

# DHI-SSD-C970 PLUS

Dahua M.2 2280 PCIe Gen4x4 Dramless SSD



- Adopt high-quality original 3D NAND Flash chip.
- PCIe Gen4.0x4 is supported, and the data transmission speed is as high as 7200mb/s.
- Support NVMe1.4 protocol.
- Support 4K LDPC.
- Support reliable and fast end-to-end data.

## System Overview

Dahua Storage C970 PLUS series is the flagship product of a new generation of NVMe SSD launched by Dahua. C970 PLUS series products adopt high-performance PCIe Gen4.0 controller and original high-quality 3D NAND Flash chip, with data transmission speed as high as 7200mb/s. The advanced hybrid intelligent temperature control algorithm ensures that the controller and flash memory chip remain stable and efficient for a long time under high load reading and writing conditions.

## Scene

Dahua C970 PLUS series NVMe M.2 consumer-grade SSD is suitable for high-load working environment such as video production/editing, and is designed for high-end users, gamers and professionals who are proficient in technology.

## Technical Specification

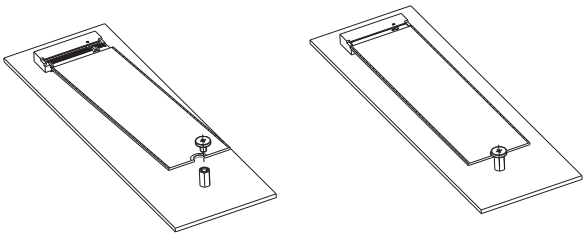
### Technical

Product Model	DHI-SSD-C970VN512G	DHI-SSD-C970VN1TB	DHI-SSD-C970VN2TB
Capacity <sup>1</sup>	512 GB	1 TB	2 TB
Form Factor	M.2 2280		
Port	PCIe Gen 4.0 × 4		
Net Weight	Max. 8 g (0.02 lb)		
Product Dimensions	80.00 mm × 22.00 mm × 2.25 mm (3.15" × 0.87" × 0.09")		
Packaging Dimensions	130 mm × 104 mm × 17 mm (5.12" × 4.09" × 0.67")		
Memory Component	3D NAND FLASH		
Power Consumption <sup>2</sup>	3550 mW (max) 630 mW (idle)	3500 mW (max) 680 mW (idle)	4250 mW (max) 700 mW (idle)
S.M.A.R.T	Yes		
TRIM	Yes		

Garbage Collection	Yes		
Sequential Read <sup>2</sup>	Up to 7000 MB/s	Up to 6290 MB/s	Up to 7200 MB/s
Sequential Write <sup>2</sup>	Up to 4300 MB/s	Up to 5680 MB/s	Up to 6400 MB/s
4K Random Read <sup>2</sup>	Up to 915200	Up to 984500	Up to 1025500
4K Random Write <sup>2</sup>	Up to 762800	Up to 748800	Up to 765900
MTBF	1,500,000 hours		
Operating Temperature	0 °C to +70 °C (+32 °F to +158 °F)		
Storage Temperature	-40 °C to +85 °C (-40 °F to +185 °F)		
Operating Humidity	5%~95% (non-condensing)		
Vibration Resistance	10-200Hz, 0.5 G		
Shock Resistance	1500G&0.5 ms (half sine wave)		
TBW	300 TB	600 TB	1200 TB
Warranty <sup>3</sup>	3-year limited warranty		
Reference Information	1. Capacity calculation: 1GB = 1 billion bytes (IDEMA). Actual available capacity might be reduced (due to formatting, partition, operating system applications, or other necessary usage). 2. System configuration of performance test: Chip-Intel Z270 Chipset, Intel Core i7-7700K@4.2GHz, 8GB DDR4; operating system-Windows 10 x64; testing tool-CrystalDiskMark 8.11.2. 3. Warranty period or maximum write amount (TBW), whichever comes first. 4. High performance SLC cache has been enabled. *Above data based on internal testing of Zhejiang Huayixin Technology Co., Ltd Laboratory.		

Ordering Information		
Type	Model	Description
C970 PLUS SERIES	DHI-SSD-C970VN512G	Dahua M.2 2280 PCIe Gen4x4 Dramless SSD
	DHI-SSD-C970VN1TB	Dahua M.2 2280 PCIe Gen4x4 Dramless SSD
	DHI-SSD-C970VN2TB	Dahua M.2 2280 PCIe Gen4x4 Dramless SSD

Installation



Dimensions (mm[inch])

