



WD Blue™

PC 硬碟

WD Blue 硬碟提供穩定的效能和可靠性，並提供您所需的大空間，以儲存大量相片、影片和檔案。WD Blue 硬碟經過專門設計，非常適合做為筆記型電腦和外接盒的主要硬碟。



介面	外型規格	高度	介面接頭	轉速	容量
SATA 6 Gb/s	2.5 吋	7 公釐至 15 公釐	SATA 接頭	5400 RPM 等級	320GB 至 2TB

型號

WD20SPZX	WD10JPVX	WD5000LPCX
WD20NPVZ	WD7500BPVX	WD3200LPCX
WD15NPVZ	WD5000BPVX	
WD10SPZX	WD5000LPVX	

產品特點

SATA 6 Gb/s 介面

SATA 6 Gb/s 介面提供更高的靈活彈性，不但能與最新的晶片組搭配運用，還能向下相容符合 SATA 3 Gb/s 標準的舊型系統。

NoTouch™ 磁碟表面停放技術

磁頭不會觸碰到磁碟媒體，可大幅降低在傳輸時對磁頭和媒體的磨損，並提供更佳的硬碟保護。

原廠技術

WD Blue 硬碟的設計與製造採用 WD 原廠得獎硬碟中實證可行的技術。

WD品質

這些硬碟符合 WD 品牌一貫的高品質和高可靠性標準，提供多種功能與容量選擇，適合您的日常運算需求。

低耗電量

最新的搜尋演算法和進階電源管理功能，可協助確保低耗電量。

輕鬆升級您的硬碟

Acronis® True Image™ WD Edition 軟體可從 WD 支援網站免費下載，能夠讓您將所有資料複製到新硬碟上，使您不需要重新安裝作業系統即可享受新硬碟的所有優點。

相容性

我們新一代的 7 公釐 2.5 吋行動硬碟適用於輕薄短小的行動應用，而且也與大部分標準的 9.5 公釐抽取槽相容（僅限 SPZX、LPCX 和 LPVX 型號）。

寧靜無聲的運作

對筆記型電腦硬碟而言，無聲就是金。WD 獨家的消噪技術提供市面最安靜無聲的 2.5 吋硬碟。

應用

WD Blue 硬碟已通過測試，最適用於筆記型電腦和外接盒。*

* WD 硬碟專為特定應用和環境而量身打造，並已通過測試。如此可協助確保您的硬碟適合您的應用並正常運作。我們的硬碟保固保證在其專用的系統中，不會有材料和製造瑕疵。將硬碟用於其他非專用的系統可能會導致相容性問題，可能會影響正常功能，此與材料及/或製造瑕疵無關。為獲得最佳效果，請參閱我們的產品規格表（可從我們的網站 www.wd.com 取得）針對您的應用選擇適合的產品，或致電我們的客服支援，我們將樂於協助您完成選擇程序。

WD 的優勢

WD 在推出任何產品之前，都會先對產品進行廣泛的功能整合測試 (F.I.T.)。此項測試可確保我們的產品符合 WD 品牌一貫的最高品質和可靠性標準。WD 也提供詳盡的知識庫，彙集超過 1,000 篇實用的文章、軟體及公用程式。我們延長了客戶支援專線的服務時間，以確保您在需要時可獲得所需的協助。我們的免付費客戶支援專線為您提供協助，或是您可以存取我們的 WD 支援網站，以取得詳細資訊。



規格	2TB	2TB	1.5TB	1TB	1TB
型號 ¹	WD20SPZX	WD20NPVZ	WD15NPVZ	WD10SPZX	WD10JPVX
介面 ²	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s
格式化容量 ²	2,000,802MB	2,000,802MB	1,500,301MB	1,000,204MB	1,000,204MB
先進格式化 (AF)	是	是	是	是	是
外型規格	2.5 吋	2.5 吋	2.5 吋	2.5 吋	2.5 吋
符合 RoHS 的規範 ³	是	是	是	是	是
效能					
資料傳輸速率 介面速度	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s
快取記憶體 (MB)	128	8	8	128	8
轉速 (RPM)	5400	5200	5200	5400	5400
平均磁碟機就緒時間 (秒)	3.5	6.5	6.5	2.8	3.0
可靠性/資料完整性					
載入/載出循環次數 ⁴	600,000	600,000	600,000	600,000	600,000
每位元讀取發生無法復原的讀取錯誤 有限保固年限 ⁵	<1/10 ¹⁴ 2	<1/10 ¹⁴ 2	<1/10 ¹⁴ 2	<1/10 ¹⁴ 2	<1/10 ¹⁴ 2
電源管理					
5VDC ±10% (A, 峰值)	1.00	1.00	1.00	1.00	1.00
平均電源需求 (W) 讀取/寫入 閒置 待機/睡眠	1.7 0.5 0.1	1.7 0.8 0.2	1.7 0.8 0.2	1.5 0.5 0.1	1.4 0.59 0.18
環境規格⁶					
溫度 (°C) 作業 非作業	0 至 60 -40 至 65	0 至 60 -40 至 65	0 至 60 -40 至 65	0 至 60 -40 至 65	0 至 60 -40 至 65
噪音 (dBA) ⁷ 閒置 搜尋 (平均)	23 24	24 25	24 25	19 21	24 25
實機尺寸					
高度 (吋/公釐)	0.28/7.0	0.59/15	0.59/15	0.28/7.0	0.374/9.50
長度 (吋/公釐)	3.94/100.20	3.94/100.20	3.94/100.20	3.94/100.20	3.94/100.20
寬度 (吋/公釐)	2.75/69.85	2.75/69.85	2.75/69.85	2.75/69.85	2.75/69.85
重量 (磅/公斤, ±10%)	0.20/0.09	0.40/0.18	0.40/0.18	0.20/0.09	0.27/0.12

¹ 部分產品僅於特定地區銷售。

² 用於儲存容量時，一個 megabyte (MB) = 一百萬位元，一個 gigabyte (GB) = 十億位元，一個 terabyte (TB) = 一兆位元。可存取的總容量視作業環境而定。用於緩衝或快取，一個 megabyte (MB) = 1,048,576 位元組。用於傳輸速率或介面時，每秒 megabyte (MB/s) = 每秒一百萬位元組，每秒 gigabit (Gb/s) = 每秒十億位元。SATA 6 Gb/s 的最高有效傳輸速率是根據 SATA-I/O 組織於本規格表所載日期當時出版的 Serial ATA 規格計算而得。請造訪 www.sata-io.org 以取得詳細資訊。

³ 自 2011 年 6 月 8 日起，WD 於全球各地製造及銷售的硬碟產品均符合或超出 RoHS 指令 2011/65/EU 規定的《有害物質限制條例》(Restriction of Hazardous Substances, 簡稱 RoHS) 之規範要求。

⁴ 室內條件下的控制載出。

⁵ 如需區域特定保固詳細資料，請參閱 <http://support.wd.com/warranty>。

⁶ 作業測試過程中或非作業測試完成後，沒有發生無法復原的錯誤。

⁷ 聲功率位準。



規格	750GB	750GB	500GB	500GB	320GB
型號 ¹	WD7500LPCX	WD7500BPVX	WD5000BPVX	WD5000LPVX WD5000LPCX	WD3200LPVX WD3200LPCX
介面 ²	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s	SATA 6 Gb/s
格式化容量 ³	750,156MB	750,156MB	500,107MB	500,107MB	320,072MB
先進格式化 (AF)	是	是	是	是	是
外型規格	2.5 吋	2.5 吋	2.5 吋	2.5 吋	2.5 吋
符合 RoHS 的規範 ⁴	是	是	是	是	是
效能					
資料傳輸速率 介面速度	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s
快取記憶體 (MB)	16	8	8	8 (LPVX) 16 (LPCX)	8 (LPVX) 16 (LPCX)
轉速 (RPM)	5400	5400	5400	5400	5400
平均磁碟機就緒時間 (秒)	2.8	3.0	3.0	2.8	2.8
可靠性/資料完整性					
載入/載出循環次數 ⁵	600,000	600,000	600,000	600,000	600,000
每位元讀取發生無法復原的讀取錯誤	<1/10 ¹⁴	<1/10 ¹⁴	<1/10 ¹⁴	<1/10 ¹⁴	<1/10 ¹⁴
有限保固年限 ⁶	2	2	2	2	2
電源管理					
5VDC ±10% (A, 峰值)	1.00	1.00	1.00	1.00	1.00
平均電源需求 (W)					
讀取/寫入	1.7	1.6	1.4	1.4	1.4
閒置	0.57	0.65	0.59	0.55	0.55
待機/睡眠	0.18	0.20	0.18	0.13 (LPVX) 0.16 (LPCX)	0.13 (LPVX) 0.16 (LPCX)
環境規格					
溫度 (°C)					
作業	0 至 60	0 至 60	0 至 60	0 至 60	0 至 60
非作業	-40 至 65	-40 至 65	-40 至 65	-40 至 65	-40 至 65
噪音 (dBA) ⁷					
閒置	20	24	24	17	17
搜尋 (平均)	21	25	25	22	22
實機尺寸					
高度 (吋/公釐)	0.28/7.0	0.374/9.50	0.374/9.50	0.28/7.0	0.28/7.0
長度 (吋/公釐)	3.94/100.20	3.94/100.20	3.94/100.20	3.94/100.20	3.94/100.20
寬度 (吋/公釐)	2.75/69.85	2.75/69.85	2.75/69.85	2.75/69.85	2.75/69.85
重量 (磅/公斤, ± 10%)	0.21/0.09	0.34/0.15	0.25/0.12	0.20/0.09	0.20/0.09

¹ 部分產品僅於特定地區銷售。

² 用於儲存容量時，一個 megabyte (MB) = 一百萬位元，一個 gigabyte (GB) = 十億位元，一個 terabyte (TB) = 一兆位元。可存取的總容量視作業環境而定。用於緩衝或快取，一個 megabyte (MB) = 1,048,576 位元組。用於傳輸速率或介面時，每秒 megabyte (MB/s) = 每秒一百萬位元組，每秒 gigabit (Gb/s) = 每秒十億位元。SATA 6 Gb/s 的最高有效傳輸速率是根據 SATA-IO 組織於本規格表所載日期當時出版的 Serial ATA 規格計算而得。請造訪 www.sata-io.org 以取得詳細資訊。

³ 自 2011 年 6 月 8 日起，WD 於全球各地製造及銷售的硬碟產品均符合或超出 RoHS 指令 2011/65/EU 規定的《有害物質限制條例》(Restriction of Hazardous Substances, 簡稱 RoHS) 之規範要求。

⁴ 室內條件下的控制載出。

⁵ 如需區域特定保固詳細資料，請參閱 <http://support.wd.com/warranty>。

⁶ 作業測試過程中或非作業測試完成後，沒有發生無法復原的錯誤。

⁷ 聲功率位準。

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如需服務與文件資料：

<http://support.wdc.com>
www.wdc.com

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(800.275.4932)
800.832.4778 西班牙
+800.6008.6008 亞太地區
00800.27549338 歐洲
(特定地區提供免費電話)
+31.880062100 歐洲/中東/非洲



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WD AV-25

AV Hard Drives

**Engineered to thrive
in 24x7 streaming
environments**

24x7 reliability

Low power, compact storage

Supports up to five HD streams

WD AV-25 2.5-inch SATA hard drives are specially engineered to offer cool quiet operation while providing maximum reliability in 24x7 always-on environments. With support for up to five simultaneous HD video streams, these drives are perfect for DVRs, set-top boxes and digital video surveillance.





WD AV-25

AV Hard Drives



Product Features

24x7 reliability

These drives are designed to last in always-on streaming digital audio/video environments such as DVR/PVR, digital video surveillance and other demanding multimedia 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.

SilkStream™ technology

Optimized for smooth, continuous digital video playback of up to five simultaneous HD streams. SilkStream is compatible with the ATA streaming command set so AV customers can use standard streaming management and error recovery options.

Ultra-cool operation

A cool drive is a more reliable drive. WD continues to develop new and innovative ways to keep drives cool while they are operating.

Quiet

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

Low power consumption

The drive draws less than 2 watts while operating and a mere 4.75 watts during spin up.

1 million hours MTBF

Best-in-class reliability for small form-factor AV storage.**

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.

* 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.

Product Specifications

INTERFACE

SATA 3 Gb/s

FORM FACTOR

2.5-inch

SPIN SPEED

5400 RPM

CACHE

8 MB
16 MB

MODELS

WD1600BUCT
WD2500BUCT
WD3200BUCT
WD5000BUCT
WD5000LUCT
WD10JUCT

CAPACITIES

160 GB
250 GB
320 GB
500 GB
1 TB

LIMITED WARRANTY

3 years

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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 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.

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absolutely™

WD AV™ Digital Video Drives

WD AV 2.5-inch (formerly WD AV-25) hard drives are optimized with SilkStream™ technology to capture data from up to 12 simultaneous HD video streams. With 24x7 operation, low temperature, and best-in-class reliability, WD AV 2.5-inch hard drives are ideal for DVR/PVR, IPTV and digital video surveillance applications requiring smaller form factor hard drives. 3-year limited warranty.



INTERFACE	FORM FACTOR	HEIGHT	ROTATIONAL SPEED	CAPACITIES
SATA 3 Gb/s	2.5-inch	7.0 mm to 9.5 mm	5400 RPM	160 GB to 1 TB

MODEL NUMBERS

WD10JUCT	WD3200BUCT
WD5000LUCT	WD2500BUCT
WD5000BUCT	WD1600BUCT

Product Features

24x7 reliability

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

Advanced Format technology

Leading edge technology delivers improved video quality and AV performance through enhanced error correction capability.

SilkStream

Optimized for smooth, continuous digital video playback of up to 12 simultaneous HD streams. SilkStream is compatible with the ATA streaming command set so CE customers can use standard streaming management and error recovery options.

Ultra-cool operation

A cool drive is a more reliable drive. WD continues to develop new and innovative ways to keep drives cool while they are operating.

Low power consumption

The drive draws less than 2 Watts while operating and a mere 4.75 Watts during spin up.

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.

Quiet

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

* A sone is a subjective unit of loudness as perceived by a person with normal hearing.

Applications

Set-top boxes (PVR, DVR and IPTV), and digital video surveillance.

The WD Advantage

WD puts our products through extensive Functional Integrity Testing (F.I.T.) prior to any product launch. This testing ensures our products consistently meet the highest quality and reliability standards of the WD brand. WD also has a detailed Knowledge Base with more than 1,000 helpful articles as well as helpful software and utilities. Our customer support lines have longer operational hours to ensure you get the help you need when you need it. Our toll-free customer support lines are here to help or you can access our WD Support site for additional details.



Specifications	1 TB	500 GB	500 GB	320 GB	250 GB	160 GB
Model number	WD10JUCT	WD5000LUCT	WD5000BUCT	WD3200BUCT	WD2500BUCT	WD1600BUCT
Formatted capacity ¹	1,000,204 MB	500,107 MB	500,107 MB	320,072 MB	251,059 MB	160,041 MB
User sectors per drive	1,953,525,168	976,773,168	976,773,168	625,142,448	490,350,672	312,581,808
Form factor	2.5-inch	2.5-inch	2.5-inch	2.5-inch	2.5-inch	2.5-inch
Advanced Format (AF)	Yes	Yes	Yes	Yes	Yes	Yes
RoHS compliant ²	Yes	Yes	Yes	Yes	Yes	Yes
Performance						
Data transfer rate (max) Buffer to host Host to/from drive (sustained)	3 Gb/s 144 MB/s	3 Gb/s 147 MB/s	3 Gb/s 136 MB/s	3 Gb/s 116 MB/s	3 Gb/s 116 MB/s	3 Gb/s 116 MB/s
Cache (MB)	16	16	16	16	16	16
Rotational speed (RPM)	5400	5400	5400	5400	5400	5400
Reliability/Data Integrity						
Load/unload cycles ³	600,000	600,000	600,000	600,000	600,000	600,000
Non-recoverable read errors per bits read	<10 in 10 ¹⁴	<10 in 10 ¹⁴	<10 in 10 ¹⁴	<10 in 10 ¹⁴	<10 in 10 ¹⁴	<10 in 10 ¹⁴
Limited warranty (years) ⁴	3	3	3	3	3	3
Power Management						
Average power requirements (W) Read/Write Idle Standby and Sleep	1.4 0.6 0.2	1.4 0.8 0.1	1.7 0.7 0.2	1.7 0.6 0.2	1.7 0.6 0.2	1.7 0.6 0.2
Environmental Specifications						
Temperature (°C) Operating Non-operating	0 to 60 -40 to 65	0 to 60 -40 to 70	0 to 60 -40 to 65	0 to 60 -40 to 65	0 to 60 -40 to 65	0 to 60 -40 to 65
Shock (Gs) Operating (2 ms, read) Non-operating (2 ms)	400 1000	400 1000	350 1000	350 1000	350 1000	350 1000
Acoustics (dBA) ⁶ Idle Seek (average)	24 25	17 22	24 25	22 25	22 25	22 25
Physical Dimensions						
Height (in./mm, max)	0.374/9.50	0.28/7.0	0.374/9.50	0.374/9.50	0.374/9.50	0.374/9.50
Length (in./mm, max)	3.94/100.20	3.94/100.20	3.94/100.20	3.94/100.20	3.94/100.20	3.94/100.20
Width (in./mm, ± .01 in.)	2.75/69.85	2.75/69.85	2.75/69.85	2.75/69.85	2.75/69.85	2.75/69.85
Weight (lb./kg, ± 10%)	0.25/0.12	0.20/0.92	0.22/0.10	0.22/0.10	0.22/0.10	0.22/0.10

¹ Not all products may be available in all regions of the world.

² 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 6 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.

³ 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.

⁴ Controlled unload at ambient condition.

⁵ The term of the limited warranty may vary by region. Visit <http://support.wd.com/warranty> for details.

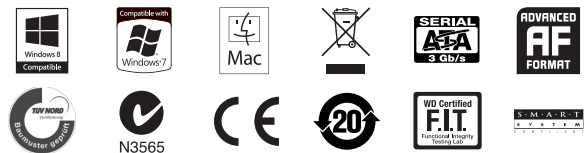
⁶ No non-recoverable errors during operating tests or after non-operating tests.

⁷ Sound power level.

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For service and literature:

<http://support.wd.com>
www.wd.com
800.ASK.4WDC North America
(800.275.4932)
800.832.4778 Spanish
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00800.27549338 Europe
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