



# WD Purple™ NV

## Surveillance Storage

WD offers the Power of Choice when it comes to equipping a surveillance system for home or business with the addition of the WD Purple™ NV hard drive. Designed specifically for NVR digital surveillance systems, the WD Purple NV hard drive adds support for systems with higher drive bay configurations and up to 64 HD cameras. The increased number of video streams and workload capability offered with the WD Purple NV hard drive allows scalability beyond the limitations of DVR systems where only the WD Purple drive is applicable.



**INTERFACE**  
SATA 6 Gb/s

**FORM FACTOR**  
3.5-inch

**ROTATIONAL SPEED**  
IntelliPower™

**CAPACITIES**  
4 TB and 6 TB

**MODEL NUMBERS**  
WD6NPURX  
WD4NPURX

## Product Features

### NVR vs. DVR

WD offers the Power of Choice when it comes to equipping a surveillance system for your home or business with the addition of WD Purple™ NV. Designed specifically for scalable network video recorder (NVR) surveillance systems, WD Purple NV adds support for systems with higher drive bay configurations and up to 64 high-definition cameras. The expanded workload capability of WD Purple NV hard drives enables the ability to handle increased video streams, allows scalability beyond the limitations of DVR systems where only WD Purple is applicable.

### Increased Capabilities

Designed for higher temperatures and always-on surveillance environments, WD Purple NV hard drives expand support for higher hard drive bay configurations, systems utilizing up to 64 high-definition cameras, hardware vibration sensors

and greater workloads per year when compared to WD Purple hard drives. Included with the increased support, WD Purple NV is also backwards compatible with DVR systems.

### Optimized performance with AllFrame™

Inherited from WD Purple, WD's exclusive AllFrame technology boosts write performance for WD Purple NV hard drives by working with ATA streaming commands to reduce frame loss and improve streaming playback. AllFrame also reduces video interruptions that commonly occur when desktop hard drives are incorrectly used as storage in security systems, especially in higher video stream count environments where additional data is being captured at an exponential rate. WD Purple NV with AllFrame provides the confidence you should expect when it's time to play back and review critical surveillance footage in larger surveillance configurations.

### Premium Protection

Designed with tarnish resistant components, WD Purple NV hard drives offer premium protection in harsh environments where surveillance systems are commonly installed including outdoor cabinets where moisture and other natural elements may be present. This increased protection adds reliability to the hard drive over time, especially compared to desktop drives.

### Support for High Camera count Systems

WD Purple NV hard drives are optimized to support systems utilizing high-definition surveillance cameras, giving you the flexibility to upgrade and expand your security system in the future. Higher storage capacities also allow you to store the surveillance footage for a longer period of time, especially in situations when every second counts. The specific number of cameras that can be supported will be dependent on a number of criteria including but

not limited to; types and capability of cameras installed (resolution, frames per second, additional features) and the system's hardware and software capability.

### Lower power consumption

Low power consumption is crucial in high-temperature always-on surveillance environments. With exclusive IntelliSeek™ technology, WD Purple NV hard drives calculate the optimum seek speeds which lowers power consumption, noise and vibration that can damage and cause drives to wear out more quickly, increasing reliability.

### 3-year limited warranty

WD Purple NV hard drives are backed by an impressive 3-year limited warranty (worldwide) giving you peace of mind that your precious surveillance footage is secure no matter where you are in the world.

## 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.



# WD Purple™ NV

Specifications	6 TB	4 TB
Model number <sup>1</sup>	WD6NPURX	WD4NPURX
Formatted capacity <sup>2</sup>	6 TB	4 TB
Form factor	3.5-inch	3.5-inch
Advanced Format (AF)	Yes	Yes
RoHS compliant <sup>3</sup>	Yes	Yes
<b>Performance</b>		
Data transfer rate (max) Buffer to host Host to/from drive (sustained)	6 Gb/s 171 MB/s	6 Gb/s 150 MB/s
Cache (MB)	64	64
Rotational speed (RPM)	IntelliPower	IntelliPower
<b>Reliability/Data Integrity</b>		
Load/unload cycles <sup>4</sup>	300,000	300,000
Non-recoverable read errors per bits read	<1 in 10 <sup>14</sup>	<1 in 10 <sup>14</sup>
Limited warranty (years) <sup>5</sup>	3	3
<b>Power Management</b>		
Average power requirements (W) Read/Write Idle Standby and Sleep	5.90 4.90 0.40	4.80 4.33 0.52
<b>Environmental Specifications<sup>6</sup></b>		
Temperature (°C, on the base casting) Operating Non-operating	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
Acoustics (dBA) <sup>7</sup> Idle Seek (average)	25 26	25 26
<b>Physical Dimensions</b>		
Height (in./mm, max)	1.028/26.1	1.028/26.1
Length (in./mm, max)	5.787/147	5.787/147
Width (in./mm, ± .01 in.)	4/101.6	4/101.6
Weight (lb./kg, ± 10%)	1.58/0.72	1.50/0.68

<sup>1</sup> Not all products may be available in all regions of the world.

<sup>2</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>3</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>4</sup> Controlled unload at ambient condition.

<sup>5</sup> See <http://support.wd.com/warranty> for regional specific warranty details.

<sup>6</sup> No non-recoverable errors during operating tests or after non-operating tests.

<sup>7</sup> Sound power level.

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2879-800050-A04 April 2015