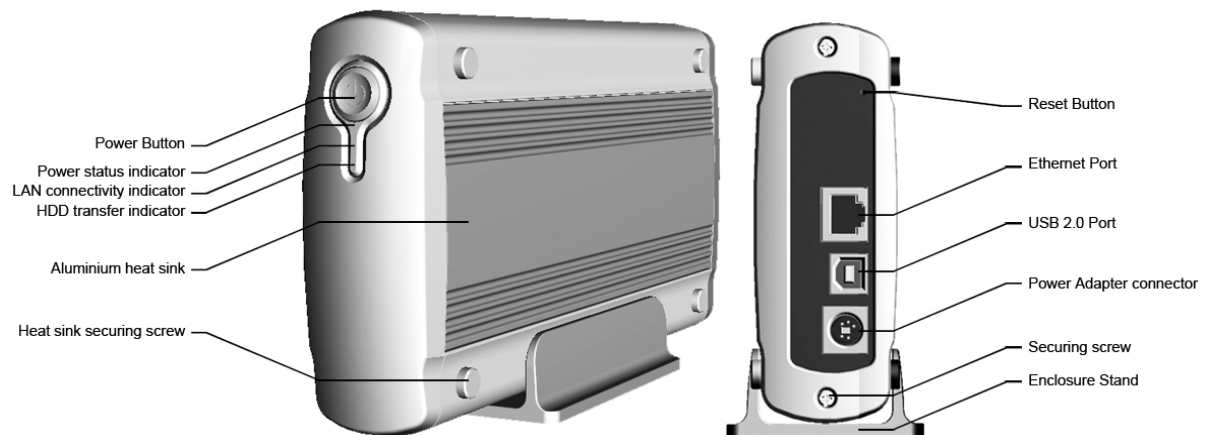


Overview

The LanDrive enclosure adds the convenience of network-attached storage to homes and in small businesses, providing you a central storage location for your data and letting you share data across your network.

At the first glance



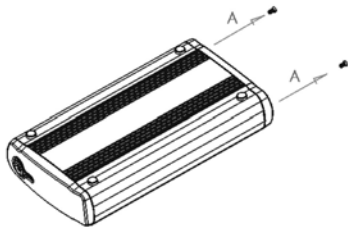
What's in the Package

- LanDrive main unit
- LanDrive vertical stand
- Securing screws
- Network cable (category 5)
- USB cable
- Power Adapter
- User Guide

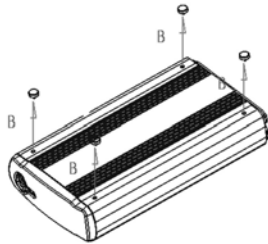
Minimum System Requirements

- Apple Safari; Linux Mozilla; Internet Explorer 5.x; Netscape 6.2.x & up
- Windows XP/2000/Me/98se, Mac OS 10.3.x or above, Linux
- 3.5" IDE UMDA Hard drive formatted to FAT32 format

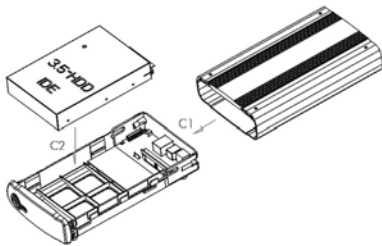
Hardware Installation



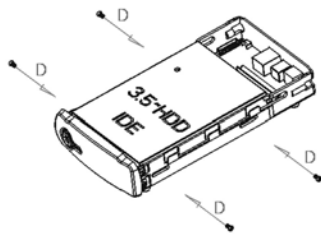
- A. Remove the two screws on the back of the enclosure with a Philips screwdriver.



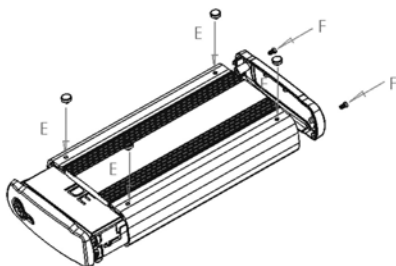
- B. Loosen the four screws on the surface of the unit. These screws will be used later to minimize the gap between the heat sink and your hard drive.



- C. The plastic bracket should slide out effortlessly. Insert your hard drive, connect the IDE and power cable from the enclosure accordingly. Please ensure that your hard drive jumper setting is configured at Master.



- D. Secure your hard drive to the bracket with the four screws that are included in the package.



- E. Reverse the procedure by re-inserting the bracket to the aluminum casing and securing all the screws that was previously removed. Congratulations, you have completed the hardware installation

Connecting the LanDrive to your Computer

The LanDrive is a multifunctional hard drive enclosure. In addition to being a network storage device, you can also use it as a standalone external hard drive via the USB interface.

Max OS X

Driver installation is not required for systems using Mac OS 10.1.2 or above. Simply connect the LanDrive using the included USB cable and access the data by clicking the "Untitled" HDD icon located on your Desktop.

Windows XP & Windows ME

Driver installation is not required for Windows XP and Windows Me. Simply connect the LanDrive using the included USB cable and access the data via "My Computer".

Windows 98 (Download Drivers)

To utilize the USB connectivity, please visit the following URL for to download the driver:

<http://www.usbex.com/landrive>

Please ensure that you install the device driver before connecting the USB port. When you complete the driver installation, reboot your computer, connect the LanDrive to your computer and access the data via "My Computer"

You can also access data in the LanDrive connecting it directly using the Ethernet cable with your computer. The LanDrive will have a default IP of 169.254.0.1 when connected directly.

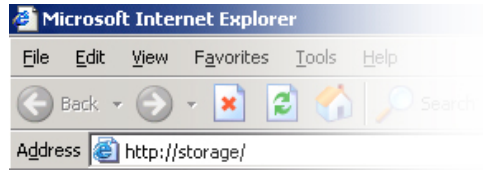
Connecting to your Network

Connect the power adapter to the back panel of the LanDrive and plug the other end to a wall outlet or power strip. Connect the network cable to the LAN port on the back of the LanDrive and the other end of the network cable to a port on your hub, switch or router.

The Ethernet port on the LanDrive is Auto-MDI/MDIX, which means you can connect it using either a crossover or a direct network cable.

Configuring the LanDrive

The LanDrive features a web-based control interface to manage your settings. If you are using an operating system other than Windows, please refer to next section labeled "Other Operating Systems".



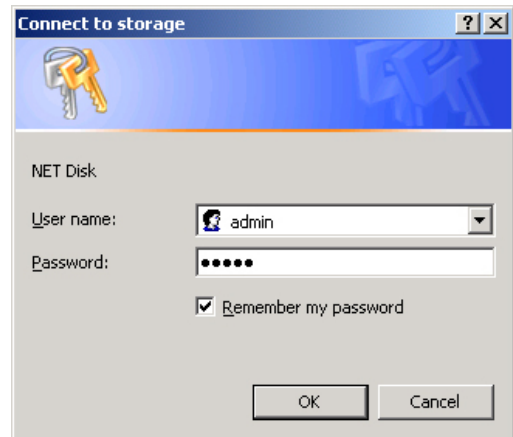
Open your web browser and enter <http://Storage> or <http://Storage-XXXX> in the URL address field. You can also enter the IP address of the LanDrive.

Enter the default login information:

Username: admin

Password: admin

For security purposes, your login information can be changed via the web control interface.



When two new LanDrives are simultaneously connected to your network, you need to distinguish between the two by typing "<http://Storage-XXXX>" with their unique MAC address. Please refer to the sticker on the rear panel for the address and replace XXXX with the last four digits of the MAC address.

For example if your LanDrive's MAC Address is 00-14-3F-AA-01-68, you will need to enter "<http://Storage-0168>" in the URL address bar.

Configuring the LanDrive (Other Operating Systems)

When you are planning to perform administrative tasks from a different operating system, you will need to input IP address of the LanDrive in the browser URL address bar.

If you do not know the IP address of the LanDrive, you will have to do this additional procedure. You will need to connect the LanDrive directly to your computer, input the default IP address 169.254.0.1 in the browser URL address bar to access the web control panel.

Upon a successful login, you will see the following screen.

The screenshot shows the LAN-DRIVE WEB CONTROL PANEL interface. On the left is a vertical menu bar with the following options: Status, IP Config, Maintenance, SMB Server, FTP Server, and Disk Utility. The main content area is titled 'System Information' and contains three sections:

- System Information:** A table with fields for Host Name (STORAGE), Group Name (WORKGROUP), Administrator (admin), Date/Time (2005/06/29 17:38:31 GMT8), Language (English), and Firmware Version (NAS-BASIC25). Each field has a 'Change' button, except for Language which has a 'Submit' button.
- Network Information:** A section with fields for IP Address (192.168.0.103) and DHCP Server (OFF). There are radio buttons for ENABLE and DISABLE (DISABLE is selected), and an 'Apply' button.
- Disk Information:** A section with fields for Disk ID ([master] HDS722512VLAT80 V330A6MA), Free Size (115808 MB free), and Total Size (117800 MB).

An overview description of the functions on the left menu bar:

Status	Shows the data related to your LanDrive such as networking status and hard drive information. You may also edit administration and file language settings here.
IP Config	Allows you to manually configure the IP address of the LanDrive
Maintenance	Perform firmware upgrade, reboot or reset the LanDrive
SMB Server	Configure the Samba feature of LanDrive for the home/office network file sharing capabilities. You can also create/remove folders and their share permissions.
FTP Server	Configure the FTP features of the LanDrive. You may add/remove users and their permissions.
Disk Utility	Perform hard drive maintenance routines such as Scandisk and Format.

Status – System Information

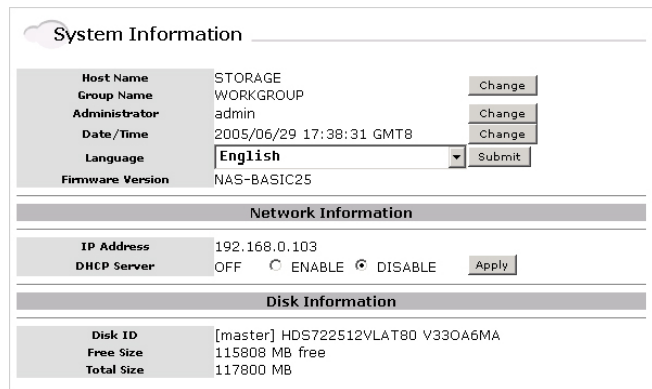
The welcome screen displays the IP address, firmware version and the hard drive information such as the hard drive type and storage space available.

The administrator may change the web control panel login information in here.

You may also change the default

hostname of your LanDrive here. Keep in mind that after you change the hostname, you will need to use it to access your LanDrive. For example, if you changed your hostname to "FileServer", please type "http://FileServer" to access the Web Control Panel after you submitted your changes.

The Language setting is used to recognize files with characters other than English. If you have trouble reading your files on the LanDrive, please select the appropriate language.



System Information		
Host Name	STORAGE	Change
Group Name	WORKGROUP	Change
Administrator	admin	Change
Date/Time	2005/06/29 17:38:31 GMT8	Change
Language	English	Submit
Firmware Version	NAS-BASIC25	

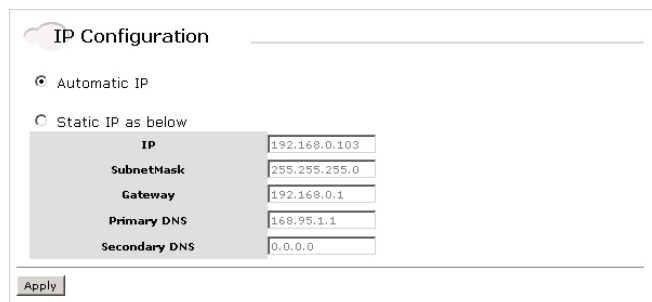
Network Information		
IP Address	192.168.0.103	
DHCP Server	OFF <input type="radio"/> ENABLE <input checked="" type="radio"/> DISABLE	Apply

Disk Information	
Disk ID	[master] HDS722512VLAT80 V330A6MA
Free Size	115808 MB free
Total Size	117800 MB

When you reset the LanDrive, either by the hardware switch or through the web control panel, all the settings will return to the default setting including the hostname. The default hostname will remain as Storage-XXXX (where XXXX is the last four digits of the MAC address).

IP Configuration

The administrator may use this option to manually define the IP address of the LanDrive. If the hub/router/switch in your network has a DHCP server, then the LanDrive will automatically be assigned an IP address.



IP Configuration	
<input checked="" type="radio"/> Automatic IP	
<input type="radio"/> Static IP as below	
IP	192.168.0.103
SubnetMask	255.255.255.0
Gateway	192.168.0.1
Primary DNS	168.95.1.1
Secondary DNS	0.0.0.0

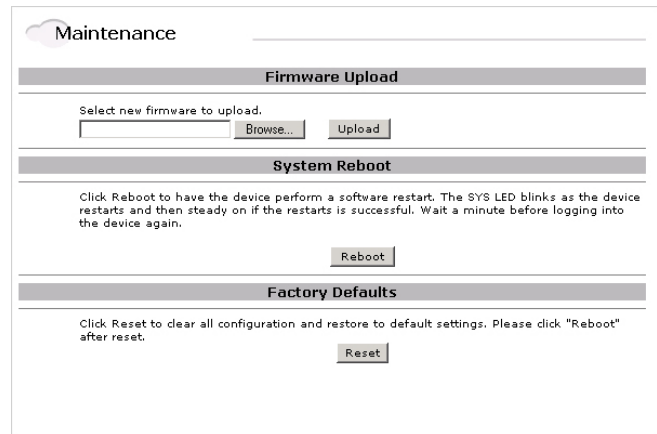
Apply

The LanDrive can also act as a DHCP server when one is not present in your network. The default IP of the LanDrive in DHCP server mode is "169.254.0.1" and any device that is linked to the network containing will be assigned an IP of "169.254.0.x" automatically.

Maintenance

The administrator can perform maintenance tasks on the LanDrive here.

Update the firmware only if you are experiencing problems with your LanDrive. New firmware files are available to download from our website:
<http://www.usbex.com/landrive>



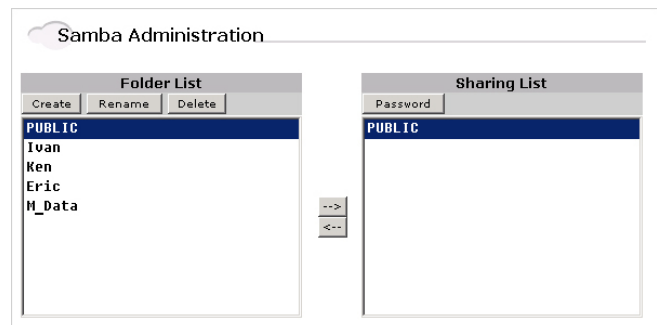
The screenshot shows a web interface titled "Maintenance". It contains three main sections: "Firmware Upload", "System Reboot", and "Factory Defaults". The "Firmware Upload" section has a text input field for selecting a new firmware file, with "Browse..." and "Upload" buttons. The "System Reboot" section has a "Reboot" button and a note explaining that clicking Reboot will restart the device. The "Factory Defaults" section has a "Reset" button and a note explaining that clicking Reset will clear all configuration and restore default settings.

After updating the firmware or resetting to factory defaults, please make sure that you restart the LanDrive and refresh your browser.

Samba Administration

Samba enables the core function of the LanDrive which is network file sharing.

This option allows the administrator to determine the folders/directories to be shared.



The screenshot shows a web interface titled "Samba Administration". It contains two main sections: "Folder List" and "Sharing List". The "Folder List" section has buttons for "Create", "Rename", and "Delete", and a list of folders: "PUBLIC", "Ivan", "Ken", "Eric", and "H_Data". The "Sharing List" section has a "Password" button and a list of folders: "PUBLIC". Between the two lists are two arrow buttons: "-->" and "<--".

In here, you can create, rename and delete folders/directories in your LanDrive. All the folders/directories in the root directory that were previously in your hard drive before it was installed in the LanDrive will also be shown in the "Folder List".

The arrow keys in the middle are used to determine if the selected folder/directory is to be shared. Password protection for each shared folder can also be implemented.

When creating folders/directories through the web control panel, please use only English alphabets.

FTP Configuration

Abbreviated from File Transfer Protocol, FTP enables file exchange between computers on the Internet. The LanDrive can work as a stand-alone FTP server when it is assigned a static IP.

Anonymous FTP is disabled by default.

The administrator can determine if the users have read or write permission and the "Home Directory" will be the folder/directory the anonymous user can access upon logging in.

The Account List displays the current FTP user accounts, the administrator can add new users, modify their permissions, temporary disable users and delete users.

FTP Configuration

FTP Status: **Enable** Port: 8080 Apply

Allow anonymous? ☐ Enable ☒ Disable Apply

☐ Read only ☒ Read / Write

Home Directory: **PUBLIC**

[User]	[Password]	[Access]	[En/Disable]
123	*****	RO	ENABLE

Disk Utility

If you have installed a new hard drive in the LanDrive that is not formatted, this will be the place to format it to the FAT32 format.

Since the LanDrive supports power management, you can also determine

the time the hard drive have to be inactive in order for the LanDrive to enter sleep mode.

The Scan Disk function can be used to detect potential problems with the hard drive. Click on the refresh button to display the scandisk result.

Disk Utility

Format Disk Format

Sleep Time 15 Set (min)

Scan Disk Start

Delete Error Msg Refresh

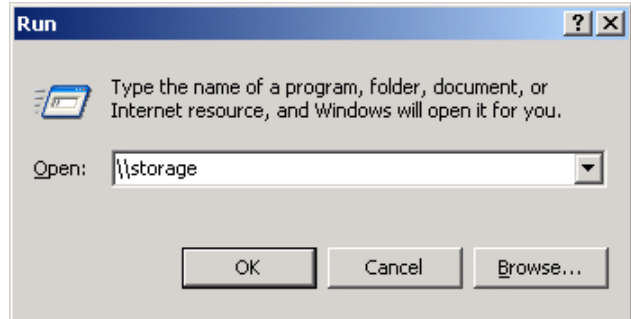
Access Files from the LanDrive – Windows

In Windows, the data can be accessed by searching for the LanDrive in the “Network Neighborhood” (as a computer with the name “Storage”). Or you can access the data in the LanDrive with the following instructions.

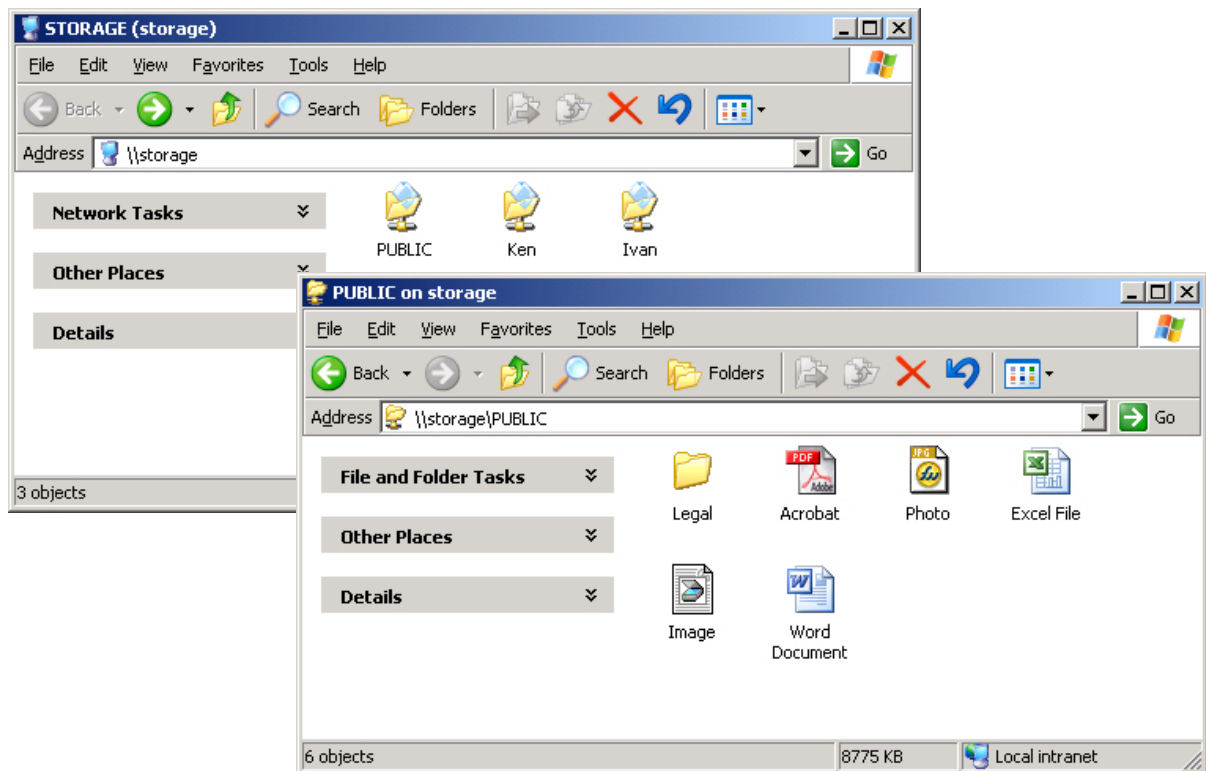
The follow screenshots are taken from a PC running Windows XP SP2 and may vary slightly from your computer screen.

Click on the Windows Start button, select “Run” from the menu and a dialogue box as shown will appear.

Type “//storage” in the field and click “OK”.



If you change the LanDrive hostname, you will need to replace the word “storage” with it. For example, if you changed your hostname to “FileServer”, please type “\\FileServer” instead.



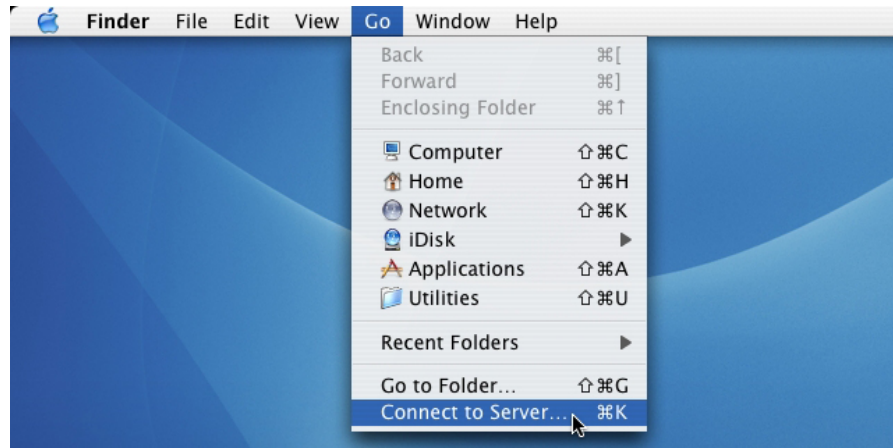
The Windows Explorer will appear and you should be able to see all the folders that were previously selected to be shared under “SMB Server” in the control panel. Clicking on the corresponding folder will reveal the files in that folder.

Access Files from the LanDrive – Mac OS

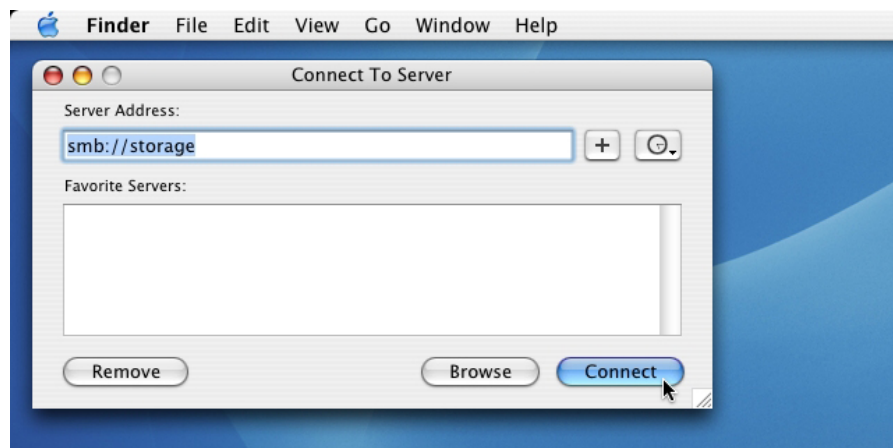
If the client computer is an Apple Macintosh running Mac OS, they will have to follow the procedure below to mount each shared folder as an SMB share to access the data.

The follow screenshots are taken from a iMac running OS 10.3.x and may vary slightly from your computer screen.

Under Finder, select
Go >> Connect to
Server
or use the hotkey
<Command +K>



The dialogue box
“Connect to
Server” will appear.
Type
“smb://storage”
and click the
Connect button.



If you change the LanDrive hostname, you will need to replace the word “storage” with it. For example, if you changed your hostname to “FileServer”, please type “smb://FileServer” instead.

The next dialogue
screen will
prompt you for
the folder that
you will like to
access. Select it
and click the OK
button.



You might be prompted to enter a password, unless a password was previously assigned in the control panel, you can leave it blank. After a successful mount, a network folder icon will be created based on the folder you selected as shown.



Frequently Asked Questions

1. The LanDrive displays error messages / crashes during the file transmission?

Please ensure you update patches for your operating system frequently. The latest firmware for the LanDrive is also available to download from our website at:
<http://www.usbex.com/landrive>

2. Does the LanDrive support power management?

Yes, when there isn't any hard drive activity within fifteen minutes, the LanDrive will power down to reduce power consumption. The sleep time can be configured via the web control panel.

3. How does the LanDrive achieve its data sharing capabilities?

Utilizing the SMB (Server Message Block) protocol, the LanDrive allows any computer client that supports TCP/IP, NetBuei or IPX/SPX to share files. The built-in FTP server also allows any clients with internet connectivity to access the LanDrive.

4. What is the size limitation for the LanDrive?

The LanDrive support LBA (48-bit Logical Block Addressing) which in theory includes all hard drives from 32 gigabytes to 2 terabytes.

5. Why the LanDrive only support FAT32 format?

As a cross platform file server, FAT32 format is compatible with all major operating systems (Windows/Mac OS/Linux). The only drawback of a FAT32 format is the single file size limitation of 4 gigabytes.

6. How does the LanDrive DHCP service work?

The LanDrive functions as a DHCP(Dynamic Host Configuration Protocol) server when it does not detect the presence of other DHCP servers in its network. DHCP is an Internet protocol for automating the configuration of computers that use TCP/IP by automatically assigning IP addresses.

7. What are the naming limitations of the files located in the LanDrive?

The maximum length of a folder/directory/file name is 12 characters. Invalid characters such as "*" \ : " < > . ? /" may not be used.

8. What kind of hard drive is compatible with the LanDrive?

The LanDrive supports 3.5" Ultra DMA/ATA hard drives which are mostly manufactured after 1998. Below is a list of manufacturer websites you can refer to for more information on the hard drive you own.

- Western Digital <http://www.westerndigital.com>
- IBM/Hitachi <http://www.hitachigst.com>
- Samsung <http://www.samsung.com>
- Seagate <http://www.seagate.com>
- Maxtor <http://www.maxtor.com>