

# TeraStation WS Setup Manual



www.buffalotech.com

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## Chapter 1 Getting started

## Package Contents

Main Unit (TeraStation)	1
Power Cable	1
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Ethernet cable	1
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- \* The keys are required to open the front cover and access the hard drives or execute a system recovery. Keep them in a safe place.
- \* Keep your original receipt. It will be required for any warranty replacement.

## Diagrams

### **Front View**



1 Power Button

Push the power button to turn on the TeraStation. The button is lit when power is on. To turn the TeraStation off, shut it down from within Windows.

2 Info LED

If there is a message about the current status, the amber Info LED is illuminated. Check the LCD display for current status.

3 Error LED

The red Error LED is illuminated when an error occurs. Check the LCD display for more information.

4 LAN1 LED

When the LAN Port is connected, this LED glows green.

- 5 Not used
- 6 LCD Display Displays the status of the TeraStation.
- 7 Display Toggle Button Switches between different display modes.
- 8 Not used

### 9 Lock

Open the front panel with the included key. You'll need the key to replace hard drives or initialize the unit.

### With Door Open



### 10 Recovery Button

This is used to do a system recovery.

11 Status LED 1 - 4

LED 1 to 4 will be illuminated in green when the corresponding hard drive is accessed. When an error occurs on a hard drive, the corresponding LED will turn red.

### **Rear View**



- 12 UPS Port (Serial Port) For connecting a serial UPS (Uninterruptable Power Supply).
- 13 USB 2.0 Connector
- 14 LAN Port

Connect to your network with the included Ethernet cable.

15 Power Connector

Use the included AC cable to connect to a UPS, surge protector, or power outlet.

Read the Microsoft Software License terms in the document "ms-license.doc", located on the TeraNavigator DVD. Remove the protective sticker from the AC power cable to accept the terms of the license.

16 Fan

Do not block the fan. Leave enough room around the Terastation to allow airflow.

17 Anti-Theft Security Slot You may attach a cable lock to the TeraStation for security.

#### Turning Off the TeraStation

Click [Start] – [Shut down] – [Yes] from the Windows Storage Server desktop to shut down the TeraStation. Do not unplug the TeraStation without shutting it down first, or it may be damaged.

## **Initial Setup**

Begin by inserting the TeraNavigator DVD into your computer.

If you are using an Mac OS X, please download and install "**Remote Desktop Connection Client for Mac**" from Microsoft's web site before continuing.

- 1 Insert the TeraNavigator DVD into your computer.
- 2 When "What do you want Windows to do?" is displayed, select [TeraNavigator for WS-QL/ R5] and click [OK].

TeraNavigator will launch.

If the "What do you want Windows to do?" message doesn't appear, open the DVD and double-click the TSNavi.exe icon

For Windows 7 and Vista, click [Run TSNavi.exe] when the auto-play screen is displayed. When [A program needs your permission to continue] is displayed, click [Continue].

For OS X, double-click on the disk image, WSQL-xxx.dmg (xxx is a 3-digit number) from the TeraNavigator DVD and mount it. Then double-click [TeraNavigator].



Click [Begin Installation].

4 Follow the instructions on the screen to connect the TeraStation and install NAS Navigator2.



Before detaching the sticker from the power cable, read End-User License Agreement in "ms-license.doc", located on your TeraNavigator DVD.

5 You've connected to the TeraStation and installed NAS Navigator2. Click X in the top right corner of TeraNavigator to close it. (On a Mac OS, click the red button in the top left corner.)

### 6 Launch NAS Navigator2.

\* From Windows, double-click the [BUFFALO NAS Navigator2] icon on your desktop.

\* From OS X, click on the [NAS Navigator2] icon in the Dock.



In Windows, right-click on the TeraStation icon, and click [Properties] - [IP Address].

For a Mac, press and hold the Control key, click on the TeraStation icon, then click [Configure TeraStation] - [IP Address].



Check [Obtain IP address automatically via DHCP] to have DHCP configure your IP address settings automatically. Or, you can configure your IP address, subnet mask and default gateway manually. Click [OK] when done.

	1
Browse Shares Open Remote Desitop	
Properties	
Create desktop shortcut for Tera/LinkStation	
I'm here	
	Workgroup: WORKGROUP
V/S-Q30TL #5	Workgroup: WORKGROUP
WS-Q3.0T1/R5 C: 5.66B/00.06B18.8%) D: 0.168/2704.56B0.0%)	Workgroup: WORKGROUP IP Address: 192466.11.69 Sabaret Marks: 255.255.255.0
V/S-Q3.011/R5 C: 5660-30.06018.8%) D: 0.160-2704.5608.0%)	Workgroup: WORKGROUP IP Address: 02:08:11.09 Solane: Mark: 255:255:255 Default Sateway: 19:2168.1.1
V/S-Q3.0TL/R5 C: 56CD/20.0C018.8%) D: 0.1C6/2704.5CD8.0%)	Workgroup: WORKGROUP IP Address: 19216811.09 Suburet Marks: 575.755.355.0 Default Gateway: 19216811.1 MAC Address: 00165702038E
WS-Q3.071/R5 C: 5.650/20.05018.8%) D: 0.160/2704.5500.0%)	Workgroup: WORKGROUP IP Address: 192.464.11.49 Salaret Mark: 252.355.255.0 Default Gateway: 192.464.111 MAC Address: 00.1637.0203.6E Firmware: 0.00

Right-click on the TeraStation icon in NAS Navigator2, then click [Open Remote Desktop].

For OS X, hold the Control key, click on the TeraStation icon, then click [Open Remote Desktop].

If you see the message, "The source of this remote connection cannot be identified. Do you still want to connect?", click [Connect].

If the message "Cannot verify the computer ID of the destination" is displayed, click [Yes] or [Continue].



Enter the user name and the password.

Click [OK].

By default:

User name: Administrator Password: password

Windows Storage Server will launch in the Remote Desktop Screen.



Run Windows Update.

Click [Start] – [All Programs] – [Windows Update]. Step through the wizard to complete the update.

The TeraStation must be connected to the Internet to perform the update.

Anti-virus software is strongly recommended for Windows Storage Server.

- 12 Set the time.
  - 1. Double click on the time in the task tray.
  - 2. Set the correct date and time, then click [OK].

Time zone settings can be changed if necessary.

- 13 Create a shared folder (share).
  - 1. In Windows Storage Server, click [Start] [All Programs] [Administrative Tools] [Windows Storage Server Management].
  - 2. Double-click [Buffalo Tool].
  - 3. Click [Create Shared Folders].
  - 4. Right-click [Shares], then select [New Share].
  - 5. When the "Share a Folder" wizard opens, click [Next].
  - 6. Enter [D:\share] in [Folder Path] and click [Next].
  - 7. The message, "Do you want to create a shared folder?" is displayed. Click [Yes].
  - 8. Enter [share] in [Share name] and click [Next].
  - 9. Select [Administrator has full access; other users have read and write access] and click [Finish].
  - 10. When "Sharing was successfull." is displayed, click [close].
  - Right-click on the shard folder, then select [Properties]-[Security]. Click [Add] menu and select the user name as necessary. Adding [guest] permits access from any users. Check [Full Control] from [Permission to Guest] menu, then click [OK].



11:54 AM

en on Remote Deskto



- 12. Click [Local User and Group (Local)] in [Buffalo Tool].
- 13. Select [Local Users and Groups (Local)] [Users]. Double-click [Guest] from [Name]. Guest Properties will be displayed.
- 14. Click [General] [Account is disabled], and uncheck the checkbox.
- 15. Click [OK].

The above steps show the process of creating a shared folder on the TeraStation. This is only an example. We do not recommend using the C: drive for any of your shares. Please use the default RAID5 partition or any that you might have created.

It's recommended that you change your TeraStation's Administrator password from the factory default.

- 1. Click [Start] [Windows Security].
- 2. Click [Change Password].
- Enter "password" in [Old Password], and enter a new password in [New Password] and [Confirm New Password].



Menu - 86	View 👻 🍕 Refresh	
WS-QL		
WS-Q3.0TL/R5		Workgroup: WORKGROUP
WS Q3.0TL/R5	C: 3.6G8/30.0G8(18.5%)	Workgroup: WORKGROUP IP Address: 192.165.11.69
WS Q3.0TL/R5	C: 5.6G8/20.0G8(18.8%) D: 0.1G8/2704.5G8(0.0%)	Workgroup: WORKGROUP IP Address: 192.168.11.49 Subnet Mesi: 255.255.255.0
WS Q3.0TL/PS	C: 5.6G8/30.0G8(18.8%) D: 0.1G8/2704.5G8(0.0%)	Workgroup: WORKGROUP IP.Address: 192.168.11.49 Subnet Mask: 255.255.255.0 Default Gateway: 192.168.11.1 MaCA defaure: 0014070.92.0385
WS Q3.0TL/RS	C: 5.668/30.068(18.8%) D: 0.168/2704.568(0.0%)	Workgroup: WORKGROUP IP.Address: 192.106.11.49 Subnet Mask: 255.255.255.0 Default: Gateway: 192.106.11.1 MAC.Address: 001697820388 Firmware: 0.00

Double-click the TeraStation icon.

15 The TeraStation's shared folders are displayed.

In OS X, the TeraStation is mounted as a drive icon on the desktop, and displayed in the sidebar of the Finder.

Setup is complete. You can now use the TeraStation's shared folders to save files just like other hard drives.

Never disable the TeraStation's LAN port in Windows Storage Server. If you do, you will not be able to access the TeraStation. If you disable it, you will have to perform a system recovery to be able to use the TeraStation again.

#### Opening the TeraStation's shared folder from other computers

Install NAS Navigator2 on each computer that will be accessing the TeraStation. You may install NAS Navigator2 from the included TeraNavigator DVD or download it from www.buffalotech. com. Once NAS Navigator2 is installed, you can open shared folders as described in the previous section.

#### Configuring RAID

By default, the TeraStation is configured with Drive C, a mirrored array accross drives 1 and 2, and Drive D, a RAID 5 array accross drives 1, 2, 3 and 4. Other configurations are available. Changing the RAID configuration will erase all data on the drives. Back up any important data before changing RAID mode. To change RAID settings, consult the TeraStation WS User Manual. The following RAID modes are available:

RAID 5 array - 3 or 4 hard drives are combined in a single array. Parity data equivalent to 1 hard drive is saved, so if a single drive malfunctions, data can be recovered by replacing the failed drive. Usable capacity is the total space of all drives combined, minus the space of a single drive.

Mirrored Volume - Partitions on 2 drives are paired in a mirror array. Identical data is written to each partition. Usable capacity of the array is the size of whichever partition is smallest. If a drive malfunctions, data from the volume can be recovered by replacing the failed drive.

Striped Volume - Partitions on 4 drives are combined into one array. Fast write performance makes this one of the best performing types of volumes. No parity is stored, so if any drive fails, all data on the volume is lost.

Spanning Volume - Unused partitions from multiple hard drives are combined in one usable volume, allowing you to make better use of partitions that might not be usable otherwise. If any drive used the the volume fails, all data on the volume is lost.

Simple Volumes - Drives are addressed separately in Windows. No array is used.

## Log in to Windows Storage Server

To log in to Windows Storage Server, follow the procedure below.

- 1 Launch NAS Navigator2.
  - \* In Windows, double-click the [BUFFALO NAS Navigator2] icon on your desktop.
  - \* In OS X, click on the [NAS Navigator2] icon in the Dock.
- 2 Right-click on the TeraStation icon (in OS X, hold control and click the icon), and select [Open Remote Desktop] from the dropdown menu.

If two or more LinkStations and TeraStations are on the network, multiple icons are displayed. Click on your TeraStation's icon.

Note: If the message "Cannot verify the computer ID of the destination" is displayed, click [Yes] or [Continue].

3 Enter your user name and password, and click [OK].

Default User name: Administrator Default Password: password <u>After you log in, change the password for</u> <u>security purposes.</u>



Log On to Win	dows
	Windows Storage Server 2003 R2
Copyright @ 2005	Microsoft Corporation Microsoft
User name: Password:	Administrator
	OK Cancel Options >>
	Screen on Remote Desktop

4 Windows Storage Server will launch in the Remote Desktop Screen.

To use an OS X Mac with the TeraStation, please download and install "Remote Desktop Connection Client for Mac from Microsoft's website. Use version 1.0.3 if you are using Mac OS X 10.3.9, or version 2 for later versions of OS X. After installing the Remote Desktop Connection Client for Mac, you will be able to open the remote desktop and change TeraStation settings.

## Chapter 2 Additional Information

## **Optional Software**

Several optional software packages are included with your TeraStation. They can be installed from the TeraNavigator DVD. When TeraNavigator opens, click [options] to install optional software.

NAS Navigator2

NAS Navigator2 is the TeraStation's client utility. It lets you easily find and configure your TeraStation on the network.

NAS Navigator2 is installed automatically when you run the setup program in TeraNavigator. From [options], you can easily install it on other computers.

WS-Q2 WS-Q20TL/RS Workgroup: WORKGROUP IP-Address: 192.146.11.0 D: 0.108/2704308(0.0%) D: 0	6	lew ♥ *ƒ kerresn	
W5-Q30TU.R5 W5-Q30TU.R5 C: 5656/30.058(18.8%) D: 0.168/2704.568(0.0%) D: 0.168/2704.568(0.0%	WS-QL		
WS-Q3.0TL/RS         Workgroup: WORX6FOUP           Image: Comparison of the state of the			
WS-Q3 0TL/R5 C \$\$600'20.006(18.85) D: 0108'27045568(0.05) D: 0108'27045588(0.05) D: 0108'27045588(0.05) D: 0108'27045588(0.05) D: 0108'27045588(0.05) D: 0108'27045588(0.05) D: 0108'782538 Firmare: 000 NA 5 Navigabor: Ver. 222			
VS-02.07U-RS VS-02.07U-RS C 55659(20.05618.85%) D: 0.1069(2704.508)(0.0%) D: 0.1069(2704.508)(0.0%			
C 0.000 (0.25%)     D: 0.106 (274.5680.0%)			Workgroup: WORKGROUP
D: 0108/2704358900% D = 0108/2704358900% D = 0108/2704358900% D = 000 NAC Address: 00169782038E Firmare: 000 NAC Address: 00169782038E	WS-Q3.0TL/R5		10 4 4 4
MAC Addess 00:16:57:02:03.06 Firmware 000 NASS NAVIONATOR: Vm 2:32	WS-Q3.0TL/R5	C: 5.6GB/30.0GB(18.8%)	IP Address: 192.168.11.69 Submet Marke 355 355 0
Firmware: 0.00	WS-Q3.0TL/R5	C: 5.6GB/30.0GB(18.8%) D: 0.1GB/2704.5GB(0.0%)	IP Address: 192.168.11.69 Subnet Mask: 255.255.255.0 Default Gateway: 192.168.11.1
NASNavinator ver 2.22	WS-Q3.0TL/R5	C: 5.6GB/30.0GB(18.8%) D: 0.1GB/2704.5GB(0.0%)	<ul> <li>P Address: 19216811.69</li> <li>Subnet Mask: 255.255.255.0</li> <li>Default Gateway: 192168.111</li> <li>MAC Address: 00:16.97:82:03.8E</li> </ul>
	WS-Q3.0TL/R5	C: 5.6GB/30.0GB(18.8%) D: 0.1GB/2704.5GB(0.0%)	IP Address: 192.168.11.69 Subnet Mask: 255.255.255.0 Default Gateway: 192.168.11.1 MAC Address: 00:16.97:82:03.8E Firmware: 00.00

#### Memeo Backup

Memeo Backup lets you easily back up data from your computer to the TeraStation. After installing it, refer to [(All) Programs] - [BUFFALO] - [Memeo Backup] - [Memeo Backup] for instructions and documentation.

#### Back up your data!

No matter how secure the TeraStation is, there is always a chance that it will fail. An accident, controller failure, or lightning strike could lose all data on the TeraStation. Always back up your data on a regular basis!

One simple way to back up data is to connect a Buffalo external USB hard drive to the TeraStation and configure the TeraStation to back up all important data to it regularly.

## Troubleshooting

Does the installation program not find your TeraStation on the network? Are you unable to open the configuration utility? Here are some common causes of problems installing TeraStations, with solutions.

#### Common Problems:

Problem 1 - Cables not connected properly.

The TeraStation is not physically connected or has a bad connection. Reconnect the AC and Ethernet cables. Restart your computer and the TeraStation.

Problem 2 - Firewall software is enabled or running in the background.

Disable or uninstall the firewall and run the installer again.

Problem 3 - Both wireless and Ethernet networks are connected.

Disable any network connections on your computer besides the main wired Ethernet connection.

<u>Problem 4 - Defective Ethernet cable or the connection is not stable.</u> Replace the Ethernet cable. Use a different port on the hub to connect.

Problem 5 - Your NIC, card, or adapter is malfunctioning.

Replace the NIC, card, or adapter.

<u>Problem 6 - Your network is experiencing low speed or connection problems.</u> Configure the NIC and hub in 10M half-duplex or 100M half-duplex mode. Some network devices may have trouble connecting if the transfer mode is set to Auto Negotiation.

Problem 7 - There is a network bridge.

Delete any unused network bridges.

Problem 8 - You are searching from a different network.

To communicate with the TeraStation, your PC and the TeraStation must be on the same subnet. Connect the TeraStation and your PC to the same router, hub, or network.

<u>Problem 9 - TCP/IP does not work properly.</u> Reinstall the NIC drivers on your PC.

Problem 10 - Remote Desktop Connection Client for Mac is not installed on Mac.

Before using the TeraStation with an OS X Mac, download and install the Remote Desktop Connection Client for Mac from Microsoft's web site. Use version 1.0.3 if you are using Mac OS X 10.3.9, or version 2 for later versions of OS X.

#### If shared folders on the TeraStation suddenly stop working

If IP addresses or workgroup names on your network change, you may be no longer able to access network shares on the TeraStation. If this happens, use NAS Navigator2 to find the TeraStation on the network and make new links to your shares.

#### ■ If NAS Navigator2 finds the TeraStation but shared folders don't open

Did you have a power outage? Was your TeraStation unplugged or turned off without being shut down properly? The TeraStation's firmware may be corrupted.

Use the TeraNavigator DVD included with your TeraStation to perform a system recovery. Note that all data on drive 1 (and any array that uses it) will be erased by the system recovery process.

## System Recovery

If Windows Storage Server stops working properly, use the TeraNavigator DVD included with your TeraStation to perform a system recovery. Note that all data on drive 1 (and any array that uses it) will be erased by the system recovery process.

1 Turn off the TeraStation.

Click [Start] – [Shut down] – [Yes] from the Windows Storage Server desktop. When shutdown is complete, the green power button will turn off.

- 2 Attach an external USB DVD drive to the TeraStation. Insert the TeraNavigator DVD.
- **3** Hold in the Recovery Button on the TeraStation, and press the Power Button. The recovery process will begin.
- 4 When the first part of the recovery process is complete, the TeraStation will automatically shut down.
- **5** Remove the TeraNavigator DVD, disconnect the DVD drive, hold in the Recovery Button, and press the Power Button again. The TeraStation will complete the recovery process and restart automatically.

**Note:** During recovery, the green power button flashes and the message "TeraStation Booting System" is displayed on the LCD panel.

After system recovery, your TeraStation will be configured as follows:

Drive 1 - One 30 GB basic partition. The remaining space is unallocated.

Drives 2 - 4 Partitions are not visible. In Windows Disk Management, they're displayed as "foreign".

In Windows Disk Management, right-click on a "foreign" partition, and select [Import Foreign Disks] from the menu. The partitions will become visible. Right-click a partition and click [Reactivate Volume] to rebuild the RAID array.

To build a RAID array using Drive 1, you must convert the usable space on drive 1 from [Basic Disk] to [Dynamic Disk]. Right-click the basic disk in the Windows Disk Management and select [Convert to Dynamic Disk].

## **Specifications**

Check www.buffalotech.com for the latest specifications, manuals, and updates.

Operating System	Microsoft Windows Storage Server 2003 R2 Express Edition
	A copy of the Microsoft End User License Agreement "ms license doc" is
	A copy of the Microsoft End-Oser License Agreement mis-license.doc is
	available on the Teranavigator DVD. Please read it.
Interface (LAN)	Interface: Complies with IEEE802.3ab (1000BASE-T)
	Complies with IEEE802.3u (100BASE-TX)
	Complies with IEEE802.3 (10BASE-T)
	Transfer Speed: 10/100/1000 Mbps
	Number of ports: 1 (AUTO-MDX)
	Connector type: RJ-45
Interface (USB)	Interface: USB Standard Revision 2.0
	Data Transfer Speed: 480 Mbps (Logical value) Maximum
	Connector: 2 x USB Series A
	USB printers are not supported.
Interface (Serial)	Interface: UPS (D-SUB 9 pin) X 1
Hard Drives	Disk Structure: Drive C is a mirrored array accross drives 1 and 2, and Drive
	D is a RAID 5 array accross drives 1, 2, 3 and 4.
	If a hard drive malfunctions, replace it with another Buffalo OP-HD series
	drive of the same capacity, or larger. Spare drives are available from Buffalo
	Technology and selected retailers.
Power	AC 100 - 240 V 50/60Hz / ~75 W (Average)
Size / Weight	6.7" x 8.5" x 9.1" (170 mm × 215 mm × 230 mm) / ~8kg
Operating Environment	Temperature 41° - 95° F (5° - 35° C) , Humidity 20 - 80% (no condensation)
Compatible Operating	Windows 7 (32 bit/64 bit), Vista (32 bit/64 bit), Windows XP, Windows 2000
Systems	Windows Media Center Edition 2004/2005
	Windows Server 2008, Windows Server 2003, Windows 2000 Server
	Mac OS X 10.3.9 or later

## **Compliance Information**

### **FCC Information**

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

### **CE Mark**

This is a Class A product. In a domestic environment, this product may cause radio interference, in which case the user may be required to take adequate measures.

### **Environmental Information**

• The equipment that you have purchased required the extraction and use of natural resources for its production.

• The equipment may contain hazardous substances that could impact health and the environment.

• In order to avoid the dissemination of those substances in our environment and to diminish the load on natural resources, we encourage you to use the appropriate take-back systems.

• The take-back systems will reuse or recycle most of the materials of your end of life equipment appropriately.

• The crossed-out wheeled bin symbol invites you to use those systems.

• If you need more information on the collection, reuse and recycling systems, please contact your local or regional waste administration.



### **Contact Information**

### **North America**

North American Technical Support by phone is available 24 hours a day, 7 days a week. (USA and Canada).

Toll-free: (866) 752-6210 | Email: info@buffalotech.com

### Europe

Buffalo Technology provides technical support in English, German, French, Italian, and Spanish.

UK	0845 3511005
Austria	08101 0251552
Belgium	0787 99917
Denmark	70150919
Finland	010802812
France	0811 650220
Germany	01801 003757
Ireland	1890 719901
Italy	848 782113
Netherlands	09000401256
Norway	81000050
Spain	9018 10750
Sweden	0771404105
Switzerland	0848 560374
For all other reg	ions please contact +353 61 704617
www.buffalo-tec	hnology.com/contact

### **Asia Pacific**

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TEL: 1300 761 310	TEL: 86-800-820-8262
email: buffalo_support@uniden.com.au	e-mail: support@buffalo-china.com
Hong Kong	India
TEL: 852-2345-0005	TEL: 1-8004256210
e-mail: support@hornington.com	e-mail: csbuffalo@accelfrontline.in
Indonesia	Malaysia
TEL: 021-6231-2893	TEL: 03-5032-0138
	e-mail: buffalo@ecsm.com.my
Philippines	Republic of Korea
TEL: 2-688-3999	TEL: 02-2057-2095
e-mail: digisupport@msi-ecs.com.ph	e-mail: support@buffalotech.co.kr
Singapore	Taiwan
TEL: 65-6297-2085	TEL: 0800-660-886
e-mail: buffalo@blumm.com	e-mail: support@buffalo-tech.com.tw

Thailand TEL: 02-716-6669

#### Other Areas

Please contact the shop or distributor where you purchased the unit, referring to the attached warranty card issued by the distributor.