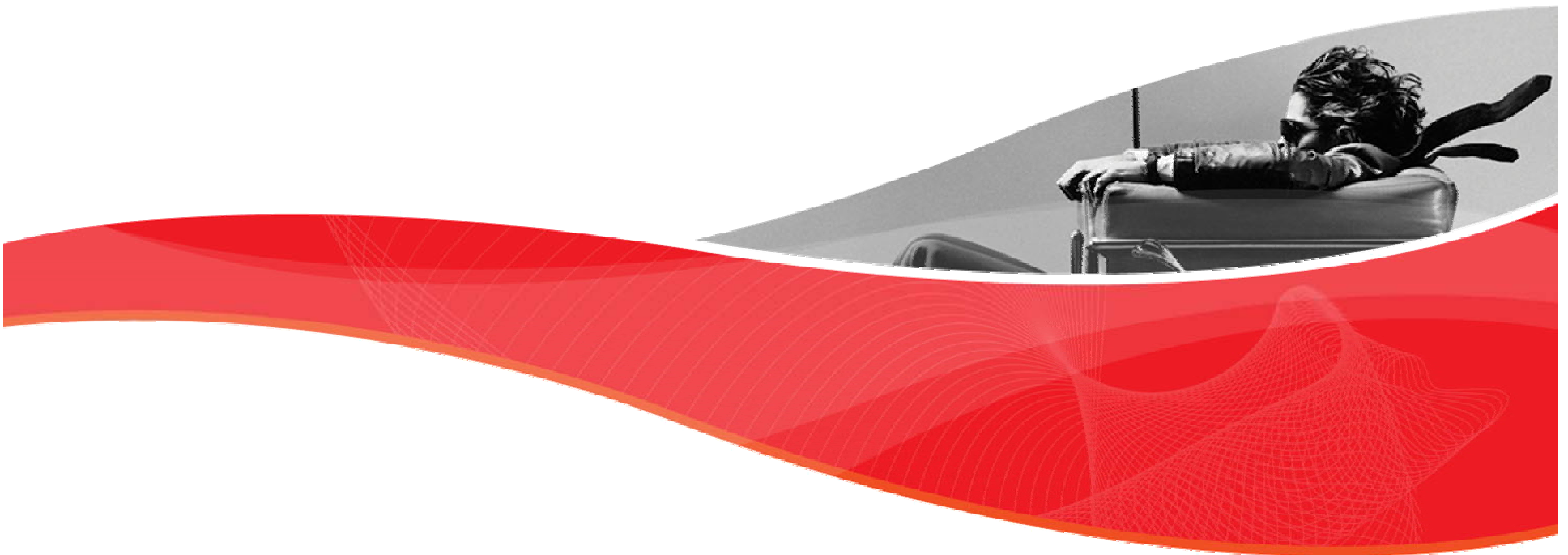


SVOD

Stacked Volumetric Optical Discs



Al Dripchak

Maxell Corp. of America

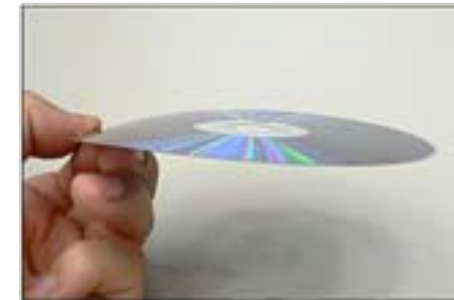
OSTA Symposium Sept. 19, 2007

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What is SVOD?

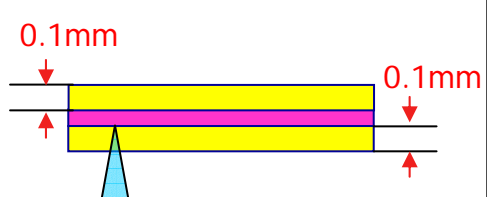
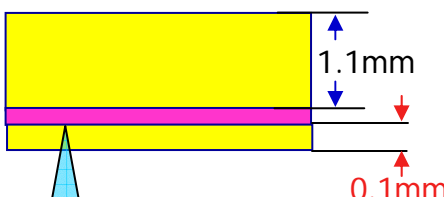


- Thinner Recordable Optical Disc in a Magazine type Cartridge
- Inorganic material recording layer



Compared to conventional BD:

	SVOD	BD
Disc Capacity (SL)	25GB/side	25GB/side
Disc Diameter	120 mm	120 mm
Disc Thickness	0.2 mm	1.2 mm

	
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What is SVOD?



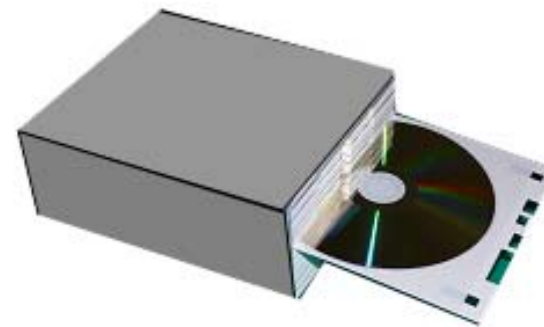
New Large Capacity Optical Disk Cartridge for Archive Data Storage

5.25" cartridge size



**Blue laser SVOD : 1TB
20 discs @ 50GB per disc**

Dictionary cartridge size



**Blue laser SVOD : 5TB
100 discs @ 50GB per disc**

****Using 50GB BD SS, DL media***

Library storage / SOHO / S/M/B / Enterprise

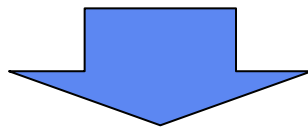
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Features of SVOD



- **Large Capacity**: 5TB/Cartridge (BD media SS, DL)
- **High Space Efficiency**: 100 discs/2.5" height cartridge
- **W/R Compatible** with conventional BD drives
 - Enable to use current, reliable drive technology
 - Lower Hardware Cost
- Same **Reliability** as BD disc

A True Write-Once Solution



Suitable for: Library Systems &
Large Size Data Archival Applications



SVOD Mini 1

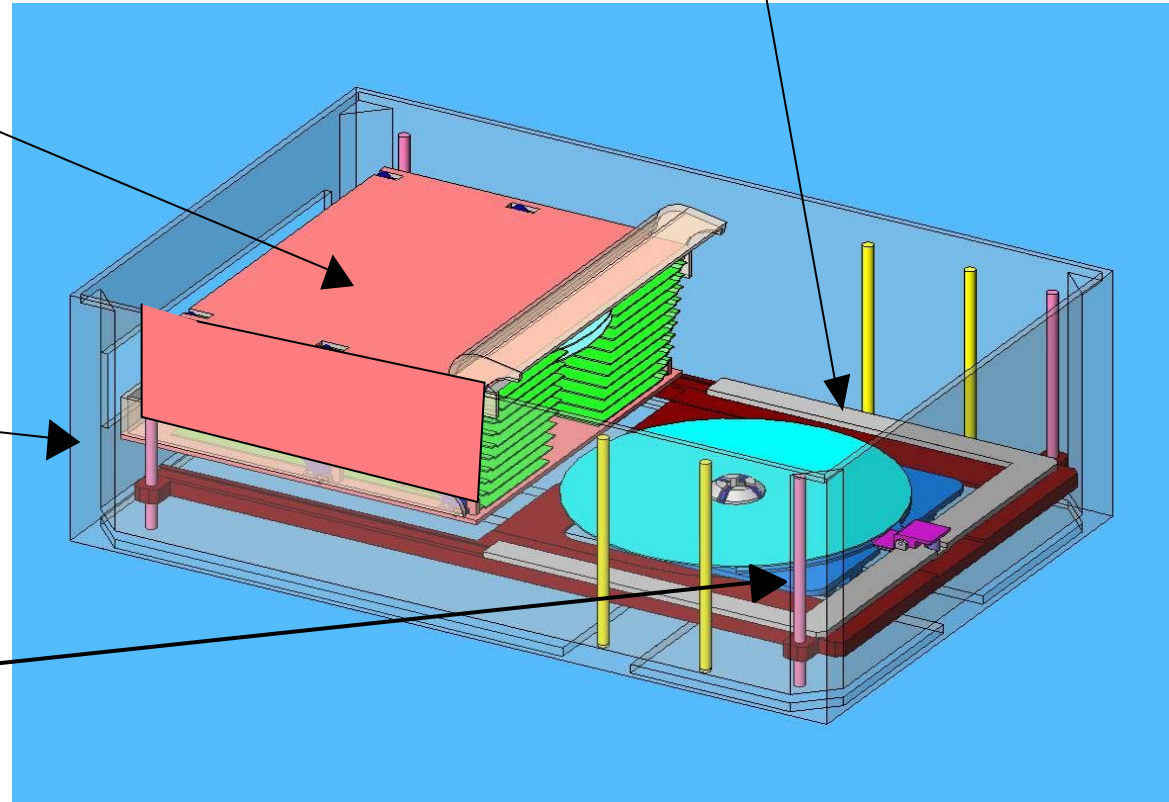


SVOD disc changer assy.

SVOD cartridge
20 or 100 discs

USB Interface

Commercialized
BD drive



100 disc cartridge for blue laser → **5.0 TB mini library**

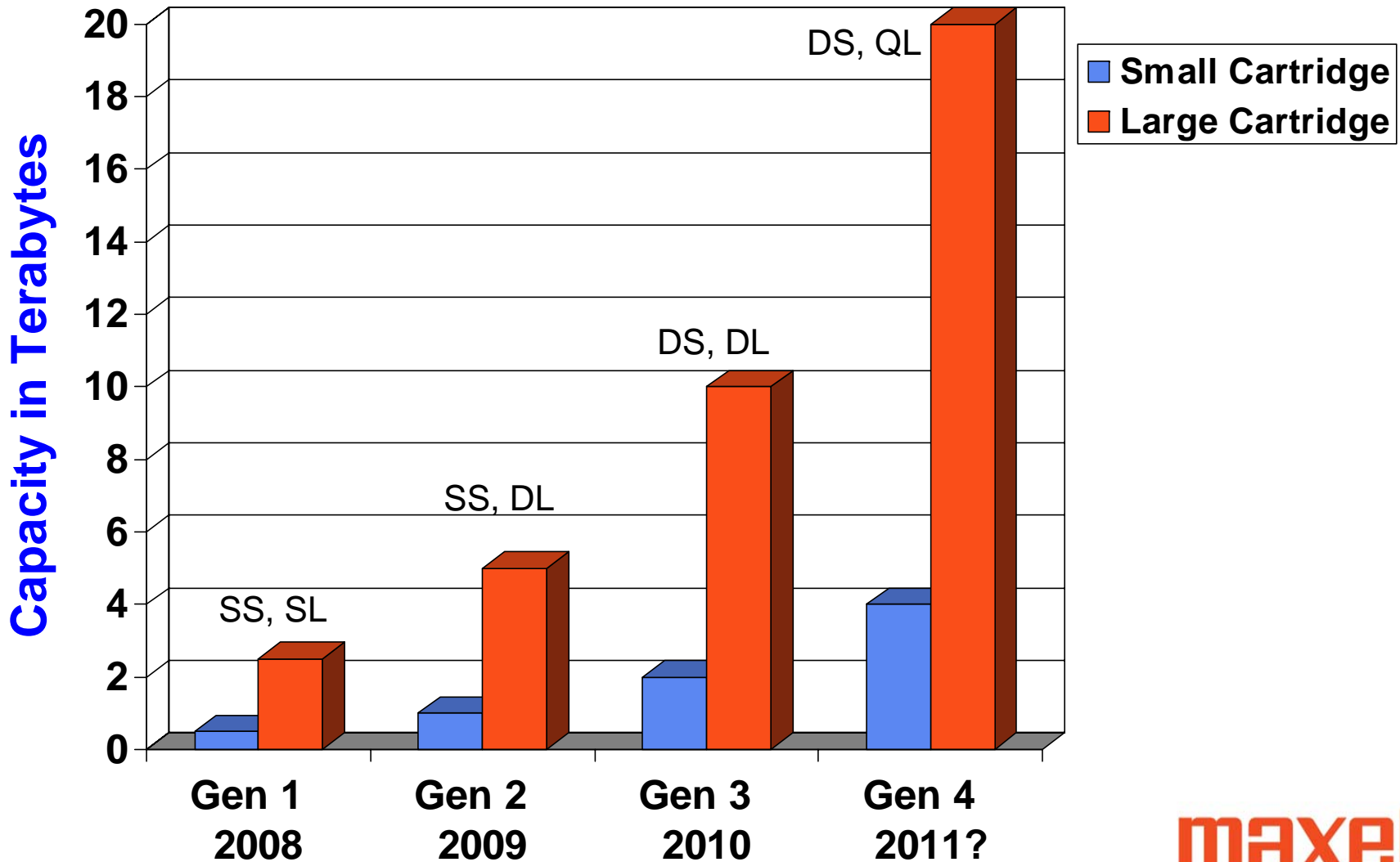
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Anticipated Roadmap of S/VOD

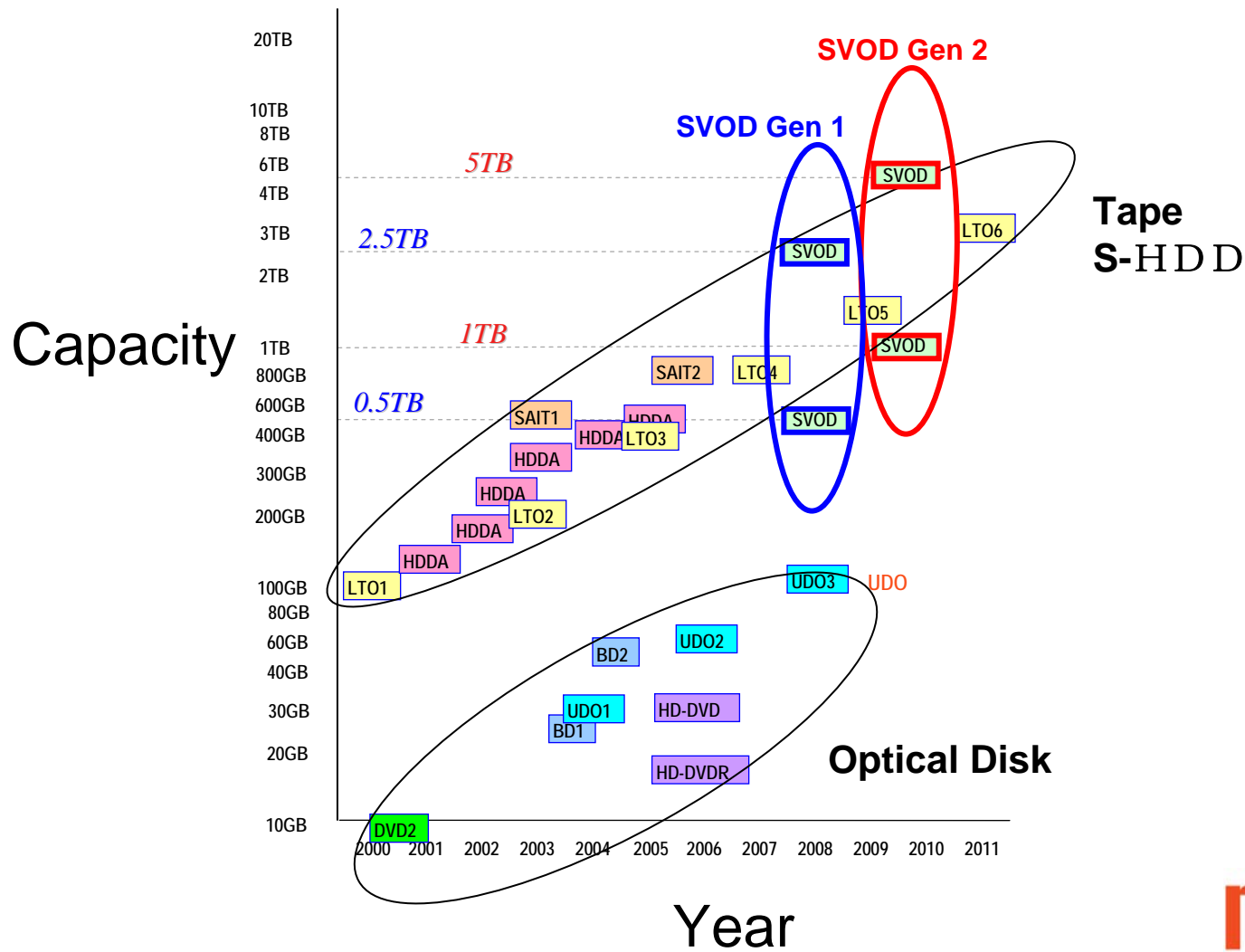


	Media Type	20 Pc. Cartridge	100 Pc. Cartridge	Year
Generation 1	SS, SL	0.5TB	2.5TB	2008
Generation 2	SS, DL	1.0TB	5.0TB	2009
Generation 3	DS, DL	2.0TB	10TB	2010
Generation 4	DS, QL	4.0TB	20TB	TBD

Anticipated Roadmap of S/VOD



Where is SVOD Positioned?



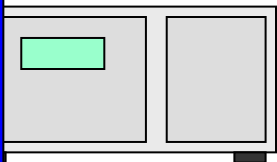
Entry and Midrange Tape Libraries



125TB

50 cartridges
2.5TB / cart. & @ 25GB / disc

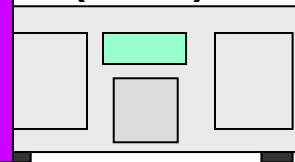
**SVOD
(2008)**



80TB

50 tapes
@ 1.6TB / tape

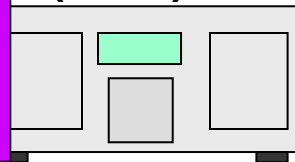
**LTO 5
Library
(2009)**



40TB

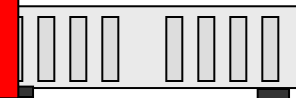
50 tapes
@ 800GB / tape

**LTO 4
Library
(2007)**

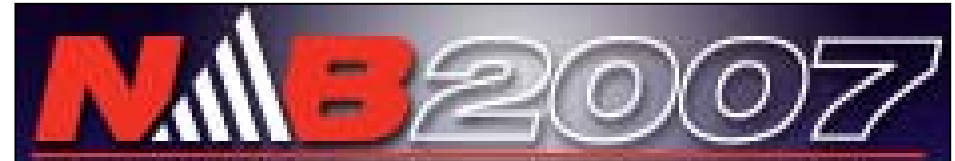


25TB

50 HDD's
@ 500GB / DD
HDD RAID
(2007)



Maxell's SVOD Optical Library



Maxell's SVOD won the "*Mario Award*" at the 2007 NAB show in April for one of the "*Top Ten New Technologies*" at the show

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Summary



CAPACITY - Greater than HDD or Tape Libraries.

ARCHIVAL LIFE - Comparable to Tape and HDD

SPEED - Faster access time compared to Tape Libraries.

COST – Low TCO. Initial cost in line with tape based solutions, with lower maintenance costs as compared to tape and HDD.

RELIABLE – Performance & archive characteristics as good as a commercially available BD-R.

COMPLIANT – Write once, meets regulatory compliance.

SIMPLE – Yet innovative.



Thank You

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