ABSTRACT OF THE DISCLOSURE

In a magnetic disk storage system employing a dual element head having a write element and a read element separately provided therein, for the purpose of correcting both the arrangement error in lithography process in manufacturing the write element and the read element, and errors of the positional offset between the write element and the read element, and the track due to inclination of a slider when carrying out the positioning using a rotary actuator, address information dedicated to the write operation is provided in an ID region, address information dedicated to the read operation is provided together with user data in a data region, and the ID region is arranged so as to be offset from the data region in a direction perpendicular to the track by the amount corresponding to a distance of the positional offset between the write element and the read element of the dual element head, whereby since the accurate processing can be executed by obtaining the probability of reading sufficiently the address information in the write/read operation, the magnetic disk storage system can be readily designed in which the track density is increased, and also promotion of the high performance of the magnetic disk storage system can be realized.

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