

## Western Digital WD8005FFBX

# Western Digital WD Red Pro 8TB NAS Internal Hard Drive

MODEL: WD8005FFBX

### 1. Introduction

This manual provides essential information for the installation, operation, and maintenance of your Western Digital WD Red Pro 8TB NAS Internal Hard Drive. Designed for high-intensity, 24x7 multi-user commercial and enterprise Network Attached Storage (NAS) environments, the WD Red Pro series delivers performance, scalability, and dependability for storing, sharing, and collaborating on large amounts of data in multi-bay RAID-optimized NAS systems.

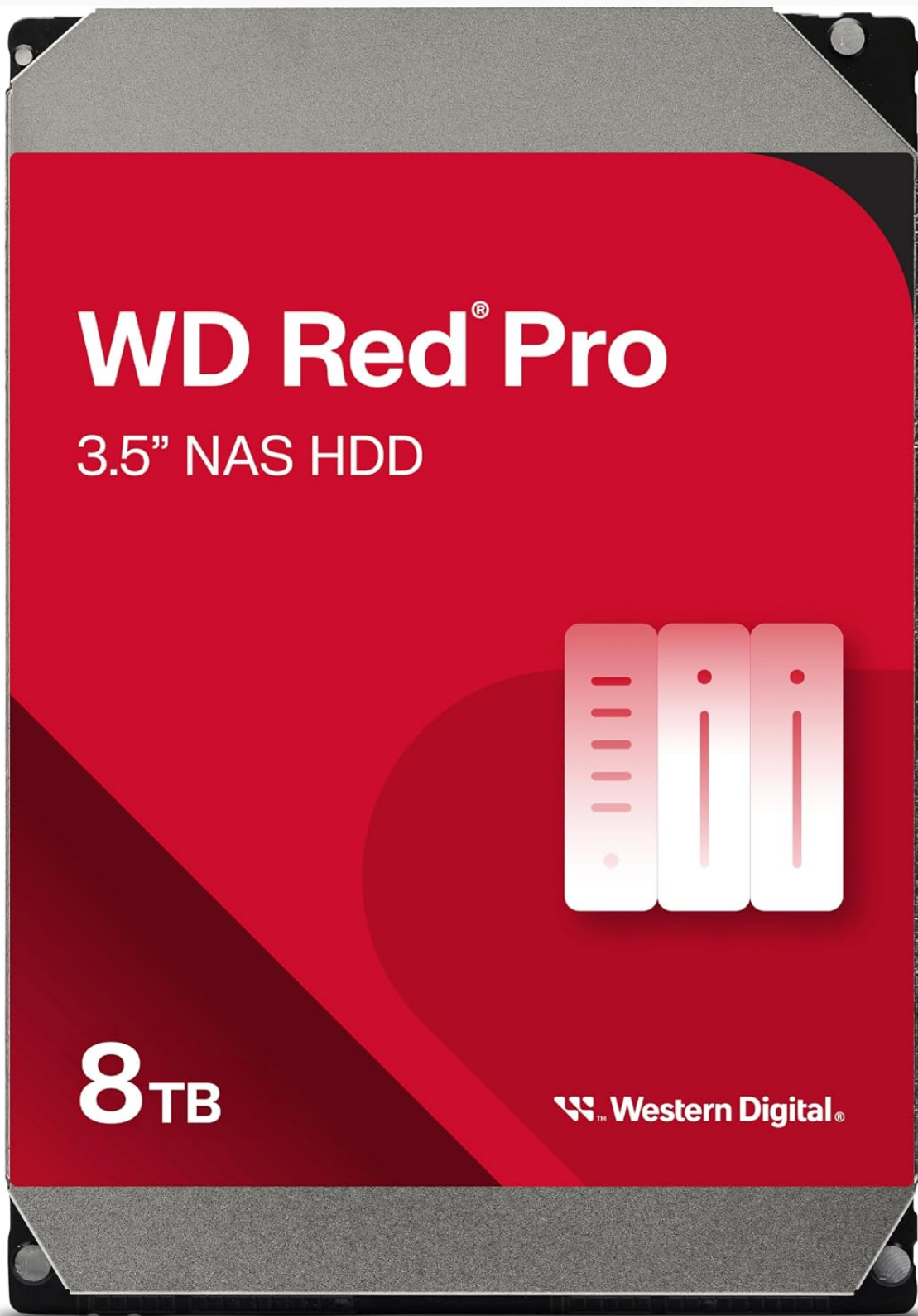


Figure 1: Western Digital WD Red Pro 8TB NAS HDD Retail Packaging

## 2. Product Overview

The WD Red Pro drive is specifically engineered for demanding NAS environments. Key features include:

- Available in capacities ranging from 2TB to 24TB. (Note: 1GB = 1 billion bytes and 1TB = 1 trillion bytes. Actual user capacity may be less depending on operating environment.)
- Optimized for RAID systems with an unlimited number of bays.
- Rated for a 550TB/year workload rate. (Note: Annualized Workload Rate = TB transferred x (8760 / recorded power-on hours). The maximum rated workload is specified for operating at a typical

temperature of 40°C. Workload Rate will vary depending on your hardware and software components and configurations.)

- Designed for high-intensity 24x7 multi-user NAS environments.
- Extensively tested for compatibility with most NAS enclosures through partnerships with various NAS system vendors.



Figure 2: Western Digital Red Pro 3.5" NAS HDD

### 3. Specifications

Detailed specifications for the WD Red Pro 8TB NAS Internal Hard Drive (WD8005FFBX):

| Feature                     | Description                         |
|-----------------------------|-------------------------------------|
| Hard Drive Capacity         | 8 TB Mechanical Hard Disk (8000 GB) |
| Brand                       | Western Digital                     |
| Series                      | WD Red Pro                          |
| Model Number                | WD8005FFBX                          |
| Item Weight                 | 1.47 pounds                         |
| Product Dimensions (LxWxH)  | 1.4 x 4.3 x 5.7 inches              |
| Hard Drive Interface        | Serial ATA-600 (SATA)               |
| Hard Drive Rotational Speed | 7200 RPM                            |
| Cache                       | 256 MB                              |
| Form Factor                 | 3.5 Inches                          |
| Compatible Devices          | Network Attached Storage (NAS)      |
| Special Feature             | For RAID-optimized NAS systems      |



# 8TB

## WD8005FFBX

SATA 6Gb/s NX HA710



MDL: WD8005FFBX-68CAKN0



S/N: 12345678

### NASware<sup>TM</sup>

Made in Thailand 28 APR 2023 R/N: 3VAHA2  
5VDC: 0.7A 12VDC: 0.9A W/N: 50014EEL12345678

P/N: 0B47078



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**WD Red<sup>TM</sup> Pro**  
NAS Hard Drive

# 8TB

## WD8005FFBX

SATA 6Gb/s NX HA710



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### NASware<sup>TM</sup>

Made in Thailand 28 APR 2023

Figure 3: Drive Label with Model and Capacity Information

## 4. Setup and Installation

Installing your WD Red Pro NAS hard drive involves physical placement and connection within your NAS enclosure. Always refer to your NAS enclosure's specific instruction manual for detailed installation steps, as procedures may vary.

### General Installation Steps:

1. **Prepare your NAS:** Power down your NAS device and disconnect it from the power source.
2. **Access Drive Bays:** Open the drive bay(s) on your NAS enclosure. This may involve releasing latches or removing screws.
3. **Mount the Drive:** Secure the WD Red Pro hard drive into a drive tray or directly into the bay, ensuring proper alignment with screw holes. Use the provided screws (if applicable) or those supplied with your NAS enclosure.
4. **Connect Cables:** Connect the SATA data cable and SATA power cable to the corresponding ports on the hard drive. Ensure connections are firm.
5. **Secure Drive Tray:** Slide the drive tray back into the NAS enclosure until it clicks into place or is securely fastened.
6. **Power On:** Reconnect your NAS to the power source and power it on.
7. **Initialize Drive:** Follow your NAS operating system's instructions to initialize, format, and configure the new hard drive for use (e.g., adding it to a RAID array).



Figure 4: Rear view of the hard drive showing SATA data and power connectors.

## 5. Operating the Drive

The WD Red Pro hard drive is designed for continuous operation within a NAS environment. Once installed and configured within your NAS system, it will function as part of your storage array. Its 7200 RPM speed and 256 MB cache contribute to efficient data access and transfer rates, crucial for multi-user and high-demand applications.

The drive leverages NASware 3.0 technology, which optimizes performance and reliability specifically for NAS workloads. This includes features like error recovery controls, vibration compensation, and power management to ensure stable operation in 24x7 environments.

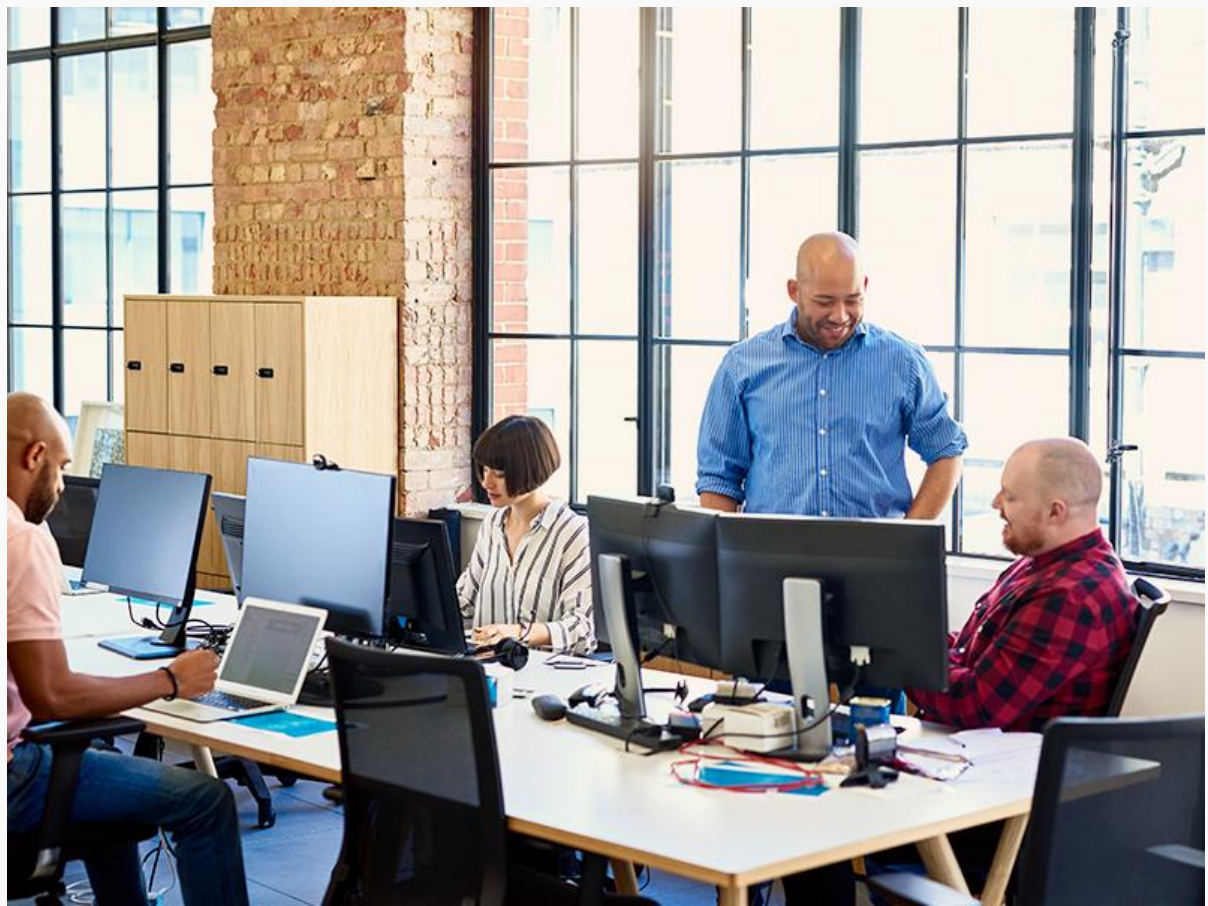


Figure 5: NASware 3.0 Technology for Enhanced Performance

## 6. Maintenance

To ensure the longevity and optimal performance of your WD Red Pro hard drive, consider the following maintenance practices:

- **Regular Backups:** Implement a robust backup strategy for all critical data stored on your NAS. While RAID provides redundancy, it is not a substitute for backups.
- **Monitor Drive Health:** Utilize your NAS operating system's tools to regularly monitor the health status of your hard drives (e.g., S.M.A.R.T. data).
- **Ensure Proper Ventilation:** Maintain adequate airflow around your NAS enclosure to prevent overheating, which can degrade drive performance and lifespan.
- **Firmware Updates:** Periodically check the Western Digital support website for any available firmware updates for your drive model and apply them as recommended.
- **Environmental Control:** Operate the NAS in a stable environment, avoiding extreme temperatures, humidity, and excessive vibrations.

## 7. Troubleshooting

If you encounter issues with your WD Red Pro hard drive, consider the following common troubleshooting steps:

- **Drive Not Detected:**
  - Verify that the SATA data and power cables are securely connected to both the drive and the NAS motherboard/backplane.
  - Ensure the drive is properly seated in its bay or tray.

- Check your NAS operating system for drive detection and initialization options.

- **Slow Performance:**

- Confirm that your NAS is not performing background tasks (e.g., RAID rebuild, data scrubbing, backups).
- Check network connectivity and ensure your network infrastructure (cables, switch) is not a bottleneck.
- Monitor drive health for any signs of degradation.

- **Unusual Noises:**

- While some operational noise is normal for mechanical hard drives, excessive clicking, grinding, or scraping sounds may indicate a potential issue. Back up your data immediately and consider replacing the drive.

For persistent issues, consult your NAS enclosure's documentation or contact Western Digital Support.

## 8. Warranty and Support

The Western Digital WD Red Pro 8TB NAS Internal Hard Drive (WD8005FFBX) comes with a **5-Year Limited Manufacturer's Warranty**. This warranty covers defects in materials and workmanship under normal use.



Figure 6: 5-Year Limited Manufacturer's Warranty

For warranty claims, technical assistance, or further information, please visit the official Western Digital support website or contact their customer service. Ensure you have your drive's model number (WD8005FFBX) and serial number available when seeking support.

**Important:** Register your product on the Western Digital website to facilitate warranty services and receive

important product updates.