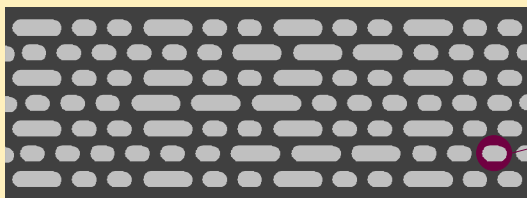


# LASER SPOT SIZE

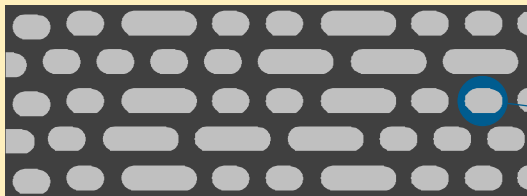
Shorter-wavelength lasers, such as blue and ultraviolet, reduce the distance between the tracks and the sizes of the pits on CDs, achieving greater storage density than red lasers. The Sony/Philips and Toshiba digital video disk formats each use a 635-nanometer red laser.

## Ultraviolet laser



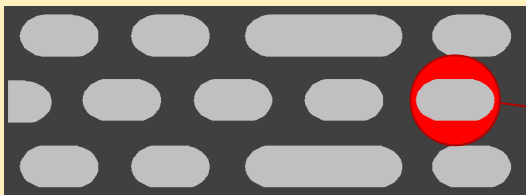
Wavelength:  
240 nanometers  
Diameter:  
0.65 microns

## Blue laser



Wavelength:  
450 nanometers  
Diameter:  
1.2 microns

## Red laser



Wavelength:  
780 nanometers  
Diameter:  
2.1 microns

Source: Boston University Center for Photonics Research.