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› [Western Digital](#) /

› Western Digital Caviar Green WD10EARS 1TB Internal Hard Drive Instruction Manual

Western Digital WD10EARS

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Instruction Manual

INTRODUCTION

This manual provides essential instructions for the installation, operation, maintenance, and troubleshooting of your Western Digital Caviar Green WD10EARS 1TB Internal Hard Drive. Please read this document thoroughly before proceeding with installation or use to ensure proper functionality and data integrity.

The WD Caviar Green series is designed for high-capacity storage with a focus on energy efficiency and quiet operation, making it suitable for desktop PCs and external storage solutions.

SETUP

1. Physical Installation

The WD10EARS is a 3.5-inch internal hard drive. Installation requires an available 3.5-inch drive bay, a SATA data cable, and a SATA power connector from your power supply unit. Mounting screws are typically required and are not included with the bare drive.

1. Ensure your computer is powered off and unplugged from the electrical outlet.
2. Open the computer case to access the internal drive bays.
3. Secure the hard drive into an available 3.5-inch drive bay using appropriate mounting screws.
4. Connect one end of the SATA data cable to the hard drive and the other end to an available SATA port on your motherboard.
5. Connect a SATA power connector from your power supply unit to the hard drive.
6. Close the computer case, plug in the power cord, and power on the computer.

2. Operating System Compatibility and Initial Setup

This drive is compatible with Windows 7, Windows Vista, Windows XP/2000, Mac OS X (Tiger, Leopard, Snow Leopard), and Linux operating systems.

The WD10EARS utilizes Advanced Format (AF) technology. For optimal performance and full capacity recognition:

- **Windows 7, Windows Vista, Mac OS X, and Linux:** These operating systems are generally compatible with Advanced Format drives and should recognize the drive without special steps.
- **Windows XP:** Users of Windows XP must run the free WD Align software utility to achieve full performance

and proper alignment. This utility is available for download from the Western Digital support website. Failure to run WD Align on Windows XP may result in reduced performance.

After physical installation and booting your computer, the drive may need to be initialized and formatted through your operating system's disk management utility before it can be used for storage.



Figure 1: Overview of the Western Digital Caviar Green WD10EARS 1TB internal hard drive. This image shows the top casing of the hard drive, featuring the Western Digital logo, '1.0TB' capacity, 'SATA / 64MB Cache', and the model number 'WD10EARS'.



Figure 2: Close-up view of the product label on the Western Digital Caviar Green WD10EARS hard drive. The label displays key information including the serial number (S/N: WMAYM0000813), model number (MDL: WD10EARS-00Z5B1), manufacturing date (DATE: 22 MAR 2010), and electrical specifications (5VDC: 0.70A, 12VDC: 0.55A). It also notes the requirement for the WD Align utility for Windows XP due to Advanced Format (AF) technology.

OPERATING

Once installed and formatted, the WD Caviar Green WD10EARS functions as a standard internal hard drive for data storage. Its design emphasizes a balance between performance and energy efficiency.

- **IntelliPower:** This technology fine-tunes the spin speed, transfer rate, and caching algorithms to deliver significant power savings and solid performance.
- **IntelliSeek:** Calculates optimal seek speeds to reduce power consumption, minimize noise, and decrease vibration during operation.
- **NoTouch Ramp Load Technology:** The recording head never touches the disk media, which helps ensure significantly less wear to the recording head and media, and provides better drive protection during transit.
- **Quiet Operation:** WD GreenPower Technology results in lower operating temperatures and reduced acoustics, making it suitable for quiet PC environments.

This drive is ideal for storing large volumes of data such as digital photos, videos, music, and documents.

MAINTENANCE

Proper maintenance helps ensure the longevity and reliability of your hard drive.

- **Data Backup:** Regularly back up important data to another storage device. Western Digital offers Acronis TrueImage as a free download from their support site, which can be used to copy all your data to a new drive or for backup purposes.
- **Environmental Considerations:** The WD Caviar Green drives are designed to be lead and halogen-free, contributing to reduced environmental impact.
- **Temperature Management:** Ensure adequate airflow within your computer case to prevent excessive heat buildup, which can affect drive performance and lifespan.

TROUBLESHOOTING

If you encounter issues with your WD Caviar Green WD10EARS hard drive, consider the following common troubleshooting steps:

- **Drive Not Recognized:**
 - Check all SATA data and power cable connections to ensure they are secure.
 - Verify that the drive is enabled in your system's BIOS/UEFI settings.
 - Ensure the drive has been initialized and formatted using your operating system's disk management tools.
- **Performance Issues (Windows XP):**
 - If using Windows XP, confirm that the WD Align utility has been run. This is crucial for Advanced Format drives on older operating systems.
- **Unusual Noises:**
 - While WD Caviar Green drives are designed for quiet operation, persistent clicking or grinding noises may indicate a potential issue. Back up your data immediately and contact Western Digital support.

For further assistance, refer to the Western Digital Support site, which offers a detailed Knowledge Base with over 1,000 helpful articles, and provides toll-free support in the U.S. and Canada.

SPECIFICATIONS

Feature	Description
Model Number	WD10EARS

Digital Storage Capacity	1 TB
Hard Disk Interface	Serial ATA (SATA 3 Gb/s)
Connectivity Technology	SATA
Hard Disk Form Factor	3.5 Inches
Compatible Devices	Desktop
Dimensions (L x W x H)	6 x 4.1 x 1.3 inches (152.4 x 104.14 x 33.02 mm)
Item Weight	1.32 pounds (0.6 kg)
Special Features	IntelliPower, IntelliSeek, NoTouch Ramp Load Technology, Advanced Format (AF)
Operating Systems Supported	Windows 7/Vista/XP/2000, Mac, Linux
Manufacturer	Western Digital

WARRANTY AND SUPPORT

Western Digital products undergo extensive Functional Integrity Testing (F.I.T.) to ensure reliability. The WD Caviar Green WD10EARS typically comes with a limited warranty. Please refer to the official Western Digital website for the most current and specific warranty terms applicable to your region and purchase date.

For technical support, product information, or to download utilities like WD Align or Acronis TrueImage, visit the official [Western Digital Support site](#). The site provides access to a comprehensive Knowledge Base and contact information for customer service.

All WD drives purchased from authorized retailers are shipped in WD-certified packaging, designed and tested to protect the product during transit.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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