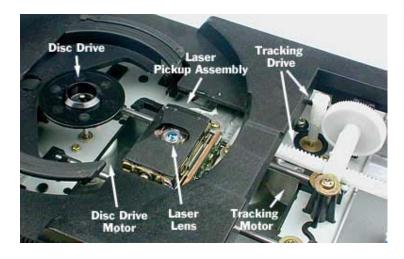
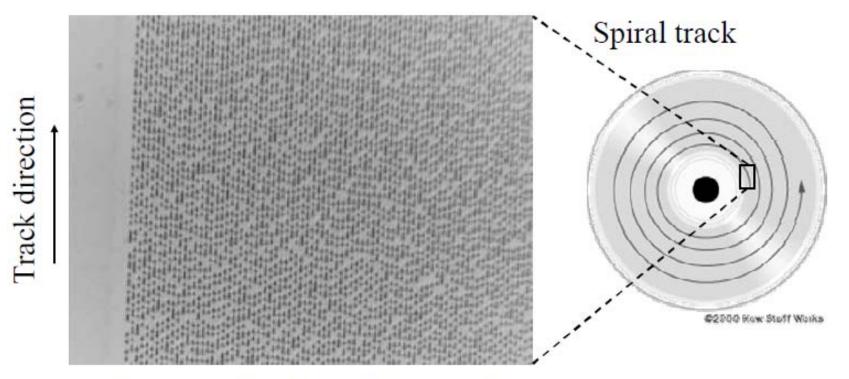
The CD Player

- uses refraction
- uses diffraction
- uses interference
- uses polarization



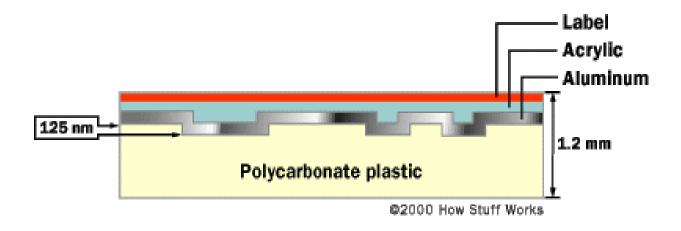


CD Under a Microscope



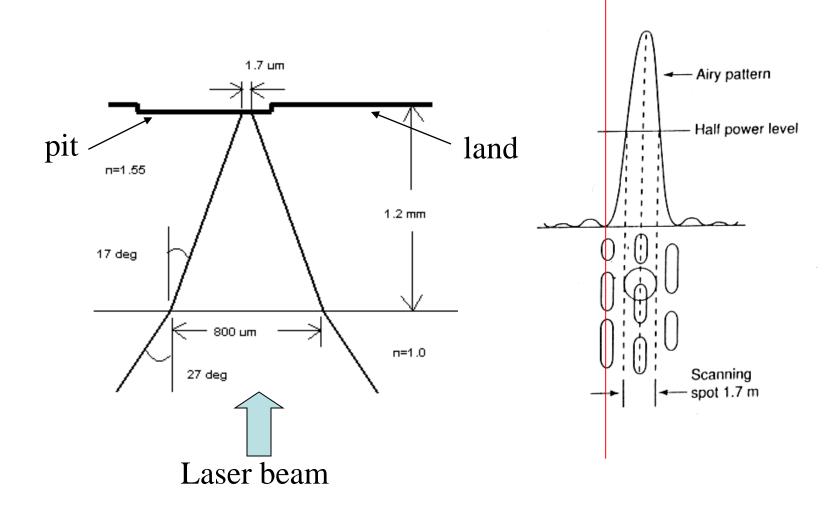
Low-magnification (×32) image of a CD showing an edge of the data zone.

Digital Encoding into Bumps

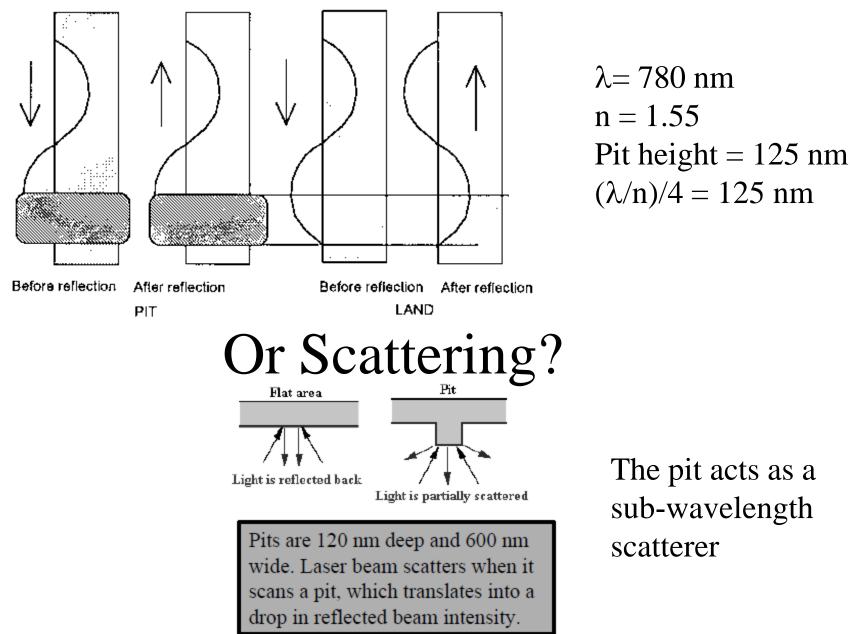




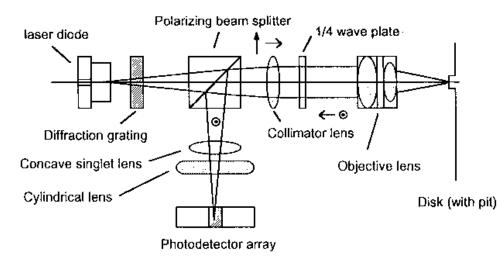
Refraction and Diffraction

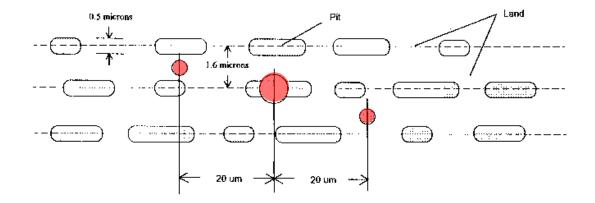


Readout: Interference

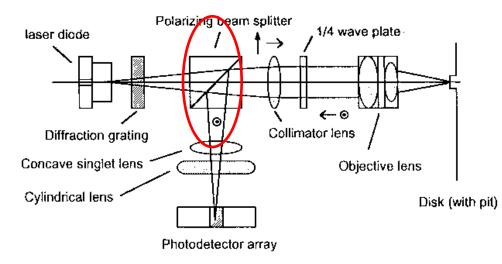


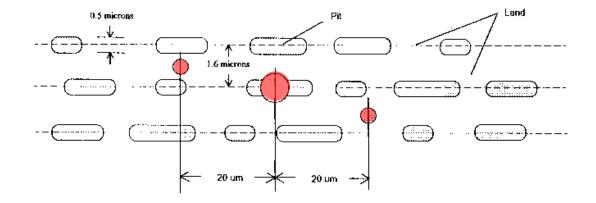
Tracking - uses diffraction



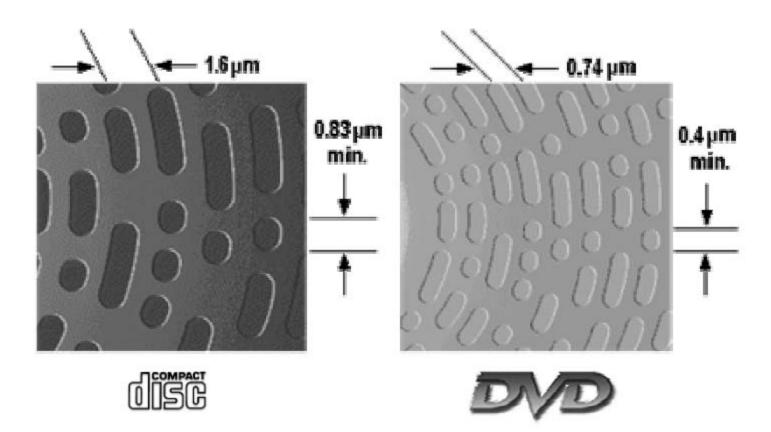


Tracking - uses polarization

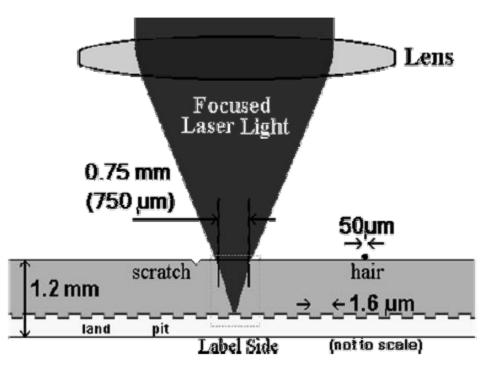




CD Versus DVD



Why Focus the Laser Light through the Substrate?



Optics of Readout





