



# DISC BD Series

Optical Libraries with Blu-ray for Data Technology

## Optical Storage for Broadcast Archiving

DISC Blu-ray technology offers highly competitive mass storage - permanent or rewritable - for the Broadcast market.



Solution

The Opportunity: File based archiving on direct access and permanent storage media at a cost under 2US\$/GB provides new competitive advantages to broadcast stations:

- ⇒ 30% of broadcasted news is archived for future reference and immediate access
- ⇒ syndicated shows are kept on archive for immediate upload to the "on-air system"
- ⇒ advertising clips are available in direct access for immediate sale

### The Solution:

Meta Data fast search and content upload managed from the Broadcast Master Control/Automation System.

Data base on RAID for fast Meta Data search of commercial and news programming files: Utilizing the meta data contained in each video file, the data base offers high-speed search capability of even huge indexes of stored files. Searched files can be played on access-permitted desktop computers. News scripts and video are searchable on the newsroom systems to which the data base interfaces including searches from content and news providers.



The DISC Blu-ray for Data Series utilizes the blue laser technology, optical storage technology with very high performance and data density. Available in read-only and re-write formats, Blu-ray technology offers up to 50GB per media, DISC libraries offer capacities up to 35 TB and up to 14 parallel data streams with 72Mbps each. Blu-ray media life is >50 years without compromising playback quality, independent of the frequency of playbacks. The need for managed backups is eliminated.

The combination of file based search engines and the DISC Blu-ray for Data product family provides a highly economical solution to broadcasters who need extensive and quick access to their archive material. The roadmap all the way to 200GB/media offers a much needed opportunity in the broadcast market to replace non-standardized and sequential archive storage technology.



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### High capacity video archive with direct access

Depending on the applied bit rate DISC Blu-ray libraries offer storage for thousands of hours of Standard or HD Video. File based direct access to the titles is provided through the data base interface.

Storage capacity in hours of video at a given bit rate, DISC library populated with 50GB Blu-ray media:



Model	#of drives	Capacity (TB)	Storage capacity is equivalent to hours of video at bit rate (Mb/s)			
			8	19	25	40
DISC1000	2	5,2	1.444	608	462	289
DISC3000	2	13,5	3.750	1.579	1.200	750
	4	12,0	3.333	1.404	1.067	667
	6	10,5	2.917	1.228	933	583
DISC4000	2	20,0	5.556	2.339	1.778	1.111
	4	18,5	5.139	2.164	1.644	1.028
	6	17,0	4.722	1.988	1.511	944
DISC7000	2	34,5	9.583	4.035	3.067	1.917
	4	33,0	9.167	3.860	2.933	1.833
	6	31,5	8.750	3.684	2.800	1.750
	8	30,0	8.333	3.509	2.667	1.667
	10	28,5	7.917	3.333	2.533	1.583

Video files may have any capacity up to the total capacity of the optical library. Storage may be permanent on write once media or on rewriteable Blu-ray media. Access frequency and read cycles are unlimited without compromising quality due to the non-contact optical read/write technology.

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