# Лекция № 12. Unit 11. Optical storage

## p. 52 ex. 2A

1. Optical discs can store data at much higher densities than magnetic disks. Furthermore, optical discs are not affected by magnetic fields, meaning that they are secure and stable, and can be transported through airport metal detectors without damaging the data. However, optical drives are slower than hard drives.
2. 17GB.
3. The DVD drive used in computers is also called a DVD burner because its records information by burning via a laser to a blank DVD disc. However, a DVD recorder typically refers to a standalone unit which resembles a video cassette recorder.
4. There are also portable DVD players - handheld devices which let you watch movies or TV, play games and listen to music, wherever you are. They come with a built-in DVD drive and widescreen (rectangular 16:9 format) LCD display. They usually support multi-format playback - that is, they can play many file formats, including DVD-video, DivX, CD audio discs, MP3 music and JPEG images.
5. High Definition-DVD (HD-DVD) and Blu-ray disc.
6. Blu-ray uses a blue­violet laser, hence its name.

### Ключевые термины из текста

|  |  |
| --- | --- |
| Word | Translation |
| Optical disc | Оптический диск |
| DVD, CD | DVD-, CD-диск |
| Laser beam | Лазерный луч |
| Track | Дорожка |
| Pit | Углубление |
| Double-sided | Двухсторонний |
| Dual layer | Двухслойный |
| DVD burner | DVD-рекордер |
| DVD recorder | DVD-рекордер |
| Portable DVD player | Портативный DVD-плеер |
| Multi-format playback | Многоформатное воспроизведение |

## p. 54 ex. 3A

|  |  |  |
| --- | --- | --- |
| Indicating addition | Making contrasts | Explaining the results or effects of something |
| furthermore, in addition | however, whereas | therefore, as a result |

## p. 54 ex. 3B

Furthermore — более того, кроме того, к тому же. In addition — в дополнение, кроме того, вдобавок.

However — однако, несмотря на, как бы. Whereas — в то время как, несмотря на то, хотя, а.

Therefore — следовательно, поэтому, по этой причине. As a result — в результате, в итоге, вследствие этого.

## p. 54 ex. 3C

1. **Although** CDs and DVDs are similar in size and shape, their data structure is very different.
2. DVDs hold more data than CDs. The pits burnt into the disc are smaller than on a CD, and the tracks are closer together. **As a result**, DVDs can have up to four recording layers.
3. A Blu-ray disc drive costs a lot of money **so** you should use it carefully.
4. Blu-ray is expected to replace DVD over the coming years **because** it offers much greater storage capacity.
5. Both Blu-ray **and** HD-DVD devices are backward-compatible with current CDs and DVDs, meaning you can play your old discs on the new players.
6. Sony has invested millions of dollars in the development of Blu-ray technology. The success of Blu-ray is **therefore** vital for the company's future.