

WD Purple Pro WD241PURP (WD241PURP)

WD Purple Pro WD241PURP - Hard drive - 24 TB - surveillance, smart video - internal - 3.5" - SATA 6Gb/s - 7200 rpm - buffer: 512 MB



The WD 24 TB internal hard drive is designed for surveillance and smart video applications, offering performance and reliability for 24/7 operations. With a capacity of 24 TB, it supports up to 64 cameras and utilizes Advanced Format technology for optimal storage efficiency. The drive operates at a spindle speed of 7200 rpm and features a data transfer rate of 600 MBps, ensuring swift access to stored data. Its OptiNAND technology leverages NAND flash to enhance performance and reliability, suitable for continuous recording and playback scenarios. This hard drive withstands a range of environmental conditions, with a maximum operating temperature of 65°C and storage temperatures reaching up to 70°C. Additionally, it has a sound emission of just 25 dBA, making it a quiet choice for video surveillance setups. The drive's durability is backed by an MTBF of 2,500,000 hours and a load/unload cycle rating of 600,000, ensuring longevity under intensive workloads.

Key Selling Points

- 24 TB capacity for extensive surveillance storage
- Supports up to 64 cameras for optimal monitoring
- Designed for 24/7 operation with durability
- Advanced Format technology for effective data management
- Quiet operation with just 25 dBA sound emission

Product Features

- Reliable performance**
The hard drive operates with a spindle speed of 7200 rpm and an internal data rate of 287 MBps, ensuring efficient access to stored data, ideal for video surveillance.
- Efficient data handling**
With Advanced Format technology and a data transfer rate of 600 MBps, this drive maximizes storage efficiency and performance for video data.
- Durable design**
Built to last, the drive has an MTBF of 2,500,000 hours and is designed to endure harsh operating conditions with a maximum operating temperature of 65°C.
- Exceptional environmental tolerance**
The WD hard drive can withstand storage temperatures from -40°C to 70°C, making it suitable for diverse applications and installations.
- Whisper-quiet operation**
Operating at just 25 dBA sound emission, this hard drive ensures noise-free monitoring, ideal for residential and commercial surveillance systems.

Main specifications

Product Description	WD Purple Pro WD241PURP - hard drive - 24 TB - surveillance, smart video - SATA 6Gb/s
Type	Hard drive - internal
Capacity	24 TB
Form Factor	3.5"
Interface	SATA 6Gb/s
Data Transfer Rate	600 MBps
Buffer Size	512 MB
Spindle Speed	7200 rpm
Features	Advanced Format technology, Conventional magnetic recording (CMR), tarnish-resistant, support up to 64 cameras, AllFrame AI, OptiNAND technology, 24x7 availability
Dimensions (WxDxH)	101.6 mm x 147 mm x 26.1 mm
Weight	690 g
Manufacturer Warranty	5-year warranty

Extended specification

General

Device Type	Hard drive - internal
Capacity	24 TB
Form Factor	3.5"

Interface	SATA 6Gb/s
Buffer Size	512 MB
Features	Advanced Format technology, Conventional magnetic recording (CMR), tarnish-resistant, support up to 64 cameras, AllFrame AI, OptiNAND technology, 24x7 availability
Width	101.6 mm
Depth	147 mm
Height	26.1 mm
Weight	690 g

Manufacturer Warranty

Service & Support	Limited warranty - 5 years
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Miscellaneous

Compliant Standards	BSMI, ICES-003, NMB-003, FCC, KC, Maghreb, RCM, UKCA, VCCI, CB Scheme, TUV, UL, ROHS Directive 2015/863/EU, ROHS Directive 2011/65/EU
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Power

Power Consumption	6.2 watt (read/write) 5.7 watt (idle) 1.1 watt (standby) 1.1 watt (sleep)
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Environmental Parameters

Min Operating Temperature	0 °C
Max Operating Temperature	65 °C
Min Storage Temperature	-40 °C
Max Storage Temperature	70 °C
Shock Tolerance (operating)	40 g @ 2 ms
Shock Tolerance (non-operating)	200 g @ 2 ms
Sound Emission	25 dBA

Performance

Drive Transfer Rate	600 MBps (external)
Internal Data Rate	287 MBps
Spindle Speed	7200 rpm

Reliability

MTBF	2,500,000 hours
24x7 Operation	Yes
Non-Recoverable Errors	1 per 10 ¹⁵
Load / Unload Cycles	600,000

Software & System Requirements

Software Included	Western Digital Device Analytics
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Expansion & Connectivity

Interfaces	1 x SATA 6 Gb/s
Compatible Bay	3.5"

What's in the box

WD Purple Pro WD241PURP - hard drive
Software

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