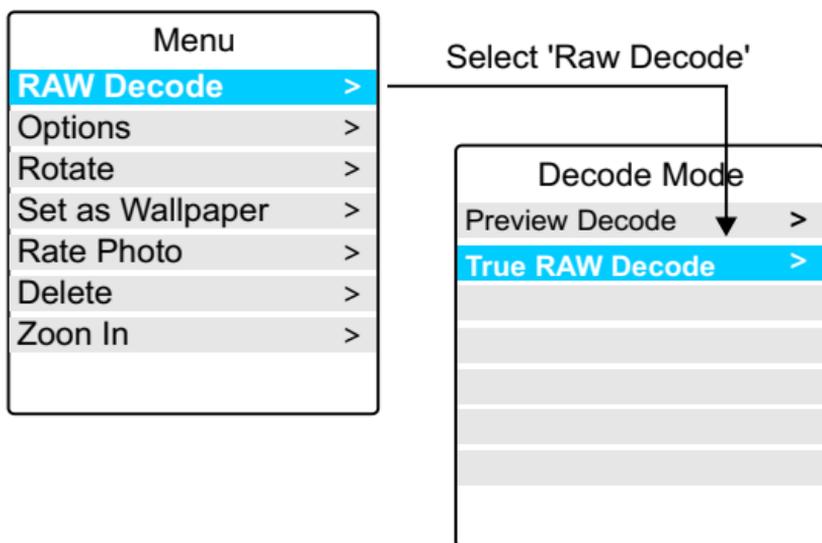UDMA3 is able to decode RAW data from the camera sensor contained within a RAW photo.

When browsing a RAW photo, press the ≡ button,

Menu	
RAW Decode	**>**
Options	>
Rotate	>
Set as Wallpaper	>
Rate Photo	>
Delete	>
Zoon In	>

Select 'Raw Decode'

Decode Mode	
Preview Decode	>
True RAW Decode	**>**

Due to the large size of a RAW file, the decoding process may take a couple seconds. For example, a CR2 format photo from Canon 5D Mark II may take only 3s to load the preview photo but takes 43s to decode the RAW photo.

A deoded RAW photo coloe may look slight different from the preview photo as the color have not been corrected in a decoding process.
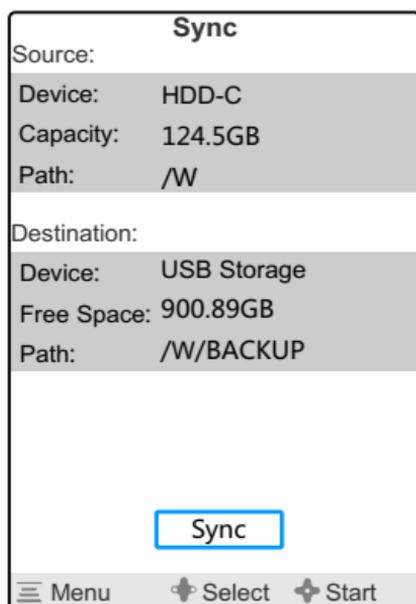
Sync with External Hard Drive

The UDMA3 data can be backed up and sync with another portable hard drive. During the one-way sync process, from the UDMA3 to another external portable hard drive, if a same filename is detected in the external hard drive, the file will not be copied to the external hard drive.
We recommend syncing your data to another hard drive periodically for extra back up.

Connect a FAT32 portable hard drive to the USB port on the UDMA3:

You can format the external hard drive to FAT32 format using the UDMA3.

| Import |
| File Manager |
| Sync |
| WiFi Share |
| Recover |
| Settings |

COLORSPACE

UDMA 3

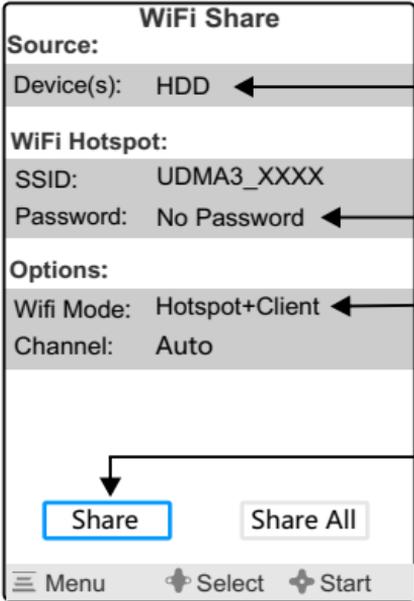| **Sync**	
Source:	
Device:	HDD-C
Capacity:	124.5GB
Path:	/W
Destination:	
Device:	USB Storage
Free Space:	900.89GB
Path:	/W/BACKUP

Sync

☰ Menu   ⬥ Select   ✛ Start

On the Main Menu, select 'Sync' In the Sync Menu, make sure the source and destination location is correct. Select 'OK' to start syncing.

Connect external power to UDMA3 during the Sync process.

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Wireless File Sharing

Using WiFi File Sharing

The UDMA3 has a WiFi wireless file sharing capability by creating its own WiFi hotspot. You can access the data in the UDMA3 via mobile devices link smart phones, tablets and laptops. From the Main Menu select 'WiFi'

WiFi Share	
Source:	
Device(s):	HDD
WiFi Hotspot:	
SSID:	UDMA3_XXXX
Password:	No Password
Options:	
Wifi Mode:	Hotspot+Client
Channel:	Auto
Share	Share All
≡ Menu ⬦ Select ✦ Start	

Only devices listed here will be share.

Data owner can set password to restrict access

'Client' mode allow user to join a wireless network

To conserve power, the system will by default only share files in the internal hard drive.

You can choose to share all devices. This would consume more power and reduce UDMA3 working duration though.

Press ≡ button, select 'Device', then select devices that you wish to share wirelessly.

Settings	
Devices	>
SSID	>
Password	>
WiFi Mode	>

Menu	
HDD	☑
Memory Card	☐
USB Device	☐
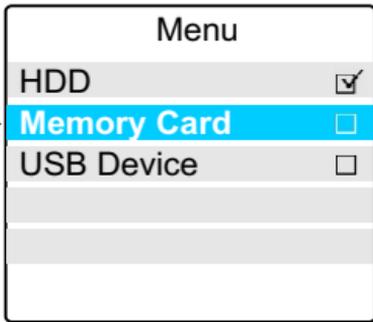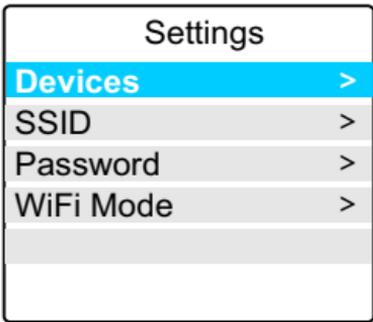
Wireless File Sharing

WiFi Data Sharing Status

Once the system is the WiFi data-sharing mode, the screen will then display the following:

Ad-hoc WiFi hot spot created by UDMA3.
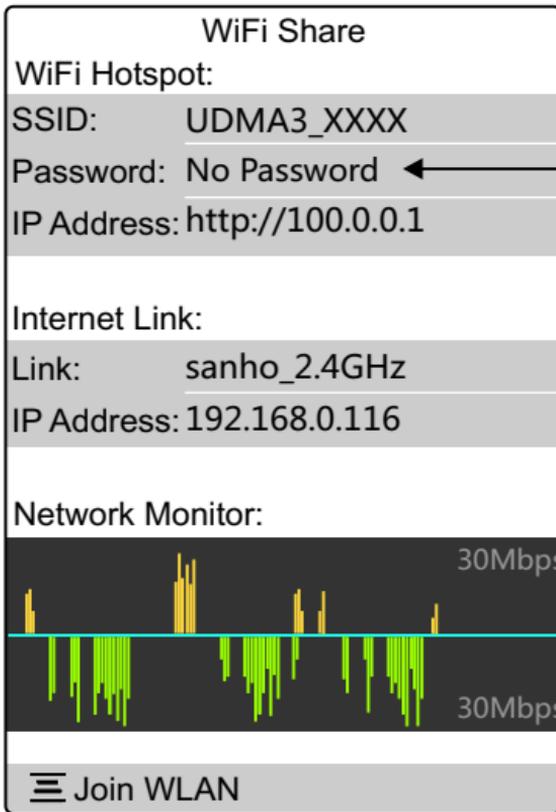Mobile devices and computer can access the data in UDMA3 via the Ad-hoc WiFi hot spot. There is no need for existing WiFi Internet in order for this feature to work.

```
                    WiFi Share
WiFi Hotspot:
SSID:        UDMA3_XXXX
Password:    No Password        ◄──── You can set
IP Address:  http://100.0.0.1         password for
                                       secure access
Internet Link:
Link:        sanho_2.4GHz
IP Address:  192.168.0.116

Network Monitor:
                                   30Mbps

                                   30Mbps

☰ Join WLAN
```

Join existing WiFi Network at home or at work. Computer and mobile devices in the same network will be able to access the data in UDMA3.

> **Please be warned that unauthorized person could access data transfer in a WiFi network. Therefore, it is advised to NOT wirelessly share data in a public WiFi network, especially when there is no password access set for the newwork.**

Wireless File Sharing

Connecting to Existing WiFi Network

Press ☰ button to join existing WiFi network. UDMA3 will scan for existing network and show all available networks.

	Join WLAN	
Select WLAN:		
☑ sanho_2.4GHz	🔒	90%
SANHO_WIFI-1	🔒	58%
SANHO_WIFI-2	🔒	47%
SANHO_WIFI-3	🔒	44%

Select a WiFi Network →

Press 'OK'

	Join WLAN
WLAN Info:	
SSID:	SANHO_WIFI-2
Encryption:	WPA2PSK(AES)
Channel:	IEEE802.11bgn - 6
Signal:	47% 300Mb/s

Input Password:

```
1 2 3 4 5 6 7 8 9 0 - =
q w e r t y u i o p [ ]
a s d f g h j k l ; ' \
z x c v b n m , . / ←
```

— Key in Password

⊹ Select   ▦ Switch   ☰ Done ←

Press ☰ once complete

Upper/Lower case

Press ↰ to cancel joining WLAN.

Wireless File Sharing

Accessing UDMA3 on mobile devices/computers

On your mobile phone or computer, go to <Settings>

Select <WiFi>, then select the Ad-hoc WiFi network created by UDMA3. For example, in this case is 'UDMA3_E4E6'

Settings	WLAN	
	WLAN	
Airplane Mode	UDMA3_E4E6	
WLAN UDMA3_E4E6	PERSONAL HOTSPOTS	
Bluetooth On		

Install the iUSBport App in your mobile device to access the UDMA3.

Where App is not available for some devices or computer, the UDMA3 can be accessed via Chrome or Safari browser. Enter the url http://100.0.0.1 or ftp://100.0.0.1 in the browser.

Photo Recover

This function can recover photos that have been accidentally deleted from a memory card into UDMA3 at one time.

Select 'Recover' from the Main Menu. The recover photos will be copied and store in the 'Recover' folder in the UDMA3. UDMA3 will not copy the recovered photos back into the memory card.

The following photos format can be recovered by UDMA3:

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

Once you have discovered that there are photos in a memory card that has been accidentally deleted, please refrain from using the memory card and try to recover the photos with the UDMA3 immediately. If you have overwritten the memory card with new files, you may not be able to recover the photos.
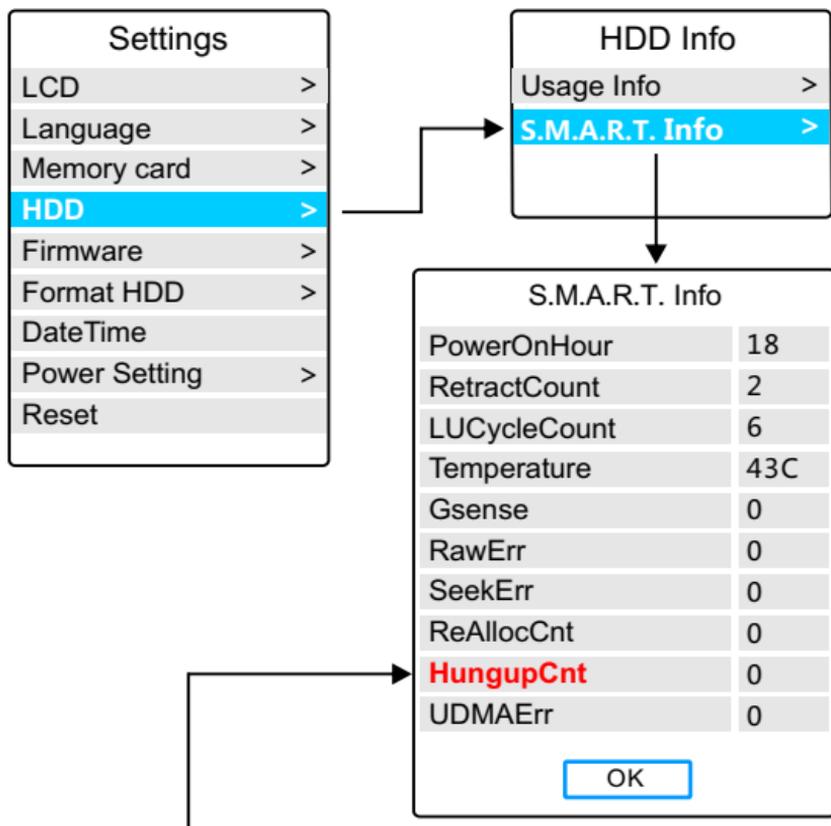
Settings

View Hard Drive S.M.A.R.T. Information

Hard drive conditions may deteriorate overtime from prolong usage. This feature allows user to check the conditions of a mechanical hard drive installed in the UDMA3.

S.M.A.R.T. stands for Self-Monitoring, Analysis and Reporting Technology. This feature detects and records any defect and foreseeable failures of the hard drive and warns user of any failure that may result in data loss.
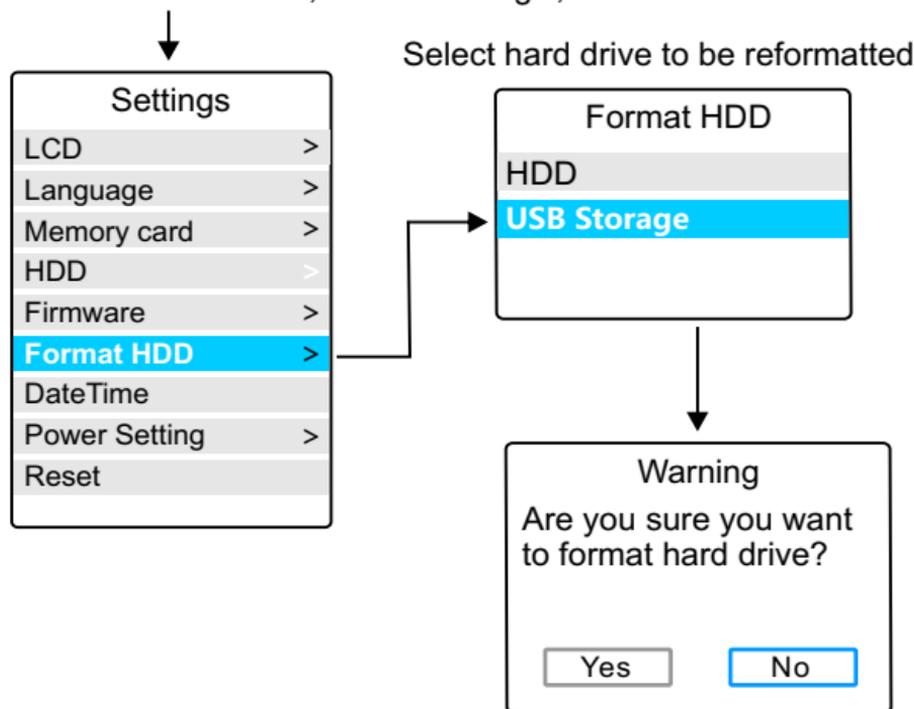
From the Main Menu, select 'Settings', then 'HDD'

Settings	
LCD	>
Language	>
Memory card	>
HDD	>
Firmware	>
Format HDD	>
DateTime	
Power Setting	>
Reset	

HDD Info	
Usage Info	>
S.M.A.R.T. Info	>

S.M.A.R.T. Info	
PowerOnHour	18
RetractCount	2
LUCycleCount	6
Temperature	43C
Gsense	0
RawErr	0
SeekErr	0
ReAllocCnt	0
HungupCnt	0
UDMAErr	0

OK

If the 'HungupCnt' reading has exceeded 10 units, please contact customer service and send us the complete S.M.A.R.T. information.

Settings

Formatting Hard Drive

Warning: Reformatting the hard drive will erase all files and data in the hard drive. Please connect the UDMA3 to external power supply if the battery power is low. The hard drive may be damaged if power supply is interrupted during the process.

From the Main Menu, select 'Settings', then 'Format HDD'

Select hard drive to be reformatted

Settings	
LCD	>
Language	>
Memory card	>
HDD	>
Firmware	>
Format HDD	>
DateTime	
Power Setting	>
Reset	

Format HDD
HDD
USB Storage

Warning
Are you sure you want to format hard drive?
Yes   No

The system will prompt you twice to warn you for data loss from reformatting. Select 'Yes' to proceed. Reformatting the hard drive to will erase all data and format the hard drive to a single partition FAT32 format.
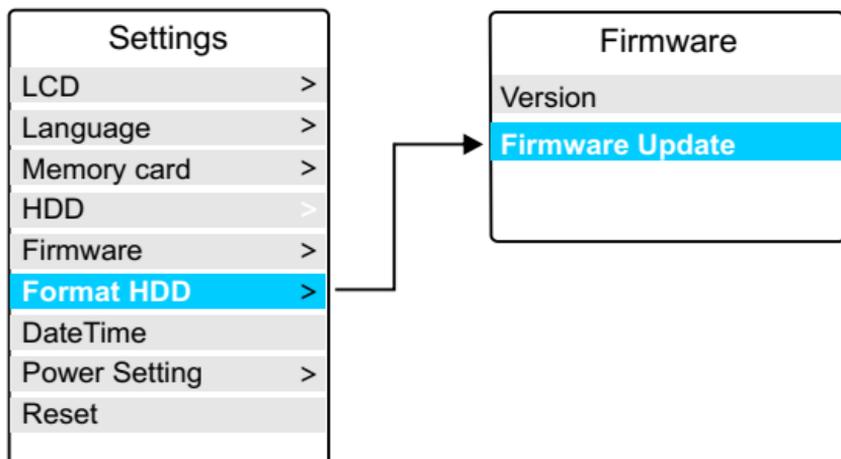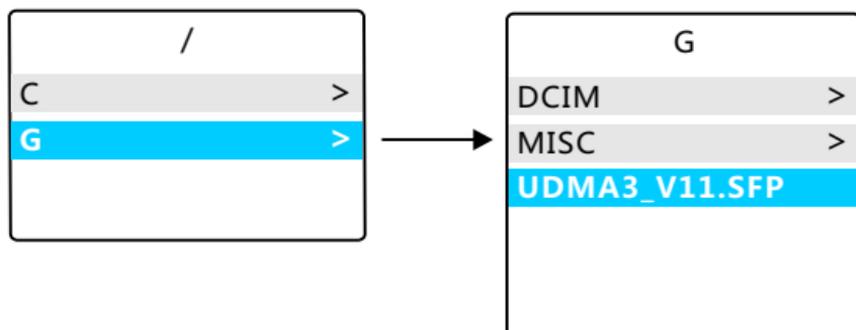
A message will display once completed.

Settings

Firmware Upgrade

Please download the latest firmware from www.hyperdrive.com
Store the SPF firmware file in a memory card. Then insert the
memory card into UDMA3.

From the Main Menu, select 'Settings'. Then, select 'Firmware'
> 'Firmware Update' .

Settings	
LCD	>
Language	>
Memory card	>
HDD	>
Firmware	>
Format HDD	>
DateTime	
Power Setting	>
Reset	

Firmware
Version
Firmware Update

Select the SPF firmware file from the file list window.

/	
C	>
G	>

G	
DCIM	>
MISC	>
UDMA3_V11.SFP	

Restart the UDMA3 once the firmware upgrade has
completed.

**Please do not remove the memory card and ensure
sufficient battery power or plug in the external power
supply. Interruption during firmware upgrade may
cause device malfunction.**

Settings

Specifications

Memory Card Slot	1 x Compact Flash Type I 2 x SD/MMC/SDHC/SDXC
USB Port	1 x USB3.0 Super Speed 5Gbps 1 x USB2.0 High Speed 480Mbps
Hard Drive Port	SATA, 2.5 inch, 9.5mm thickness (SSD hard drive compatible)
Built-In WiFi Adapter	WiFi IEEE802.11b/g/n 150 Mbps
Charging Port	Micro USB DC 5V/2A
LCD	3.5" TFT 320x480 Color LCD
Battery Life	2600mAh with Coulomb Meter Import Photos duration: 120mins
Dimensions	73mm x 136mm x 26mm