



RECORDABLE DVD MEDIA

DVD

OUR TECHNOLOGY IS SOUND.



TDK DVD MEDIA

Store, share and enjoy your digital life with TDK recordable DVD media. Ideal for home videos, music, multimedia and data, it's manufactured to the world's most demanding standards. **The result?** You get a clean, perfect burn every time. TDK recordable DVD media is the only choice when quality counts. Now available in a variety of formats.



DVD-R for Authoring



DVD-R



High-Speed DVD-R*



High-Speed DVD-RW



DVD+R



DVD+RW



DVD-RAM

DVD specifications

*WARNING: Use of High Speed DVD-R with certain DVD-R/RW drives and DVD-R/RW video recorders may cause the drive/recorder to become unresponsive, if the drive/recorder is allowed to remain in such unresponsive condition for an extended period of time, permanent damage may result to the drive/recorder and to the disc. For more information about free updates to resolve this potential problem, please visit <http://www.dvds.com>

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DVD RECORDING MEDIA

	DVD-R or authoring use	DVD-R for general use	DVD+R	DVD-RW	DVD+RW	DVD-RAM	
Storage Capacity	4.7 GB	4.7 GB	4.7 GB	4.7 GB	4.7 GB	9.4 GB	4.7 GB
Sides	Single	Single	Single	Single	Single	Double	Single
Cartridge Type	Bare	Bare	Bare	Bare	Bare	Type I	Type II
Disc Diameter	120 mm	120 mm	120 mm	120 mm	120 mm	120 mm	120 mm
Disc Thickness	1.2 mm	1.2 mm	1.2 mm	1.2 mm	1.2 mm	1.2 mm	1.2 mm
Recording Material	Organic Dye		Organic Dye	Phase Change Alloy		Phase Change Alloy	
Laser Wavelength (recording)	635 nm	650 nm	650 nm	650 nm	650 nm	650 nm	650 nm
Laser Wavelength (playback)	650 nm	650 nm	650 nm	650 nm	650 nm	650 nm	650 nm
Numerical Aperture of Lens	0.6	0.6	0.6	0.6	0.6	0.6	0.6
Minimum Mark Length	0.40 μm	0.40 μm	0.40 μm	0.40 μm	0.40 μm	0.28 μm	0.28 μm
Recording Track Pitch	0.74 μm	0.74 μm	0.74 μm	0.74 μm	0.74 μm	0.615 μm	0.615 μm
Pre Format	Wobbled groove & land pre-pits		ADIP (Address in pre-groove)	Wobbled groove & land pre-bits	ADIP (Address in pre-groove)	Single spiral wobbled groove & land w/headers of pre-pit	
Reflectivity	> 60% (Rtop)	> 60% (Rtop)	> 60% (Rtop)	18% ~ 30% (Rtop)	18% ~ 30% (Rtop)	15% ~ 25% (mirror)	15% ~ 25% (mirror)

Ability to form ultra-small data marks

AVIST alloy forms ultra-small data marks to achieve full 4.7 GB capacity while using only the groove areas of the disc for recording.

Compatibility

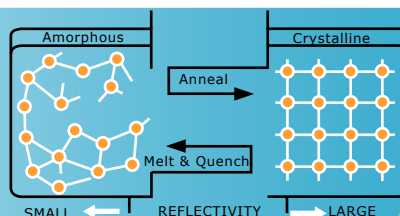
Groove-only data format, in combination with ample reflectivity (> 18%) makes TDK DVD-RW the first rewritable DVD disc to achieve playback compatibility in DVD-ROM and DVD-Video players. The production of DVD shares many TDK CD-R innovations and expertise in proven manufacturing processes.

Phase-change AVIST alloy

Use metallic alloys that changes between crystalline and amorphous states in response to the heat generated by a laser for phase-change recording in DVD-RAM. The changes in reflectivity exhibited by the alloy in its crystalline and amorphous states are read as data.

Principles of Phase-Change Recording

TDK Advanced and Versatile Information Storage Technologies (AVIST) is an all encompassing set of chemicals, electronics and manufacturing innovations that help make Recordable DVD a reality.



TDK Singapore (Pte) Ltd
 460 Alexandra Road
 #04-00 PSA Building
 Singapore 119963

www.tdk-asia.com

