

Optical discs

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Introduction of Optical Disc

- An optical disc is an electronic data storage medium that can be written to and read using a low powered laser beam. Originally developed in the late 1960s, the first optical disc, created by James T. Russell, stored data as micron-wide dots of light and dark.
- Binary data stored in pits and lands



features

- Small size
- Increase the Storage Capability
- Easy For R/W through laser beam
- Greater control and focus



Classification of optical disc

Optical storage devices

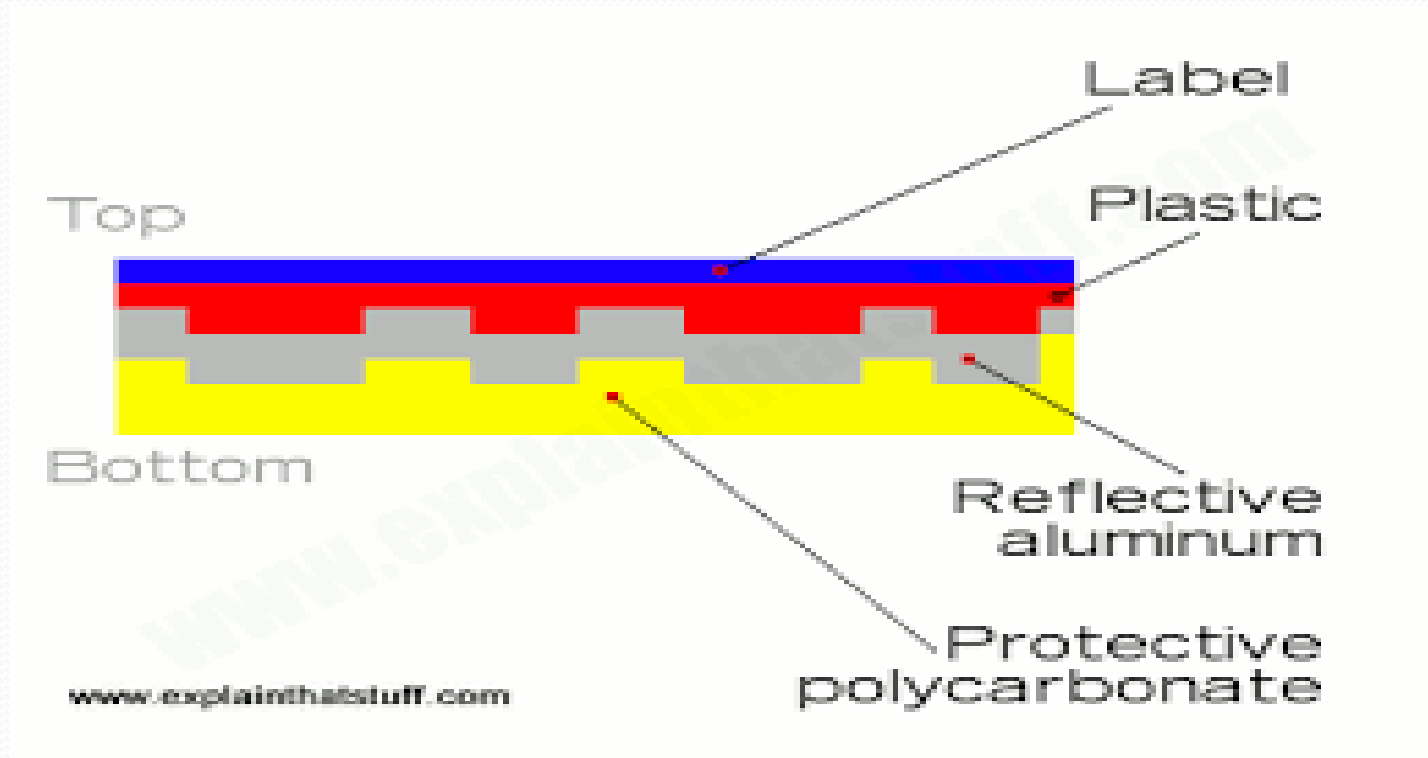


Compact Disc (CD)
Capacity: 700 MB
Available from 1982

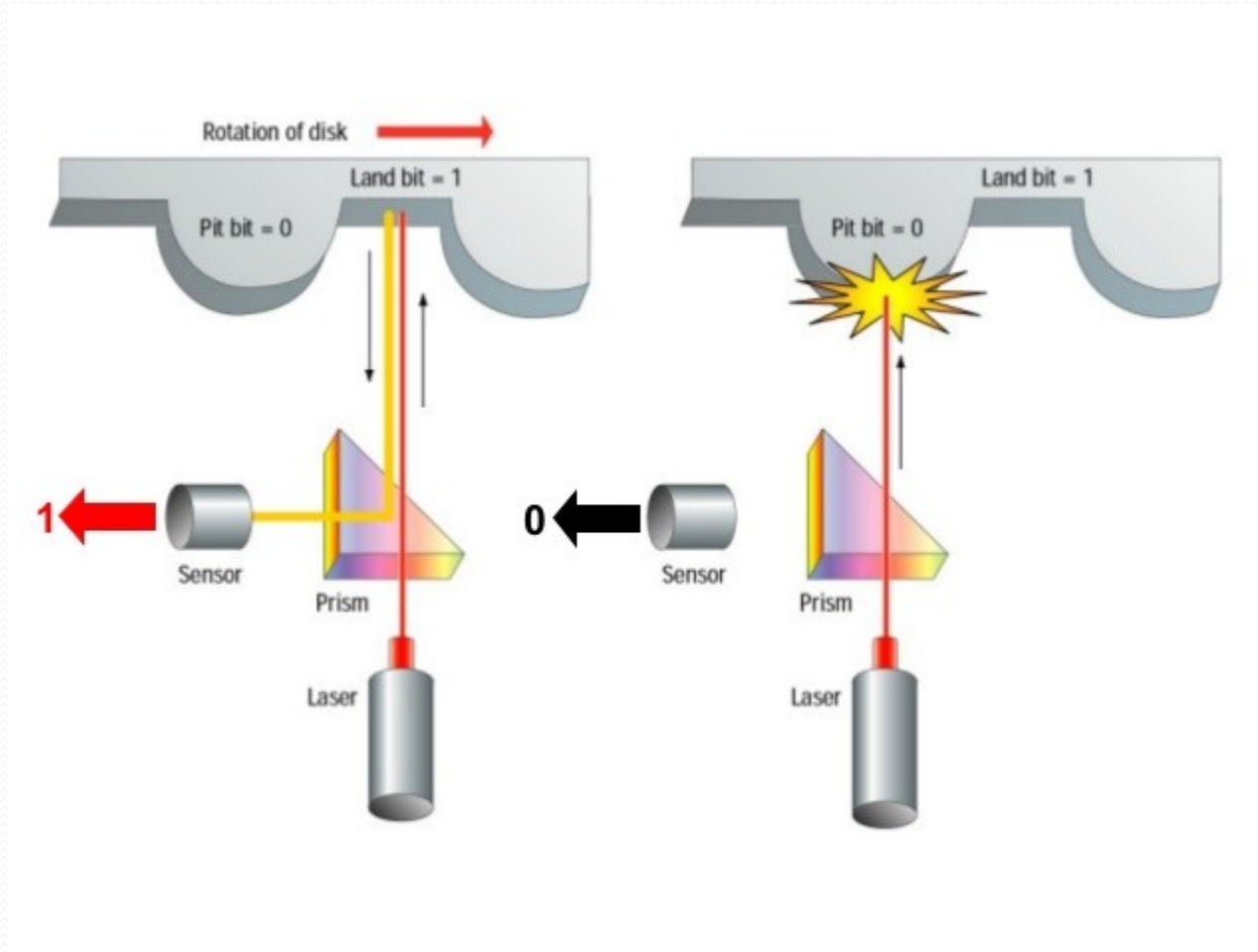
DVD
Capacity: 4.7 GB
Available from 1995

Blu-ray Disc
Capacity: 25 GB
Available from 2006

Structure of optical disc[cd]



Working of optical disc



Read/write technique

1. Single session- in single session we can write optical disc in single time

ex. CD-R WORM[write one read many]

2. Multi session- in multi session multiple time we can read or write the optical disc

ex- CD-WR WMRM[write many read many]

References

- https://en.wikipedia.org/wiki/Optical_disc
- <http://searchstorage.techtarget.com/definition/optical-disc>
- <https://www.clir.org/pubs/reports/pub121/sec3.html>
- <http://onlinehelp.avs4you.com/AVS-Disc-Creator/Introduction/DiscStructure.aspx>
- <https://www.pcmag.com/article2/0,2817,1820962,00.asp>