

INFORMATION RECORDING DEVICE AND

INFORMATION RECORDING METHOD

ABSTRACT OF THE DISCLOSURE

An optimum performance is achieved relative to write-once type optical recording mediums on which information is recorded by means of a blue-violet semiconductor laser. An optical disc recording/reproduction apparatus 10 comprises an LD control section 17 adapted to control the irradiation power of a laser when writing data. If the cycle of the channel clock is T , when forming a recording mark having a length of $n \times T$ (n being an integer not smaller than 2), a pulse beam is irradiated onto the write-once type information recording medium for $n/2$ times (decimals, if any, being to be rounded down). When forming a recording mark having a length of not smaller than $6T$ and even number times of T , a pulse beam is irradiated for $n/2$ times with all the intermediate pulse beams synchronized with the phase of the channel clock except the leading pulse beam and the tail end pulse beam. When forming a recording mark having a length of not smaller than $6T$ and odd number times of T , a pulse beam is irradiated with all the intermediate pulse beams delayed from the phase of the channel clock by $T/2$ except the leading pulse beam and the tail end pulse beam.

FIG. 1