



( DW-224E-V IDE TYPE )

## 24/24/24 & 8x CD-RW & DVD-ROM

CD Recordable/Rewritable and DVD-ROM DRIVE  
Suitable for Notebook PCs

### DW-224E-V (IDE) DW-224S-V (SATA)

- Standard half inch 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-V	CD-224S-V
Write Speed	CD-R 24x (CAV), 16x (CAV), 10x (CLV), 4x (CLV)	8x (CAV)
	CD-RW US	24x (CAV), 10x (CLV)
	HS	10x (CLV), 4x (CLV)
	MS	4x (CLV)
Read Speed	DVD-ROM	8x (CAV)
	DVD-Video *1	4x (CAV)
	DVD±R	8x (CAV)
	DVD±RW	8x (CAV)
	DVD±R DL (Finalized Disc)	8x (CAV)
	DVD-RAM (4.7GB)	5x (CAV)
	CD-ROM	24x (CAV)
	CD-R	24x (CAV)
	CD-RW	24x (CAV)
	CD-DA (DAE)	20x (CAV)
Play Audio *1	4x (CLV)	
Video CD *1	20x (CAV)	

	ATA/ATAPI (IDE)	Serial ATA (SATA)
Disc Diameter	12cm, 8cm	
Interface	ATA/ATAPI (IDE)	Serial ATA (SATA)
Data Transfer Rate	Programmed I/O (PIO) 16.7MB/s max. (PIO mode 4)	
	Burst DMA 16.7MB/s max. (Multi Word DMA mode 2)	
	Burst Ultra DMA 33.3MB/s max. (Ultra DMA mode 2)	
Average Random Access Time	90ms typ. Average (CD-ROM, 24x)	
Random Access Time	110ms typ. Average (DVD-ROM, 8x)	
Data Buffer	2MB	
Loading Mechanism	Drawer Type	
Environment Condition	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 : 25mA (Average current max)	
	During starting/seek ; 1500mA (Peak current max)	
MTBF	60,000POH (10% duty)	
Safety Standard	Approved by UL, CSA, TÜV CE and BSMI	
Dimensions	128.0W x 12.7H x 129.4D (mm)	
Mass (Weight)	178g 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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