



注目ポイント

- 最大26TB¹の容量
- エンタープライズクラスの信頼性とパフォーマンス
- 5年間の限定保証⁵
- 年間550TB³のワークロード評価
- 最大250万時間の平均故障間隔 (MTBF)⁴
- 革新的な AllFrame™ AI テクノロジーにより、フレーム落ちを軽減
- Western Digital Device Analytics™ (WDDA) によるプロアクティブなヘルスマネジメント機能*

に最適

- 高度なAI対応レコーダー
- 映像ストレージサーバー
- 映像管理システム (VMS)

WD Purple® Pro Smart Video Hard Drive

スマートビデオ録画とAI映像解析のためのプロフェッショナルグレードのストレージ

WD Purple® Proは、最も要求の厳しいビデオ録画および分析環境において、究極の信頼性とパフォーマンスを提供します

より高度なスマートビデオソリューションに対応する大容量ドライブ

WD Purple® Proは、大規模な導入や長期的なビデオ保存ニーズに対応するために、最大26TB¹の大容量を提供します。

エンタープライズクラスの信頼性

WD Purple® Proは、最高水準の信頼性を備えた真のエンタープライズクラスのドライブです。最大250万時間のMTBF⁴を誇り、5年間の限定保証⁵が付帯しており、ハイエンドなビデオレコーダーや分析サーバー向けに設計されています

同時ビデオ録画とリアルタイムAI解析に対応する高性能

最新のカメラやAI対応録画システムは、複数の高精細なビデオストリーム、画像ファイル、メタデータをストレージに送信します。WD Purple Proドライブは、ビデオストレージと解析向けに、最高レベルのパフォーマンスを提供します

日本語では「高度なスマートビデオ処理向けに構築」と訳せます。

WD Purple Pro は、年間最大 550TB の高負荷ワークロードに対応します。高度なビデオ管理システムで行われる大量のビデオデータの記録や AI による分析にも対応可能です。

革新的な AllFrame™ AI テクノロジー

AllFrame™ AI テクノロジーは、ビデオ、画像、メタデータのストリームをディスクにインテリジェントに誘導し、映像のフレーム落ちを低減します

WDDA™ によるプロアクティブなドライブヘルスインサイト

Western Digital Device Analytics™ (WDDA) は、ドライブの健康状態を監視し、動作の改善に向けた対策を推奨します。使用には対応するビデオレコーダーまたはシステムが必要です

WD Purple® Pro Smart Video Hard Drive

Specifications

Model number	WD260PURP	WD241PURP	WD221PURP	WD181PURP
Formatted capacity ¹	26TB	24TB	22TB	18TB
Form factor	3.5-inch	3.5-inch	3.5-inch	3.5-inch
Advanced Format (AF)	Yes	Yes	Yes	Yes
Interface	SATA	SATA	SATA	SATA
Recording Technology	CMR	CMR	CMR	CMR
Drive Technology	Helium	Helium	Helium	Helium
RV Sensors	Yes	Yes	Yes	Yes
RoHS compliant ²	Yes	Yes	Yes	Yes
Product Features				
Maximum drive bays supported	No Limit	No Limit	No Limit	No Limit
Camera Support ³	Up to 64 HD	Up to 64 HD	Up to 64 HD	Up to 64 HD
AI Streams	32	32	32	32
Firmware Feature Name	AllFrame AI	AllFrame AI	AllFrame AI	AllFrame AI
Tarnish resistant components	Yes	Yes	Yes	Yes
Performance				
Interface transfer rate (max) Buffer to host	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s
Internal transfer rate (max) ⁴	287 MB/s	287 MB/s	265 MB/s	272 MB/s
Cache (MB) ¹	512 MB	512 MB	512 MB	512 MB
RPM	7200	7200	7200	7200
Reliability/Data Integrity				
Load/unload cycles ⁵	600,000	600,000	600,000	600,000
Annualized Workload Rate ⁶ (TB/year)	Up to 550 TB/year	Up to 550 TB/year	Up to 550 TB/year	Up to 550 TB/year
Non-recoverable read errors per bits read	<1 in 10 ¹⁵	<1 in 10 ¹⁵	<1 in 10 ¹⁵	<1 in 10 ¹⁵
MTBF7 (hours)	2,500,000	2,500,000	2,500,000	2,500,000
Limited warranty (years) ⁸	5 years	5 years	5 years	5 years
Power Management				
Average Power (W) ⁹				
Read/Write	6.2 W	6.2 W	6.9 W	6.3 W
Idle	5.7 W	5.7 W	5.6 W	5.9 W
Standby/Sleep	1.1 W	1.1 W	1.2 W	0.9 W
Environmental Specifications				
Temperature				
Operating	5°C to 65°C	5°C to 65°C	0°C to 65°C	0°C to 65°C
Non-operating	-40°C to 70°C	-40°C to 70°C	-40°C to 70°C	-40°C to 70°C
Shock				
Operating (2 ms, read/write)	40Gs	40Gs	40Gs	50Gs
Operating (2 ms, read)	40Gs	40Gs	40Gs	50Gs
Non-operating (2 ms)	200Gs	200Gs	200Gs	250Gs
Acoustics (dBA)				
Idle dBA	25	25	20	20
Seek (average) dBA	32	32	32	36
Physical Dimensions				
Height (max) (in / mm)	1.028 / 26.1	1.028 / 26.1	1.028 / 26.1	1.028 / 26.1
Length (max) (in / mm)	5.787 / 147	5.787 / 147	5.787 / 147	5.787 / 147
Width (± .01 in.) (in / mm)	4 / 101.6	4 / 101.6	4 / 101.6	4 / 101.6
Weight (± 3%) (lb / kg)	1.47 / 0.67	1.47 / 0.67	1.48 / 0.67	1.52 / 0.69

WD Purple® Pro Smart Video Hard Drive

Specifications

Model number	WD142PURP	WD122PURP	WD102PURP	WD8002PURP
Formatted capacity ¹	14TB	12TB	10TB	8TB
Form factor	3.5-inch	3.5-inch	3.5-inch	3.5-inch
Advanced Format (AF)	Yes	Yes	Yes	Yes
Interface	SATA	SATA	SATA	SATA
Recording Technology	CMR	CMR	CMR	CMR
Drive Technology	Helium	Air	Air	Air
RV Sensors	Yes	Yes	Yes	Yes
RoHS compliant ²	Yes	Yes	Yes	Yes
Product Features				
Maximum drive bays supported	No Limit	No Limit	No Limit	No Limit
Camera Support ³	Up to 64 HD	Up to 64 HD	Up to 64 HD	Up to 64 HD
AI Streams	32	32	32	32
Firmware Feature Name	AllFrame AI	AllFrame AI	AllFrame AI	AllFrame AI
Tarnish resistant components	Yes	Yes	Yes	Yes
Performance				
Interface transfer rate (max) Buffer to host	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s
Internal transfer rate (max) ⁴	265 MB/s	267 MB/s	267 MB/s	267 MB/s
Cache (MB) ¹	512 MB	512 MB	512 MB	256 MB
RPM	7200	7200	7200	7200
Reliability/Data Integrity				
Load/unload cycles ⁵	600,000	600,000	600,000	600,000
Annualized Workload Rate ⁶ (TB/year)	Up to 550 TB/year	Up to 550 TB/year	Up to 550 TB/year	Up to 550 TB/year
Non-recoverable read errors per bits read	<1 in 10 ¹⁵	<1 in 10 ¹⁵	<1 in 10 ¹⁵	<1 in 10 ¹⁵
MTBF ⁷ (hours)	2,500,000	2,000,000	2,000,000	2,000,000
Limited warranty (years) ⁸	5 years	5 years	5 years	5 years
Power Management				
Average Power (W) ⁹				
Read/Write	6.6 W	9.1 W	9.1 W	7.3W
Idle	5.7 W	8.2 W	8.2 W	6.5 W
Standby/Sleep	0.9 W	0.3 W	0.3 W	0.3 W
Environmental Specifications				
Temperature				
Operating	5°C to 65°C	5°C to 65°C	0°C to 65°C	0°C to 65°C
Non-operating	-40°C to 70°C	-40°C to 70°C	-40°C to 70°C	-40°C to 70°C
Shock				
Operating (2 ms, read/write)	50Gs	70Gs	70Gs	70Gs
Operating (2 ms, read)	50Gs	70Gs	70Gs	70Gs
Non-operating (2 ms)	250Gs	250Gs	250Gs	300Gs
Acoustics (dBA)				
Idle dBA	20	34	34	29
Seek (average) dBA	36	39	39	36
Physical Dimensions				
Height (max) (in / mm)	1.028 / 26.1	1.028 / 26.1	1.028 / 26.1	1.028 / 26.1
Length (max) (in / mm)	5.787 / 147	5.787 / 147	5.787 / 147	5.787 / 147
Width (± .01 in.) (in / mm)	4 / 101.6	4 / 101.6	4 / 101.6	4 / 101.6
Weight (± 3%) (lb / kg)	1.52 / 0.69	1.65 / 0.75	1.65 / 0.75	1.58 / 0.715

¹ 1MB = one million bytes, 1GB = one billion bytes, and 1TB = one trillion bytes. Actual user capacity may be less, depending on operating environment.

² This drive is in compliance with the European Union Directive 2011/65/EU and Directive (EU) 2015/863 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

³ Single stream per camera @ 3.2Mbps (1080p, H.265, 25 fps). Results may vary depending on camera resolution, file format, frames per second, software, system settings, video quality, and other factors.

⁴ Based on read speed, unless otherwise stated. 1MB/s = 1 million bytes per second. Based on internal testing; performance may vary depending upon host device, usage conditions, drive capacity, and other factors.

⁵ Controlled unload at ambient condition.

⁶ Workload Rate is defined as the amount of user data transferred to or from the hard drive. Workload Rate is annualized (TB transferred X (8760 / recorded power-on hours)). Workload Rate will vary depending on your hardware and software components and configurations.

⁷ Projected values. When final, MTBF specifications will be based on a sample population and are estimated by statistical measurements and acceleration algorithms under typical operating conditions, workload of 220TB/year, and drive temperature of 40°C. Derating of MTBF will occur above these parameters, up to 550TB writes per year, and 65°C drive temperature. MTBF ratings do not predict an individual drive's reliability and do not constitute a warranty.

⁸ See <http://support.wdc.com/warranty> for regional specific warranty details.

⁹ Power measurements at room-ambient temperature.



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