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› **BUFFALO DriveStation Ultra 10-Drive Thunderbolt Desktop DAS 40 TB User Manual**

BUFFALO HD-DN040T/R6

BUFFALO DriveStation Ultra 10-Drive Thunderbolt Desktop DAS 40 TB User Manual

Model: HD-DN040T/R6

1. PRODUCT OVERVIEW

The BUFFALO DriveStation Ultra is a high-performance, high-capacity direct attached storage (DAS) solution designed for demanding data transfer needs, such as high-resolution video editing. This 10-drive desktop model offers a 40 TB storage capacity and features multi-interface support for both Mac and PC systems.

Key features include:

- Industry-leading throughput: Up to 972 MB/s Read and 737 MB/s Write speeds.
- Multi-interface support: Thunderbolt 2 for Mac, and eSATA/USB 3.0 for Windows.
- Advanced data protection: Supports RAID 6 configurations, allowing for up to two drive failures without data loss.
- Equipped with enterprise or NAS hard drives for continuous operation.

1.1 What's in the Box

- DriveStation™ Ultra unit
- Thunderbolt cable
- USB 3.0 cable
- eSATA cable
- Quick setup guide
- Warranty statement



Figure 1: Front view of the BUFFALO DriveStation Ultra unit.

2. SETUP INSTRUCTIONS

Follow these steps to set up your DriveStation Ultra:

1. **Unpack the Device:** Carefully remove the DriveStation Ultra and all accessories from its packaging.
2. **Position the Device:** Place the unit on a stable, flat surface with adequate ventilation. Ensure no vents are obstructed.
3. **Connect Power:** Connect the power cable to the unit and then to a power outlet. Do not power on the device yet.
4. **Connect to Computer:** Choose one of the following connection methods:
 - **Thunderbolt 2 (Mac):** Use the provided Thunderbolt cable to connect the DriveStation Ultra to your Mac's Thunderbolt port.
 - **USB 3.0 (PC/Mac):** Use the provided USB 3.0 cable to connect the DriveStation Ultra to your computer's USB 3.0 port.
 - **eSATA (PC):** Use the provided eSATA cable to connect the DriveStation Ultra to your computer's eSATA port.
5. **Power On:** Once connected, press the power button on the DriveStation Ultra. The device will initialize.
6. **Driver Installation (if necessary):** Your operating system should automatically detect the device. If prompted, install any necessary drivers from the included software or BUFFALO's support website.
7. **RAID Configuration:** The DriveStation Ultra comes pre-configured. For advanced RAID configurations (e.g.,

changing from default RAID 6), refer to the detailed software manual available on the BUFFALO support website.



Figure 2: Rear view of the DriveStation Ultra, highlighting Thunderbolt, USB 3.0, and eSATA ports.

3. OPERATING INSTRUCTIONS

Once the DriveStation Ultra is set up and recognized by your computer, it functions as an external storage device. You can access it like any other connected drive.

- **Data Transfer:** Drag and drop files to and from the DriveStation Ultra. For optimal performance, use the Thunderbolt 2 connection on Mac systems or USB 3.0/eSATA on PC systems.
- **Performance:** Expect high-speed data transfers, particularly with large files, due to the optimized hardware and RAID configuration.
- **Safe Removal:** Always safely eject the DriveStation Ultra from your operating system before disconnecting the cables or powering down the unit to prevent data corruption.
- **Power Management:** The device is designed for continuous operation. If you need to power it off, use the power button on the unit after safely ejecting it from your computer.

4. MAINTENANCE

Proper maintenance ensures the longevity and reliability of your DriveStation Ultra:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Do not use liquid cleaners or aerosols directly on the device.
- **Ventilation:** Ensure that the ventilation openings are clear of dust and obstructions to prevent overheating.
- **Firmware Updates:** Periodically check the BUFFALO support website for firmware updates. Keeping the firmware updated can improve performance and stability.
- **Data Backup:** While the DriveStation Ultra offers RAID 6 for data protection, it is always recommended to maintain separate backups of critical data.
- **Drive Health:** Monitor the health of the drives using the included utility software or your operating system's disk management tools.

5. TROUBLESHOOTING

If you encounter issues with your DriveStation Ultra, try the following steps:

- **Device Not Detected:**

- Ensure the power cable is securely connected and the unit is powered on.
 - Verify that the data cable (Thunderbolt, USB, or eSATA) is firmly connected to both the DriveStation Ultra and your computer.
 - Try connecting to a different port on your computer or using a different cable.
 - Restart your computer and the DriveStation Ultra.
- **Slow Performance:**
 - Ensure you are using the correct high-speed interface (Thunderbolt 2, USB 3.0, or eSATA) and compatible cables.
 - Check for background processes on your computer that might be consuming resources.
 - Verify that the DriveStation Ultra has adequate ventilation to prevent thermal throttling.
- **Drive Failure Indication:**
 - The DriveStation Ultra's RAID 6 configuration provides protection against up to two drive failures. Consult the detailed manual or BUFFALO support for drive replacement procedures.
 - Do not attempt to replace drives without proper guidance to avoid data loss.
- **Other Issues:** If the problem persists after trying these steps, refer to the comprehensive user manual on the BUFFALO support website or contact technical support.

6. SPECIFICATIONS

Feature	Detail
Hard Drive Capacity	40 TB Mechanical Hard Disk
Brand	BUFFALO
Series	DriveStation Ultra
Model Number	HD-DN040T/R6
Hardware Platform	Mac, PC
Item Weight	39.7 pounds
Product Dimensions (LxWxH)	15.24 x 7.48 x 12.6 inches
Color	Silver
Hard Drive Interface	eSATA
Hard Drive Rotational Speed	7200 RPM
Connectivity Technology	Thunderbolt, USB, eSATA
Installation Type	External Hard Drive
First Available Date	July 22, 2015

7. WARRANTY INFORMATION

The BUFFALO DriveStation Ultra 10-Drive Thunderbolt Desktop DAS 40 TB (Model HD-DN040T/R6) comes with a **3-Year Limited Warranty**.

For detailed terms and conditions of the warranty, please refer to the warranty statement included in your product packaging or visit the official BUFFALO website.

8. SUPPORT

For technical assistance, additional documentation, or to download the latest drivers and firmware, please visit the official BUFFALO support website.

You can typically find support resources by searching for your product model (HD-DN040T/R6) on the BUFFALO support portal.

Contact information for customer service may also be available on the BUFFALO website or in your product's quick setup guide.