

Abstract

5 The invention relates to three-dimensional optical memory
devices and can be used in all areas of computing in which it
is necessary to record large data files on compact carriers,
and also for recording, erasing and reading video data, for
example, in independent video viewing systems. The device
10 comprises an optical disc positioning system, a source of
radiation with two different wavelengths that is optically
coupled to a focusing system, focusing system positioning
means, and an optical sensor that is optically coupled to the
focusing system via a spectrum splitter and an adjustable
15 spectrum selector situated between the source of radiation
with two different wavelengths and the spectrum splitter,
wherein the focusing system is designed with longitudinal
chromatic aberration at the given wavelengths.