ABSTRACT

APPARATUS AND METHOD FOR MEASURING FOCUSING CHARACTERISTICS OF OPTICAL PICKUP AND/OR OPTICAL DISC AND APPARATUS AND METHOD FOR RECORDING AND/OR REPRODUCING OPTICAL DISC

A device for measuring focusing characteristics of an optical pickup and/or an optical disc capable of measuring characteristics of focusing states with high accuracy by a simplified circuit. An arithmetic-logic unit 12d controls an offset supplying circuit 23 for applying an offset voltage to a focusing servo control signal. This arithmetic-logic unit 12d detects an error rate of the playback data in such a state in which the focusing position of the laser light is deviated by a pre-set offset amount. The arithmetic-logic unit 12d sequentially varies the offset voltage to repeat the above processing for detecting the error rate. The arithmetic-logic unit 12d approximates the relationship of the error rate to the offset amount by a quadratic curve based on detected data. The offset amount which minimizes the error rate is found from this equation of approximation.

Figure 1