

Features**Super AllWrite****iHAS124**

- ★ SATA 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(*1) avoiding Buffer Under Run error, Automatically adjusting writing strategy & walking OPC to provide the best burning quality
- ★ SMART-X(*2) 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(3.9GB/4.7GB), 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+/-R9	12X 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	32X maximum by Z-CLV in UltraSpeed disc
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Read 48X maximum by CAV**Rand. Access Time** 140ms◎ **Buffer Size** : 2MB(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** : MS 2000/ XP/ Vista/ 7◎ **MTBF(Life)** : 70000 POH◎ **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) mm◎ **Weight** : <0.9 Kg◎ **Voltage Requirements** :

+5V +/-5% and less than 100 mVp-p ripple voltage
+12V +/-10% and less than 200 mVp-p ripple voltage

*1 **SMART-BURN** : Smart Monitoring & Adapting Recording Technology for **BURNing**.*2 **SMART-X** : Smart Monitoring & Adjusting Read-speed Technology for **eXtraction**.