

Index

1. Introduction	1
Features	1
Accessories	1
Specifications	2
2. General Functions	3
Button/LED indicator	3
Front Panel	4
Right Panel	4
LCD Display	5
3. Using the X's-Drive II	6
Downloading files from memory cards	6
Downloading or Editing the files on PC	6
4. Driver Installation	7
Windows Me and Windows XP HomeEdition and Professional	7
Windows 98/98 SE ,Win2000 Professional	7
Macintosh MacOS 8.6 and 9.x	7
5. General Information	8
Memory card types	8
Connecting to PC	8
Data Transfer	10
Battery Recharge	10
Auto Power off Function	11
If an erroneous display/operation occurs	11
Care for the Hard Drive	11
Care for the unit	12
6. Troubleshooting	12
7. Frequently Asked Questions	16

1. Introduction:

X's-drive II, a new generation of X's-drive. Combining the **USB2.0 compatible interface** and **LCD panel** to tell user the working status, the user can simply transfer high-resolution photos or digital data from memory cards into the built-in HDD and monitor the working status via the LCD panel which tells the user the amount of battery power left and file transfer status, main storage out of memory or error indicator.

Features:

- USB 2.0 compatible to PC, transfer speed up to 480Mbps.
- Stand-alone palm-sized rechargeable storage device. No PCs required.
- Support SmartMedia, SD/MMC, Memory Stick and Memory Stick Pro, Compact Flash Type I/II, IBM MicroDrive.
- Infinite memory & storage expansion configuration with internal Hard Disk.
- Black and White LCD displays working status (no picture preview).
- Buzzer indicator.
- Fast & easy file transfer and storage with a simple button operating.
- Able to copy the data from memory card(s) into the internal hard drive .
- Able to create up to 9999 folders per type of card
- Back up all kinds of files as the 2.5" external HDD, USB card reader/writer.
- Auto shut off function to preserve energy in stand-alone mode.
- Convenient charged by a generic AC/DC adapter.
- 3.6V x 2 internal Li-Lon re-chargeable batteries
- Battery life : approx.1.6 hours.

Accessories:

- User's Guide
- USB Cable
- CD Driver
- AC/DC Adapter 100~240V auto-switched
- Li-ion Batteries (Already installed in X's-drive II)
- 2.5 inch Hard Disk (optional)
- Carry Bag (optional)

Specification:

ITEM	DESCRIPTION
Support Memory Card Interfaces	<ul style="list-style-type: none">• Compact Flash™ Card type I/type II (CF)• Smart Media™ Card (SM)• Memory Stick® (MS), Memory Stick Pro (MS Pro)• Secure Digital Card (SD)• MultiMedia Card (MMC)• IBM® MicroDrive
LCD	<ul style="list-style-type: none">• Main storage (HDD) out of memory indicator• Amount of battery power• Error reading indicator• Media type indicator• File transfer status• USB access• Charge status
Hard Disk Size	2.5 inch (2.5" HDD 9.5mm)
Hard Disk Capacity	Unlimited (Any 2.5" HDD)
Power Source	Internal Power: Li-ion rechargeable battery 3.6V x 2(720mA) External Power: 12V adapter (1500mA)
Supply Voltage	9V~18V
Supply Current	working:12V(360mA) / standby :175mA
Rechargeable battery life	Approx. 1.6 hours (A full charge)
Download interface	USB 2.0 interface port (Backward compatibility with USB 1.1)
Download Speed	Up to 480Mbps
Files System	Support Standard FAT 12/16/32
PC Peripheral	USB 2.0, USB1.1 Interface with standard storage device
OS supportability	<ul style="list-style-type: none">• Windows98/98SE; Win 2000 (with device driver)• Windows Me/XP, Linux Kernel version 2.4 or above without driver.• Linux Kernel version 2.4 or above without driver• Mac OS 8.6~9.0 with driver; Mac OS 10.01 above without driver
Accessories	Power Adapter/USB Cable/User's Guide/ Driver Disc/Carrying Bag (optional)
Operating Temperature.	0°C~70°C
Storage Temperature	-40°C~70°C
Humidity	90% RH
Weight	300gr (included 2.5" HDD & battery pack)
Dimension (L x W x H)	130 x 75 x 25 mm (5.12 x 2.95 x 0.98 inch)

2. General Functions:



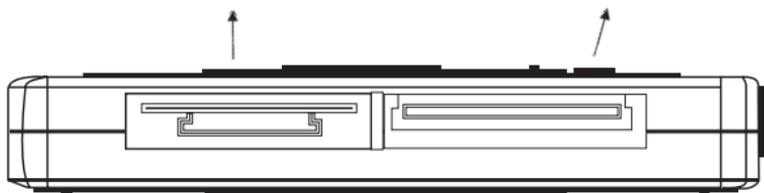
Button / LED indicator:

1	Power on / Battery Charge
2	Power on / off
3	Copy / Stop copying
4	LCD Screen (no picture review)

Front Panel:

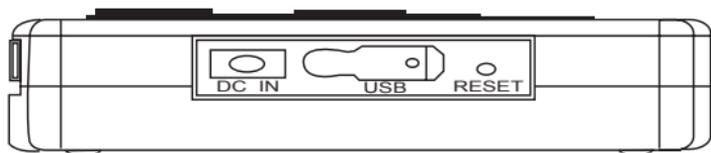
SM card slot:
For the SmartMedia card insertion

CF card slot:
For the CF card/Micro Drive insertion

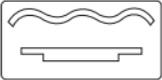
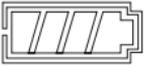


Memory Stick, MMC/SD card slot:
For MMC/SD/MS/MS Pro card insertion

Right Panel:



LCD Display

	<p>Main Storage (Hard Disk) out off memory</p>
	<p>Hard Disk Error Indicator</p>
	<p>Error Reading Indicator If the X's-drive II detected that a file on the memory card cannot be copied, the icon will prompt.</p>
	<p>Amount of battery power A flashing icon designates the battery is in low battery status.</p>
	<p>Main Storage (Hard Disk)</p>
<p>MS SM SD</p>	<p>Media type indicator The screen will show the icons identifying. The mdeia types correspondingly.</p>
<p>CF</p>	<p>A flashing icon designates the unit is in the transfer process or detected the error files.</p>
<p>Transfer □□□</p>	<p>USB Access A flashing icon designates the unit is in the process of being recongnized by the computer, when the process is complete, the icon will cease to flash.</p>

3. Using the X's-Drive II

Downloading files from memory cards

- a. Insert memory card(s) into X's-Drive II card slot.
- b. Power on the X's-Drive II then the buzzer will sound "Bi.."
- c. The LCD screen will show icons identifying the media types correspondingly.
(please refer to the section covering the "LCD Display" function..)
- d. Press the "Copy" button, files transfer function can be performed.

Downloading or Editing the files on PC:

- a. Connect the X's-Drive II and PC with the provided USB cable ,
- b. Power on the X's-drive II then the buzzer will sound "Bi.." and the "Transfer" icon will appear on LCD panel in about 2 seconds when being connected.
- c. Double Click the "My computer" icon, the operating system will display four "Removeable Disks" icons identifying the media types correspondingly.
(Please refer to the section covering "Connecting to PC ")
- d. You can then read, write,copy, delete and remove data on the PC.

4. Driver Installation

Windows Me and Windows XP HomeEdition and Professional

Windows Me and Windows XP HomeEdition and Professional users do not need to install any drivers. Windows will automatically detect your device as a "removable disc".

Windows 98/98 SE, Win2000 Professional

1 Insert your driver Installation into your CD-ROM drive and double click on "My computer".

2 Browse your CD-ROM drive and run "setup.exe "to begin driver installation.
Press "Next" and follow the installation instructions.

3 Restart your computer after installation is complete.

Macintosh MacOS 8.6 and 9.x

1 Insert your driver Installation into your CD-ROM drive and double click on "My computer" Browse your CD-ROM drive to "**MacOS Installer**".

2 Follow the installation instructions to begin installing drives.

3 Res Restart your computer after installation is complete.

5. General Information

Memory card types:

- ◆ Please use the following media for X's-Drive II
 - CF Card : Type I / II Compact Flash™ Card
 - SM Card : Smart Media™ Card
 - MMC : Multi Media Card
 - SD Card : Secure Digital Card
 - IBM®Micro Drive
 - Memory Stick® (MS), Memory Stick Pro (MS Pro)

Connecting to PC

- ◆ Operation system needing a driver:
 - Windows 98/98SE (Second Edition)
 - Windows 2000 Professional
 - MacOS 8.6 and 9.x

- ◆ Operation system with native support:
 - Windows Me (Millenium)
 - Windows XP Home Edition and Professional
 - MacOS X (10.1 or later)
 - Linux (kernel 2.4.x or later)

- ◆ Four Removable disk drives appear in My PC and in the Explorer whenever the X's-drive II is being connected to the system.
 - Under Windows 98, Windows 2000 Professional, the 4 Removable disk drives look like drives F, G, H and I in the following figure.
 - Under Windows Me, Windows XP, the 4 drives are shown in the usual Removable drive way .



- ◆When X's-drive II is begin connected to the computer, the " Transfer" icon keeps flashing during data transfers, when inserting a memory card into the slot, the corresponding icon will appear and also flashes during data transfer.

Until the flashing icons are ceased to flash and buzzer sound "Bi Bi "Operation system with native support:

DO NOT:

1. Disconnect unit from the computer
 2. Remove memory card(s) from the card slot Otherwise, there may be a chance of lost or corrupt data.
- ◆Under Windows 98SE, the X's-drive II should be connected to the system before the driver has been installed.
 - ◆Under Windows 2000 Professional, the X's-drive II should be connected to the system before the driver has been installed, only one Removable drive will appear in My PC, corresponding to the SD/MMC/MS memory slot. In this case, the driver must be installed and then it must be updated by means of the Device Manager.
 - ◆The X's-drive II is supported by the native MacOS X USB extensions, but DOS volumes are not adequately supported by MacOS 10.0.x and lose of data can occur. Upgrading to version 10.1 or later is mandatory.

Data Transfer

- ◆ All files transferred from each memory card are stored onto the Hard Disk in folders numerically, under the name "CF0001" , "MS0001" , "SM0001" , "SD0001".
- ◆ To stop the data transfer, just depress the copy button for 2seconds and the memory card(s) icon will cease to flash , the buzzer will sound"Bi Bi", then you can switch off the device.
- ◆ Once download is complete, the flashing icons will cease to flash and buzzer will sound.
- ◆ When the same card was inserted and copied twice, two different folders were created, X's-drive II won't overwrite the folder.

Battery Recharge:

- ◆ To charge the batteries, connect the plug of the AC adapter to DC 12V jack of the main unit, and when the LED indicator in the right upper side is off, it indicates that the batteries were fully charged.
- ◆ **Before using the recharge battery for the first time, charge it for 8hours, each full recharge takes approximately 3 hours.**
- ◆ The 3..6V Li-ion rechargeable battery can be recharged approximately 500 times.
- ◆ The batteries life are up to approx. 1.6 hours at working.
- ◆ Only use the Li-Ion rechargeable battery (3.6V x 2) , for additional battery packs, please contact your dealer.

Auto Power off Function:

- ◆ To preserve energy in stand-alone mode, X's-drive II will automatically shut-off if you do not execute the copy function during 25 seconds.

If an erroneous display /operation occurs:

- ◆ When the icom indicator of error & corresponding memory card light up, there may be a chance of corrupt data or the memory card is damaged, you can change another memory card or the main unit will be automatically switched off after 45 seconds.
- ◆ If any shut down caused by erroneous operation, you can depress the [reset] button located on the at the right side to switch off the main unit.
- ◆ If the unit operated via USB on to PC while the batteries are low, erroneous display / operation may occur, if this happens, unplug the USB cable, and press the [reset] button.

Care for the Hard Drive:

- ◆ If the computer or X's-Drive II can not detect the Hard Drive, check the suggested solutions:
 - Check the flat connector is plugged securely or not
 - Driver is not install-then reinstall
 - Formated the Hard Disk under Windows 2000
- ◆ Please don't use force when connecting the flat cable with the unit and Hard Drive.
- ◆ To keep your hard drive in better operating performance, we recommend to periodically run Scan Disk and Disk Defragmenter.
- ◆ Hard Drive must be formatted to the FAT or FAT-32 format, NTFS format is not compatible with this function.
- ◆ DOS (FAT-32) volumes are not adequately formatted by MacOS x, so that the X's-drive II must not be formatted under this environment.

Care for the unit:

- ◆ Please carefully insert and remove the memory card from each slot.
- ◆ Do not drop, jar, bump, shock the unit, or expose to severe vibration while data is being transmitted .
- ◆ To reduce the risk of electronic shock, do not remove cover (or back)
- ◆ To reduce the risk of fire or shock hazard, do not expose this equipment to rain, any liquid or moisture.

6. Troubleshooting.

Problem	Cause	Solution
While connected to the computer, the X's-drive II works great, but I cannot download files from the memory cards in the stand alone mode.	The disk or the memory cards are not formatted to the FAT file systems	To work in the stand-alone mode, both the disk and the memory cards must be formatted to the FAT or FAT-32 file systems.
Why sometimes the data in memory card transferred into Hard Drive looks faulty on PC.	There may be a chance of corrupt data or the memory card is damaged.	Please back up the data in the memory card and run ScanDisk, Dsik Defragmenter or reformat the memory card.
When I disconnect the X's-drive II from the computer , I get a message that I disconnected a device in an unsafe way.	The devices have not been stopped before disconnecting the X's-drive II.	<ul style="list-style-type: none">• Under Windows, the 4 devices must be stopped by the Stop hardware utility.• Under MacOS, the mounted devices must be thrown to the bin.• Under Linux, the mounted devices must be unmounted by the umount command.

Problem	Cause	Solution
Under Windows 98, the New hardware install wizard does not find a suitable driver in the CDROM.	The X's-drive II has been connected before installing the driver.	The driver must be installed before connecting the X's-drive II.
Under Windows, when trying to access to the X's-Drive II's hard disk, Windows asks me to insert a disk into the drive (W98 states that the device is not ready).	The hard disk device has been ejected.	Install the extension.
When I connect or eject the X's-Drive II under MacOS X, the volume does not appear or disappear from the desktop.	MacOS X issue.	Move the mouse. Sometimes the FAT volumes do not appear or disappear until after the mouse is being moved.
I formatted the disk by the MacOS X's Disk Utility, but it lasts very long in being mounted by either MacOS 9 or X, and Windows does not recognize the volume.	MacOS X issue.	The FAT-32 format made by MacOS X's Disk Utility is incorrect. Formatting must be done under MacOS 9.
Under MacOS X 10.0.x I have many problems with the disk, and I have even lost information	MacOS X issue.	MacOS 10.0.x does not adequately support FAT volumes. Upgrading to 10.1 or later is mandatory.

Problem	Cause	Solution
When I insert the CDROM into the CDROM drive under Windows, nothing happens.	The automatic execution of Autorun files from CDROM is not enabled in the system.	Run from the Explorer the Autorun.exe file located in the CD-ROM's root directory.
Under Windows 2000 only one removable drive appears (corresponding to the SD/MMC/MS memory slot).	The X's-Drive II has been connected before installing the driver.	Install the driver at first and then update the X's-Drive's driver by the Devices Manager.
Under Windows 98 / 2000, a red / yellow mark is shown in the Devices Manager next to the X's-Drive.	The driver has not been correctly installed.	Reinstall the driver, or select "Update driver" in the drive's Properties window.
Under Windows there are 4 removable drives, but I cannot read/write.	The media is not formatted.	Format the disk and the memory cards.
I cannot stop the device under Windows XP.	Windows XP issue: there is some open view of the X's-Drive II in My PC or in the Explorer.	Close every open view of the X's-Drive II in My PC and in the Explorer, and stop the device afterwards.
Under Windows, one or more of the X's-Drivell's removable drive icons has/have disappeared from My PC / Explorer.	Each removable drive icon disappears as soon as the corresponding device has been stopped.	To have all the drives visible again, the X's-Drive II must be disconnected and reconnected to the system.

Problem	Cause	Solution
When connecting the X'-Drive II under Linux, many input/output errors and READ CAPACITY errors with <code>sns = 70 2</code> , <code>ASC=3a</code> , <code>ASCQ=0</code> are shown by the dmesg command.	Nothing is wrong. This is only because the memory slot is empty at connecting time.	There is nothing to do. Accessing to memory cards is possible by inserting them into the memory slot and mounting the volume.
I want to format the partition under Linux, but I don't find the mkfs.msdos command.	The Dosutils package is not installed.	<ul style="list-style-type: none"> • Install the Dosutils package. • Alternately, the partition can be formatted under Windows or MacOS 9.
I have formatted the X's-Drive II under Windows, but I cannot mount the volume under Linux by the mount/dev/sdd1 command.	A different volume format called Superfloppy (not including a partition) is made by Windows.	To mount a Superfloppy volume under Linux, a partition number must not be specified in the device name: mount/dev/sdd .
I cannot make a back-up larger than 4 GB, although my X's-Drive II has more than that free space.	FAT-32 file system limitation.	The FAT-32 file system allows for files up to 4 GB in length. Split the back-up into blocks smaller than 4 GB.

7. Frequently Asked Questions

Question	Answer
What should I do if the X's-Drive II icon does not appear / disappear on the screen after inserting / extracting?	Simply click the "view" menu and select "Refresh" or press "F5" on the keyboard.
For the X'S-Drive II without Hard Disk, how easy can a 2.5 inches HD be installed?	<ul style="list-style-type: none">• If you insert your own Hard drive into the X's drive II, it will work if it has already been partitioned and formatted FAT.• Your 2.5 inches Hard drive must be 9.5mm thick-a 12mm won't fit in. You cannot partition a HD via the xs-drive connected on the USB port. You only can format the Hard Disk via the USB connection.
How to format the X's-Drive II?	<ul style="list-style-type: none">• Under MacOS, you can format by the Erase Disk option in the Finder's Special menu. The X's-Drive II cannot be formatted by the MacOS X's Disk Utility.• Under Windows, you can format by the Format option in the drive's menu.• Under Linux, a partition must be created by fdisk, and then formatted by mkfs.msdos.
I formatted the Hard Disk under Windows 2000 but the PC still can not detect the Hard Disk?	Because Windows 2000 can not format the new Hard Disk that doesn't have Partition Table, please format the Hard Disk on other operating system.
How many partitions can be made in the X's-Drive II?	<ul style="list-style-type: none">• Under MacOS and Windows only ONE volume spanning all the disk space can be done. Should the disk be previously partitioned, every partition can be reformatted, but the number or size of the partitions cannot be changed.• Under Linux several partitions can be created by fdisk.

Question	Answer
Can I work with the X's-Drive II under DOS or Windows NT, or booting Windows off a floppy disk, or booting Windows to the DOS symbol only?	As of today NO. DOS and Windows NT do not support USB. The only way to work with USB disks under systems not supporting USB, would be that the system BIOS could support USB disks.
Can I work with the X's-Drive II booting a system off a floppy disk or CDROM?	As of today only Linux supports USB when booting off a floppy disk or CDROM. Linux microdistributions on CDROM are available from third-parties.
When I connect the X'S-Drive II without the AC adapter to the USB port of my computer, it is powered automatically. Is the X'S-DriveII powered by the USB port?	When the X's drive II is connected to your computer via USB, it won't be powered by it. Thus the batteries will be drained if you don't connect the AC adapter.
I cannot transfer from my memory card to the X'S-Drive II at the end of the transfer, a ERROR READING icon is flashing. What is wrong?	To fix this problem, you need to format your memory card in your digital camera prior to it use with the X'S-Drive II. The memory card will work fine after.
What is the purpose of the Reset button on the X'S-Drive II?	In case that the X'S-Drive II hangs, you can reset it via this button-note that the data on the Hard disk will not be affected.

Question	Answer
<p>My computer only has USB-1 ports available. Can the X's-Drive II be connected?</p>	<p>The X's-Drive II is an USB-2 device, but it does not matter. Both USB-1 and USB-2 devices can be connected to USB-1 ports, as they are detected and managed in the corresponding way.</p>
<p>Can I format the X's-Drive II to the NTFS/HFS/HFS+/EXT2, etc, file systems?</p>	<p>The files downloading function from the memory cards to the hard disk is compatible only with the FAT/FAT-32 file systems (MacOS calls it DOS format).</p>
<p>Can I share the X's-Drive II among MacOS, Windows and Linux?</p>	<p>Yes, as all of them are compatible with the FAT file systems. Formating can be done under any of them (except under MacOS X), and files can be shared among all of them.</p>
<p>How to work with the X's-Drive II under Linux? Are drivers needed?</p>	<p>USB disks are supported under Linux from kernel 2.4.x. USB drivers are included in kernel 2.4.18 or later, and there are USB packages available to install under earlier 2.4.x versions.</p>

Thank you for choosing this product.

If you experience problems with X's-drive II

And cannot find answer in the previous troubleshooting sections, please contact your dealer.