

# Hard Drive Replacement Procedure

## Drive Failures

If one of the TeraStation's drives fails, the error LED will glow red and the status LED to the right of the failed drive will blink red. While its status LED is blinking red, the drive may be hot-swapped. It may be replaced without powering down the TeraStation.

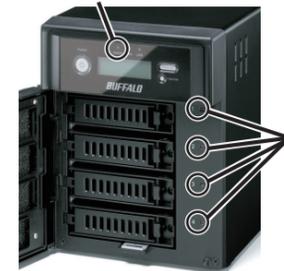
**Notes:**

Only replace drives with genuine Buffalo OP-HD series hard drives of the same size.

Hot-swapping is optional. You may always shut the TeraStation down before swapping drives if desired.

Hot-swapping is only allowed for a failed drive with a flashing red LED. Before removing a good drive, shut down the TeraStation.

Error LED



Status LEDs 1 - 4

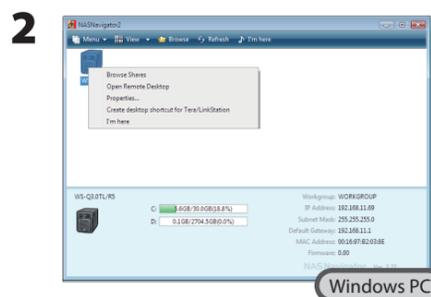
## Replacing a Damaged or Failed Drive

- Handle the TeraStation carefully. Don't drop any parts.
- Before removing any drives, touch the metal back of the TeraStation to dissipate any static electricity.
- Replace failed drives with new Buffalo OP-HD series drives only. Replacement disks may be the same size.
- Do not replace a failed drive with a drive that has previously been used in another TeraStation or a computer. If you do, you may lose all data on your other drives. Use a new OP-HD disk only.
- Do not change the order of the hard disks. If two disks are reversed, all data on arrays may be lost.
- The boot drive (C:) is mirrored on drives 1 and 2. Do not replace them both at once.

Steps 1 - 7 are to replace a failed drive while the TeraStation is turned on. If your TeraStation is off, start with step 8 on the other side of the page.

**1** Launch NAS Navigator2.

For a PC, double-click the [BUFFALO NAS Navigator2] icon on the desktop. For a Mac, click the [NAS Navigator2] icon in the Dock.



For a PC, right-click your TeraStation's icon and choose [Open Remote Desktop].

For a Mac, hold down [control], click you TeraStation's icon, and choose [Open Remote Desktop].



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

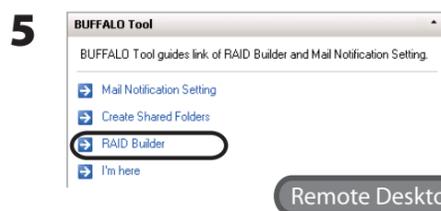
The default password settings are:  
**User name: Administrator**  
**Password: password**

Windows Storage Server Management will open.\*

\* It can also be opened by clicking [Start] - [All programs] - [Administrative Tools] - [Windows Storage Server Management] from the Windows desktop.



Double-click [Buffalo Tool].



Click on [RAID Builder].

**6** Open the front cover with your key.



Select [Remove Hard Disk] from the dropdown menu. Select the hard disk to remove\* and click [OK].

\* The damaged drive's status LED blinks red.

# Replacing a Hard Drive

>> Continued from the other side

**8** When "hard disk is removed" is displayed, click [OK]. The blinking red LED will now glow a solid red.

**9** Squeeze the latch to the left and then swing the lock out to the left.



**10** Once the lock has swung out 45°, slide the drive cartridge out.



**11** Insert the replacement drive with the lock open.

Insert the drive with the lock open.



**12** Press the latch until it clicks.



**13** Close the front cover. If the TeraStation was off, press the power button to turn it on.

**14** Start the "RAID Builder" as in steps 1-5.



Remote Desktop

Choose [Detect Attached Hard Disk]. Select the installed hard disk and click OK.

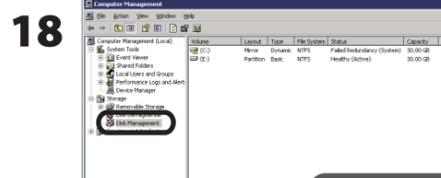
Note: Previously recognized drives are greyed out.

**16** When "Hard disk is recognized" is displayed, click [OK].



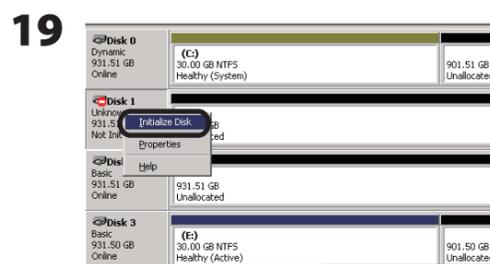
Remote Desktop

Right click on [My Computer] and select [Manage].



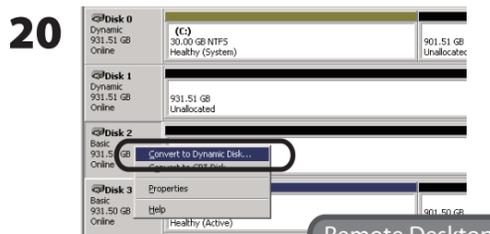
Remote Desktop

Select [Disk Management].



Remote Desktop

Right-click on the new drive and select [Initialize Disk]. Step through the wizard to initialize the drive.



Remote Desktop

Right-click on the new drive and select [Convert to Dynamic Disk]. You may now configure RAID arrays with this disk.

**21 Create a new volume**

Right click on the dynamic disk and select [New Volume]. Step through the wizard to create a new volume.

**To restore a RAID volume (RAID resynchronization)**

**1** Right-click on the volume labeled "Redundancy Failure", then click on [Restore Volume] from the displayed menu.

**2** When "Select the disk from the following list" is displayed, select the new disk and click [OK].

**3** Right-click on the volume labeled "Insufficient" and select [Delete Disk].

This completes the procedure of replacing a hard disk.