



WD AV-GP

Power-saving Hard Drives

WD AV-GP SATA hard drives store more hi-def audio and video than ever before – up to 3 TB. They are optimized with SilkStream™ technology to capture data from up to 12 simultaneous HD video streams. And with 24x7 operation, low temperature, and best-in-class reliability, WD AV-GP hard drives are ideal for DVR/PVR and video surveillance applications. 3-year limited warranty.



INTERFACE

SATA

WIDTH/HEIGHT

3.5-inch/1-inch

ROTATIONAL SPEED

IntelliPower™

CAPACITIES

160 GB to 3 TB

MODEL NUMBERS

WD30EURS	WD10EURX	WD10EVVS	WD5000AVCS
WD25EURS	WD10EUCX	WD7500AURS	WD3200AVVS
WD20EURS	WD10EURS	WD7500AVDS	WD2500AVVS
WD15EURS	WD10EVDS	WD5000AVDS	WD1600AVVS

Note: Not all products may be available in all regions of the world.

Product Features

Highest capacity for audio/video storage

WD AV-GP SATA drives now offer unrivaled storage capacity up to 3 TB – perfect for today's storage intensive applications.

24x7 reliability

These drives are designed to last in high temperature always-on streaming digital audio/video environments such as PVR/DVR, IPTV, and video surveillance systems.

Compatible

Tested for compatibility in a broad range of AV products including set top boxes, DVR/PVR, and mainstream video surveillance systems. For drives with greater than 2.19 TB capacity, compatibility is selective to PVRs and surveillance systems that are compatible with hard drives exceeding 2.19 TB. For more information on large capacity drive compatibility, go to <http://avlargecapacitydrives.com>.

Reduced power consumption

WD AV-GP drives consume less power by up to 40 percent compared to 7200 RPM hard drives. Lower power means less heat and greater reliability.

Quiet

Noise levels have been minimized to less than one sone* - virtually below the threshold of human hearing.

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.

IntelliPower

A fine-tuned balance of spin speed, transfer rate, and caching algorithms designed to deliver both significant power savings and solid performance.

IntelliPark™

Parks the recording heads off the disk surface during spin up, spin down, and when the drive is off. This ensures the recording head never touches the disk surface resulting in improved long term reliability due to less head wear, and improved non-operational shock tolerance.

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 (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/EURX/EUCX/AURS models only)

1 million hours MTBF

Best-in-class reliability for mainstream 3.5-inch form-factor AV storage.**

* A sone is a subjective unit of loudness as perceived by a person with normal hearing.
** Based upon dual tuner system operating in typical 30°C air ambient environment.



PUT YOUR LIFE ON IT®



WD AV-GP

Specifications ¹	3 TB	2.5 TB	2 TB	1.5 TB	1 TB	1 TB	1 TB
Model numbers	WD30EURS	WD25EURS	WD20EURS	WD15EURS	WD10EURX WD10EUCX	WD10EURS	WD10EVDS WD10EVVS
Formatted capacity	3,000,592 MB	2,500,495 MB	2,000,398 MB	1,500,301 MB	1,000,204 MB	1,000,204 MB	1,000,204 MB
User sectors per drive	5,860,533,168	4,883,781,168	3,907,029,168	2,930,277,168	1,953,525,168	1,953,525,168	1,953,525,168
Advanced Format (AF)	Yes	Yes	Yes	Yes	Yes	Yes	No
Native command queuing	Yes	Yes	Yes	Yes	Yes	Yes	Yes
SATA latching connector ²	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RoHS compliant ³	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Form factor	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch
Performance							
Data transfer rate (max)							
Buffer to host (SATA)	3 Gb/s	3 Gb/s	3 Gb/s	3 Gb/s	6 Gb/s	3 Gb/s	3 Gb/s
Host to/from drive (sustained)	145 MB/s	145 MB/s	130 MB/s	130 MB/s	110 MB/s	110 MB/s	111 MB/s
Cache (MB)	64	64	64	64	64 (WD10EURX) 16 (WD10EUCX)	64	32 (WD10EVDS) 8 (WD10EVVS)
Rotational speed (RPM)	IntelliPower	IntelliPower	IntelliPower	IntelliPower	IntelliPower	IntelliPower	IntelliPower
Average drive ready time (sec)	17	17	14.5	14.5	14.5	14.3	14.3
Reliability/Data Integrity							
Load/unload cycles ³	300,000	300,000	300,000	300,000	300,000	300,000	300,000
Non-recoverable read errors per bits read	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴
Limited warranty (years) ⁴	3	3	3	3	3	3	3
Power Management							
12VDC (A, max)	1.775	1.775	1.725	1.725	1.28	1.464	1.671
Average power requirements (W)							
Read/Write	6	6	5.3	5.3	5.3	4.9	4.9
Idle	5.5	5.5	4.8	4.8	3.3	4.2	4.2
Standby	0.75	0.75	0.9	0.9	0.7	0.4	0.4
Sleep	0.75	0.75	0.9	0.9	0.7	0.4	0.4
Environmental Specifications⁵							
Temperature (°C)							
Base casting (max)	70	70	70	70	70	70	70
Operating	0 to 60	0 to 60	0 to 60	0 to 60	0 to 60	0 to 60	0 to 60
Non-operating	-40 to 70	-40 to 70	-40 to 70	-40 to 70	-40 to 70	-40 to 70	-40 to 70
Shock (Gs)							
Operating (2 ms, read/write)	30	30	30	30	30	30	30
Operating (2 ms, read)	65	65	65	65	65	65	65
Non-operating (2 ms)	250	250	250	250	300	300	300
Average acoustics (dBA) ⁶							
Idle mode	24	24	24	24	23	23	24
Quiet seek mode	25	25	25	25	24	24	25
Physical Dimensions							
Height (in./mm, max)	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1
Length (in./mm, max)	5.787/147	5.787/147	5.787/147	5.787/147	5.787/147	5.787/147	5.787/147
Width (in./mm, ± .01 in.)	4/101.6	4/101.6	4/101.6	4/101.6	4/101.6	4/101.6	4/101.6
Weight (lb./kg, ± 10%)	1.61/0.73	1.61/0.73	1.40/0.64	1.40/0.64	1.32/0.60	1.32/0.60	1.32/0.60

¹ As used for storage capacity, one megabyte (MB) = one million bytes, one gigabyte (GB) = one billion bytes, and one terabyte (TB) = one trillion bytes. Total accessible capacity varies depending on operating environment. As used for buffer or cache, one megabyte (MB) = 1,048,576 bytes. As used for transfer rate or interface, megabyte per second (MB/s) = one million bytes per second, and gigabit per second (Gb/s) = one billion bits per second. Effective maximum SATA 3 Gb/s transfer rate calculated according to the Serial ATA specification published by the SATA-IO organization as of the date of this specification sheet. Visit www.sata-io.org for details.

² WD hard drive products manufactured and sold worldwide after June 1, 2006, meet or exceed Restriction of Hazardous Substances (RoHS) compliance requirements as mandated by the RoHS Directive 2011/65/EU.

³ Controlled unload at ambient condition.

⁴ The term of the limited warranty may vary by region. Visit <http://support.wdc.com/warranty> for details.

⁵ No non-recoverable errors during operating tests or after non-operating tests.

⁶ Sound power level.



WD AV-GP

Specifications ¹	750 GB	750 GB	500 GB	320 GB	250 GB	160 GB
Model numbers	WD7500AVDS	WD7500AURS	WD5000AVDS WD5000AVCS	WD3200AVS	WD2500AVS	WD1600AVS
Formatted capacity	750,156 MB	750,156 MB	500,107 MB	320,072 MB	251,059 MB	160,041 MB
User sectors per drive	1,465,149,168	1,465,149,168	976,773,168	625,142,448	490,350,672	312,581,808
Advanced Format (AF)	No	Yes	No	No	No	No
Native command queuing	Yes	Yes	Yes	Yes	Yes	Yes
SATA latching connector	Yes	Yes	Yes	Yes	Yes	Yes
RoHS compliant ²	Yes	Yes	Yes	Yes	Yes	Yes
Form factor	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch
Performance						
Data transfer rate (max)						
Buffer to host (SATA)	3 Gb/s	3 Gb/s	3 Gb/s	3 Gb/s	3 Gb/s	3 Gb/s
Host to/from drive (sustained)	110 MB/s	110 MB/s	110 MB/s	80 MB/s	80 MB/s	80 MB/s
Cache (MB)	32	64	32 (WD5000AVDS) 16 (WD5000AVCS)	8	8	8
Rotational speed (RPM)	IntelliPower	IntelliPower	IntelliPower	IntelliPower	IntelliPower	IntelliPower
Average drive ready time (sec)	14.3	14.3	14.3	8	8	8
Reliability/Data Integrity						
Load/unload cycles ³	300,000	300,000	300,000	300,000	300,000	300,000
Non-recoverable read errors per bits read	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴	<1 in 10 ¹⁴
Limited warranty (years) ⁴	3	3	3	3	3	3
Power Management						
12VDC (A, max)	1.671	1.464	1.392	1.350	1.350	1.350
Average power requirements (W)						
Read/Write	4.9	4.9	4.1	4.7	4.7	4.7
Idle	4.2	4.2	3.7	2.3	2.3	2.3
Standby	0.4	0.4	0.8	0.8	0.8	0.8
Sleep	0.4	0.4	0.8	0.8	0.8	0.8
Environmental Specifications⁵						
Temperature (°C)						
Base casting (max)	70	70	70	70	70	70
Operating	0 to 60	0 to 60	0 to 60	0 to 60	0 to 60	0 to 60
Non-operating	-40 to 70	-40 to 70	-40 to 70	-40 to 70	-40 to 70	-40 to 70
Shock (Gs)						
Operating (2 ms, read/write)	30	30	30	30	30	30
Operating (2 ms, read)	65	65	65	65	65	65
Non-operating (2 ms)	300	300	350	350	350	350
Average acoustics (dBA) ⁶						
Idle mode	24	23	21	22	22	22
Quiet seek mode	25	24	22	22	22	22
Physical Dimensions						
Height (in./mm, max)	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1	1.028/26.1
Length (in./mm, max)	5.787/147	5.787/147	5.787/147	5.787/147	5.787/147	5.787/147
Width (in./mm, ± .01 in.)	4/101.6	4/101.6	4/101.6	4/101.6	4/101.6	4/101.6
Weight (lb./kg, ± 10%)	1.32/0.60	1.32/0.60	0.97/0.44	0.99/0.45	0.99/0.45	0.99/0.45

¹ As used for storage capacity, one megabyte (MB) = one million bytes, one gigabyte (GB) = one billion bytes, and one terabyte (TB) = one trillion bytes. Total accessible capacity varies depending on operating environment. As used for buffer or cache, one megabyte (MB) = 1,048,576 bytes. As used for transfer rate or interface, megabyte per second (MB/s) = one million bytes per second, and gigabit per second (Gb/s) = one billion bits per second. Effective maximum SATA 3 Gb/s transfer rate calculated according to the Serial ATA specification published by the SATA-IO organization as of the date of this specification sheet. Visit www.sata-io.org for details.

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⁶ Sound power level.

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A Commitment to Quality

Western Digital customers – ranging from the world's largest computer makers to the individual user saving a music collection – require exacting quality and performance from our data storage products. Rigorous testing helps ensure that these standards are met.

WD team members are dedicated to testing drives, ensuring they adhere to rigorous quality standards covering hundreds of performance characteristics. About 1,000 PCs in WD's Functional Integrity Testing (F.I.T.) Lab™ put WD drives through the paces around the clock. Other groups up the ante, simulating extreme real-world conditions including high and low temperatures, shaking, electronic and magnetic interference and even torturous drop testing. Only after a new drive family passes these rigorous tests does it get shipped.

This comprehensive approach to testing ensures that the customer gets a drive of the highest quality that is F.I.T. Lab certified for its intended application.

A Name You Can Trust

As digital storage expands beyond traditional computer and server environments and into almost every aspect of your life, you need a company you can trust.

We are committed to providing our customers with reliable, high-performance storage products and superior customer support and services.

Experience – WD is one of the data storage industry's pioneers and longtime leaders.

Performance – WD is consistently a leader in technology and product innovation and is one of the best performing companies worldwide.

Quality – WD performs rigorous in-house testing to assure quality and reliability.

Data Integrity – All WD drives feature Data Lifeguard™ embedded error detection and repair features that automatically detect, isolate, and repair problem areas that may develop over extended use of the hard drive.

Customer Support – WD stands behind our products with telephone support and state-of-the-art online services that include a comprehensive knowledge base and express RMA service.

WD understands the importance of the data trusted to our drives. We focus our passion, knowledge and innovation on products that reliably keep your information and content safe and secure from loss.