

# Western Digital Purple Pro

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**Artikel**  
**Herstellernummer**  
**EAN**  
Western Digital

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## Advanced Storage for Smart Video Solutions

WD Purple™ Pro drives are designed for advanced AI-enabled recorders, video analytics servers and deep learning solutions requiring additional capacity, performance and workload capability.

### Storage for advanced smart video solutions

WD Purple™ Pro drives are designed for new generations of high-end AI-enabled recorders, video analytics appliances, deep-learning servers and cloud solutions that can benefit from high-capacity storage with high performance and additional workload capability. WD Purple Pro drives feature AllFrame™ AI technology, which helps reduce frame loss, improve overall video playback, and not only enables recording of multiple streams per camera but also supports up to 32 AI streams per drive for deep learning analytics within the system. WD Purple Pro drives also feature enterprise-class performance, data integrity and drive reliability, especially in larger-scale systems and enclosures where operational vibration is present.

### Empower your smart video solution.

Western Digital is a worldwide leader in the hard drive industry. With WD Purple™ Pro smart video storage, you have a drive engineered for high performance, durability and workload capability for advanced always-on AI-enabled smart video recorders, appliances, and servers. Efficiently and effectively extract value and insights from streamed and stored video, and help deliver a smarter world with advanced WD Purple Pro smart video storage.

### Western Digital's exclusive AllFrame™ AI technology

All WD Purple™ Pro drives are equipped with AllFrame AI technology, which not only improves ATA streaming to help reduce frame loss and improve overall video playback, but supports up to 32 AI streams for Deep Learning analytics within the system.

### Multiple cameras, multiple streams

Modern recorders now support multiple video streams per camera. WD Purple™ Pro drives are optimized to support up to 64 HD single-stream cameras<sup>4</sup>, and can also support many of the latest smart cameras that transmit multiple streams. With this flexibility, you can upgrade or scale your security or smart video solution in the future.

### Advanced workload capability for advanced systems

WD Purple™ Pro drives feature a workload rating up to 550TB/year<sup>2</sup> to support the heavy video data capture and analysis found in advanced AI-enabled recorders, video analytics appliances, deep learning analytics servers and cloud-based storage. The combination of streaming optimizations and enhanced durability and reliability make WD Purple Pro smart video storage ideal for all analytics servers, whether processing video streamed directly from cameras or large-scale captured video data sets.

### Designed for reliable operation in advanced high-performance smart video solutions

With an MTBF of up to 2.5 million hours<sup>3</sup> (12TB, 14TB, and 18TB<sup>1</sup>), WD Purple™ Pro drives are engineered for advanced smart video solutions that operate 24/7. With tarnish-resistant components and full multi-bay support, WD Purple Pro drives deliver reliable operation in large scale surveillance systems even in harsh environments.

#### Field-proven high capacity

Now on its 6th generation, field-proven HelioSeal™ technology delivers trusted high-capacity WD Purple™ Pro hard drives (12TB, 14TB and 18TB1) for the massive storage needs of AI-driven smart video and deep learning analytics.

#### Proactive storage management with WDDA

Western Digital® Device Analytics™ (WDDA) provides a wealth of storage device parametric operational and diagnostic data to compatible systems; algorithms interpret the data and direct the system to alert system administrators of specific recommended actions to address potential issues. WDDA is intended to empower OEMs, system integrators, and IT professionals to better monitor and proactively manage supported storage devices to maintain optimal operation.

## Zusammenfassung

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Western Digital Purple Pro, 3.5", 10 TB, 7200 RPM

Merkmale

Logistics data

Harmonized System (HS) code	84717050
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Packaging data

Quantity	1
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Operational conditions

Operating temperature (T-T)	0 - 65 °C
Storage temperature (T-T)	-40 - 70 °C
Operating shock	70 G
Non-operating shock	250 G

Power

Power consumption (standby)	0.5 W
Power consumption (read)	9 W
Power consumption (write)	9 W
Power consumption (idle)	8 W

Weight & dimensions

Width	101.6 mm
Height	26.1 mm
Depth	147 mm
Weight	750 g

Features

HDD size	3.5"
HDD capacity	10 TB
HDD speed	7200 RPM
Interface	Serial ATA III
Type	HDD
Component for	Server/workstation
Storage drive buffer size	512 MB
HDD interface transfer rate	6 Gbit/s
Shock sensor	Yes
Start/stop cycles	600000
Workload rate limit	550 TB/year
Noise level (idle)	34 dB
Mean time between failures (MTBF)	2500000 h
Certification	RoHS