

## Features

- ATAPI / E-IDE Half-Height internal DVD+R / DVD+RW / DVD-R / DVD-RW / DVD-ROM / CD-R / CD-RW / CD-ROM combination drive.
- SMART-BURN avoiding Buffer Underrun Error, Automatically adjusting writing strategy & running 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.
- VAS system reduce vibration and noise during recording and reading.
- Support Fixed Packet, Variable Packet, TAO, SAO, DAO, Raw Mode Burning & Over-Burn.
- DVD read compliant : DVD single / dual layer ( PTP / OTP ), DVD-R ( 3.9 GB / 4.7 GB ), DVD-R multi-borders, 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 8 cm and 12 cm 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 Volume 2 : High Speed, Part 3 CD-RW Volume 3 : Ultra Speed.
- Supported transfer mode : PIO mode 4, DMA mode 2 and Ultra DMA mode 2.

## Specification

DVD Family	<b>Write</b>	
	DVD+R	8X (10800KB/sec) maximum by Z-CLV
	DVD-R	4X (5400KB/sec) maximum by CLV
	<b>ReWrite</b>	
	DVD+RW	4X (5400KB/sec) by CLV
CD Family	DVD-RW	2X (2700KB/sec) by CLV
	<b>Read</b>	12X (16200KB/sec) maximum by CAV
	<b>Access time</b>	160ms
	<b>Write</b>	
	CD-R	40X (6000KB/sec) maximum by P-CAV
Buffer Size	<b>ReWrite</b>	
	CD-RW	24X (3600KB/sec) maximum by P-CAV in UltraSpeed disc
	<b>Read</b>	40X (6000KB/sec) by CAV
PC Required	<b>Access time</b>	140ms
	2MB	
Compatibility	Pentium III 450MHz or faster CPU and 128MB or higher RAM are required.	
	650MB HDD available capacity; and 5GB free space for creating a DVD image file.	
MTBF (Life)	Microsoft Windows 95 / 98 / NT4.0 / ME / 2000 / XP	
S/N Ration	70000Hours	
General	> 75dB	
	<b>Environment</b>	
	Operating	5°C to 45°C; Relative Humidity: 15% to 80%
	Non-Operating	-40°C to 60°C; Relative Humidity: 15% to 95%
	<b>Dimension</b>	145(W) x 41.3(H) x 170(D) mm
	<b>Weight</b>	< 0.9Kg
	<b>Voltage Requirements</b>	
	+5V +/-5% and less than 100 mVp-p ripple voltage	
	+12V +/-5% and less than 200 mVp-p ripple voltage	