ABSTRACT

The present invention has an objective of providing an optical disk having a high resolution picture and a system for reproducing data on the optical disk, which are compatible with a conventional system for reproducing an ordinary resolution picture. A high resolution signal is divided into a main signal and a sub signal by picture division means and MPEG-encoded. The main signal and the sub signal are divided into frames each having 1 GOP or more. The resultant first interleave block 54 and second interleave block 55 are recorded alternately on an optical disk. A high resolution reproduction apparatus reproduced both the first and second interleave blocks, so that a high resolution picture is obtained. A non-high resolution reproduction apparatus reproduces only the first or second interleave block, so that an ordinary resolution picture.