

Abstract

The present invention makes it possible to use an optical pickup in common with conventional optical disks. In a three-dimensional mark recording layer (111v) of a voluminal medium (100v), information is recorded by forming a three-dimensional record mark (RM) in the vicinity of the focus (Fb) of a blue light beam (Lb) according to the blue light beam (Lb) that is concentrated and has a light intensity equal to or larger than a predetermined intensity. The information is reproduced from the three-dimensional mark recording layer (111v) on the basis of a reproducing blue light beam (Lbr) deriving from irradiation of the blue light beam (Lb). A servo layer (114v) of the voluminal medium (100v) reflects at least part of the red light beam (Lr) which is irradiated in order to square the position of the blue light beam (Lb) in the three-dimensional mark recording layer (111v) with an arbitrary target mark position and whose wavelength is different from that of the blue light beam (Lb). The servo layer (114v) is separated by approximately 0.6 mm in the light-axis (Lx) direction of the red light beam (Lr) from the incident surface (100vA) to which the red light beam (Lr) is routed.