

# Chirped Mirror



## Features

- A femtosecond pulse laser beam will spread and become chirped, and the peak intensity becomes small when transmitting the pulse through optical components.
- Light reflected from the deeper layers of the mirror travels longer distance than the light that reflects off the surface layers. And different wavelengths arrive dispersed in time.
- Precise coating process of IBS or IAD may achieve high performance mirror.

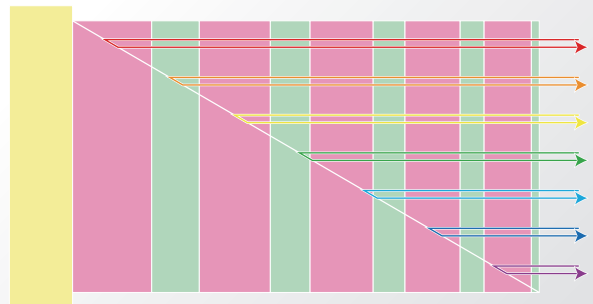
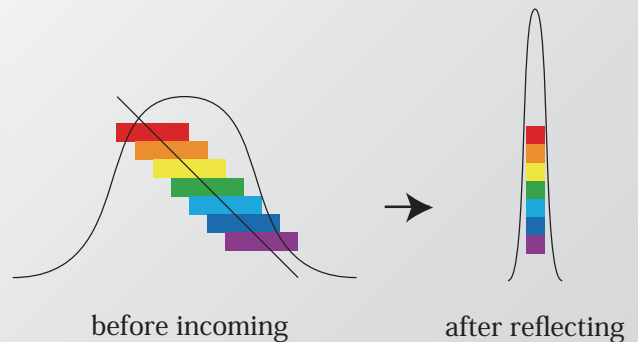


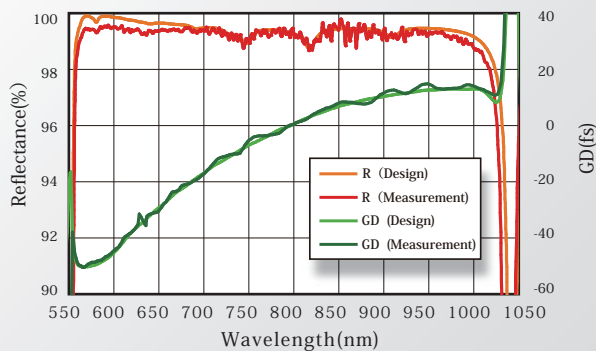
Image of dispersion compensation by chirped mirror



before incoming

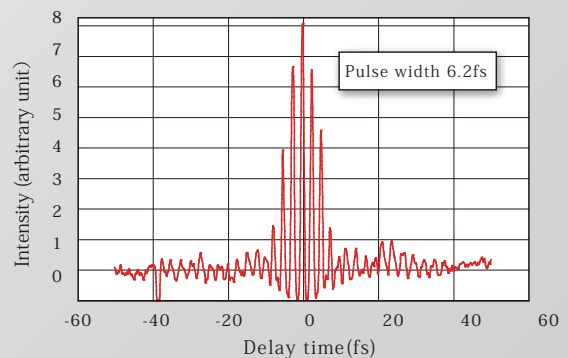
after reflecting

## Spectral property (a pair of 2 mirrors)



GD:Group Delay ~ staytime in mirror

## Autocorrelation



Measured by Hishikawa lab @ IMS, JAPAN

