



(DV-W28E-R IDE TYPE)

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DVD Super Multi Drive

DV-W28E-R (IDE) DV-W28S-R (SATA)

4.7GB / 8.5GB Half-inch-height DVD Super Multi Drive

8x DVD±R **8x DVD+RW**
6x DVD±R DL **6x DVD-RW**

- Half-inch-height standard design
- Buffer underrun Prevention
- Supporting disc-at-once, session-at-once, packet write, and track-at-once recording mode
- Horizontal and vertical mounting for most system configurations

	CD-224E-R	CD-224S-R
Write Speed	DVD-RAM	5x (ZCLV), 3x (ZCLV), 2x (ZCLV)
	DVD-R	8x (ZCLV), 6x (ZCLV), 4x (ZCLV), 2x (CLV), 1x (CLV)
	DVD-R (DL)	6x (ZCLV), 4x (ZCLV), 2x (CLV)
	DVD-RW	6x (ZCLV), 4x (ZCLV), 2x (CLV), 1x (CLV)
	DVD+R	8x (ZCLV), 6x (ZCLV)
	DVD+R (DL)	4x (CLV), 2.4x (CLV)
	DVD+RW (4x)	6x (ZCLV), 4x (ZCLV), 2.4x (CLV)
	DVD+RW (8x)	4x (CLV), 2.4x (CLV)
	CD-R	8x (ZCLV), 6x (ZCLV), 3.3x (CLV), 24x (ZCLV), 20x (ZCLV)
	CD-R	16x (ZCLV), 10x (CLV), 4x (CLV)
Multi-speed CD-RW	Multi-speed CD-RW	4x (CLV)
	High-speed CD-RW	10x (CLV), 4x (CLV)
	Ultra-speed CD-RW	24x (ZCLV), 20x (ZCLV)
	Ultra-speed+ CD-RW	16x (ZCLV), 10x (CLV)
		HS 10x (CLV), 4x (CLV) MS 4x (CLV)
Read Speed	DVD-ROM (Single Layer)	8x (CAV)
	DVD-ROM (Dual Layer)	8x (CAV)
	DVD-Video *1	4x (CAV)
	DVD±R	8x (CAV)
	DVD±RW	8x (CAV)
	DVD-R DL	8x (CAV)
	DVD-R DL	6x (CAV)
	DVD-RAM (4.7GB)	3 - 5x (ZCLV)
	CD-ROM	24x (CAV)
	CD-R	24x (CAV)
	CD-RW	24x (CAV)
	CD-DA (DAE)	24x (CAV)
	Play Audio *1	9.3x (CLV)
Video CD *1	9.3x (CLV)	

Disc Diameter	12cm, 8cm
Interface	ATA/ATAPI (IDE) Serial ATA (SATA)
Data Transfer Rate	Programmed I/O (PIO) 16.6MB/s max. (PIO mode 4) Burst DMA 16.6MB/s max. (Multi Word DMA mode 2) Burst UDMA 33.3MB/s max. (Ultra DMA mode 2)
Average Random Access Time	130ms typ. Average (CD-ROM, 24x)
Data Buffer	2MB
Loading Mechanism	Drawer Type
Environmental Conditions	Ambient Temperatures Operating : 5 to 45°C Relative Humidities Operating : 8 to 80% (non-condensing) *2
Power Requirements	DC+5V ± 5%
Current Consumption	Standby / Sleep : 60mA / 40mA (Average current max) During starting / seek : 2000mA (Peak current max)
MTBF	60,000POH (10% duty)
Safety Standards	Approved by UL, CUL, TÜV, CE, C-tick
Dimensions	128.0W x 12.7H x 129.4D (mm)
Mass (Weight)	180g or less
RoHS Directive	Complied

Remarks
Please check the specification sheets for detailed conditions and other information.
*1 Playback mode
*2 The maximum wet-bulb temp. is 29.4°C or less

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