hp dvd-writer dvd100i

data sheet

hp's first internal dvd-writer incorporating dvd+rw technology

The HP dvd-writer dvd100i drive is the first product that offers a complete DVD+RW solution for workstations. With the dvd100i, you can write and rewrite DVD+RW discs, read DVD-ROM and DVD video discs, and download and store data files and digital images. It can also create and play custom CDs in a single drive.

The HP dvd-writer dvd100i allows you to:

- share and store video
- turn video clips into custom videos for business and home applications
- backup and transport large files on DVD
- create reliable, custom DVDs and CDs that can be shared with more than one billion CD, CD-ROM, DVD-ROM and DVD video players around the world
- share multimedia presentations, archive records or photos or record music CDs

hp dvd-writer dvd100i available January, 2002

hp dvd-writer dvd100i	feature	benefit	advantage
innovative, easy-to-use	allows creation of professional looking DVDs with features such as interactive menus, music and voice overs	produce original DVD movies, then view using most DVD players and DVD-ROM drives	simple to share your original DVDs with others; convenient viewing options – jump to DVD video scenes without fast forwarding or rewinding
high storage capacity	4.7GB capacity (7x the capacity of a CD)	record up to 3 hours of video or save photos, music or data to a single rewritable DVD+RW disc; create original music CDs or store up to 700MB of data on a CD	can cope with storing high density graphics and digital images
	high-speed transfer rate	create DVDs at speeds of up to 2.4x rewrite; view DVDs with up to 8x read speed; create CDs at speeds of up to 12x write and 10x rewrite; access files stored on CD with up to 32x read speed	quickly create, access and view your original DVDs and CDs
	enables additional storage options	offers users the ability to off-load their hard drive	can cover many data protection, backup and archiving needs
multi-functional	four drives in one	write to either DVD or CD-RW discs using the DVD+RW or CD-RW drive	transfer digital video directly from camcorder to a DVD disc (requires a 1394 port and video capture capability on your workstation); transfer analog video to a DVD disc (requires video capture capability)
designed for optimum performance on a workstation	incorporates both Constant Angular Velocity (CAV) as well as Constant Linear Velocity (CLV) recording	quick formatting function enables instant use of blank discs	lossless linking functionality ensures integrity of recording in both data and video applications
complete solution	includes software to incorporate video footage, photos and music onto DVD, drag and drop files, reliably backup, protect and restore individual files as well as play DVD movies on your workstation	everything you need to start creating DVDs is included	DVD+RW will be the new standard for storage and sharing information

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performance

DVD	2.4 rewrite
	8x read
CD	12x write
	10x rewrite
	32x read

interface
EIDE (ATAPI)

type
internal

localization
languages: English, French, Italian, German Spanish

loading mechanism
tray loader

logical recording format
UDF and ISO9660, CD-DA

encoding method
EFM

buffer size
minimum 2MB
includes hp buffer underrun prevention technology

compatible operating systems
Microsoft Windows® 2000 Professional
Windows NT 4.0 with Support Pak 5*

*supported for storage and backup only; video and disc creation not supported

MTFB
120,000 hours

power requirements
output: 5 VDC, +/- 5% tolerance +12 VDC, +/- 10% tolerance

power consumption
25 watt max power consumption

minimum burst transfer rate
33MB/sec

seek time
250ms per full stroke
125ms per average stroke

disc finalization time
2 minutes typical at 2x

write methods
create:
  track at once
  disc at once
  incremental packet writing (variable and fixed packet writing orange book part II)
copy:
  session at once
  multisession

CD/DVD capacity
DVD: up to 4.7GB data or up to 3 hours of video
CD: 700MB or up to 80 mins audio

hours of video recording
1 hr @ 9.3Mb/sec
2 hrs @ 5.8 Mb/sec
3 hrs @ 3.3 Mb/sec

write verification
automatic power control to dynamically adjust laser with power
data read-after-write verification by host initiated procedures

corrected error rate
data mode 1 and mode 2 form 1:
  less than 1 uncorrectable frame in 10^{12} bits read
audio, data mode 2 and mode 2 form 2:
  less than 1 uncorrectable frame in 10^{9} bits read

media compatibility (write)
hp DVD+RW rewritable disc
CD-R media
CD-RW media

media compatibility (read)
DVD+RW
DVD-ROM
DVD-video
CD-digital audio (red book) and CD extra
CD-ROM (mode 1 - yellow book)
CD-ROM XA & CD-I (mode 2/form 1 - green book)
CD-ROM XA & CD-I (mode 2/form 2 - green book)
CD-bridge & photo-CD (single and multi-session)
CD-video

sustained transfer rates comparison

	CD	DVD
1x	150KB/sec	1.32MB/sec
4x	600KB/sec	5.28MB/sec
6x	900KB/sec	7.93MB/sec
8x	1.2MB/sec	10.57MB/sec
10x	1.5MB/sec	13.21MB/sec
12x	1.8MB/sec	15.84MB/sec
16x	2.4MB/sec	21.13MB/sec
20x	3.0MB/sec	26.4MB/sec
32x	4.8MB/sec	42.26MB/sec

environmental ranges

operating temperature	5 to 40 C (41 to 104F)
operating humidity	10% to 90% RH non-condensing

acoustics

sound power	7.0B(A) (per ISO 9296)
sound pressure	70dB (A)

dimensions (w x d x h)
7.74 x 5.74 x 1.63-inches
196.6 x 145.68 x 41.35mm

weight
2 lb (.9kg)

warranty
one-year limited hardware warranty backed by hp customer care

hardware included
internal IDE DVD+RW/CD-RW drive with buffer underrun prevention technology, software with integrated install, set-up poster, support guide, getting help guide, how do I? guide, DVD+R upgrade information, audio cable, 1 blank DVD+RW disc, IDE cable and screws

does not include (purchase separately): video capture and compression hardware for download of video to workstation

software included
HP MyDVD™ Video by SONIC™, HP RecordNow™, HP DLA™, HP Simple Backup™ by Veritas™, PowerDVD™ by Cyberlink®