User Manual
For Mac OS X 10.2 (Jaguar) and Mac OS X 10.3 (Panther)
Software Version 2.3

NetDisk™, NetDisk™ Mini & NetDisk™ Office
Powered by NDAS Technology

www.ximeta.de
Software Release Statement


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Introduction

Congratulations on your purchase of NetDisk™ / NetDisk™ Mini / NetDisk™ Office
- Network Direct Attached Storage (NDAS™) Solution!

NetDisk™ User Manual

This NetDisk™ User Manual is intended to help you install the product quickly and easily.

This NetDisk™ User Manual shows you how to install a NetDisk™ / NetDisk™ Mini / NetDisk™ Office onto your Personal Computer or Ethernet Network and begin using it immediately.

This NetDisk™ User Manual is intended for users who need to install and support one or more NetDisk™ / NetDisk™ Mini / NetDisk™ Office on their Personal Computer or Ethernet Network.

This NetDisk™ User Manual assumes the user has a basic understanding of Personal Computers and Networks.

NetDisk™ / NetDisk™ Mini / NetDisk™ Office Models Covered By This NetDisk™ User Manual

This NetDisk™ User Manual includes information on the following models:

NetDisk™

- NDU10-80
- NDU10-120
- NDU10-160
- NDU10-250

NetDisk™ Mini

- MNU10-40

NetDisk™ Office

- NOU10-250
Package Contents

The following items are included in the NetDisk™ / NetDisk™ Mini / NetDisk™ Office package:

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NetDisk™ / NetDisk™ Mini / NetDisk™ Office Modes

- **NDAS™ Mode**

  In NDAS™ Mode, NetDisk™ / NetDisk™ Mini / NetDisk™ Office is directly attached to a 100MB/Full Duplex Fast Ethernet Switch or Wireless Access Point (Wireless Access Point applies to NetDisk™ and NetDisk™ Mini only). Each user on the network can use NetDisk™ / NetDisk™ Mini / NetDisk™ Office as if it was a local disk drive.

- **USB 2.0 Mode**

  In USB 2.0 Mode, NetDisk™ / NetDisk™ Mini / NetDisk™ Office is directly attached to a computer’s USB Port.
Overview

NetDisk™

The World’s First Ethernet and USB Combined Hard Disk Drive

Thank you for purchasing NetDisk™. NetDisk™ is world’s first Ethernet and USB combined Hard Disk Drive that can be directly connected to the network without a server or host. It is the perfect storage and networking solution for the home, home office, workgroup and small / medium size businesses.

NetDisk™ provides a cost-effective network / storage solution: an external Hard Disk Drive to store all of your files in a central location.

NetDisk™ utilizes Network Direct Attached Storage (NDAS™) which was developed by XIMETA, INC. NDAS™ is world’s first fully developed concept of storage system that is directly connected to the network via the Ethernet without a server or host. This professional NDAS™ storage device provides a central location through which data is transferred and to where data is stored.

NetDisk™ is designed with ease of use and expandability in mind. This external storage solution combines high performance, reliability, security, and versatility.

NetDisk™ enables the connection of a Fast Ethernet Local Area Network with Windows, Mac or Linux client computers or other Fast Ethernet compliant devices.

NetDisk™ provides easy installation, operation, and maintenance of the storage system without professional networking knowledge, reducing the cost dramatically for business firms and well as for individuals.

NetDisk™ Features

- External and Portable Network Storage and Fast Ethernet Device
- Instant, High-speed storage
- Scalable – No bottleneck effect
- Sharing – NetDisk™ is available to all users with NetDisk™ ID and NetDisk™ software who are connected through a Local Area Network (LAN)
- Expandable – Virtually unlimited number of NetDisk™ can be added to the LAN
- Multiple Interfaces - Ethernet and USB 2.0
- Quick & Easy Installation – No IP address to configure
- DSL and Cable Modem compatible
- Compatible with Wireless Access Points / Routers
- Hot Swappable – No need to power down your computer when connecting and disconnecting
- Active Cooling System for professional applications
- Simple and Convenient – No servers, cumbersome management software, or IP configuration necessary
- Economical – Provides a cost-effective network storage solution
- User-Friendly; Plug-N-Play
Hard Disk Drive Features

- Advanced Network Storage, Network Direct Attached Storage – NDAS™
- Network Storage via Ethernet made possible through the use of NDAS™ Technology
- Instant network storage via Ethernet
- Pre-formatted in FAT32 format
- Secure data access allows the drive to be shared with just the people you want
- Stand-alone storage, no computer host needed
- Eliminates the need for servers and administrator management
- External and Portable Network Storage Device
- Multiple Interfaces - Ethernet and USB 2.0
- Aggregation – Allows multiple NetDisk™ units to recognize as one large drive
- Backup - Backup your data using NetDisk™ SureSaver
- Mirroring - Continuously creates and saves a copy of data in real time onto a second NetDisk™

NetDisk™ Mini

The World’s First Ethernet and USB Combined Portable Hard Disk Drive

Thank you for purchasing NetDisk™ Mini. NetDisk™ Mini is world’s first Ethernet and USB combined portable hard disk drive that can be directly connected to the network without a server or host. It is perfect storage and networking solution for the home, home office, workgroup and small / medium size businesses.

NetDisk™ Mini is a pocket-sized hard drive that combines high performance, expandability and reliability in a portable enclosure.

NetDisk™ Mini utilizes Network Direct Attached Storage (NDAS™) which was developed by XIMETA, Inc. NDAS™ is world’s first fully developed concept of storage system that is directly connected to the network via the Ethernet without a server or host. This professional NDAS™ storage device provides a central location through which data is transferred and to where data is stored.

NetDisk™ Mini is designed with ease of use, expandability, and portability in mind. This external storage solution combines high performance, reliability, security, versatility and portability.

NetDisk™ Mini enables the connection of a Fast Ethernet Local Area Network with Windows, Mac or Linux client computers or other Fast Ethernet compliant devices.

NetDisk™ Mini provides easy in installation, operation, and maintenance of the storage system without professional networking knowledge, reducing the cost dramatically for business firms and well as for individuals.
NetDisk™ Mini Features

- Full-featured drive in a tiny format - only 3" x 5.5"
- External and Portable Network Storage and Fast Ethernet Device
- Instant, High-speed storage
- Scalable – No bottleneck effect
- Sharing – NetDisk™ is available to all users with NetDisk™ ID and NetDisk™ software who are connected through a Local Area Network (LAN)
- Expandable – Virtually unlimited number of NetDisk™ can be added to the LAN
- Multiple Interfaces - Ethernet and USB 2.0
- Quick & Easy Installation – No IP address to configure
- DSL and Cable Modem compatible
- Compatible with Wireless Access Points / Routers
- Hot Swappable – No need to power down your computer when connecting and disconnecting
- Active Cooling System for professional applications
- Simple and Convenient – No servers, cumbersome management software, or IP configuration necessary.
- Economical – Provides a cost-effective network storage solution.
- Portable and Compact; User-Friendly; Plug-N-Play

Hard Disk Drive Features

- No power adaptor needed for NetDisk™ Mini when connected to your pc/laptop through USB
- Advanced Network Storage, Network Direct Attached Storage – NDAS™
- Network Storage via Ethernet made possible through the use of NDAS™ Technology
- Instant network storage via Ethernet
- Pre-formatted in FAT32 format
- Secure data access allows the drive to be shared with just the people you want
- Stand-alone storage, no computer host needed
- Eliminates the need for servers and administrator management
- External and Portable Network Storage Device
- Multiple Interfaces - Ethernet and USB 2.0
- Aggregation – Allows multiple NetDisk™ units to recognize as one large drive
- Backup – Backup your data using NetDisk™ SureSaver
NetDisk™ Office

Powerful Features in a Single Unit

Thank you for purchasing NetDisk™ Office. NetDisk™ Office combines NetDisk™ and an 8 Port Full Duplex Fast Ethernet Switch into one compact unit. It is the perfect integrated storage and networking solution for the home, home office, workgroup and small / medium size businesses.

NetDisk™ Office provides a cost-effective network / storage solution: a switch to route your network and an external Hard Disk Drive to store all of your shared files in a central location.

NetDisk™ Office is the first external Hard Disk Drive that can be connected to either your Local Area Network (LAN) via Ethernet or directly to any PC via USB 2.0 and can be used as a Fast Ethernet Switch with 8 ports. This professional NDAS™ storage device provides a central location through which data is transferred and to where data is stored.

NetDisk™ Office eliminates the need for two separate devices, you can create a custom Ethernet Network with built-in Network Storage to connect to your PC’s and store / share files.

NetDisk™ Office enables the connection of a Fast Ethernet Local Area Network with Windows, Mac or Linux client computers or other Fast Ethernet compliant devices.

It is easy to configure a Local Area Network using NetDisk™ Office. For basic operation, most default settings require no modification. The NetDisk™ Administrator Tool provides a graphical user interface (GUI) for easy installation and configuration of NetDisk™ Office.

NetDisk™ Office Features

- Central multimedia/data storage center
- Allow users to read, write, store and backup to a NetDisk™ simultaneously.
- External and Portable Network Storage and Fast Ethernet Device
- Multiple Interfaces - Ethernet and USB 2.0
- Full-featured external Hard Disk Drive with 8 Fast Ethernet Ports built in
- Eliminates the need for multiple network devices; a network switch and storage in one
- Hibernation Switch allows you to conserve power when not in use
- Quick and Easy Installation – No IP address to configure
- DSL and Cable Modem compatible
- Compatible with Wireless Access Points / Routers
- Hot Swappable – No need to power down your computer when connecting and disconnecting
- Active Cooling System for professional applications
Hard Disk Drive Features

- Advanced Network Storage, Network Direct Attached Storage – NDAS™
- Network Storage via Ethernet made possible through the use of NDAS™ Technology
- Instant network storage via Ethernet
- Portable USB Hard Disk Drive - supports USB 2.0 interface connections
- Pre-formatted in FAT32 format
- Secure data access allows the drive to be shared with just the people you want
- Stand-alone storage, no computer host needed
- Eliminates the need for servers and administrator management
- Aggregation – Allows multiple NetDisk™ units to recognize as one large drive
- Backup – Backup your data using SureSaver
- Mirroring - Continuously creates and saves a copy of data in real time onto a second NetDisk™

Fast Ethernet Switch Features

- Eight 10 MBps / 100 MBps, auto-detect Half / Full duplex switch ports with TX interfaces
- 2048 MAC addresses table
- Two queue for Qos
- Priority features by Port-Based, 802.1p VLAN & IP TOS of packets
- Store & Forward architecture and performs forwarding and filtering at non-blocking full wire speed
- 802.3x Flow Control pause packet for Full Duplex in case buffer is full
- Back Pressure function for Half Duplex operation in case buffer is full
- Packet length up to 1522 bytes
- Broadcast Storming Filter function
- 802.1Q VLAN. Up to 16/32 VLAN groups is implemented by the last four bits of VLAN ID
- MAC-clone feature
- TP interface Auto MDIX function for auto TX/RX swap by strapping-pin
- Easy Management 32bits smart counter for per port RX/TX byte/packet count, error count and collision count
- PHY status output for management system
Requirements

Hardware Requirements

**NDAS™ Mode** - Fast Ethernet -100BASE-T / Full Duplex / 802.3u, for wired configuration. Wireless - 802.11a, 802.11b or 802.11g, for wireless configuration
(Wireless applies to NetDisk™ and NetDisk™ Mini Only)

**USB 2.0 Mode** - USB 2.0

Software Requirements

Mac

Mac OS 10.2.X and Mac OS 10.3
Cable Installation

Warning

• Do not connect USB cable and Ethernet cable at the same time.

NetDisk™ Cable Installation

• Newer NetDisk™ does not have dip switches on them.
• Newer NetDisk™ has the capability of automatically recognizing NetDisk™ Mode without the dip switch. In such case, please skip step 1 (dip switch setting) from the instructions below.

NDAS™ Mode

(1) Flip both dip switches down to NDAS™ Mode.
(2, 3) Connect NetDisk™ to a switch (100 Base-T) with included Ethernet cable. Wireless users: Connect NetDisk™ to your wireless router or access point with included Ethernet cable.
(4) Make sure the power connector is connected firmly.

USB Mode
(1) Flip both dip switches up to USB Mode.
(2) Connect NetDisk™ directly to your PC’s USB Port using included USB cable.
(3) Make sure the power connector is connected firmly.

**NetDisk™ Mini Cable Installation**

- Turn on NetDisk™ Mini by sliding On / Off Switch to On position.

**NDAS™ Mode**

- Connect NetDisk™ Mini to a switch (100 Base-T) with included Ethernet cable.
  Wireless users: Connect NetDisk™ Mini to your wireless router or access point with included Ethernet cable.
- Make sure the power connector is connected firmly.

**USB Mode**

- Connect NetDisk™ Mini directly to your PC’s USB Port using included USB cable.

**NetDisk™ Office Cable Installation**

- Turn on NetDisk™ Office by sliding On / Off Switch to On position.

**NDAS™ Mode**

- Connect your Computers Ethernet Port to one of the eight NetDisk™ Office’s Switch Port using included Ethernet cable.
- Make sure the power connector is connected firmly.

**USB Mode**

- Connect NetDisk™ Office directly to your PC’s USB Port using included USB cable.
- Make sure the power connector is connected firmly.

**Note:**
From this point forward, NetDisk™ will be used to represent NetDisk™, NetDisk™ Mini and NetDisk™ Office.
NetDisk™ Software Installation

Installation of NetDisk™ software is simple and easy. Insert the included “NetDisk™ Installation CD” into your CD-ROM Drive. Easy-to-follow instructions will guide you through the installation.

- **Authenticate**
  - Enter Admin Name and Password. Then click **OK**.

- **Welcome to the NetDisk™ Installer**
  - Click **Continue**.
• Important Information
  - Click Continue.

• Software License Agreement
  - Click Continue.
• If you want to continue installation please click **Agree**. Otherwise click **Disagree**.

• Select a Destination
  - Click **Continue**.
• **Easy Install**
  - Click **Upgrade**.

Once NetDisk™ software is installed, NetDisk™ needs to be Added / Registered to your computer before you can start using NetDisk™.
Add / Register a NetDisk™

- Double click Macintosh HD icon on the desktop.
- Double click Applications folder.
- Double click NDAdmin icon.
- NetDisk™Admin window will appear.

- Enter NetDisk™ ID and Write Key.
- Click Add.
- Added NetDisk™ will be displayed in NetDisk™ IDs window.

NetDisk™ needs to be formatted before you can start using it. A warning window will appear reminding you to format NetDisk™ before using it. Go to the Formatting NetDisk™ Section for instructions.

To add a new NetDisk™, repeat the Add / Register a NetDisk™ steps.
Formatting NetDisk™

You will need to format NetDisk™ before you can start using it. NetDisk™ comes pre-formatted in NTFS File System Format.

- **Mac OS 10.3**
  - To write to a NetDisk™, NetDisk™ needs to be formatted in Mac OS, Mac OS Extended or FAT32 File System Formats.
  - Mac OS 10.3 will only allow users to read from a NetDisk™ that is formatted in NTFS File System Format.

- **Mac OS 10.2.X**
  - To write to a NetDisk™, NetDisk™ needs to be formatted in Mac OS, Mac OS Extended or FAT32 File System Formats.
  - Mac OS 10.2.X does not recognize NTFS File System Format.

**Mac OS File System Format**

- Once NetDisk™ registration is completed, a warning window will appear.
  - Click **Initialize** to format/partition the NetDisk™.

  - If a warning window does not appear, you can manually access **Disk Utility**.
  - Double click **Macintosh HD** icon on the desktop.
  - Double click **Applications** folder.
  - Double click **Utilities** folder.
  - Double click **Disk Utility** icon.
- **Disk Utility** window will appear.

- Select a NetDisk™ from the window on the left.
- Select **Erase** Tab
Volume Format
- Select a file system.
- We recommend **Mac OS Extended** or default file system.

Name
- Name is optional.

- Click **Erase** button.
- Select **Partition** tab.

Volume Scheme
- Select number of partitions.

Name
- Name is optional.

Format
- Select a file system.
- We recommend **Mac OS Extended** or default file system.

Size
- Do not need to change the size.

- Click **Partition** button.

NetDisk™ will appear on the desktop. If you partitioned the NetDisk™, each of the partitioned sections will appear as a hard disk on desktop.
Using NetDisk™Admin

- To Get NetDisk™Admin
  - Double click Macintosh HD icon on your desktop.
  - Double click Applications folder.
  - Double click NetDisk™Admin icon.
  - NetDisk™Admin window will appear.

- NetDisk™Admin has six functions:
  - Add - Add / Register a NetDisk™ to your computer.
  - Delete - Delete a NetDisk™ from your computer.
  - Disable - Disable Reading and Writing to NetDisk™.
  - Enable RW - Enable NetDisk™ into Read/Write Mode.
  - Enable RO - Enable NetDisk™ into Read Only Mode.
  - Quit - End NetDisk™Admin.

- NetDisk™ IDs Window
  - Displays all the NetDisk™ that are registered in the computer.

- Configuration Window
  - Displays NetDisk™ status user wants to achieve for that NetDisk™.

- Status Window
  - Displays current status of NetDisk™.
Using NetDisk™

Now that you have successfully installed NetDisk™, it’s time to familiarize yourself on using the NetDisk™. NetDisk™ can be found on the desktop.

Here are few examples of uses for NetDisk™.

- You can use NetDisk™ like any other hard drive on your system.
- Drag and drop files into NetDisk™.
- Copy and paste data to NetDisk™.
- Make and delete folders.
- Share files and folders.
- Backup files to NetDisk™.

NetDisk™ provides users with two basic functions; Read Only and Read / Write.

- **Read Only Mode**
  - Any number of users or applications can read from a NetDisk™.

- **Read/Write Mode**
  - Only one user or application can write to a specific NetDisk™ at a time.
  - No other users or applications can write to NetDisk™ until Read / Write Access is transferred.

If NetDisk™Admin window is not already opened, double click Macintosh HD icon on your desktop, double click Applications folder and double click NetDisk™Admin icon.
• Changing from Read/Write to Read Only
  - Select a NetDisk™ from NetDisk™ IDs window.
  - Click Enable RO button.
  - Both Configuration and Status will change to Read Only.
  - Now NetDisk™ is in Read Only Mode.

• Changing from Read Only to Read / Write
  - Select a NetDisk™ from NetDisk™ IDs window.
  - Click Enable RW button.
  - If Write Key was not entered during registration, a warning window will appear.
  - Close the warning window.
  - Fill in the Write Key.
  - Click Enable RW button.
  - If no other users or applications are using Read / Write Access, both Configuration and Status will change to Read / Write. Otherwise, the Configuration will change to Read / Write and Status will stay as Read Only.
  - Until both the Configuration and Status display Read / Write, NetDisk™ is still in Read Only Mode. Status of NetDisk™ will changed to Read / Write only after Read / Write Access is transferred.
  - Once both Configuration and Status displays Read / Write, NetDisk™ is in Read / Write Mode.
Changing FAT32 File System Format to NTFS File System Format

- Please follow below instructions to change File System Format from FAT32 to NTFS
  
  - Right click **My Computer**.
  - Select **Manage**.
  - Double click **Disk Management**.
  - Find NetDisk™ from the button window and right click on it.
  - Select **Delete Partition**.
  - **Delete primary partition** window may appear. Click **Yes**.
  - Delete all the partitions.
  - Once all of the partitions are deleted, right click unallocated NetDisk™ and select **New Partition**.
  - **Welcome to the New Partition Wizard** will appear. Click **Next**.
  - Select **Primary Partition**. Click **Next**.
  - Use the given **Partition size in MB**. Click **Next**.
  - For drive letter, use assigned drive letter or select a new drive letter. Click **Next**.
  - Select **Format this partition with the following settings**.
    - Select NTFS for **File system**
    - Select **Default** for **Allocation unit size**.
    - **Volume label** is optional.
    - Check **Perform a quick format**. Click **Next**.
  - **Completing the New Partition Wizard** will appear. Click **Finish**.
Using NetDisk™ in Mac OS and Windows Environment

Mac OS and Windows users can easily share the same NetDisk™ on a local area network.

- Connect NetDisk™ to a 100BASE-T / Full Duplex Switch.
- NetDisk™ and computers that need to use NetDisk™ must be on the same subnet.
- On Windows, install Windows Install CD and on Mac, install Mac Install CD.
- Register NetDisk™ onto Windows and Mac computers.

Older NetDisk™ default file system is NTFS File System Format. To share NetDisk™ in a Mac OS and Windows Environment, NetDisk™ must be formatted in FAT32 File System Format. NetDisk™ must be formatted to FAT32 from Windows.

Newer NetDisk has a default file system of FAT32. In such case, you do not need to re-format your NetDisk.

- Formatting NetDisk™ to FAT32 File System from Windows

  - Right click My Computer.
  - Select Manage.
  - Double click Disk Management.
  - Find NetDisk™ from the button window and right click on it.
  - Select Delete Partition.
  - Delete primary partition window may appear. Click Yes.
  - Wait until partition is deleted. It will be indicated by the word Unallocated.
  - Right click unallocated NetDisk™ and select New Partition.
  - Welcome to the New Partition Wizard will appear. Click Next.
  - Select Primary Partition. Click Next.
  - Type 32768 into Partition size in MB. Click Next.
  - For drive letter, use assigned drive letter or select a new drive letter. Click Next.
  - Select Format this partition with the following settings.
    - Select FAT32 for File system
    - Select Default for Allocation unit size.
    - Volume label is optional.
    - Check Perform a quick format. Click Next.
  - Completing the New Partition Wizard will appear. Click Finish.

  - A section of NetDisk™ will be partitioned into 32 GB FAT32.

  - Repeat Formatting NetDisk™ to FAT32 File System from Windows until rest of the unallocated portion of the NetDisk™ is formatted.
Frequently Asked Questions

General

• **What can NetDisk™ be used for?**
  - NetDisk™ can be used with a variety of applications. It is ideal for all users that cannot afford NAS systems, such as small to medium businesses, SOHO (Small Office Home Office), workgroups, departments, schools and public institutions. NDAS technology’s convenience and low cost provides the best storage solution for home / office networking.
    - Use as storage for Personal Computer and Home Networking (Storing and sharing files, backup / archiving, etc.)
    - Expanding storage requirements.
    - Business primary or secondary network storage.
    - Public institution’s storage for data archives, disclosed data, backups, and conservation of data.
    - Multimedia storage device (MP3s, Digital Photos, Digital Video).
    - Multi-platform networking (Simultaneous use from Macintosh, Windows, and Linux)
    - Non-PC / Non-Computing applications (security, CCTV, techograph recording, MRI, entertainment).

• **How is NetDisk™ different from NAS or SAN?**
  - NetDisk is more of a low cost alternative to NAS or SAN. It is more for the users looking for lower costs and storage associated with backup / archiving. Basically, both NetDisk™ and NAS are storage devices that are implemented over a network. In NAS, the hard disk is connected to a storage server and that server is connected to a network; but in contrast, NetDisk™ utilizes NDAS technology allowing it to connect the hard disk directly to a network without a server.
  - NetDisk is much more cost-effective, efficient and easy to use. It also takes up less space than NAS or SAN products.

• **What Operating Systems does NetDisk™ support?**
  - NetDisk™ currently supports Windows XP, Windows 2000, and Mac OS. Windows ME is only supported by USB. XIMETA will release beta software for Windows 98SE, Linux Red Hat 9.0 and Multi Write Sharing.
  - Unsupported operating systems can still use the NetDisk through Windows File Sharing. The computer which NetDisk is installed on will have to be turned on in order for other computers to access the NetDisk.
• **Can multiple users access the drive at the same time?**
  
  - Yes, multiple users can access NetDisk™ at the same time. However, write access is only granted to only one specific user at a time. An updated driver will be provided in November, 2003, that will enable multi-write access.

• **Are there any known issues with NetDisk™?**
  
  - Currently there is an issue with Hyperthreading and Dual Processors. Hyperthreading is a new technology that is associated with the new Pentium 4 Processors. We have just released a free beta version of the NetDisk™ software that addresses this issue.

  - There also is a compatibility issue when used with DLINK, SMC and US Robotics 802.11b wireless routers. With their 802.11b, there are no any problems. We are currently working on finding a solution.

  - When used with McAfee Virus Scan Professional 7.0, you must disable HAWK Script Stopper in McAfee, or disable McAfee from scanning before rebooting your computer upon installation of NetDisk software.

  - If Internet access is blocked after rebooting, you can do a System Restore or uninstall McAfee and internet access should be restored. More information can be provided by going to our troubleshooting section or by calling XIMETA Technical Support at 949-753-7983.

• **Does it matter what kind of device that NetDisk™ plugs into?**
  
  - Yes, NetDisk™ is recommended to be plugged into a 100Mb / full duplex capable switch. It can be plugged into a hub, but it is not supported and you may experience problems.

• **What files systems are supported by NetDisk™?**
  
  - NetDisk is not dependant on any file system. The file system on Operating System that you use NetDisk with will vary. Windows 98SE and ME supports FAT32. Windows 2000/XP supports FAT32 and NTFS (default NetDisk file system) LINUX and MAC OS X have their own file system, but also support FAT32 for use with Windows as well.

• **How many users can use a NetDisk™?**
  
  - Theoretically, there is no limit. Recommended users are 2 to 20.

• **Are the NetDisk™ drives preformatted?**
  
  - Yes, they are formatted with NTFS and can be reformatted and partitioned easily using your computer’s Operating System.
• For NDAS mode, do I need drivers installed on each PC that is using the NetDisk?
  
  - Yes, the easy to install drivers need to be loaded on each PC that needs access to NetDisk. This is unless you are using Windows Sharing. Then only one computer will have to have the software installed. The others will not need it.

• Where can I purchase NetDisk™?
  
  - Currently, NetDisk can be purchased at Best Buy, Fry's Electronics, CompUSA, PCMall, and TigerDirect. For locations nearest you, contact sales@XIMETA.com

• What type of service and warranty does NetDisk™ come with?
  
  - NetDisk™ comes with a one year limited warranty. Please note that if the device has been opened or tampered with in any way, the warranty will be void.

USB

• What USB version is NetDisk™ supported on?
  
  - NetDisk™ is supported on USB 1.1 and 2.0, but 2.0 is recommended.

• Is the NetDisk™ application required to use USB?
  
  - No, just make sure that the dip switches on the back of the NetDisk™ are in the up position. Make sure that NetDisk is powered off before changing dip switch settings.

Wireless

• I would like to use wireless with my NetDisk™; is this possible?
  
  - Yes it is possible, but XIMETA recommends that you use an 802.11a or 802.11g router. 802.11b will work, but because it is only 11mbps, transfer can take extremely long because of the low bandwidth, you may see errors. If using an 802.11b router or card, we recommend that you plug your computer directly into an unused port on your wireless router or switch with an Ethernet cable when doing large file transfers.

  - Currently there are compatibility issue when used with various DLINK, SMC and USRobotics 802.11b products. We are working to find a solution. NetDisk does work fine when used with their 802.11g wireless products. You may also experience problems when used with Wireless Bridges due to the way that they operate.
Aggregation & Mirroring

- **What is the maximum number of NetDisk™ that support aggregation?**
  - Aggregation can currently be done using two (2) NetDisk™, with support for ten (10) in the future.

- **When used with Mirroring, and one NetDisk™ goes down what happens?**
  - The kind of mirroring done with NetDisk™ software is basic. You must format before mirroring or aggregating NetDisk™.
  - If one NetDisk goes down, data will still be on the other NetDisk and can be accessed, but if you want to replace the down NetDisk, you must format both NetDisk again to recreate mirror.
Troubleshooting

General

- **How do I install NetDisk™?**

  NetDisk™ can be installed using either Ethernet or USB. Ethernet connection allows NetDisk™ to be used as a Network Storage Device; USB connection allows NetDisk to be used as a high-speed external hard drive.

  - To install in NDAS Mode (requires a 100 Mb / full duplex switch)

    - Mode switch in back of NetDisk should be set to NDAS / Ethernet, downward position, default is set to NDAS / Ethernet. NetDisk must be powered off to change switch setting.
    - Connect the Power Cable and LAN Cable, from NetDisk to power and switch respectively.
    - Install NetDisk™ software from Installation CD download from XIMETA website.

  - To install in Ethernet Mode (requires a cross-over cable which is not supplied)

    - Mode switch in the back of NetDisk should be set to NDAS / Ethernet, downward position, default is set to NDAS / Ethernet. NetDisk must be powered off to change switch setting.
    - Connect the Power Cable and Cross-Over Cable, from NetDisk to power and Ethernet port on computer, respectively.
    - Install NetDisk™ software from Installation CD download from XIMETA website.

  - To install in USB 2.0 Mode

    - Mode switch in the back of NetDisk should be set to USB 2.0, upward position. NetDisk must be powered off to change switch setting.
    - Connect the Power Cable and USB Cable, from NetDisk, to power and USB port on computer, respectively.
    - Computer should automatically recognize NetDisk. For Windows ME, Linux and MAC, NetDisk must me formatted to FAT32 or recognized file system.

- **When adding NetDisk to my computer, why does the "ADD" button stay gray?**

  - You may not have entered values correctly. The letter "O" is not used; please verify that you have used the number "0" (zero).

- **I have just installed NetDisk; why is the NetDisk showing up as a red color?**

  - Try unplugging your NetDisk power cord, wait about 10 seconds, and plug it back in. If this doesn't work, try restarting your computer.
**I am getting “NetDisk unplugged abnormally”?**

- NetDisk has lost connection to your computer. Please check your connections. Make sure that NetDisk is plugged into a 100mb/full duplex capable switch. NetDisk does not support hubs. If you have your switches uplinked to another one, try putting NetDisk and your computer on the same switch and retry.

- Try setting your Ethernet Port speed / duplex settings to 100 Mb / full duplex. This can be done by: Right clicking My Network Places, click on Properties, right click on Local Area Connection and click on Properties. Then click on the Configure button next to your Ethernet Port and click on the Advanced Tab. Click on Speed & Duplex drop down menu and select 100 Mb / full duplex.

- It is also possible that you have some energy saving features turned on such as Hibernation / Standby. Please check those as well.

- You can try going to your Ethernet Card manufacturer and downloading the latest driver.

- If using a Cable / DSL Router, try updating the firmware.

- Try plugging NetDisk and computer into a different port on the switch.

**I have installed the NetDisk key but cannot see NetDisk in "My Computer.” What should I do?**

- Open up "Computer Management" by right-clicking on "My Computer.” Go to "Manage," then click on "Disk Management.” Check to see if your NetDisk is recognized. It should show up as Disk 1 or Disk 2 or a different number depending on the number of drives that you have on your computer. Right-click on the appropriate "Disk #" and click "Initialize.". Also, for Windows ME / Linux / MAC users, you will need to format disk to FAT32 for it to be recognized.

**Why can’t my computer go into hibernation or standby?**

- If you want to use your computer in hibernation or standby, you must have NetDisk disabled before that can occur. Click on the NetDisk Admin Tool on you system tray- go to your NetDisk and then you should see a menu with Disable as one of the choices.

**I’ve just installed NetDisk software, and now my internet does not work.**

- This can happen when used with McAfee Virus Scan Professional 7.0; you must disable HAWK Script Stopper in McAfee, or disable McAfee from scanning before rebooting your computer upon installation of NetDisk software.

**I have clicked on the NetDisk Administrator Tool on my desktop and nothing happens.**

- The icon on the desktop is only used to launch NetDisk Administrator Tool into the system tray, if for some reason it is not in there. The icon in the system tray is used for Enabling, Disabling, Adding, Removing and switching Read / Write modes on NetDisk.
- I am getting a "Data has been corrupted" message on my computer when I try to open up or copy a file. What should I do?

  - Windows comes with a utility called "Scan Disk." Open up "My Computer," right-click on your NetDisk drive letter and click on "Properties." Go to the "Tools" tab and then click on the "Check Now" button under "Error-Checking."

- When I try to copy something to my NetDisk, why does the following show up: “Cannot copy NetDisk Administrator: The disk is write-protected. Remove the write-protection or use another disk.”?

  - You do not have Read / Write access. Click on the NetDisk Icon in your bottom-right system tray. Go to your NetDisk and then click on "Enable Read/Write."

- I getting this error message: “The device ‘Generic volume’ cannot be stopped right now. Try stopping the device again later.”?

  - Close any windows that are displaying your NetDisk and retry what you were trying to do. If you continue to get that error message, try rebooting your computer.

**USB**

- I have plugged in NetDisk to my USB port and cannot see NetDisk in My Computer.

  - Please make sure that both Dip Switches on the back of NetDisk are in the “UP” position. You must power off NetDisk completely before doing so. Try plugging NetDisk into a different USB port on your computer and see if that works. If using Windows ME, Linux, or MAC, please make sure that NetDisk is formatted in a supported files system. Windows ME requires FAT32. LINUX and MAC have their own file systems, but also support FAT32 as well. It is up to you to choose the appropriate one.

- My NetDisk shows up as a Black dot when used with USB.

  - When used with USB mode, the NetDisk Software not needed, therefore you will see a Black Dot (disconnected) in the system tray as that is an indicator for NDAS (Ethernet) mode.

**Wireless**

- My NetDisk cannot be seen when used with an 802.11b wireless router.

  - Please check your connection speed. Although it may say that connection is “Excellent”, speed may not be the same. There is also a compatibility issue when used with DLINK, SMC and US Robotics
802.11b products. We are working to find a solution. It does work fine when used with their 802.11g wireless products.

- **Why is my transfer speed slow?**
  - When used with 802.11b products, transmit speed is slow, there can be errors occurring. We recommend that when doing large file transfers, that you plug your computer into a switch to do the transfer.

**Aggregation & Mirroring**

- **I cannot Aggregate or Mirror NetDisk?**
  - Please make sure that your NetDisk is disabled before mirroring or aggregating them.
Regulatory Statements

United States (FCC)

The computer equipment described in this manual generates and uses radio frequency (RF) energy. If the equipment is not installed and operated in strict accordance with the manufacturer's instructions, interference to radio and television reception might result.

This equipment complies with Part 15 of the FCC Rules. Operation is subject to the following 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.

Part 15, Class B, of the FCC Rules, is designed to provide reasonable protection against radio and television interference in a residential installation. Although the equipment has been tested and found to comply with the allowed RF emission limits, as specified in the above cited Rules, there is no guarantee that interference will not occur in a particular installation. Interference can be determined by turning the equipment off and on while monitoring radio or television reception. The user may be able to eliminate any interference by implementing one or more of the following measures:

- Reorient the affected device and/or its receiving antenna.
- Increase the distance between the affected device and the computer equipment.
- Plug the computer and its peripherals into a different branch circuit from that used by the affected device.
- If necessary, consult an experienced radio/television technician for additional suggestions.

European Community (CE)

This product conforms to the following European Directive(s) and Standard(s):

Application of Council Directives:

- EC directive 89/336/EEC.

Importer's Name: XIMETA, Inc.

Type of Equipment: Information Technology Equipment.

TRANSLATION: Störfestigkeit nach EN 50082-1 (89/336/EEC) wird erfüllt.

XIMETA, Inc.
15251 Alton Parkway
Irvine, CA 92618
Product Warranty

XIMETA, Inc. provides a warranty for its product only if the buyer originally purchased the product from:

XIMETA, or an authorized Reseller / Distributor.

Limited Hardware Warranty: XIMETA warrants that the hardware portion of the XIMETA products ("Hardware") described below will be free from material defects in workmanship and materials from the date of original retail purchase of the Hardware, for the period set forth ("Warranty Period").

Limited Warranty for the Products(s) is defined as follows:

Hardware (NetDisk™ unit, excluding power supplies)

XIMETA’s sole obligation shall be to repair or replace the defective device at no charge to the original owner. Such repair or replacement will be rendered by XIMETA at an Authorized XIMETA Service Office. The replacement Hardware need not be new or of an identical make, model or part; XIMETA may in its discretion replace the defective hardware (or any part thereof) with any reconditioned product that XIMETA reasonably determines is substantially equivalent (or superior) in all material respects to the defective Hardware. The Warranty Period shall extend for an additional ninety (90) days after any repaired or replaced Hardware is delivered. If a material defect is incapable of correction, or if XIMETA determines in its sole discretion that it is not practical to repair or replace the defective Hardware, the price paid by the original purchaser for the defective Hardware will be refunded by XIMETA upon receipt of the defective Hardware. All Hardware (or any part thereof) that is replaced by XIMETA, or for which the purchase price is refunded, shall become the property of XIMETA upon replacement or refund.

Limited Software Warranty: XIMETA warrants that the software portion of the product ("Software") will substantially conform to XIMETA’s then current functional specification for the Software, as set forth in the applicable documentation, from the date of original delivery of the Software for a period of ninety (90) days ("Warranty Period"), only if the Software is properly installed on approved hardware and operated as contemplated in its documentation. XIMETA further warrants that, during the Warranty Period, the magnetic media on which XIMETA delivers the Software will be free of physical defects. XIMETA’s sole obligation shall be to replace the non-conforming Software (or defective media) with Software that substantially conforms to XIMETA’s functional specifications for the Software. Except as otherwise agreed by XIMETA in writing, the replacement Software is delivered. If a material non-conformance is incapable of correction, or if XIMETA determines in its sole discretion that it is not practical to replace the non-conforming Software, the price paid by the original license for the non-conforming Software will be refunded by XIMETA; provided that the non-conforming Software (and all copies thereof) is first returned to XIMETA. The license granted respecting any Software for which a refund is given automatically terminates.

What You Must Do For Warranty Service:

Registration is conducted via a link on our Website (http://www.XIMETA.com). Each product purchased must be individually registered for warranty service within ninety (90) days after it is purchased and/or licensed.

FAILURE TO PROPERLY REGISTER MAY AFFECT THE WARRANTY FOR THE PRODUCT.

Submitting a Claim:

Any claim under this limited warranty must be submitted in writing before the end of the Warranty Period to an Authorized XIMETA Service Office.

The customer must submit as part of the claim a written description of the Hardware defect or Software nonconformance in sufficient detail to allow XIMETA to confirm the same.
The original product owner must obtain a Return Material Authorization (RMA) number from the Authorized XIMETA Service Office and if requested, provide written proof of purchase of the product (such as a copy of the date purchase invoice for the product) before the warranty service is provided.

After an RMA number is issued, the defective product must be packaged securely in the original or other suitable shipping package to ensure that it will not be damaged in transit, and the RMA number must be prominently marked on the outside of the package.

The customer is responsible for all shipping charges to and from XIMETA (No CODs allowed). Products sent COD will become the property of XIMETA Inc. Products should be fully insured by the customer and shipped to:

XIMETA, Inc.
15251 Alton Parkway
Irvine, CA 92618

XIMETA may reject or return any product that is not packaged and shipped in strict compliance with the foregoing requirements, or for which an RMA number is not visible from the outside of the package. The product owner agrees to pay XIMETA’s reasonable handling and return shipping charges for any product that is not packaged and shipped in accordance with the foregoing requirements, or that is determined by XIMETA not to be defective or non-conforming.

What is not covered:

This limited warranty provided by XIMETA does not cover: Products that have been subject to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, repair or service in any way that is not contemplated in the documentation for the product, or if the model or serial number has been altered, tempered with, defaced or removed; Initial installation, installation and removal of the product for repair, and shipping costs; Operational adjustments covered in the operating manual for the product, and normal maintenance; Damage that occurs in shipment, failures due to power surge, and cosmetic damage; and Any hardware, software, firmware or other products or services provided by anyone other than XIMETA.

Disclaimer of Other Warranties:


Limitation of Liability:

TO THE MAXIMUM EXTENT PERMITTED BY LAW, XIMETA IS NOT LIABLE UNDER ANY CONTRACT, NEGLIGENCE, STRICT LIABILITY OR OTHER LEGAL OR EQUITABLE THEORY FOR ANY LOSS OF USE OF THE PRODUCT, INCONVENIENCE OR DAMAGES OF ANY CHARACTER, WHETHER DIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL (INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF GOODWILL, WORK STOPPAGE, COMPUTER FAILURE OR MALFUNCTION, LOSS OF INFORMATION OR DATA CONTAINED IN, STORED ON, OR INTEGRATED WITH ANY PRODUCT RETURNED TO XIMETA FOR WARRANTY SERVICE) RESULTING FROM THE USE OF THE PRODUCT, RELATING TO WARRANTY SERVICE, OR ARISING OUT OF ANY BREACH OF THIS LIMITED WARRANTY, EVEN IF XIMETA HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. THE SOLE REMEDY FOR A BREACH OF THE FOREGOING LIMITED WARRANTY IS REPAIR, REPLACEMENT OR REFUND OF THE DEFECTIVE OR NON-CONFORMING PRODUCT.

GOVERNING LAW:

The applicable laws, that govern, interpret and enforce rights, duties, and obligations of each party arising from, or relating in any manner to, the subject matter of this Statement, without regard to conflict of laws principles, as well as Country-unique terms and competent court for this Statement are those of the country in which the warranty service is being provided.
Consumers in the EUROPEAN UNION have legal rights under the applicable national legislation governing the sale of consumer goods. Such rights are not affected by the warranties provided in this Statement of Limited Warranty.

**WARRANTY PERIOD**

Unless otherwise provided by mandatory law the warranty period is one year.

**THE FOLLOWING TERMS APPLY TO THE COUNTRIES SPECIFIED:**

**AUSTRIA, BELGIUM, DENMARK, FINLAND, FRANCE, GREECE, ITALY, NETHERLANDS, NORWAY, PORTUGAL, SPAIN, SWEDEN AND SWITZERLAND**

Except as otherwise provided by mandatory law:

1. XIMETA's liability to any damages and losses that may arise as a consequence of the fulfillment of its obligations under or in connection with this Statement of Limited Warranty or due to any other cause related to this Statement of Limited Warranty is limited to the compensation of only those damages and losses proved and actually arising as an immediate and direct consequence of the non-fulfillment of such obligations (if XIMETA is at fault) or of such cause, to a maximum amount equal to the charges the buyer paid for the product.

The above limitation shall not apply to damages for bodily injuries (including death) and damages to real property and tangible personal property for which XIMETA is legally liable.

2. **UNDER NO CIRCUMSTANCES IS XIMETA, ITS SUPPLIERS OR RESELLERS LIABLE FOR ANY OF THE FOLLOWING, EVEN IF INFORMED OF THEIR POSSIBILITY:** 1) LOSS OF, OR DAMAGE TO, DATA; 2) INCIDENTAL OR INDIRECT DAMAGES, OR FOR ANY ECONOMIC CONSEQUENTIAL DAMAGES; 3) LOST PROFITS, EVEN IF THEY ARISE AS AN IMMEDIATE CONSEQUENCE OF THE EVENT THAT GENERATED THE DAMAGES; OR 4) LOSS OF BUSINESS, REVENUE, GOODWILL, OR ANTICIPATED SAVINGS.

**GERMANY**

The warranty for an XIMETA Product covers the functionality of the Product for its normal use and the Product's conformity to its Specifications.

In case XIMETA or your reseller is unable to repair an XIMETA Product, you can alternatively ask for a partial refund as far as justified by the reduced value of the unrepaired Product or ask for a cancellation of the respective agreement for such Product and get your money refunded.

During the warranty period, transportation for delivery of the failing Product to XIMETA will be at XIMETA's expense.

The limitations and exclusions specified in the Statement of Limited Warranty will not apply to damages caused by XIMETA with fraud or gross negligence and for express warranty.

**IRELAND**

Except as expressly provided in these terms and conditions, all statutory conditions, including all warranties implied, but without prejudice to the generality of the foregoing all warranties implied by the Sale of Goods Act 1893 or the Sale of Goods and Supply of Services Act 1980 are hereby excluded.

XIMETA is liable to no more than
1. Death or personal injury or physical damage to the owners real property solely caused by XIMETA's negligence;
2. the amount of any other actual direct damages, up to 125 percent of the charges (if recurring, the 12 months' charges apply) for the Product that is the subject of the claim or which otherwise gives rise to the claim.
ITALY

Unless otherwise provided by mandatory law XIMETA's liability, will be limited to the total amount the owner paid for the Product that is the subject of the claim.

Unless otherwise provided by mandatory law, XIMETA and your reseller are not liable for any indirect damages, even if XIMETA or your reseller is informed of their possibility.

UNITED KINGDOM

XIMETA is liable to no more than
1. Death or personal injury or physical damage to the owners real property solely caused by XIMETA's negligence;
2. the amount of any other actual direct damages, up to 125 percent of the charges (if recurring, the 12 months' charges apply) for the Product that is the subject of the claim or which otherwise gives rise to the claim;

NOTICE:

These Statement has been executed in English and translated into different languages. In any case the English version shall prevail.
Additional Information and Assistance

For additional information, frequently asked questions or troubleshooting help, please refer to the NetDisk™ User Manual.

Assistance is also available by contacting XIMETA, Inc. Whenever you contact XIMETA, Inc. for technical support, please have the following information available:

- Product Name
- Model
- Serial Number
- Software Version

How to Contact XIMETA, Inc.:

Technical Support by Telephone:

Technical Support: 949-753-7983
Fax: 949-753-7887

Technical Support by E-Mail:

Our e-mail address for technical support is support@XIMETA.com.

Technical Support on the Internet:

For the latest information on NetDisk™ / NetDisk™ Mini / NetDisk™ Office and FAQ, visit our website at www.XIMETA.com.