

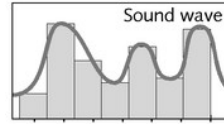
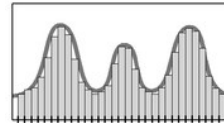
Chapter 11

What is multimedia?

How sound is recorded

Sample rate

Sound size



Cd= 44KHz at 16bit

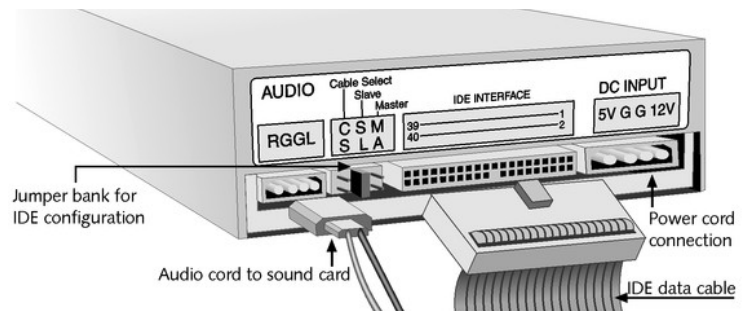
Multimedia formats

MPEG

MP3

Storage

CD



Connecting a CD

CD Speeds
CLV

CAV



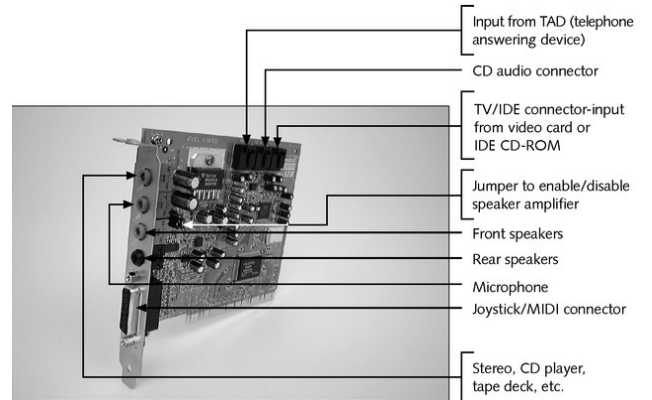
DVD-ROM

CDR, CDRW

DVD-R, DVD-RW, DVD+R, DVD+RW

Sound Cards

Connecting a sound card



Digital cameras

Sensor types, CCD vs CMOS

Because each pixel on a CMOS sensor has several transistors located next to it, the light sensitivity of a CMOS chip is lower. Many of the photons hitting the chip hit the transistors instead of the photodiode.

CMOS sensors traditionally consume little power. Implementing a sensor in CMOS yields a low-power sensor. CCDs, on the other hand, use a process that consumes lots of power. CCDs consume as much as 100 times more power than an equivalent CMOS sensor.

CMOS chips can be fabricated on just about any standard silicon production line, so they tend to be extremely inexpensive compared to CCD sensors.

CCD sensors have been mass produced for a longer period of time, so they are more mature. They tend to have higher quality pixels, and more of them.

Resolution:

Memory Card Technology:

Compact Flash

Smart Media

Sony Memory Stick

Secure Digital

XD memory

