

WD5000AVDS

Overview:

Power-conserving WD AV-GP SATA hard drives take advantage of WD GreenPower Technology to meet the extreme requirements of demanding audio and video environments. With power reduction of up to 40%, they deliver cool and quiet operation and reliability perfect for audio video applications such as PVRs, DVRs, set-top boxes (STBs) as well as surveillance video recording.

• **Features:**

- Long-term Reliability - These drives are designed to last in high temperature always-on streaming digital audio/video environments such as PVR/DVR, DVR recorders and surveillance video recorders.
- Quiet - Noise levels have been minimized to less than one sone* - virtually below the threshold of human hearing.
- Reduced Power Consumption - WD has reduced power consumption by up to 40 percent compared to competitors' drives with the combination of WD's IntelliSeek, IntelliPark, and IntelliPower technologies.
- Compatible - Tested for compatibility in a broad range of AV products including set top boxes, DVD recorders, and mainstream surveillance systems.
- SilkStream - Optimized for smooth, continuous digital video playback of up to twelve simultaneous HD streams. SilkStream is compatible with the ATA streaming command set so CE customers can use standard streaming management and error recovery options.
- IntelliSeek - Calculates optimum seek speeds to lower power consumption, noise and vibration.
- IntelliPark - Delivers lower power consumption by automatically unloading the heads during idle to reduce aerodynamic drag.
- Preemptive Wear Leveling (PWL) - The drive arm frequently sweeps across the disk to reduce uneven wear on the drive surface common to audio video streaming applications.
- Advanced Format Technology (AF) - Technology being adopted by WD and other drive manufacturers as one of multiple ways to continue growing hard drive capacities. AF is a more efficient media format that enables increased areal densities. (EURS models only)
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Specifications:

Specifications for the product series	
Product Code	WD5000AVDS
Performance Specifications	
Rotational Speed	IntelliPower *
Buffer Size	32 MB
Transfer Rates	
Buffer To Host (Serial ATA)	3 Gb/s (Max)
Physical Specifications	
Formatted Capacity	500, 107 MB
Capacity	500 GB
Interface	SATA 3 Gb/s
User Sectors Per Drive	976773168
Physical Dimensions	
English	
Height	1.028 Inches
Depth	5.787 Inches
Width	4.00 Inches
Weight	1.39 Pounds
Metric	
Height	25.4 mm
Depth	147 mm
Width	101.6 mm
Weight	0.63 kg
Environmental Specifications	
Shock	
Operating Shock (Read)	65G, 2 ms
Non-operating Shock	300G, 2 ms
Acoustics	
Idle Mode	24 dBA (average)
Seek Mode 3	25 dBA (average)
Temperature (English)	
Operating	32° F to 140° F
Non-operating	-40° F to 158° F
Temperature (Metric)	
Operating	-0° C to 60° C
Non-operating	-40° C to 70° C

Humidity	
Operating	5-95% RH non-condensing
Non-operating	5-95% RH non-condensing
Vibration	
Operating	
Linear	20-300 Hz, 0.75 G (0 to peak)
Random	0.004 g ² /Hz (10 to 300 Hz)
Electrical Specifications	
Current Requirements	
12 VDC	
Read/Write	227 mA
Idle	161 mA
Standby	5.4 mA
Sleep	5.4 mA
5 VDC	
Read/Write	550 mA
Idle	115 mA
Standby	78.5 mA
Sleep	78.5 mA
Power Dissipation	
Read/Write	5.40 Watts
Idle	2.50 Watts
Standby	0.46 Watts
Sleep	0.46 Watts