



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

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

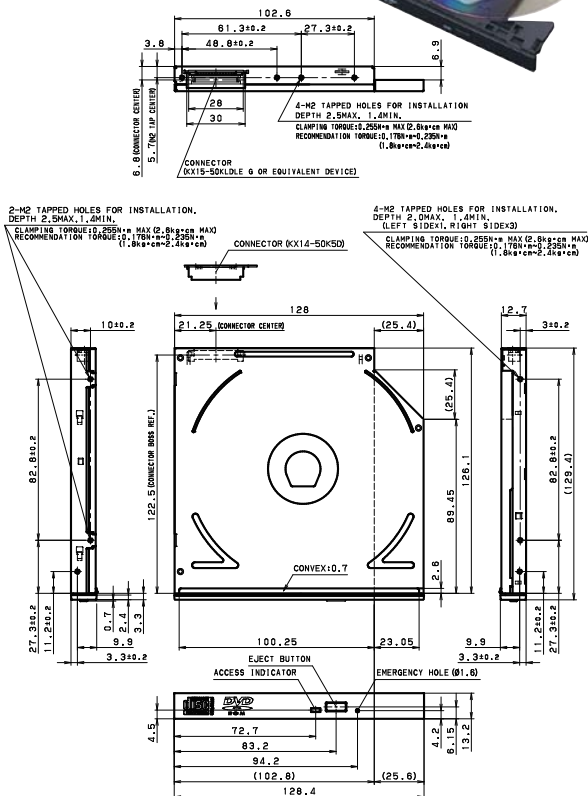
DW-224E-V

- 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

Write Speed	CD-R	24x(CAV), 16x(CAV), 10x(CLV), 4x(CLV)	
	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)		

Disc Diameter	12cm, 8cm
Interface	ATA/ATAPI (IDE)
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)
Data Buffer	110ms typ. Average (DVD-ROM, 8x)
Loading Mechanism	2MB
Environment Condition	Drawer Type
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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