

# NexStar:LS

EXTERNAL 3.5" HARD DRIVE ENCLOSURE  
LANSHARE NETWORK STORAGE



## USER MANUAL

Hi-Speed  
**USB 2.0**

## **FCC COMPLIANCE STATEMENTS**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

Reorient or relocate the receiving antenna.

Increase the Distance between the equipment and receiver.

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

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

## **TRADEMARKS**

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## **1. Before You Get Started**

### **1.1 Safety Instruction**

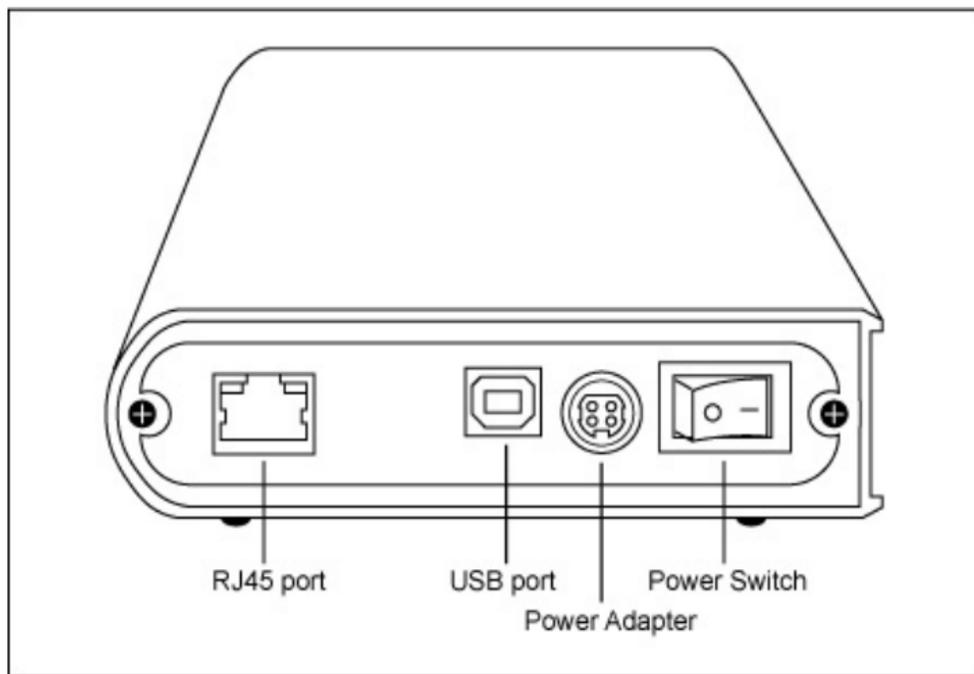
1. To reduce the risk of fire, electric shock or personal injury, please read and understand all instructions !
2. Keep this Manual for future reference.
3. Always unplug the power cord before inserting Hard Drive.
4. Keep this equipment away from humidity or any type of moisture.
5. Using a power supply with a different voltage rating will damage and void the warranty of this product.

### **1.2 Preliminary Tools**

To install Hard Drive into your Pro Secure Disk, you need a cross screwdriver for following procedures.



### 1.3 Take a look to the Pro Secure Disk



## **2. Easy Installation Guide**

### **2.1 What is in the Package**

- AC Power Adapter
- USB 2.0 Cable
- Ethernet Cable
- User Manual
- CD with NDAS software
- Screws
- Stand

### **2.2 Minimum System Requirements**

**Windows® 98SE / ME / 2000 / XP**

233 MHz Pentium® II or higher

64 MB RAM (128 MB recommended)

USB 1.1 Port (USB 2.0 recommended)

CD-ROM drive for installation

100Base-T full duplex switch for NDAS mode (for **Lan Share** only)

### **Mac® OS X**

Mac OS X 10.3 or greater

128 MB RAM (256 MB recommended)

USB 1.1 Port (USB 2.0 recommended)

CD-ROM drive for installation

100Base-T full duplex switch for NDAS mode (for **Lan Share Only**)

## 2.3 NDAS Device Setup Overview



## 2.4 Cable Installation



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

## **2.5 LAN Share Mode**

1. Connect the included Ethernet cable from the Ethernet port on NexStar:LS to a switch (100 Base-T).
2. Wireless users: Connect NexStar:LS to your wireless router or access point with included Ethernet cable.
3. Make sure the power connector is firmly attached to the NexStar:LS and connect the power adapter to a power source.

## **3. Use With USB Mode**

### **Windows 2000 、 Windows XP and Windows ME**

1. Connect the NexStar:LS and your computer with USB Cable.
2. Connect the power cable then power on it.

### **Windows 98SE**

1. Connect the NexStar:LS and your computer with USB Cable.
2. Connect the power cable then power on it.

3. Add **New Hardware Wizard** will appear. Click **Next**.



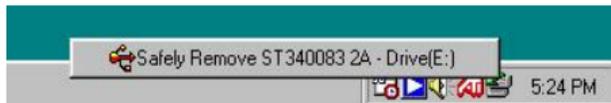
4. Choose **Search for the best driver for your device**. Click **Next**.

5. Put in the software CD and select driver string is **D:\USB Windows98 Driver**. Click **Next**.

6. Click **Next**.

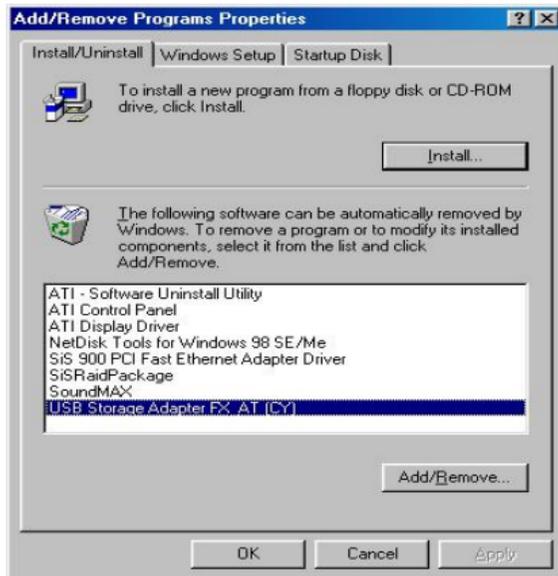
7. Click **Next** then you can use it.

8. The USB icon will display in the system tray.



9. Uninstall the driver

Click Start→Settings→Control Panel→Add/Remove Programs, choose like the picture and then press Add/Remove Programs.



## 4. Use With NETDISK Mode in Windows System

### 4.1 Install NexStar:LS Device Management in Windows XP and Windows 2000

1. Find NexStar:LS control AP in the driver CD, double click **setup.exe**, than choose the language what you need.



2. Install Shield Wizard will appear. Click the **Next** button to continue to next step.

3. Accept License Agreement and the click **Next** to continue installation.
4. Click the Install button to install drivers.
5. Click Continue Anyway if one of these windows come up.
6. Click the **Finish** button to complete.
7. Click on the **Yes** button to restart your computer now, or **No** to restart later.



## 4.2 Install NDAS Device Management in Windows ME and Windows 98SE

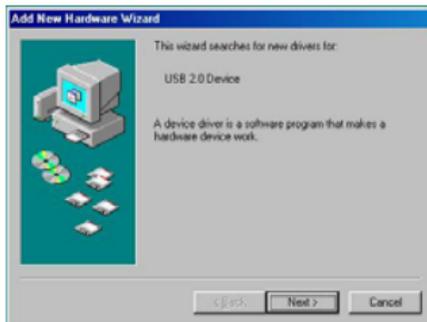
1. Find the NexStar:LS control AP from the driver CD, double click it and start to install.



2. **Install Shield Wizard** will appear , click **Next**.
3. Select **I accept the terms in the license agreement**, then click **Next**.
4. Click **Install**.
5. When this window appears , put in the Windows 98SE CD, click **OK**.
6. Select **Yes, I want to restart my computer now** then click **Finish** restart the computer.



7. If this is your first time installing NexStar:LS, **Add New Hardware Wizard** will appear. Click **Next** and follow further instructions. Otherwise, NetDisk will be listed as a local drive on **My Computer**. Driver letter and name may vary between Personal Computers.



8. Select **Search for the best driver for your device**. Click **Next**.
9. Select **Specify a location** and click **Browse** button. From the **Browse for Folder** window, search for **NDASUSB** folder and click **OK**. Once the location is set, click **Next** from the **Add New Hardware Wizard** window.
10. Click **Next**.
11. Driver has been successfully installed, click **Finished**.



### 4.3 NexStar:LS Administrator

When software installation is completed, you will find a LAN Share Launcher Icon on your desktop screen and a LAN Share Administrator Tool icon on the system tray.

1. LAN Share Launcher (desktop icon) activates and loads the NetDisk Administrator Tool onto the system tray.
2. LAN Share Administrator Tool (system tray icon) performs the following functions :

- Refresh LAN Share Status

- Enable Read Only Access

- Add a LAN Share

- Disable a LAN Share

- Display Software Version

- Edit LAN Share Name

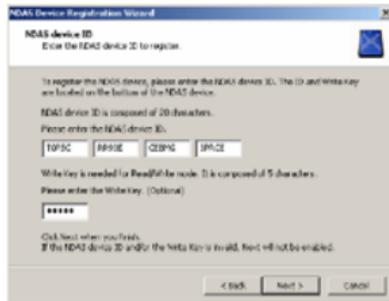
- Enable Read / Write Access

- Display LAN Share Properties

#### **4.4 Add / Register a New NDAS device using the Registration Wizard**



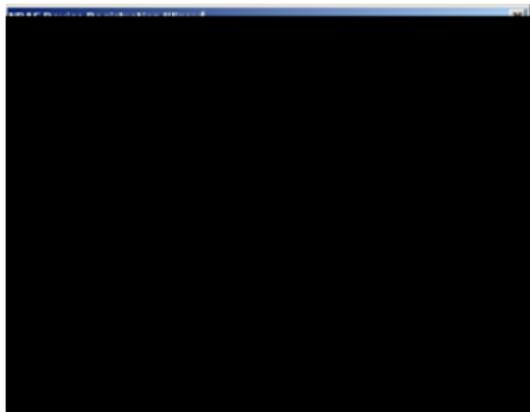
1. Click on the **NDAS Device Management** Icon located on the system tray.
2. Select **Register A New Device**.
3. **NDAS Device Registration Wizard** will appear. Click **Next** to continue.
4. Enter a name for the NDAS device and click **Next**.
5. Add your NDAS device **ID** and **Write Key**. **Write Key** is needed to write to NDAS device. Click **Next** to continue.



- If the **Write Key** was entered in the previous step, the NetDisk is registered as **Read / Write Mode**.
- If the **Write Key** was not entered in the previous step, the NetDisk is registered as **Read Only Mode**.

**Note: NDAS device ID and Write Key do not contain the letter O. Please use the number 0 for all letter 0's.**

6. Checking NDAS device status.
7. Select how you want to mount the NDAS device.



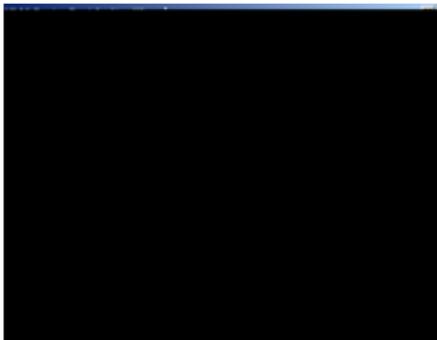
**Read/Write Mode:** Mounts NDAS device as **Read/Write Mode**.

**Read-Only Mode:** Mounts NDAS device as **Read-Only Mode**.

**Don't Mount:** NDAS device is left in **Connected (Unmounted) Mode**.

**Note:** **Read/Write Mode** will be disabled if a user did not enter the **Write Key** during step 5.

8. Registration is finished. Click **Finish**.



#### **4.5 Add / Register a New NDAS device without using the Registration Wizard**

1. Click on the NDAS Device Management  Icon located on the system tray.
2. Select Register A New Device.
3. The Register a new NDAS Device window will appear.
4. Enter in a NDAS Device Name.
5. Type in NDAS Device ID and Write Key. Write Key is needed to write to NDAS device.

Leave the **Activate this device after registration** box checked to automatically enable the device after registration.



**Note: NDAS device ID and Write Key do not contain the letter O. Please use the number 0 for all letter 0's.**

#### **4.6 Found New Hardware Wizard**

1. After you have registered, the **Found New Hardware Wizard** may appear.



If the window appears, click **Next** to install the new NDAS device.

It should automatically find the appropriate drivers for your NDAS Device.

**Note: For Windows 2000, Upgrade Device Driver Wizard will appear instead.**

2. If the **Windows Logo Testing** message comes up, click **Yes** or **Continue Anyway** to finish the installation.
3. Registration is completed.

Click **NDAS Device Management**  to see the registered NDAS device.



**Read/Write Mode**



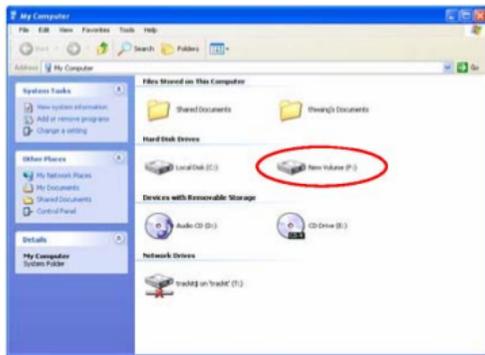
**Read-Only Mode**

**Note: If you cannot see your NDAS Device, please click Refresh Status and check again.**

#### 4. Using NDAS Device

Now that you have successfully installed NDAS device, it's time to familiarize yourself with using the NDAS device. Your NDAS device will show up as a local drive in **My Computer**. Drive letter and

NDAS device name may vary between Personal Computers.



You can use NDAS device like a local drive on your PC.

- Drag and drop files to NDAS device.
- Copy and paste data to NDAS device.
- Make and delete folders.
- Share files and folders.
- Backup your data

#### 4.7 Sharing NDAS Device

Once NDAS device is connected to your network, it can be accessed from any computer on your LAN.

To share NDAS device, the following must occur :

### **Windows 2000/XP Environment :**

1. All computers and NDAS device must be on the same LAN.
2. NDAS device must be connected via Ethernet or Wireless Router.
3. To share **Read and Write** access, all computers on the network using the NDAS device must have the NexStar:LS driver version 3.1.x installed.
4. NDAS device must be registered onto each computer.

### **Mixed Environment with Windows and Mac :**

1. All computers and NexStar:LS must be on the same LAN.
2. NexStar:LS must be connected via Ethernet or Wireless Access Point.
3. To share NexStar:LS, each computer on the network must install the corresponding NetDisk Driver.
  - On Windows XP/2000, install NexStar:LS driver v2.4 (do not use 3.x.x).
  - On Windows 98 SE/ME, install NexStar:LS Driver 1.x
  - On Mac OSX, install NexStar:LS driver 1.x

4. NexStar:LS must be registered onto each computer.
5. Write access is assigned to one user at a time and is passed from one user to another.

**NOTE : NexStar:LS is preformatted in NTFS. In order to use NexStar:LS in mixed environments, NexStar:LS must be formatted in FAT32. If you use the “Disk Management” utility in Windows XP or 2000 to format your NexStar:LS, then your NexStar:LS will be re-formatted in NTFS. NTFS is not a compatible file system format with Mac and Windows 98SE, thus your computers on these OS will not recognize NexStar:LS. You can use a third party format utility to choose the file format your NexStar:LS is formatted in.**

**Warning:**

1. **DO NOT** perform disk operations (**format, partition and chkdsk**) when multiple PCs have the NDAS mounted.
2. NDAS device can be formatted, partitioned, chkdsk, aggregated or mirrored **ONLY** when **one** PC is connected.

3. When sharing NexStar:LS between Windows 2000 and Windows XP, perform chkdsk.

## **5. Introduction to NDAS Device Management**

### **5.1 NDAS Device Status Modes**

NDAS device provides users with six basic Modes.

Below is a chart describing each of the NDAS device Modes and the icons that correspond with each mode.

LAN Share Color	Icon	LAN Share Icon	Mode / Meaning
Green			<b>Read Only Mode</b> - Users can only read from LAN Share.
Blue			<b>Read / Write Mode</b> - Users can read and write to LAN Share.
Red			<b>Unrecognized Mode</b> - LAN Share cannot be used. - You can only remove this LAN Share from your computer or view its property.
Gray			<b>Disabled Mode</b> - LAN Share is disabled from your computer. - LAN Share can be enabled back to Read Only Mode, Read/Write Mode or removed from the PC - LAN Share can be Aggregated or Mirrored.

White			<p><b>Busy Mode</b></p> <ul style="list-style-type: none"> <li>- LAN Share is busy performing a task or an application is using LAN Share.</li> </ul>
Black			<p><b>Disconnected Mode</b></p> <ul style="list-style-type: none"> <li>- LAN Share is not connected to the network.</li> <li>- Power Cord, Ethernet Cord or USB Cord is unplugged. Once the cord is connected, you can resume LAN Share use.</li> </ul>
Yellow			<p><b>Bound Mode</b></p> <ul style="list-style-type: none"> <li>- Bound disk used for Aggregation and Mirroring only.</li> <li>- You can only remove it from your computer or view its property.</li> </ul>

## 5.2 NDAS Device Management



Click the **NDAS Device Management**  located on the system tray. All registered NDAS device(s) will be displayed on the **NDAS Device Management** Menu.

1. **When you click on the**  **icon - Lists all NDAS devices that are registered.**

2. **Register a New Device - Registers a NDAS device to your computer.**

3. **Refresh Status** - Updates status of your NDAS Device.
4. **About** - Displays NDAS software version information.

**Check for Updates** : Check Welland website for updated drivers. <http://www.vantectw.com>.

5. **Options** - Can customize NDAS Device Management features and error messages/ dialogs.
6. **Exit** - Exits NDAS Device Management.

**NDAS Device Management** can be restored by double clicking the icon on the Desktop.

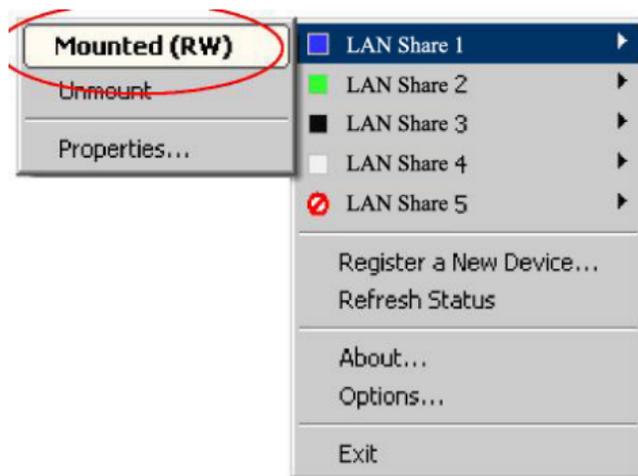
## 6. NDAS Device Functions

### 6.1 NDAS Device Management

Click **NDAS Device Management** and place the cursor on a NDAS device to view its functions. Below is a list of NDAS device Modes and related functions.

**Note: The Yellow box is there to show the current mode status of your NDAS Device. It cannot be selected.**

## A. NDAS device mounted in Read/Write Mode

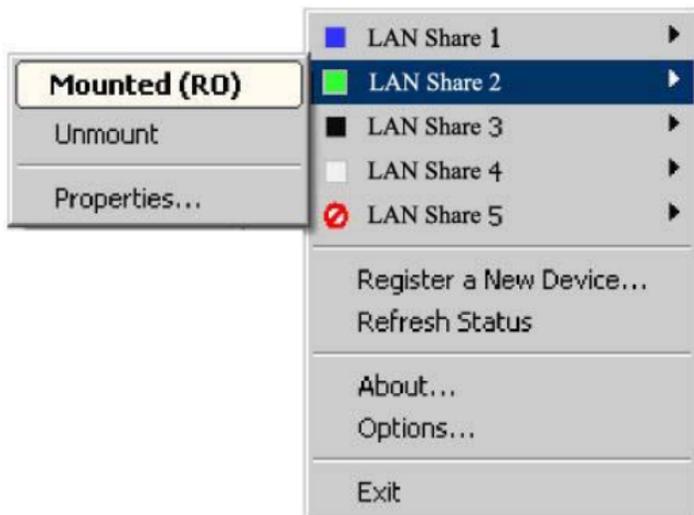


**Mounted (RW)** - The current state of NDAS device.

**Unmount** - Enables users to change NDAS device mode to **Connected Mode**.

**Properties** - Displays properties of the NDAS device.

## B. NDAS device mounted in Read-Only Mode



**Mounted (RO)** - The current state of NDAS device.

**Unmount** - Enables users to change NDAS device mode to **Connected Mode**.

**Properties** - Displays properties of the NDAS device.

### C. NDAS device in Disconnected Mode



**Disconnected** - The current state of NDAS device.

**Unregister** - Enables users to un-register NDAS device.

**Properties** - Displays properties of the NDAS device.

## D. NDAS device in Connected Mode



**Connected** - The current state of NDAS device.

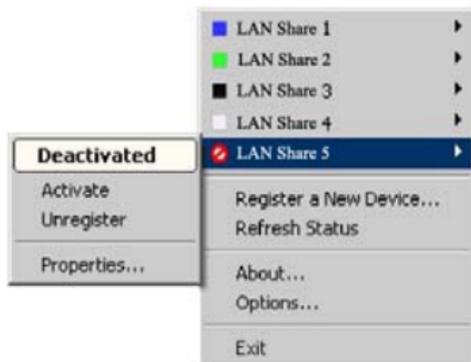
**Mount (Read-Only)** - NDAS device can be mounted into **Read-Only Mode**.

**Mount (Read/Write)** - NDAS device can be mounted into **Read/Write Mode**.

**Unregister** - Enables users to un-register NDAS device.

**Properties** - Displays properties of the NDAS device.

## E. NDAS device in Deactivated Mode



**Deactivated** - The current state of NDAS device.

**Activate** - Enables NDAS device to be activated into **Connected Mode**.

Once activated NDAS device will be indicated by white colored box.

**Unregister** - Enables users to un-register NDAS device.

**Properties** - Displays properties of the NDAS device.

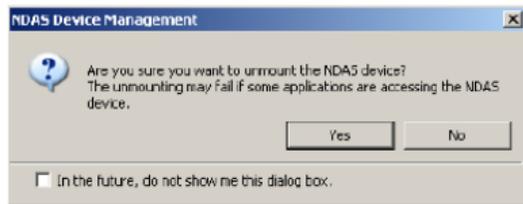
## 6.2 Changing from Read/Write Mode to Read-Only Mode

1. Click **NDAS Device Management**  and select the NDAS device you want to change from **Read/Write to Read-Only**.

2. Select **Unmount**.



3. A warning message will appear. Click **Yes**.



The **Blue Square** will change to a **White Square** indicating **Connected Mode**.

4. Click **NDAS Device Management**



and select the NDAS device you have just unmounted.

5. Select **Mount (Read-Only)**.

The **White Square** will change to a

**Green Square** indicating **Read-Only Mode**.



### 6.3 Changing from Read Mode to Read/Write Mode

1. Click **NDAS Device Management**



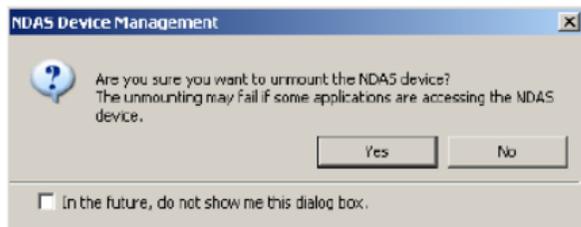
and select the NDAS device you want to change from

**Read-Only to Read/Write**.

2. Select **Unmount**.



3. A warning message will appear. Click **Yes**.



The **Green Square** will change to a **White Square** indicating **Connected Mode**.

4. Click **NDAS Device Management**



and select the NDAS device you have just unmounted.

5. Select **Mount (Read/Write)**.

The **White Square** will change to a

**Blue Square** indicating **Read/Write Mode**.



## 7. Use With LAN Share Mode in Mac OS X

### 7.1 Install NDAS Device Management

#### 1. Authenticate

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

#### 2. Welcome to the NexStar:LS Installer

Click **Continue**.

#### 3. Important Information

Click **Continue**.

#### 4. Software License Agreement

Click **Continue**.

If you want to continue installation, please click **Agree**. Otherwise click **Disagree**.



## 5. Select a Destination

Click **Continue**.

## 6. Easy Install

Click **Upgrade**.

## 7. Install Software

When software successfully finishes, install, click **Close**.

## 8. Restart your computer

**NOTE : Once NexStar:LS software is installed, NexStar:LS needs to be Added / Registered to your computer before you can start using NexStar:LS.**

### 7.2 Add / Register NexStar:LS

1. Double click **Macintosh HD** icon on the desktop.



2. Double click **Applications** folder.



3. Double click **NDAdmin** icon.

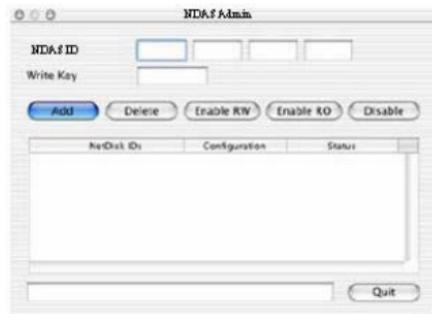
4. **NetDiskAdmin** window will appear.

- Enter **NexStar:LS ID** and **Write Key**.

- Click **Add**.

- Added NexStar:LS will be displayed in **NDAS**

**IDs** window.

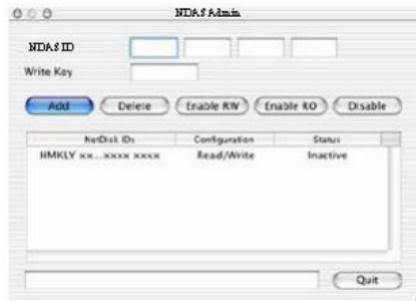


**NOTE : To add a new NexStar:LS, repeat the Add / Register a NexStar:LS steps.**

## 7.3 Using NexStar:LS Admin

### To Get NetDiskAdmin

- Double click **Macintosh HD** icon on your desktop.
- Double click **Applications** folder.
- Double click **NetDiskAdmin** icon.
- **NetDiskAdmin** window will appear.



### NetDiskAdmin has six functions:

**Add** - Add / Register a LAN Share to your computer.

**Delete** - Delete a LAN Share from your computer.

**Disable** - Disable Reading and Writing to LAN Share.

**Enable RW**- Enable LAN Share into Read/Write Mode.

**Enable RO** - Enable LAN Share into Read Only Mode.

**Quit** - End LAN Share Admin.

### NexStar:LS IDs Window

Displays all the NexStar:LS that are registered in the computer.

### **Configuration Window**

Displays NexStar:LS status user wants to achieve for that Lan Share.

### **Status Window**

Displays current status of NexStar:LS.

## **7.4 Using NexStar:LS**

Now that you have successfully installed NexStar:LS, it's time to familiarize yourself on using the NexStar:LS. NexStar:LS can be found on the desktop.

Here are few uses for NexStar:LS.

- You can use NexStar:LS like any other hard drive on your system.
- Drag and drop files into NexStar:LS.
- Copy and paste data to NexStar:LS.
- Make and delete folders.

- Share files and folders.
- Backup files to NexStar:LS.

## **Read Only and Read / Write Mode**

NexStar:LS provides users with two basic functions : **Read Only** and **Read / Write**.

### **1. Read Only Mode**

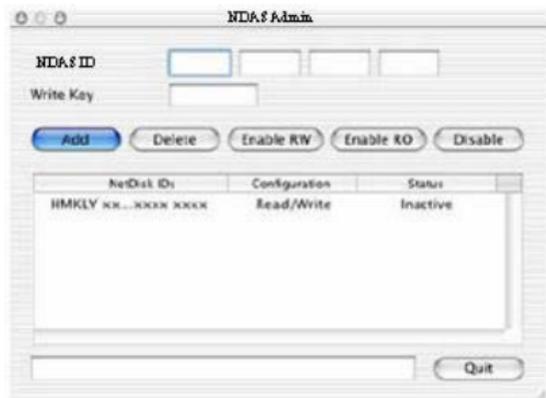
- Any number of users or applications can **read** from a NexStar:LS.

### **2. Read/Write Mode**

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

## **Changing Read Only or Read/Write Mode**

If **NexStar:LS Admin** window is not already opened, double click **Macintosh HD** icon on your desktop,  
double click **Applications** folder and double click **NexStar:LS Admin** icon.



### Changing to Read Only Mode :

- Select a **NexStar:LS** from **NDAS IDs** window.
- Click **Enable RO** button.
- Both **Configuration** and **Status** will change to **Read Only**.
- Now **NexStar:LS** is in **Read Only Mode**.

### Changing to Read / Write Mode :

- Select a **NexStar:LS** from **NDAS 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.

**NOTE :**

- **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, NexStar:LS is still in Read Only Mode. Status of NexStar:LS will changed to Read / Write only after Read / Write Access is transferred.**
- **Once both Configuration and Status displays Read / Write, NexStar:LS is in Read / Write Mode.**

## **7.5 Using NexStar:LS in a Mixed Environment**

### **Mixed Environment with Mac and Windows :**

- All computers and NexStar:LS must be on the same LAN.
- NexStar:LS must be connected via Ethernet or Wireless Access Point.
- To share NexStar:LS, each computer on the network must install the corresponding NexStar:LS Driver.
- On Windows XP/2000, install NexStar:LS driver v2.4 (do not use 3.x.x).
- On Windows 98 SE/ME, install NexStar:LS Driver 1.x.
- On Mac OSX, install NexStar:LS driver 1.0.x.
- NexStar:LS must be registered onto each computer.
- **Write** access is assigned to **one** user at a time and is passed from one user to another.

**NOTE : NexStar:LS is preformatted in NTFS. In order to use NexStar:LS in mixed environments,**

**NexStar:LS must be formatted in FAT32. NTFS is not a compatible file system format with**

**Mac and Windows 98SE, thus your computers on these OS will not recognize NexStar:LS.**

**You can use a third party format utility to choose the file format your NexStar:LS is formatted in.**

## 7.6 Uninstall NexStar:LS

1. Start the Uninstaller by double clicking **NexStar:LS Uninstaller**.



### 2. **Authenticate**

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

3. Click **Uninstall**.

4. NexStar:LS has been successfully uninstalled. Click **Quit**.

## 8. NDAS Bind Management

Using **NDAS Bind Management** users can perform **Bind**, **Unbind** and **Mirror**.

There are 4 different buttons in the NDAS Bind Management window.

- **Bind**: Used for Aggregation, RAID 0, and RAID 1.
- **Unbind**: Used to Unbind your Bound NDAS devices.
- **Tools**: There are two different functions in **Tools**: **Copy and Mirror** and **Recover Mirror**.
- **Copy and Mirror** is used to Mirror the first NDAS device to the second NDAS device.
- **Recover Mirror** is used to recover the data on Mirrored NDAS Devices.

- **Refresh:** Used to refresh status of your NDAS devices.



## 8.1 Bind

There are three ways to bind : **Aggregation** 、 **RAID0** and **RAID1**.

### Aggregation

- Allows any number of NDAS device units between 2~8 to be recognized as a single large disk drive.
- Extremely useful when a larger storage device is needed.
- No fault tolerance. If one unit fails, all data is lost.

### RAID0 - (Disk Striping without Parity)

- Allows 2, 4, or 8 NDAS device units to be recognized as a single large disk drive.
- Extremely useful when a larger storage device is needed.
- No fault tolerance. If one unit fails, all data is lost.
- Type of Aggregation method used for faster performance when writing to NDAS devices.

### **RAID1 - Mirroring**

- Allows 2, 4, 6 or 8 NDAS device units to be mirrored at the same time.
- Fault tolerant. If one unit fails, data is retrieved from other units.
- Can also Mirror NDAS devices that have been Aggregated.

### **Requirements for Bind**

- Each NDAS device must have a **Write Key**.
- Cannot Bind NDAS device that are already Bound.
- NDAS devices that are being Bound must be in **Connected Mode** on all PCs, including the PC which is performing the Bind.
- Bound NDAS devices must be formatted.

- Other users can **Mount** the Bound NDAS devices once Binding is completed.

**NOTE : Aggregation , RAID0 and RAID1 can only be performed in Windows XP and Windows 2000.**

### **Connected Mode**

Before NDAS devices can be Bound, they must be in **Connected Mode**.

1. Go to **NDAS Device Management**, choose a NDAS device you want to Bind.

- If the NDAS device is in **Mounted Mode**, select **Unmount**.

- If the NDAS device is in **Connected Mode**, leave it as it is.

- If the NDAS device is in **Disconnected Mode**, try to reconnect it.

- If the NDAS device is in **Deactivated Mode**, **Activate** the device.

2. A warning message may appear.

3. Click **Yes**.

4. Wait few seconds for changes to occur. If the color of the NDAS device does not changed to **White**, click **Refresh Status**.

5. Repeat above steps for all NDAS device you want to Bind.
6. Make sure other PCs that are accessing the NDAS devices have also Unmounted the NDAS devices as **Connected Mode**.

### Instructions for Bind

1. Two or more NDAS devices need to be in **Connected Mode**.

All of the NDAS devices must have the **Write Key**.

2. Go to **Start > Programs**

> **NDAS Software > NDAS Bind.**

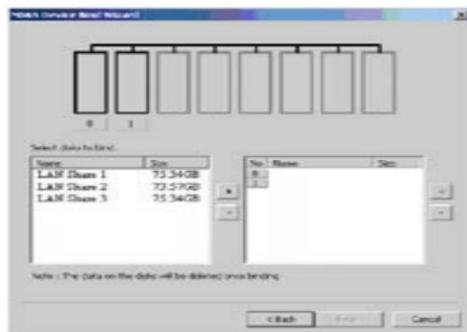
3. Click the **Bind** button.



4. Select a binding type and number of disks to be Bind.
  - Aggregation can bind any number of units between 2 and 8.
  - RAID0 can bind 2, 4 or 8 units.
  - RAID1 can bind 2, 4, 6 or 8 units.

**Note : Currently RAID4 is not supported.**

5. Move a NDAS device from the left window to the right window by first selecting a NDAS device from the left window and then clicking the  button.



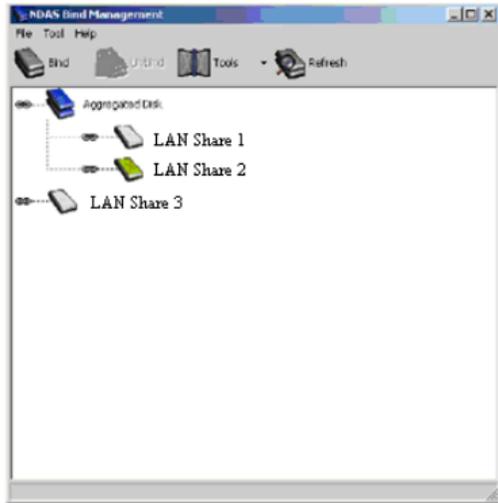
6. Repeat the above step for the rest for the NDAS device you want to Bind and click **Finish**.

7. Two warning messages will appear.

- Once NDAS devices are bound, all of the data will be lost. Click **Yes** to continue.

- The new bound NDAS devices must be mounted and formatted before it can be used. Click **OK**.

- Your NDAS Devices should now be bound.



8. Go to the **NDAS Device Management** and Mount the Bound NDAS devices.

- To do so, select any one of the Bound NDAS device and select **Mount (Read-Only)** or **Mount (Read/Write)**.



9. **Found New Hardware Wizard** may appear. Click **Next** and proceed in finishing the wizard.

10. Before Bound NDAS device can be used, it must be formatted.

## 8.2 Unbind

You can unbind one or all of the NDAS Devices from a bound group.

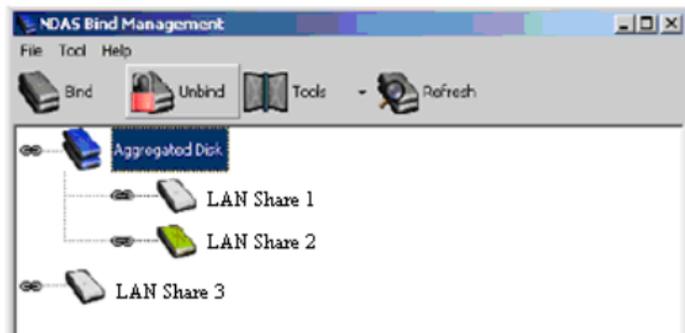
### Unbind All

1. Go to **NDAS Device Management** and select a Bound NDAS device you want to **Unbind**.
2. **Unmount** the NDAS Device by clicking on **Unmount**.

**Note :** If the bound NDAS device is in use, a warning message will appear.

**Make sure that no programs are using the NDAS Device and try again.**

3. After you have unmounted the NDAS Devices, go to **NDAS Bind Management**.
4. From the **NDAS Bind Management**, select the Bound NDAS device you have just unmounted. Click the **Unbind** button.



5. **Unbind** window will appear. Make sure these NDAS devices are ones that needs to be unbound and click **Yes**.



6. Two warning messages will appear.

- Once NDAS devices are bound, all of the data will be lost. Click **Yes** to continue.

- The new bound NDAS devices must be mounted and formatted before it can be used. Click **OK**.

7. Now you can go back into the **NDAS Device Management** and Mount each of unbound NDAS device.

8. Before using the NDAS devices, please format each of the unbound device.

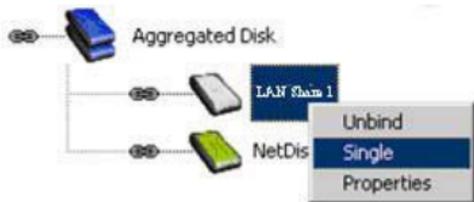
## Unbind a Single NDAS Device

1. Go to **NDAS Device Management** and select a Bound NDAS device you want to **Unbind**.
2. **Unmount** the NDAS Device by clicking on **Unmount**.

**Note :** If the bound NDAS device is in use, a warning message will appear.

**Make sure that no programs are using the NDAS Device and try again.**

3. After you have unmounted the NDAS Devices, from **NDAS Bind Management** select one NDAS device you want to unbind.
4. Right click on the NDAS device and select **Single**.



5. **All data will be lost** if you want to convert it to a Single disk. Click **Yes** if you want to continue.

**Note :** Once the Binding has been broken, you cannot re-add any NDAS Devices to the broken

**Bound device. You will have to recreate the Bind and format it again.**



6. For formation of the NDAS device, please refer to Chapter 9 Formatting NDAS Device.

7. When you are finished formatting, your **NDAS Device** should show up in **My Computer** as a local drive.

### 8.3 Tools

**Tools** provides two type of functions : **Copy and Mirror** and **Recover Mirror**.



## Copy and Mirror

- The Copy and Mirror Function is used when you have a NDAS device with data on it and then want to copy it to another NDAS device that does not have any data. Then have it mirror each other.
- The second NDAS device must be of equal or greater capacity to use this function.

### Using Copy and Mirror

1. Go to **Start > Programs > NDAS Software > NDAS Bind**
2. Select a single NDAS device.

**Note :** A NDAS device must be in a Connected Mode and have the Write Key.

3. Click **Tool** button and select **Copy and Mirror**.
4. From the list, select a NDAS device you want to mirror the first NDAS device to. Click **OK**.
5. A warning message will appear. Click **Yes**.
6. **Add Mirror** window will appear. Click **Start** to start synchronizing.

## **Recover Mirror**

**Recover Mirror** is used when there is an error in Mirrored NDAS Devices.

### **Using Recover Mirror**

1. An Emergency Mode message will appear when an error occurs in Mirrored NDAS Devices.
2. Go to NDAS Device Management and unmount the Mirrored NDAS Devices.

**Note : NDAS device must be in a Connected Mode and have the Write Key.**

3. Go to **Start > Programs > NDAS Software > NDAS Bind**
4. Select on the Mirrored NDAS devices.
5. Click **Tool** button and select **Recover Mirror**.
6. Recover Mirror will appear. Click **Start** button.
7. If Mirrored NDAS Devices are not in the Connected Mode, below warning message will appear.  
Please unmount the Mirrored NDAS Device and try again.

## 9. Other NDAS Bind Management Functions

Driver 3.10 does not support the **Mirror** feature that have been offered by our earlier driver versions.

However, the driver does recognize the Mirrored NDAS device and will display them on the **NDAS**

**Bind Management**. Users can continue to use Mirrored NDAS devices as before. But users cannot modify the Mirrored NDAS devices. If so, the Mirrored devices will break.

### 9.1 Upgrading the driver without breaking the Mirrored NDAS device

1. Disable all NDAS devices. (both single and bind devices)
2. Uninstall the driver.
3. Install the 3.10 driver.
4. Need to register NDAS devices again.

**Note :** When registering the bound NDAS devices, the NDAS Device Registration Wizard will only allow the bound NDAS devices to be mounted when both of the bound NDAS devices are registered. During the registration of the first device, the Wizard will only allow the device to be registered as Connected Mode.

5. Go to **NDAS Device Management** and **Mount** the Mirrored NDAS device.

6. Now you can use the Mirrored NDAS devices.

**Note : Cannot modify the Mirrored NDAS devices. If so, NDAS devices must be re-mirrored using RAID1 and all the data will be lost.**

## **9.2 Using Bound NDAS device among different driver versions**

If a user upgrades his/her driver to 3.10, we recommend everyone else sharing the NDAS devices to upgrade their driver to 3.10 as well. Once the user with 3.10 migrates the Mirrored NDAS device's binding information, other users sharing the Mirrored NDAS device will no longer have access to the Mirrored NDAS devices.

Here are two options:

1. We recommend all users sharing the Mirrored NDAS devices upgrade their driver to 3.10.
2. Unbind the Mirrored NDAS device and use them as two single devices that can be shared by both users using 3.10 and earlier drivers.

## 10. Formatting NDAS Device

### 10.1 Initialize NDAS Device

1. Right click **My Computer** and select **Manage**.
2. **Computer Management** window will appear. Click **Disk Management** under **Storage**.
3. **Computer Management** window will list all the disks in the computer.
4. Find the NDAS device you want to initialize.
  - The NDAS device is usually indicated by **Not Initialized**.
  - If the NDAS device is described as **Basic** or **Healthy**, skip to **10.2 Partition NDAS Device**.

Otherwise, go to next step.

### 5. Initialize NDAS Device

- Right click on the Disk # that pertains to your NDAS device and select **Initialize Disk**.
  - **Initialize Disk** window will appear. Select the NDAS device and click **OK**.
6. NDAS device will be automatically initialized.

- Unknown  **Disk 1** becomes Basic  **Disk 1** .

**Note : It is VERY important that your NDAS Device is listed as a Basic Disk and not a Dynamic one.**

7. Initialization is completed.

- Before NDAS device can be used, it must be partitioned. See **10.2**.

### **10.2 Partition NDAS Device**

1. From the **Computer Management** window, find the NDAS device you want to format.

2. Right click and select **New Partition**.

3. **New Partition Wizard:** Click **next**.

4. **Select Partition Type:**

- Select **Primary partition**.

- Click **Next**.

5. **Specify Partition Size :** Click **Next**.

**NOTE : The partition size is automatically set. Do not change the size.**

## 6. Assign Drive Letter or Path:

- Select **Assign the following driver letter**.
- Choose a letter for the drive from list.
- Click **Next**.

## 7. Format Partition:

- Select **Format this partition with the following Settings** .
- File System: **NTFS**
- Allocation unit size: **Default**
- Volume Name: Enter a name for the disk.
- Select **Perform a quick format (Recommended)**.
- Click **next**.

## 8. Partitioning is finished. Click **Finish**.

- You can see the partitioned disk.

## 10.3 Format NDAS Device Through My Computer

1. Double click on **My Computer**.

2. **My Computer** window will appear.

Right Click on your **NDAS Device** choose **Format**.

3. The **Format** window will appear with a few options.

Check the box that says **Quick Format (Recommended)**

4. A **Warning** will appear asking if you are sure you want to format the drive. Click on **OK**.

5. Click on **OK** once the format has completed.

## **11. Uninstall**

Before you can uninstall a NDAS device, you must close all applications using the NDAS device. NDAS Disk Management, NDAS Bind Management, Windows Explorer and Internet Explorer must also be closed.

1. Close **NDAS Disk Management** by selecting **Exit**.

2. Uninstall NDAS device.

- Go to **Start > Programs > NDAS Software > Uninstall NDAS Software**

- **Windows Installer** will appear. Click **Yes** if you want to continue. Otherwise click **No**.

**NOTE : A warning window may appear if any of the NDAS device is still in mounted state. Click Cancel and unmount the NDAS devices.**

3. Restart the PC once uninstall is finished.

## **12. NDAS Command Line Utility**

Included with the 3.1 Drivers is a option to run your NetDisk software from a command line interface.

**\*Please Note: These option are for Advanced NexStar:LS users only\***

1. Open your Command Line and type in the following command.

**Cd Program Files\NDAS\3.10.1216 (Folder may vary depending on driver being used)**

This should bring you to the path C:\Program Files\NDAS\3.10.1216.

2. Next, type in ndascmd.exe. This will load the NexStar:LS command line interface.

The Syntax for the interface should be as follows.

ndascmd <command> [parameters]

The command can be one of the following.

- register <name> <device id without dash> [write key]
- unregister <device number>
- list devices
- list logicaldevices
- mount <logical device number> [ro|rw]
- unplug <logical device number>
- unmount <logical device number>
- activate <device number>
- deactivate <device number>

## 13. FAQ

### General

#### 1. What can NexStar:LS be used for?

NexStar:LS 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. NexStar:LS 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 data conservation.
- Multimedia storage device (MP3s, Digital Photos, Digital Video).
- Multi-platform networking (Simultaneous use from Macintosh and Windows)
- Non-PC / Non-Computing applications (security, CCTV, technograph recording, MRI, entertainment).

## **2. How is NexStar:LS different from NAS or SAN?**

NexStar:LS is a better alternative to NAS or SAN. NexStar:LS is much more cost-effective, efficient and easy to use. It is for users looking for lower costs and storage associated with backup / archiving.

Although both NexStar:LS and NAS are storage devices that are implemented over a network, NexStar:LS takes up less space than NAS or SAN products. NexStar:LS utilizes NDAS technology – allowing it to connect the hard disk directly to a network without a server. In NAS, the hard disk must be connected to a storage server, which must also be connected to the network.

### **3. For NDAS mode, do I need drivers installed on each computer using NexStar:LS?**

Yes, the drivers need to be loaded on each computer that wants access to NexStar:LS. However, if you are using Windows Sharing, only one computer will need the software installed. The other computers will not need it.

## **NexStar:LS for Windows 2000 / XP**

### **1. I am having trouble using Multi-write over wireless connection. What do you recommend?**

Try a wired connection for our 3.X drivers and compare how it works. If you are using wireless with other computers, we recommend enabling the hard-wired computer first, then the wireless computer.

When using wireless, we also recommend 802.11g. When using 802.11b, we highly recommend

hardwiring your computer when doing large file transfers because of the low bandwidth associated with 802.11b.

## **2. How should I format NexStar:LS?**

We recommend formatting NexStar:LS via NDAS (Ethernet) mode. If using NexStar:LS as a USB device only, then it is OK to format via USB. It is also recommended that you format NexStar:LS to NTFS if using Windows 2000/XP. Our 3.X drivers are only supported on NTFS, while 2.X drivers Support FAT32.

## **3. How do I disconnect NexStar:LS?**

We always recommend using the Disable option from your NexStar:LS Administrator Tool if connected via NDAS (Ethernet). You can use the "Unplug or Eject Hardware" icon in your System Tray to stop the NexStar:LS before disconnecting (this applies to either USB or NDAS mode). Close all windows that may be accessing the NexStar:LS.

## **4. When I try to write to KAN Share I get a "write protected" error and cannot write to the disk.**

The permissions scheme may need to be reset. Try disabling the NexStar:LS on all machines first, then

re-enable them one by one. If that doesn't help, try rebooting the machines and power cycling NexStar:LS.

**5. When I try to write to NexStar:LS, I get the following error message: " NexStar:LS is being used By non-compatible software on another PC. You can use read-access only for now." What does this mean?**

This means that there is another computer on the network that has a different version of the NexStar:LS software installed. All machines must have the same exact version of our software. Please make sure that all computers have the same exact version of NexStar:LS software installed. For instance, 3.02 is different from 3.03

**6. Can I set the "My Documents" folder to point to my NexStar:LS instead of a place on my local hard drive?**

We do not recommend doing this, as your computer will be dependent on this location during software installation and uninstallation. You may receive Windows Error Messages looking for a nonexistent location.

**7. My computer is moving very slowly when my NexStar:LS is enabled, and the ACT light on my NexStar:LS is solid yellow. What is going on?**

This is a result of a bad connection between the computer and the NexStar:LS. Please make sure that you are using only network switches and routers, and that you are not using any network hubs. Also, if you have any software firewalls installed on your computer (i.e. Norton Internet Security, McAfee Personal Firewall, etc.), make sure to add Admin.exe and LDServ.exe into their list of programs to allow with full access. You can also try disabling your Antivirus software to see if that makes a difference. Please also try power cycling your NexStar:LS and switch as well.

**8. Sometimes when I transfer files to my NexStar:LS, why is the speed so slow?**

Try updating your NexStar:LS Card's drivers to the latest from the manufacturer. If your network card has the option of changing the transmit and receive buffers to both 128 (in the card's properties in device manager), please try doing that. If you have an nForce chipset, try updating your Nvidia nForce drivers to the latest Unified Drivers from Nvidia's website. Please also make sure that you are using 100mb switch as well.

**9. I've installed my NexStar:LS and it shows up as a Black Dot.**

**Note : If you are using NexStar:LS via USB, then no software installation is required, therefore, please ignore the Black Dot.**

Please check to make sure of the following:

- A. You are using the latest version of our software which can be found at **<http://www.vantectw.com>**.
- B. Power cable is plugged in tightly, and NexStar:LS hard drive is spinning.
- C. There is a link light on the port where it is connected to (switch), and the dip switches (if any) are in the down position.
- D. Please make sure that any firewall/antivirus software is disabled before installing. The latest versions of antivirus software have a new feature called script blocking. Please also ensure that this feature is disabled before continuing
- E. You might also need to enable our protocol and programs to run in your Antivirus/Firewall program as well.

F. Even after you have done these things, it is still possible that the firewall/antivirus software is blocking access. For troubleshooting purposes, if it still does not work, please try uninstalling the firewall/antivirus software, reboot, then reinstall our software to see if it works. If it works, then you can go ahead and re-install the antivirus/firewall software.

G. If using Wireless, then please make sure that you are connected to the wireless router and that your signal is good. Try going to your wireless router's website and check for the latest firmware and also check for the latest drivers for your wireless card as well.

H. Try plugging in via wired connection and see if it works that way.

I. Powercycle your switch/router.

J. If you are using VPN software, please try unchecking the box for Deterministic Network Enhancer or any other VPN protocol in your NIC Properties.

K. Check to see if you have any Spyware installed.

**10. When adding NexStar:LS to my computer, why does the "ADD" button stay gray?**

You may not have entered all the alpha-numeric values correctly. There are no letter "O"s; please

verify that you have used the number "0" (zero) for anything resembling an "O." Also please check your other letters as well; two V's may look like a W. Start by entering only the NexStar:LS ID. The add button should not be grayed out if the correct ID is entered. Once it is not grayed out, proceed to add the Write Key as well. Please also make sure that there are 20 characters for the NexStar:LS ID, not including the Write Key.

#### **11. Using Windows file sharing function, after reboot, share gets lost. Is there any work around ?**

Create a batch file and place it in your startup folder. To create batch file :

- Open up notepad - type in "net share sharename=DriveLetter:path" (For example net share Lan Share =F:)
- Save the file as a .bat extension. For example, the file name would be called " Lan Share.bat".

#### **12. I installed the NexStar:LS key but cannot see NexStar:LS in "My Computer." What should I do?**

Click on the NexStar:LS Admin Tool in your System tray and make sure NexStar:LS is enabled. There should be a dot next to your NexStar:LS, colored either Blue (Read/Write) or Green (Read Only). If it is a black colored dot, then please go to the FAQ: "I've installed my NexStar:LS and it shows up as a

Black Dot."

If NexStar:LS is enabled, open "Computer Management" by right-clicking on "My Computer." Go to "Manage," then click on "Disk Management." Check if your NexStar:LS 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." if that option exists.

Also make sure that the NexStar:LS is partitioned and formatted. If you see something that says "Unallocated," then right-click on the "Unallocated," create a partition, and then format the drive to your file system preference.

To use NexStar:LS with other Operating Systems such as Windows 98SE / ME, and Mac OS X, you will need to format your NexStar:LS to FAT32 for it to be recognized.

### **13. Why am I getting a "Data has been corrupted" message when I try to open or copy a file?**

- Open up Command Prompt and run "chkdsk" for the NetDisk drive.
- Go to Start - Run - type in "cmd" without the quotation marks.
- Then type in "chkdsk LAN ShareDriveLetter: /F" (For example, if your NexStar:LS shows up as drive

letter E: in My Computer, you would type in the following: chkdsk E: /F)

**14. Why do I keep 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 NexStar:LS and retry what you were doing earlier. If you continue to get that error message, reboot your computer. However, if you were copying a large amount of files, it is possible that it is still being copied in the background from its cache. You may need to wait until it is finished before continuing.

**15. I just installed NexStar:LS; why is the NexStar:LS showing up as a red color?**

Try unplugging your NexStar:LS 's power cord, wait about 10 seconds, and plug it back in. If this does not work, restart your computer. Please disable your firewall/antivirus software (you may need to configure the software to allow your NexStar:LS to run). If this does not work, plug NexStar:LS via USB to see if it is recognized.

If so, recover the data and reformat the drive. While in USB, delete the partition and bring the NexStar:LS

back to the Ethernet and format the LAN Share.

\* Formatting will erase any data on the drive.

**16. I keep getting “Internal Error; Update Failed.” What does this mean?**

Try updating to our latest drivers to see if that fixes the problem.

Before installing our NexStar:LS software, please disable any Firewall/Antivirus software and also make sure that Script Blocking is turned off for antivirus software. If problems still persist, please try uninstalling the Firewall/Antivirus software and reinstall NexStar:LS software. Also try updating your NIC drivers to the latest available from the manufacturer.

**17. I am getting the message “Connection closed abnormally. Try to reconnect.” What does this mean?**

Check that you are using the latest version of our software. If NexStar:LS keeps losing its connection to your computer, check your USB or Ethernet cable connection.

We recommend using NTFS for multi-write 3.X software for Windows XP/2000. To verify this, right click on your NexStar:LS drive letter from My Computer and click on Properties. Under File System it will indicate the type of file system your NexStar:LS is formatted to. To format NexStar:LS to

NTFS, right click on the NexStar:LS drive letter from My Computer and click on Format. A drop down menu will allow you to select NTFS. Check the box next to the word Quick Format.

You may want to format through Disk Management: Right click on My Computer, then click on Manage. Computer Management will open, and click on Disk Management. Check if your NexStar:LS is recognized. It should show up as Disk 1 or Disk 2 or a different number depending on the number of drives you have on your computer. Right-click on the appropriate "Disk #" and right-click on the white area for options to format and/or delete partition.

\* Formatting will erase any data on the drive. Please back up before continuing.

Make sure that NexStar:LS is plugged into a 100mb/full duplex capable switch and that you are using a 10/100mb Network Card. NexStar:LS is not supported on hubs. If your switch is uplinked to another one, place NexStar:LS and your computer on the same switch and retry.

Try setting your NIC's speed/duplex settings to 100MB/full duplex: Right-click on 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 NIC and click on the Advanced tab. Here, you should find a category related to "Speed & Duplex", "Media Settings", etc . where, once highlighted, you can click on a drop down menu and select 100mb/full duplex. You can also go to your NIC (Ethernet card) manufacturer and download the latest drivers. If using a DSL router, update the firmware. Or, plug NexStar:LS and your PC into a different port on the switch and check for different results. If you are using any Antivirus/Firewall software, please try disabling it and see if that solves the issue. The latest versions of antivirus software have a new feature called Script Blocking. Try disabling that as well because disabling Antivirus may not necessarily disable that feature.

### **18. I keep getting Auto play when I plug in NexStar:LS.**

Open My Computer and go to Tools menu at the top. Click on Folder Options. Click on the View tab and go to Advanced Settings. Make sure to check the box next to the entry "Hide extensions for known file types". Then, create a blank text file in the root directory of your NexStar:LS and name it "autorun.inf". Place this in the root directory of your NexStar:LS drive letter in "My Computer."

### **19. Why can't my computer go into hibernation or standby?**

You must have customer select the Allow suspend/hibernation box from the Options menu in NDAS Device Management.

**20. I have clicked on the NexStar:LS Admin Tool on my desktop and nothing happens.**

The icon on the desktop is only used to launch our icon into the system tray, if for some reason it is not already there. The icon in the system tray is used for Enabling/Disabling, Adding/Removing, and switching modes for Read/Write on NexStar:LS.

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

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

**22. Why can't I format my whole NexStar:LS to FAT32?**

Windows 2000/XP comes with a limitation of only 32GB partitions that it can create. This is a

Windows limitation and the only resolution is to use a 3rd party partitioning software or use a Windows 98SE/ME computer to format the entire drive to FAT32. With our Multi-Write drivers, NTFS is recommended anyways for stability and performance purposes.

## **Net Disk for Windows 98SE/ME**

### **1. How do I disconnect NexStar:LS?**

We recommend using the Disable option from your NexStar:LS Administrator Tool if connected via NDAS (Ethernet). You can also use the "Unplug or Eject Hardware" icon in your System Tray to stop the NexStar:LS before disconnecting it (this applies to either USB or NDAS mode).

### **2. I've installed LAN Share on my Windows 98SE computer and cannot see NexStar:LS.**

Please check to see if NexStar:LS drivers are properly loaded. If you are using USB, you may need to download the NexStar:LS USB drivers from our Download Center. Right-click on My Computer - Go to Properties - then click on Device Manager and look for any yellow exclamation or question marks. Check if NexStar:LS is formatted to FAT32 as Windows 98SE can only recognize FAT file systems. If you can, go to Start - Run - and type in "Command" without quotation marks and press the Enter

key. Next, type in "fdisk" without quotation marks. If it asks you about Enabling large file support, type in Y and press the Enter key. If there is an option #5, then Enter in that number. If that option is not there, then your NexStar:LS is not being recognized. If it is, then please check to see that your drive is there.

If your NexStar:LS is still not recognized, make sure that your NexStar:LS is on and dip switches (if any) are in the appropriate position. Also, try power-cycling your NexStar:LS and making sure that the software, if any, are loaded correctly.

### **3. My NexStar:LS shows up as a Black Dot.**

Please check the following: power cable is plugged in tightly, there is a blinking LED where it is connected to (switch), dip switches (if any) are in the down position, and that any firewall/antivirus software are disabled before installing. The latest versions of antivirus software have script blocking. Please ensure this feature is disabled before continuing.

You might also need to enable NexStar:LS protocol and programs to run. Even after you have done these steps, it is still possible that the firewall/antivirus software will block access. If it still does not

work, uninstall the firewall/antivirus software, reboot, and reinstall our software. If it succeeds, then you can re-install the antivirus/firewall software afterwards.

If using Wireless connection, please make sure that you are connected to the wireless router and that you have a strong signal. Try going to your wireless router's website to check for the latest firmware and also check for the latest drivers for your wireless card.

**4. I have installed drivers for Windows 98SE and keep getting disconnected when transferring large files.**

Windows 98SE can only read FAT32 file systems. Unfortunately, FAT32 comes with a limitation on single large files transfers up to 4GB. This is a file system limitation. Please also check our website for updates on the Win98SE drivers.

**5. I have just installed NexStar:LS, why does NexStar:LS show up as a red color?**

Try unplugging your NexStar:LS 's power cord, wait about 10 seconds, and plug it back in. If this doesn't work, try restarting your computer as well.

**6. When adding NexStar:LS to my computer, why does the "ADD" button stay gray?**

You may not have entered all the alpha-numeric values correctly. There are no letter "O"s; please verify that you have used the number "0" (zero) for anything resembling an "O." Also, check your other letters as well; two V's may look like a W. Start by entering only the NexStar:LS ID. The ADD button should not be grayed out if the correct ID is entered. Once it is not grayed out, proceed to add the Write Key as well if you want read-write access. Also make sure that there are 20 characters for the NexStar:LS ID, not including the Write Key.

## **Net Disk for Mac OS X**

### **1. How do I disconnect NexStar:LS?**

To disconnect NexStar:LS, we always recommend using the Eject option. If you CTRL+click on the NexStar:LS on your Desktop, then you will be given an option to Eject the NexStar:LS. After that, you can go into NexStar:LS Admin and Disable your NexStar:LS.

If you are using USB, then Ejecting the NexStar:LS is all that is needed.

### **2. I have installed the Mac Drivers and NexStar:LS will not Enable.**

Make sure you have the latest drivers, available at <http://www.vantectw.com>.

Please check the following :

Verify that your cables are plugged in correctly and that you have a link on the switch where NexStar:LS is plugged into.

Make sure that it is formatted to a file system that your Mac can recognize.

When plugged in via NDAS (Ethernet), please try enabling Read Only mode and reboot your Mac. It should show up on your desktop as a Hard Drive.

Try plugging it in via USB to see if it is recognized. If that works, then try reinstalling the NexStar:LS software.

If it still does not mount, then try formatting the NexStar:LS again via USB and retry Enabling the drive.

### **3. How should I format NexStar:LS?**

It is recommended to format NexStar:LS to Mac OS Extended format. If you also have a Windows computer as well, and would like to use it between the two, then you must format it to FAT32 for it to be recognized on both computers. You may need a 3rd party partitioning utility to format the entire

drive to FAT32.

## **Aggregation & Mirroring**

### **1. What is the maximum number of NexStar:LS that support aggregation?**

Aggregation can currently be done using two (2) NexStar:LS units.

### **2. When used with Mirroring, and one NexStar:LS goes down what happens?**

The kind of mirroring done with NexStar:LS software is basic. You must format before mirroring or aggregating NexStar:LS.

If one NexStar:LS goes down, data will still be on the other NexStar:LS and can be accessed, but if you want to replace the down NexStar:LS, you must format both NexStar:LS again to recreate mirror.

## **USB**

### **1. I have plugged in NexStar:LS to my USB port and cannot see NexStar:LS in My Computer.**

Make sure both dip switches on the back of NexStar:LS (if any) are in the “UP” position (Power off NexStar:LS completely before doing so). Or, plug NexStar:LS into a different USB port on your PC. Or

try using a different USB cable.

With Windows ME/2000/XP and MAC, NexStar:LS uses the Operating System's built-in USB drivers, therefore, no software is necessary. If you are using Windows 98SE, please check our website for the latest USB drivers. **<http://www.vantectw.com>**

If using Windows98SE/ME, and MAC, make sure that NexStar:LS is formatted to the supported files system. Windows Me requires FAT32. Mac has its own file system, but also supports FAT32. It is up to you to choose the appropriate one.

## **2. My NetDisk shows up as a Black dot when used with USB.**

When used with USB mode, the software is not needed, therefore you will see a black dot (disconnected) in the system tray as that is an indicator for NDAS (Ethernet) mode.