

DVR-111



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High Speed DVD-R/RW/RAM, +R/RW, CD-R/RW Writer (Bulk Drive)

The DVR-111 offers writing support for Dual & Double Layer media types at 8X speed, along with 16X writing to DVD-R/+R, 5X writing to DVD-RAM, 6X writing to DVD-RW and 8X writing to +RW. The drive's combined specifications deliver the one of the highest levels of all-round DVD-writing performance currently available.

Key features	<p>DVR-111</p> <p>Writes and reads DVD-RAM, DVD-R/RW, +R/RW and CD-R/RW formats</p> <p>Buffer under-run protection for CD/DVD, Performance Adjusting Firmware</p> <p>Max. 16x writing speed for DVD-R/+R*</p> <p>Max. 8x writing speed for DVD-R DL (Dual Layer) and +R DL (Double Layer) Discs</p> <p>Max. 6x writing speed for DVD-RW</p> <p>Max. 8x writing speed for +RW</p> <p>Max. 5x writing speed for DVD-RAM.</p> <p>*It is required to use a cable corresponding to U-ATA66 (80-wire conductor cable).</p> <p>DVD data capacity: 4.7GB single-sided disc, 8.5GB Dual/Double Layer disc, DVD-RAM 4.7GB disc (Ver.2.0, 2.1 and 2.2, non-cartridge version)</p> <p>Software bundle not included</p>
Specifications	<p>DVR-111</p> <ul style="list-style-type: none"> • DVD-R (Ver 2.0 & 2.1 for General disc only), DVD-R DL (Dual Layer, Ver 3.0), DVD-RW (Ver 1.0, 1.1 & 1.2), +R (Ver 1.0, 1.1, 1.2 & 1.3), +R DL (Double Layer Ver 1.0 & 1.1), +RW (Ver 1.1, 1.2 & 1.3), +RW High Speed (Ver 1.0), DVD-RAM (Ver 2.0, 2.1 & 2.2, non-cartridge version) • CD-R (Type 74, 650MB & Type 80, 700MB), CD-RW (including HS, US, US+)
Write Support	

Read Support	<ul style="list-style-type: none"> • DVD-ROM (Single & Dual Layer, Single & Dual Sided) • DVD-RAM (Ver 2.0, 2.1 & 2.2, non-cartridge version) • DVD-R, DVD-R DL (Dual Layer), DVD-RW • +R, +R DL (Double Layer), +RW • CD-ROM Mode 1, CD-ROM XA Mode 2 (Form 1, Form 2) • CD-Text, Photo-CD (Single & Multiple Session), CD-DA, CD-Extra, CD-Text, Video CD, CD-R, CD-RW (including HS, US, US+)
Write Speed DVD-R	<ul style="list-style-type: none"> • 16x CAV (22.16 MB/sec) • 12x PCAV / Zone CLV (16.62 MB/sec) • 8x PCAV / Zone CLV (11.08 MB/sec) • 6x CLV (8.31 MB/sec) • 4x CLV (5.54 MB/sec) • 2x CLV (2.77 MB/sec) • 1x CLV (1.385 MB/sec)
Write Speed DVD-R Dual Layer	<ul style="list-style-type: none"> • 8x Zone CLV (11.08 MB/sec)* • 6x CLV (8.31 MB/sec) • 4x CLV (5.54 MB/sec) • 2x CLV (2.77 MB/sec)
	*This specification describes the maximum speed in one zone
Write Speed DVD-RW	<ul style="list-style-type: none"> • 6x CLV (8.31 MB/sec) • 4x CLV (5.54 MB/sec) • 2x CLV (2.77 MB/sec) • 1x CLV (1.385 MB/sec)
Write Speed 8cm DVD-R/RW with Adapter	<ul style="list-style-type: none"> • 2x CLV (2.77 MB/sec) • 1x CLV (1.385 MB/sec)
Write Speed +R	<ul style="list-style-type: none"> • 16x CAV (22.16 MB/sec) • 12x PCAV / Zone CLV (16.62 MB/sec) • 8x PCAV / Zone CLV (11.08 MB/sec) • 6x CLV (8.31 MB/sec) • 4x CLV (5.54 MB/sec) • 2.4x CLV (3.32 MB/sec)
Write Speed +R Double Layer	<ul style="list-style-type: none"> • 8x Zone CLV (11.08 MB/sec)* • 6x CLV (8.31 MB/sec) • 4x CLV (5.54 MB/sec) • 2.4x CLV (3.32 MB/sec)
	*This specification describes the maximum speed in one zone
Write Speed +RW	<ul style="list-style-type: none"> • 8x Zone CLV (11.08 MB/sec) • 6x CLV (8.31 MB/sec) • 4x CLV (5.54 MB/sec) • 3.3x CLV (4.57 MB/sec) • 2.4x CLV (3.32 MB/sec)
Write Speed DVD-RAM	<ul style="list-style-type: none"> • 5x Zone CLV (6.92 MB/sec) • 3x Zone CLV (4.15 MB/sec) • 2x Zone CLV (2.77 MB/sec)
Write Speed CD-R	<ul style="list-style-type: none"> • 40x CAV (6.00 MB/sec) • 32x PCAV / Zone CLV (4.80 MB/sec) • 24x PCAV / Zone CLV (3.60 MB/sec) • 16x CLV (2.40 MB/sec) • 10x CLV (1.50 MB/sec) • 4x CLV (0.60 MB/sec)
Write Speed CD-RW	<ul style="list-style-type: none"> • 32x Zone CLV (4.80 MB/sec) (US+) • 24x Zone CLV (3.60 MB/sec) (US and US+) • 20x Zone CLV (3.00 MB/sec) (US and US+) • 16x CLV (2.40 MB/sec) (US and US+) • 10x CLV (1.50 MB/sec) (HS, US and US+) • 4x CLV (0.60 MB/sec) (Normal and HS)
Write Speed 8cm CDR/RW with Adapter	4x CLV (0.60 MB/sec)
Read Speed DVD-ROM (Single Layer)	Max. 16x CAV (22.16 MB/sec)
Read Speed DVD-ROM (Dual Layer)	Max. 12x CAV (16.62 MB/sec)
Read Speed DVD-Video (with CSS, Single / Dual Layer)	Max. 5x CAV (6.925 MB/sec)
Read Speed DVD-RAM	Max. 5x Zone CLV (6.92 MB/sec)
Read Speed DVD-R, DVD-R Dual Layer, DVD-RW	Max. 12x CAV (16.62 MB/sec), Max. 8x CAV (11.08 MB/sec), Max. 8x CAV (11.08 MB/sec)
Read Speed +R, +R Double Layer, +RW	Max. 12x CAV (16.62 MB/sec), Max. 8x CAV (11.08 MB/sec), Max. 8x CAV (11.08 MB/sec)
Read Speed 8cm DVDROM DVDR/RW DVDVideo with Adapter	Max. 3.4x CAV (4.70 MB/sec)
Read Speed CD-ROM	Max. 40x CAV (6.00 MB/sec)

Read Speed CD-R,CD-RW	Max. 40x CAV (6.00 MB/sec), Max. 32x CAV (4.80 MB/sec)
Read Speed 8cm CDROM CDR/RW CDDA with Adapter	Max. 6.1x CAV (0.91 MB/sec)
Read Speed CD-DA CD-TEXT Mixed CD CD-Extra (Play audio)	Max. 9.3x CAV (1.39 MB/sec)
Read Speed CD-DA CD-TEXT Mixed CD CD-Extra (Data extraction)	Max. 40x CAV (6.00 MB/sec)
Read Speed Video-CD	Max. 9.3x CAV (1.39 MB/sec)
Access Time DVD-ROM	130 msec (Random Average)
Access Time DVD-RAM	210 msec (Random Average)
Access Time CD	120 msec (Random Average)
Interface	ATAPI (ATA-5, SFF-8090 Ver.5)
IDE Data Transfer Mode	PIO Mode 4, Multi Word DMA Mode 2, Ultra DMA Mode 2, Ultra DMA Mode 4 (Ultra-DMA66)* *It is required to use a cable corresponding to U-ATA66 (80-wire conductor cable)
Data Buffer	2 MB
Mounting Orientation	Horizontal and Vertical (+/- 5 degrees) *80mm discs cannot be used when the drive is vertically mounted. The case remains even when an adapter is used.
Power Requirement	+5V 1.2A +12V 0.8A (Average during 16X DVD-R writing process)
Power Consumption	15.6W (Average during 16X DVD-R writing process)
Regulatory Approval	UL60950-1 First Edition, CSA C22.2 No.60950-1-03, EN60950-1:2001+A11, CB Report: IEC60950-1:2001, FIMKO, SEMKO (Optional)
Dimensions (W x H x D)	(Including height of Front Bezel) 148 x 42.3 x 180 mm
Net Weight	0.9 kg

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