

**24x12x8x /24x12x6x/12x + 48x32x48x****Features****SATA Super AllWrite****DH-24ADSH/ iHAS524/ iHAS124**

- ★ SATA interface, Half-Height internal DVD+R / DVD+RW / DVD-R / DVD-RW / DVD+R9/ DVD-R9/ DVD-RAM/ DVD-ROM / CD-R/ CD-RW / CD-ROM combination drive
- ★ Support Double Layer DVD+/- R9 Recording Function
- ★ SMART-BURN function Automatically adjusting writing strategy & walking OPC to provide the best burning quality
- ★ SMART-X(\*) function adjusts CD-DA / VCD / DVD data extraction to a fastest allowable speed according to both data request rate from host and disk quality
- ★ ABS system reduce vibration and noise during recording and reading
- ★ Support Fixed Packet, Variable Packet, TAO, SAO, DAO, Random Access Write, Incremental, sequential recording, restricted overwrite, Layer Jump recording, Raw Mode Burning & Over-Burn
- ★ DVD read compliant: DVD single/dual layer (PTP/OTP), DVD-R, DVD-R multi-borders, DVD-RAM DVD+R, DVD+R multi-sessions, DVD-RW, and DVD+RW
- ★ CD read compliant: CD-DA, CD-ROM, CD-ROM/XA, Photo-CD, Multi-session, Karaoke-CD, Video-CD, CD-I FMV, CD Extra, CD Plus, CD-R, and CD-RW
- ★ Support both 8cm and 12cm disc of CD and DVD family
- ★ Conform to Orange Book: Part 2 CD-R Volume 1, Part 2 CD-R Volume 2 Multi Speed, Part 3 CD-RW Volume 1 (1x, 2x, and 4x), Part 3 CD-RW Volume2: High Speed, Part 3 CD-RW Volume 3: Ultra Speed.
- ★ Supported transfer mode: PIO mode 4, DMA mode 2 and Ultra DMA mode 5

**Specifications**◎ **DVD Family :****Write**

DVD+R	24X maximum by CAV
DVD-R	24X maximum by CAV
DVD+R9	12 maximum by CAV
DVD-R9	12 maximum by CAV
DVD-RAM	12X maximum by PCAV

**ReWrite**

DVD+RW	8X by Z-CLV
DVD-RW	6X by Z-CLV

**Read** 16X maximum by CAV**Rand. Access Time** 160ms◎ **CD Family :****Write**

CD-R	48X by CAV
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**ReWrite**

CD-RW	24X maximum by Z-CLV in UltraSpeed disc
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**Read** 32X maximum by CAV**Rand. Access Time** 140ms◎ **Buffer Size :** 1.5 MB(MAX)◎ **PC Required :** Pentium 4 1.3GHz or higher CPU and 128MB or higher RAM are required  
HDD must have access time < 20 ms; with a minimum of 650MB free space  
9GB free space for creating a DVD image file (9GB for double layer; 5GB for single layer)◎ **Compatibility :** Windows 7 / XP / 2003 / Vista and Linux◎ **MTBF(Life) :** 70000 POH at 25% duty cycle in room temp.◎ **S/N Ration :** >75dB◎ **Environment :**

Operating	5°C to 50°C; Relative Humidity: 15% to 80%
Non-Operating	-40°C to 65°C; Relative Humidity: 15% to 95%

◎ **Dimension :** 146(W) x 41.3(H) x 170(D) ( +/- 0.5 mm)◎ **Weight :** <0.9 Kg\* **SMART-X : Smart Monitoring & Adjusting Read-speed Technology for eXtraction.**