

Product Line-up and Specifications

ADA Drive

External drive
LKM-KB12



Internal drive
LKM-KB23

Specifications

Model Number	LKM-KB12		LKM-KB23	
Type	External		Internal	
Interface	USB 2.0		SATA	
	Writing Speed	Reading Speed	Writing Speed	Reading Speed
Supported disc types				
ADA-RE (single-layer/dual-layer)	2x	2x	2x	2x
ADA-R* (single-layer/dual-layer)	2x	2x	4x	4x
BD-RE (single-layer/dual-layer)	2x	2x	2x	2x
BD-R (single-layer/dual-layer)	2x	2x	4x	4x
BD-ROM	—	2x	—	2x
DVD-RAM (4.7GB)	5x	5x	5x	5x
DVD-RAM (4.7GB) cartridge	5x	5x	5x	5x
DVD-R (single-layer)	6-8x	6-8x	6-8x	6-8x
DVD-R (double-layer)	—	4x	—	4x
DVD-RW	4x	4x	4x	4x
+R (single-layer/double-layer)	—	2.4x	—	2.4x
+RW	—	2.4x	—	2.4x
DVD-ROM (single-layer/double-layer)	—	2x	—	2x
CD-RW	—	20x	—	20x
CD-R	—	20x	—	20x
CD-ROM	—	20x	—	20x
External dimensions (H x W x D)	56.8 x 168.5 x 289.3 mm		41.3 x 146.0 x 193.0 mm	

* The release date has not yet been determined.

** Normal speed BD: 36 Mbps, DVD: 11.08 Mbps, CD: 1.2 Mbps

ADA Media



50GB* ADA-RE (single-sided/dual-layer)
LM-BED50B



25GB* ADA-RE (single-sided/single-layer)
LM-BED25B

Specifications

Model number	ADA-RE	
	LM-BED50B	LM-BED25B
Data capacity	50GB	25GB
Recording constitution	Single-sided dual-layer	Single-sided single-layer
Recording format	Phase change rewritable	
Recording material	Phase change inorganic recording material	
Track pitch	0.32 μm	
Minimum mark length	0.149 μm	
Cover layer thickness	0.1 mm	
Data transfer speed	72 Mbps (2x)	
External shell case dimensions	135.5 mm x 124.6 mm x 8.0 mm	
Disc diameter	120 mm	
Country of manufacture	Japan	

* 1 GB=1 billion bytes, but the capacity is slightly below that after formatting, so that the actual amount area that can be used will be less.

Panasonic
ideas for life

ADA
Drive and Media



Advanced Disc for Archive Drive and Media

Optimum for medical and
other business data
archives



*Advanced Disc
for Archive™*

* *ADA" is an abbreviation of "Advanced Disc for Archive"

Panasonic®

<http://panasonic.net/avc/media/ada/>

Design and specifications are subject to change without notice.
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What's Advanced Disc for Archive



High-capacity discs designed to store the growing amounts of data in the B2B field.

The amount of digital data to be archived in the B2B field has seen drastic growth, which requires a greater recording capacity for each recording medium.

The rapid spread of high-definition motion images in professional video production, and the increasing number of scanned pictures and 3D images in the medical field are typical examples.

ADA's high capacity also meets a variety of long-term data archive demands in B2B fields such as R&D, government projects, enterprises, institutions, and resource exploration.

Cassette-type shell cases guard high-reliability discs based on Blu-ray Disc technology.

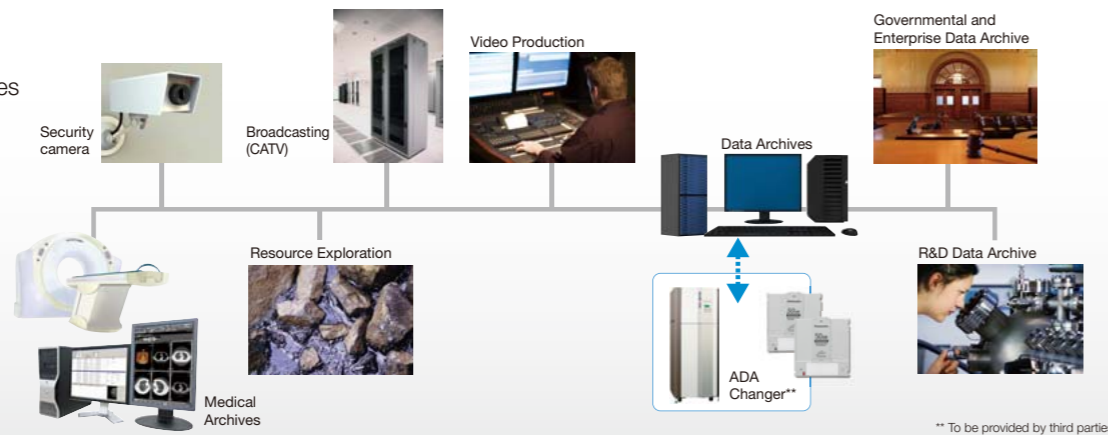
Over the years, cartridge-type DVD-RAM discs have found high acclaim at medical institutions. ADA is a new type of optical disc that Panasonic created by combining the popular cartridge format with blue-violet laser technology. Cassette-type shell cases protect the data on the disc from damage caused by contamination and impact. The Advanced Disc for Archive was created from Panasonic's integrated technologies for DVD and Blu-ray Discs.

Optimally tuned drives and media boost reliability.

Panasonic has combined its hardware and media technologies to provide optimally tuned drives and media, ensuring excellent reliability.

Application examples

Highly reliable ADA discs meet archiving needs in a wide range of businesses



** To be provided by third parties

ADA Features

Drive

- An external type with a USB 2.0 interface and an internal type with an SATA interface are available.
- Internal drives can be installed vertically.
- Drives support writing and reading of not only ADA media but Blu-ray disc, DVD-RAM, DVD-R and DVD-RW media. Reading of CDs is also supported.
- Data can be easily written to media just as it is to a hard disk, by using "drag & drop."
- In the same way as a DVD-RAM or MO, the process after writing data to a disk is also very easy, with no need for finalizing.



External drive LKM-KB12

Internal drive LKM-KB23



Media

High capacity

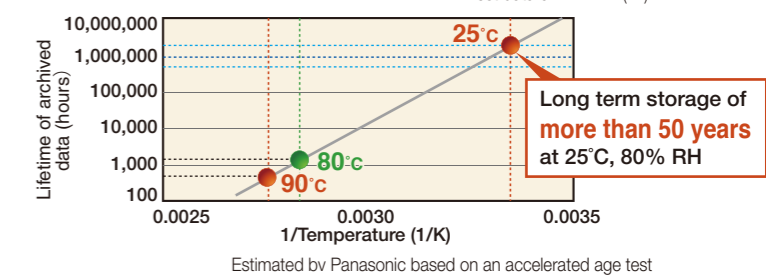
- Discs that were developed based on Blu-ray Disc technologies have a maximum recording capacity of 50 GB.
- The data from ten 4.7-GB DVDs can be saved onto a single 50-GB disc, which is equivalent to the data for 4.5 hours of full-HD motion images or approximately 90,000 CT scan images.



Long Archive Life

- ADA discs have achieved a long archive life of over 50 years (according to an accelerated age test by Panasonic).
- ADA uses an inorganic phase change recording layer whose reliability has been proven in Blu-ray Discs. It also resists time-related changes, for safe and secure long-term storage.

Estimated life span of data on Panasonic ADA Media
Test data of ADA-RE (2x)



Durable Shell Cases

- The cassette-type shell case employs highly durable polycarbonate to protect the disc from scratches, dust and fingerprints.
- Shell case media offers easy handling and convenient storage.
- The shell case saves the same amount of storage space as a BD or DVD bare disc in a conventional jewel case.

