



WD WD121PURZ

Standalone WD Purple surveillance hard drive, not a NAS appliance · Specification summary

Capacity	12 TB
Interface and form factor	SATA 6 Gb/s; 3.5-inch drive
Advanced Format	Advanced Format is listed. Confirm recorder formatting and supported sector handling.
Camera workload reference	Up to 64 cameras per drive in this edition; not an NVR input-channel specification or a guarantee for every stream configuration.
Drive-bay reference	16+ in the manufacturer table. This is a design reference, not unlimited bays or confirmed recorder compatibility.
Firmware feature	AllFrame AI is listed; analytics processing and camera recognition are not thereby implemented in the drive.
Tarnish-resistant components	Tarnish-resistant components are listed; no weatherproof enclosure rating follows.
Drive transfer reference	245 MB/s maximum sustained host-to/from-drive reference; not the SATA signalling speed.
Cache	256 MB; this 2019 edition defines cache MB as 1,048,576 bytes.
Performance class	7200 RPM performance class. Do not apply another WD Purple capacity column.
Annual workload rating	360 TB/year; total user data transferred to or from the drive, not retained-video capacity.
MTBF reference	1,500,000 hours as a statistical population estimate, not an individual drive lifetime or warranty.
Load/unload cycles	300,000 controlled unloads at ambient conditions.
Read/write power	6.6 W average read/write reference.
Idle power	5.6 W average idle reference.
Standby/sleep power	0.6 W standby/sleep reference.
Operating base-casting temperature	0 to 65 °C measured on the drive base casting; not ambient temperature.
Non-operating base-casting temperature	-40 to 70 °C measured on the drive base casting.
Drive dimensions	Height up to 26.1 mm; length up to 147 mm; width 101.6 mm with the source tolerance ± 0.01 inch. Confirm mounting clearance.
Drive mass	0.66 kg $\pm 10\%$; packaging is separate.
Acoustic reference	20 dBA idle and 29 dBA average seek, as sound-power levels; not sound pressure at an assumed distance.

Specifications are summarised from the manufacturer's published information (checked 2026-10-20). They describe the cited version only. Confirm the exact model, suffix and supplied revision before ordering. ISD confirms supply, price, availability and warranty separately.

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