
Overview

The capacity of the DVD (digital versatile disc) media is the highest of the optical storage products. With 4.7-GB per-disc (equivalent to 7 CD-ROMs or over 3,000 diskettes) software uploads, future commercial multimedia titles (for example, Training) and large databases will increasingly employ this technology. The 16X/40X DVD-ROM Drive with +R Read Support also features the added capability of reading single layer or dual layer media. Hewlett-Packard goes to great lengths to provide its customers with the highest performing, most integrated, thoroughly tested computing solutions. This quality combination not only simplifies the purchase and service process by providing one-step shopping, but also increases customer satisfaction and lowers the overall cost of ownership.

Models

16X/40X DVD-ROM +/- Drive with WinDVD Software
AA620A

Performance

The 16X/40X DVD-ROM +/- Drive with +R Read Support is the latest DVD technology to market, again showing HP's leadership in standard optical solutions for customer sets. Recent advantages in laser pickup and signal error correction technology have made it possible for this DVD-ROM drive to transfer data from DVDs at speeds of up to 21,600 KB/s or 16 times the standard transfer rate. The drive also reads CD-ROM data at speeds of up to 40X (2,600 to 6,000 KB/s). Additionally, this 16X/40X DVD-ROM drive features the added capability of reading single layer or dual layer DVD-ROM media. The 16X/40X DVD-ROM Drive with +R Read Support is the latest generation of DVD-ROM drives to take full advantage of DVD-enhanced features while preserving compatibility with conventional CD-ROM, CD-DA discs, and CD-R/RW media.

Key Benefits

Customers can use this 16X/40X DVD-ROM +/- Drive to read several different types of media: CD-ROM, CD-R, CD-RW, DVD+RW, DVD+R, DVD-R, and DVD-RW. For DVD-ROM video, MPEG video playback capability is possible with selected graphics cards (refer to platform for support) on Microsoft® Windows® 2000 and Microsoft Windows XP. This total solution provides steady MPEG2 and AC3 decoding without additional hardware.

NOTE: MPEG video playback is not supported on Microsoft Windows NT®.

InterVideo WinDVD

Get the most out of your DVDs with InterVideo WinDVD 3, a PC Magazine Editor's Choice Award winner. WinDVD combines the picture and sound features of a PC to bring your DVDs to life. Features include time stretching to let you watch movies faster with natural audio, thumbnail bookmarks to instantly find your favorite scenes, fully-adjustable zoom and pan, and more. With comprehensive audio support, including Dolby Digital decoding for 2 to 5.1 channels, S/PDIF digital outputs for home theater integration, WinDVD lets you enjoy an unmatched theater experience anytime, anywhere.

COMPATIBILITY

The 16X/40X DVD-ROM +/- Drive is compatible with the HP Workstations xw4000, xw4100, xw5000, xw6000 and xw8000

SERVICE AND SUPPORT

The 16X/40X DVD-ROM +/- Drive carry either a one-year warranty or is covered by the remainder of the warranty period for the system unit in which it is installed – whichever is longer. HP offers a 7 x 24 technical support forum on the Internet.



SPECIFICATIONS

Height	5.25-in, half-height	
Interface Type	ATAPI	
Dimensions- External, Excluding Bezel (W x H)	5.88 x 1.71 in (149.5 x 43.25 mm)	
Disc Diameter	12 cm, 8 cm	
Disc Thickness	1.2 mm	
Track Pitch	1.6 μ m (CD), 0.74 μ m (DVD)	
Disc Center Hole Diameter	15 mm	
Disc Formats	DVD-ROM (single and dual layer); DVD-video; DVD-R version 1.0 and 2.0; DVD-RW version 1.0 and 1.1; DVD-R multi-border; DVD+RW; DVD+R; CD-ROM Mode 1 and 2; CD-DA; CD-ROM XA Mode 2, Form 1 and 2; CD-extra; CD-text; CD-I Mode 2, Form 1 and 2; CD-I ready; video CD, CD-bridge; PhotoCD (single and multi-session); CD-R; CD-RW	
Disc Capacity	DVD-ROM	4.7 GB (DVD-5), 8.54 GB (DVD-9), 9.4 GB (DVD-10), 3.95 GB (DVD-R version 1.0), 4.7 GB (DVD-R version 2.0), 4.7 GB (DVD-RW version 1.0 and 1.1), 4.7 GB (DVD+RW), 4.7G (DVD+R)
	CD-ROM	540 MB (Mode 1, 12 cm), 640 MB (Mode 2, 12 cm), 700 MB (80 minimum CD-R and CD-RW), 180 MB (8 cm)
Block Size (bytes)	DVD-ROM – 2048; CD-ROM Mode 0 – 2352; CD-ROM Mode 1 – 2352, 2340, 2336, 2048; CD-ROM Mode 2 – 2352, 2340, 2336, 2048	
Access Times (typical reads, including settling)	DVD-ROM Single Layer	<120 ms (typical)
	CD-ROM Mode 1	<90 ms (typical)
	Full Stroke DVD	<240 ms (seek) (typical)
	Full Stroke CD	<160 ms (seek) (typical)
Data Transfer Rates	CD ROM read	2600 – 6000 KB/s (40X CAV CD-ROM mode)
	DVD ROM read	8100 – 21,600 KB/s (16X CAV DVD-ROM mode)
Data Transfer Modes	PIO Mode 4 (16.6 MB/s); Multi-word DMA mode 2 (16.6 MB/s); UltraDMA Mode 3 (44.4 MB/s)	
Power	Source	Four-pin, DC power receptacle
	DC Power Requirement	5 VDC \pm 5% – 100 mV ripple p-p 12 VDC \pm 5% – 200 mV ripple p-p
	DC Current	5 VDC – <800 mA typical, < 1000 mA maximum 12 VDC – < 870 mA typical
Audio Output Level	0.7 Vrms (typical)	
Configuration Jumper Block	Master, slave, and cable select modes	
Data Interface Connector	40-pin, shrouded and keyed, flat ribbon	
Environmental (all conditions non-condensing)	Temperature (operating)	41° to 122° F (5° to 50° C)
	Relative Humidity (operating)	10% to 85%
	Maximum Wet Bulb Temperature (operating)	86° F (30° C)
Certifications, Approvals	MMC II support, multi-read certification, Microsoft WHQL certification, ACA AS/NZS 3548 class B, CNS 13438, C.I.S.P.R. Pub 22, TUV or VDE EN60950, EN 55022, EN55024, SEMKO, NEMKO, DEMKO, FIMKO, EN 60825-1, UL 60950, and CSA C22.2 60950-2000.	
Operating Systems Supported	Microsoft Windows NT, Microsoft Windows 2000, and Microsoft Windows XP.	
Kit Contents	16X/40X DVD-ROM Drive, InterVideo WinDVD MPEG Movie Playback software, CD-R media, high-speed CD-RW media, audio cable, and installation guide.	

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