

Western Digital WD64PURZ

Western Digital 6TB WD Purple Surveillance Internal Hard Drive HDD - WD64PURZ User Manual

Model: WD64PURZ

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your Western Digital 6TB WD Purple Surveillance Internal Hard Drive (Model WD64PURZ). This drive is specifically engineered for 24/7 surveillance systems, offering reliable storage for high-definition video streams.

2. SAFETY INFORMATION

Observe the following safety guidelines to prevent damage to the drive and ensure safe operation:

- Handle the hard drive with care. Avoid dropping or subjecting it to physical shock.
- Always ground yourself before handling the drive to prevent electrostatic discharge (ESD).
- Ensure power is disconnected from the system before installation or removal.
- Do not open the drive enclosure. This will void the warranty and may damage the drive.
- Install the drive in a well-ventilated area to prevent overheating.

3. SETUP AND INSTALLATION

Follow these steps to install your WD Purple surveillance hard drive into a compatible system (e.g., NVR or DVR).

3.1 Physical Installation

1. **Prepare the System:** Power off your NVR/DVR system and disconnect all power cables.
2. **Open the Enclosure:** Carefully open the NVR/DVR enclosure according to its manufacturer's instructions.
3. **Mount the Drive:** Secure the WD Purple hard drive into an available drive bay using the appropriate screws. Ensure it is firmly seated to prevent vibration.

4. **Connect Cables:**

- Connect a SATA data cable from the hard drive to an available SATA port on the NVR/DVR motherboard.
- Connect a SATA power cable from the system's power supply to the hard drive.

5. **Close Enclosure:** Close the NVR/DVR enclosure and secure it.

6. **Power On:** Reconnect power cables and power on your NVR/DVR system.



Figure 1: Front view of the WD Purple 6TB Surveillance Hard Drive. This image shows the purple label with "WD Purple 3.5" Surveillance HDD" and "6TB" branding, along with the Western Digital logo and a camera icon.



Figure 2: Back view of the WD Purple 6TB Surveillance Hard Drive. This image displays the drive's metallic casing and the product label, which includes the model number WD64PURZ, SATA 6 Gb/s interface details, and certifications.

3.2 System Configuration

After physical installation, your NVR/DVR system may require configuration:

- **Drive Detection:** Access your NVR/DVR's system settings or storage management interface to confirm the drive is detected.

- **Formatting:** If prompted, format the new hard drive within the NVR/DVR system. This prepares the drive for recording. Refer to your NVR/DVR manual for specific formatting procedures.
- **Recording Settings:** Configure recording schedules, motion detection, and other surveillance settings as desired.

4. OPERATING THE HARD DRIVE

The WD Purple drive is designed for continuous, 24/7 operation within surveillance environments. Key operational aspects include:

- **Continuous Recording:** The drive is optimized for constant video stream recording from multiple cameras.
- **WD AllFrame Technology:** This technology helps reduce frame loss and improve overall video playback, especially in write-intensive, low bit-rate, high stream-count workloads typical of surveillance applications.
- **Data Management:** All data management, including recording, overwriting old footage, and playback, is handled by your NVR/DVR system. Consult your system's manual for detailed instructions on these functions.

5. MAINTENANCE

To ensure optimal performance and longevity of your WD Purple hard drive:

- **Environmental Control:** Maintain a stable operating environment for your NVR/DVR, avoiding extreme temperatures, high humidity, and excessive dust.
- **Ventilation:** Ensure adequate airflow around the NVR/DVR to prevent heat buildup, which can impact drive performance and lifespan.
- **System Health Checks:** Periodically check your NVR/DVR system's health logs for any reported drive errors or warnings.
- **Firmware Updates:** Keep your NVR/DVR system's firmware updated, as this can include optimizations for hard drive compatibility and performance.

6. TROUBLESHOOTING

If you encounter issues with your WD Purple hard drive, consider the following:

- **Drive Not Detected:**
 - Verify all SATA data and power cables are securely connected.
 - Ensure the NVR/DVR system is powered on correctly.
 - Check the NVR/DVR's BIOS or system settings to see if the drive is recognized.
- **Recording Errors/Frame Loss:**
 - Confirm the drive has been properly formatted by the NVR/DVR system.
 - Check the NVR/DVR's recording settings and available storage space.
 - Ensure the NVR/DVR system's firmware is up to date.
- **Unusual Noises:**
 - A clicking or grinding noise may indicate a drive failure. Back up any critical data immediately if possible and contact support.

- Ensure the drive is securely mounted to prevent vibration-related noises.

For advanced troubleshooting, refer to your NVR/DVR system's user manual or contact Western Digital Support.

7. SPECIFICATIONS

Feature	Detail
Model Number	WD64PURZ
Digital Storage Capacity	6 TB (6000 GB)
Hard Disk Interface	Serial ATA-600 (SATA 6 Gb/s)
Cache	256 MB
Form Factor	3.5 Inches
Rotational Speed	5400 RPM
Workload Rate	Up to 180 TB/year
Supported Bays	Up to 16 bays (for 3TB and above)
Dimensions (LxWxH)	5.79 x 4 x 1.03 inches
Item Weight	1.26 pounds
Special Feature	Tarnish-resistant components (for 3TB and higher)
Compatible Devices	Desktop (NVR/DVR systems)

8. WARRANTY INFORMATION

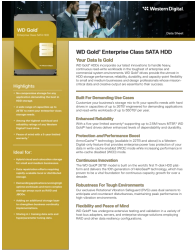
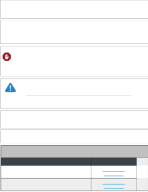
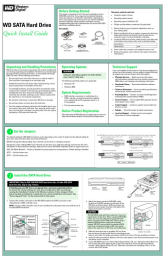
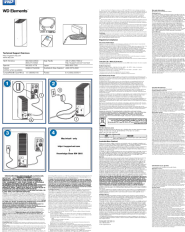


Western Digital products are covered by a limited warranty. For specific warranty terms and conditions applicable to your WD Purple hard drive, please refer to the official Western Digital website or the warranty documentation included with your purchase. Keep your proof of purchase for warranty claims.

9. SUPPORT

For further assistance, technical support, or to access additional resources, please visit the official Western Digital support website:

Western Digital Support

You may also find helpful information and community forums on the Western Digital website.

	<p>WD Gold Enterprise Class SATA HDD: High-Capacity, Reliable Storage Solutions</p> <p>Data sheet for Western Digital's WD Gold Enterprise Class SATA HDDs, detailing specifications, features, and ideal use cases for demanding workloads. Capacities up to 26TB, 5-year warranty, and advanced reliability.</p>
	<p>How to Partition, Format, and Troubleshoot WD External Hard Drives on Windows and macOS</p> <p>A comprehensive guide from Western Digital (WD) detailing how to partition and format WD external hard drives for compatibility with Windows and macOS operating systems. It includes troubleshooting steps for common connection and recognition issues, guidance on using WD utilities like WD Security and WD Drive Utilities, and information on drive management.</p>
	<p>Western Digital WD SATA Hard Drive Quick Install Guide</p> <p>A concise guide for installing Western Digital WD SATA Hard Drives, covering pre-installation steps, physical installation, jumper settings, and using Data Lifeguard Tools for setup and management. Includes alternate installation methods for Windows XP/2000.</p>
	<p>WD Elements External Hard Drive: Quick Start Guide and Warranty Information</p> <p>Get started quickly with your WD Elements external hard drive. This guide provides installation instructions, technical support details, regulatory compliance information, and comprehensive warranty details for Western Digital products.</p>
	<p>My Book VelociRaptor Duo Dual-Drive Storage System User Manual</p> <p>Comprehensive user manual for the Western Digital My Book VelociRaptor Duo dual-drive external storage system. Learn about setup, Thunderbolt connectivity, RAID configurations (RAID 0, RAID 1, JBOD), drive management with WD Drive Utilities, drive replacement, and regulatory compliance.</p>
	<p>My Book™ Duo RAID</p> <p>Western Digital My Book™ Duo RAID</p>

