

70188-HD07

Hard Disk for Video Surveillance. 4 TB capacity.

Specification

Formatted capacity[1]	6 TB	4 TB	3 TB	2 TB	1 TB
Form factor[2]	3.5-inch	3.5-inch	3.5-inch	3.5-inch	3.5-inch
Advanced Format (AF)	Yes	Yes	Yes	Yes	Yes
RoHS compliant[3]	Yes	Yes	Yes	Yes	Yes
Recording Technology	CMR	CMR	CMR	CMR	
Interface	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	SATA 6Gb/s	
Product Features					
Interface transfer rate (max)[4]					
Buffer to host	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s	6 Gb/s
Host to/from drive (sustained)[5]	180 MB/s	180 MB/s	180 MB/s	180 MB/s	180 MB/s
Cache	256	256	256	64	64
Reliability/Data Integrity					
Load/unload cycles[6]	300,000	300,000	300,000	300,000	300,000
Annualized workload rating[7]	180 TB/yr	180 TB/yr	180 TB/yr	180 TB/yr	180 TB/yr
Non-recoverable read errors per bits read	<1 in 10^14	<1 in 10^14	<1 in 10^14	<1 in 10^14	<1 in 10^14
MTBF[8]	1,000,000	1,000,000	1,000,000	1,000,000	1,000,000
Limited warranty (years)[9]	3	3	3	3	3
Power Management[10]					
Average power requirements (W)					
Read/Write	4.7	4.7	4.6	3.8	3.8
Idle	4.3	4.3	3.7	3.2	3.2
Standby and Sleep	0.3	0.3	0.3	0.3	0.3
Environmental Specifications					
Operating Temperature	0 °C ÷ 65 °C	0 °C ÷ 65 °C	0 °C ÷ 65 °C	0 °C ÷ 65 °C	0 °C ÷ 65 °C
Non-Operating Temperature	-40 °C ÷ 70 °C	-40 °C ÷ 70 °C	-40 °C ÷ 70 °C	-40 °C ÷ 70 °C	-40 °C ÷ 70 °C
Shock (Gs)					
Operating (2 ms, read/write)	30	30	30	30	30
Operating (2 ms, read)	65	65	65	65	65
Non-operating (2 ms)	250	250	250	250	250
Acoustics (dBA)					
Idle	23	23	23	21	21
Seek (average)	27	27	27	26	26
Physical Dimensions					
Dimensions (H x L x W) (in.; mm; ± .01 in.)	1.028 x 5.787 x 4 26.1x 147 x 101.6	1.028 x 5.787 x 4 26.1x 147 x 101.6	1.028 x 5.787 x 4 26.1x 147 x 101.6	1.028 x 5.787 x 4 26.1x 147 x 101.6	1.028 x 5.787 x 4 26.1x 147 x 101.6
Weight (lb.; kg, ± 3%)	1.26; 0.57	1.26; 0.57	1.26; 0.57	1.26; 0.57	1.26; 0.57

[1]1MB = 1 million bytes, 1 GB = 1 billion bytes, and 1T B = 1 trillion bytes. Actual user capacity may be less depending on operating environment. [2]This drive is in compliance with the European Union Directive 2011/65/EU and Directive (EU) 2015/863 on the restriction of the use of certain hazardous substances in electrical and electronic equipment. [3]Single stream at 3.2 Mbps (1080p, H.265, 25 fps). Results may vary depending on camera resolution, file format, frames per second, software, system settings, video quality, and other factors. [4]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 for details. [5]1 MB/s = 1 million bytes per second. Based on internal testing; performance may vary depending upon host device, usage conditions, drive capacity, and other factors. [6]Controlled unload at ambient condition. [7]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. [8]MTBF specifications are based on a sample population and are estimated by statistical measurements and acceleration algorithms under typical operating conditions: workload of 90 TB/year and drive temperature of 40 °C. Derating of MTBF will occur above these parameters, up to 65 °C drive temperature. MTBF does not predict an individual drive's reliability and does not constitute a warranty. [9]See http://support.wdc.com/warranty for regional specific warranty details. [10]Power measurements at room-ambient temperature.