



# WD Purple™

## Surveillance Hard Drives

WD Purple drives are built for 24/7, always-on, high-definition security systems. With a supported workload rate<sup>1</sup> of up to 180 TB/yr and support for up to 64 cameras, WD Purple drives are optimized for surveillance systems. WD Purple surveillance storage also comes with WD's exclusive AllFrame 4K™ technology, so you can confidently create a security system tailored to the needs of your business.



### INTERFACE

SATA 6 Gb/s

### FORM FACTOR

3.5-inch

### PERFORMANCE CLASS

5400 RPM Class

### CAPACITIES

500GB to 10TB

### MODEL NUMBERS

WD100PURZ	WD30PURZ
WD80PURZ	WD20PURZ
WD60PURZ	WD10PURZ
WD40PURZ	WD05PURZ

## Product Features

### Industry-leading storage. Surveillance you can trust.

WD is a worldwide leader in the hard drive industry. With WD Purple surveillance storage, you have a drive engineered for high temperature, always-on surveillance systems so you can rely on quality video playback when you need it most. Whether you're protecting loved ones or monitoring your business, WD Purple offers performance you can trust.

### WD's exclusive AllFrame 4K technology

All WD Purple drives are equipped with AllFrame 4K technology, which improves ATA streaming to help reduce frame loss, improve overall video playback, and increase the number of hard drive bays supported within a NVR. Future-proof your surveillance solution knowing that WD Purple is ready for ultra high definition cameras.

### Enhanced workload rating

With a workload rating<sup>1</sup> of 180 TB/yr – three times that of desktop drives – WD Purple is designed to handle the unique demands of modern video surveillance DVR and NVR systems.

### Expand your view to 64

Each WD Purple drive is optimized to support up to 64 cameras. With so many options, you have the flexibility to upgrade or expand your security system in the future.

### Designed for today's and tomorrow's surveillance solutions

Engineered for 24/7 operation in all sizes of mainstream surveillance DVRs and NVRs. With support for more than eight bays<sup>2</sup> and tarnish resistant components<sup>2</sup>, WD Purple drives deliver reliable operation in larger scale surveillance systems in harsher environments.

### Field-proven high capacity

Now on its 4th generation and with more than 15 million drives shipped<sup>3</sup>, field-proven HelioSeal™ Technology delivers trusted high-capacity WD Purple storage (8TB and 10TB) for the massive storage needs of 4K surveillance video.

### Wide compatibility. Seamless integration.

WD Purple hard drives are built with compatibility in mind, so you can quickly and seamlessly add capacity to your surveillance system. With a wide range of industry-leading enclosures and chipsets supported, you're sure to find the DVR or NVR configuration that's right for you.

### Less power. More efficient.

With our exclusive IntelliSeek™ technology, WD Purple drives are able to calculate optimum seek speeds. This keeps power consumption low so ambient noise and vibrations are at a minimum.

### Three year limited warranty

As an industry-leading hard drive manufacturer, WD stands behind their surveillance storage solutions with a 3-year limited warranty included with every WD Purple drive.

## The WD Advantage

At WD, we put our products through extensive Functional Integrity Testing (F.I.T.™) prior to any product launch. This testing ensures our products consistently meet the high 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 long 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.



# WD Purple™

Specifications	10TB	8TB	6TB	4TB	3TB	2TB	1TB	500GB
Model number <sup>4</sup>	WD100PURZ	WD80PURZ	WD60PURZ	WD40PURZ	WD30PURZ	WD20PURZ	WD10PURZ	WD05PURZ
Formatted capacity <sup>5</sup>	10TB	8TB	6TB	4TB	3TB	2TB	1TB	500GB
Form factor	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch
Advanced Format (AF)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
RoHS compliant <sup>6</sup>	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Product Features</b>								
Cameras supported	Up to 64	Up to 64	Up to 64	Up to 64	Up to 64	Up to 64	Up to 64	Up to 64
Maximum drive bays supported	8+	8+	8+	8+	8	8	8	8
Tarnish resistant components	Yes	Yes	Yes	Yes	No	No	No	No
<b>Performance</b>								
Interface transfer rate (max) <sup>5</sup> Buffer to host Host to/from drive (sustained)	6 Gb/s 210 MB/s	6 Gb/s 178 MB/s	6 Gb/s 175 MB/s	6 Gb/s 150 MB/s	6 Gb/s 145 MB/s	6 Gb/s 145 MB/s	6 Gb/s 110 MB/s	6 Gb/s 110 MB/s
Cache (MB) <sup>5</sup>	256	128	64	64	64	64	64	64
Performance Class	5400 RPM Class	5400 RPM Class	5400 RPM Class	5400 RPM Class	5400 RPM Class	5400 RPM Class	5400 RPM Class	5400 RPM Class
<b>Reliability/Data Integrity</b>								
Load/unload cycles <sup>7</sup>	300,000	300,000	300,000	300,000	300,000	300,000	300,000	300,000
Annualized workload rating <sup>1</sup>	180TB/yr	180TB/yr	180TB/yr	180TB/yr	180TB/yr	180TB/yr	180TB/yr	180TB/yr
Non-recoverable read errors per bits read	<1 in 10 <sup>14</sup>	<1 in 10 <sup>14</sup>	<1 in 10 <sup>14</sup>	<1 in 10 <sup>14</sup>	<1 in 10 <sup>14</sup>	<1 in 10 <sup>14</sup>	<1 in 10 <sup>14</sup>	<1 in 10 <sup>14</sup>
Limited warranty (years) <sup>8</sup>	3	3	3	3	3	3	3	3
<b>Power Management</b>								
Average power requirements (W) Read/Write Idle Standby and Sleep	6.2 5.0 0.5	6.4 5.7 0.7	5.3 4.9 0.4	5.1 4.5 0.4	4.4 4.1 0.4	4.4 4.1 0.4	3.3 2.9 0.4	3.3 2.9 0.4
<b>Environmental Specifications<sup>9</sup></b>								
Temperature (°C, on the base casting) Operating Non-operating	0 to 65 -40 to 70	0 to 65 -40 to 70	0 to 65 -40 to 70	0 to 65 -40 to 70	0 to 65 -40 to 70	0 to 65 -40 to 70	0 to 65 -40 to 70	0 to 65 -40 to 70
Shock (Gs) Operating (2 ms, read/write) Operating (2 ms, read) Non-operating (2 ms)	30 65 250	30 65 250	30 65 250	30 65 250	30 65 250	30 65 250	30 65 350	30 65 350
Acoustics (dBA) <sup>10</sup> Idle Seek (average)	20 29	20 29	25 26	25 26	23 24	23 24	21 22	21 22
<b>Physical Dimensions</b>								
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	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	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	4/101.6
Weight (lb/kg, ± 10%)	1.43/0.65	1.43/0.65	1.65/0.75	1.50/0.68	1.40/0.64	1.40/0.64	0.99/0.45	0.99/0.45

<sup>1</sup>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.

<sup>2</sup>For capacities 4TB and higher.

<sup>3</sup>As of Apr 2017.

<sup>4</sup>Not all products may be available in all regions of the world.

<sup>5</sup>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](http://www.sata-io.org) for details.

<sup>6</sup>WD hard drive products manufactured and sold worldwide after June 8, 2011, meet or exceed Restriction of Hazardous Substances (RoHS) compliance requirements as mandated by the RoHS Directive 2011/65/EU.

<sup>7</sup>Controlled unload at ambient condition.

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

<sup>9</sup>No non-recoverable errors during operating tests or after non-operating tests.

<sup>10</sup>Sound power level.

Western Digital  
3355 Michelson Drive, Suite 100  
Irvine, California 92612  
U.S.A.

**For service and literature:**

<http://support.wd.com>  
[www.wd.com](http://www.wd.com)

800.ASK.4WDC (800.275.4932)  
+86.21.2603.7560  
00800.27549338  
+31.880062100

North America/Latin America  
Asia Pacific  
Europe (toll free where available)  
Europe/Middle East/Africa



CAN ICES-3 (B) / NMB-3 (B)

WD, the WD logo, AllFrame 4K, IntelliSeek, F.I.T. Lab, HelioSeal and WD Purple are registered trademarks or trademarks of Western Digital Corporation or its affiliates in the US and/or other countries. All other marks are the property of their respective owners. Product specifications subject to change without notice. Picture shown may vary from actual product. Not all products are available in all regions of the world.

© 2017 Western Digital Corporation or its affiliates. All rights reserved.

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Advantech:](#)

[96HD2TB-ST-WD5KA1](#)



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

**Телефон:** 8 (812) 309 58 32 (многоканальный)

**Факс:** 8 (812) 320-02-42

**Электронная почта:** [org@eplast1.ru](mailto:org@eplast1.ru)

**Адрес:** 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.