

ABSTRACT

The present invention relates to the technical field of holographic multiplexing storage, and in particular, to a multiplexing method for increasing storage capacity in a disc-type holographic storage medium. According to the method disclosed by the present invention, holograms with different grating vector directions can be overwritten and recorded in the same storage medium according to Bragg selection characteristics of volume holographic records, and the obtained holograms do not affect each other.

According to the method disclosed by the present invention, on the premise of ensuring low crosstalk between data pages, the multiplexing number of shift multiplexing storage is increased by using a cross-shift multiplexing method, and the storage density is improved.

[Fig. 5]