

Opto – Electronic Application

The technology utilizes organic thin film elements, which are used in frequency doubling, converting red laser light into green laser light. Frequency doubling by organic opto-electronic film has been available on the market for several years and is being used in several applications relating to optical disk storage and lighting, among others. With this technique, the 1064-nm output or the 800-nm output (red) from lasers can be converted to visible light, with wavelengths of 532 nm (green) or 400 nm (violet), respectively. With frequency doubling, also known as Second Harmonic Generation, we can increase the amount of data stored on a device from red to green frequency.

This technology is focused on the organic thin film utilized by the lasers to perform the frequency doubling operation by working on green light technology,

Major Application / End Users

- Optical disk storage.
- Any industry using CRT screens, watches, scanners, readers etc