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ABSTRACT

An optical integrated element according to the present invention is one that comprises a laser diode which radiates laser light toward two directions, a current mirror circuit which controls an emission output of the laser diode to be constant, a monitor photo diode which detects the emission output of one of the irradiation lights from the laser diode, a signal photo diode which detects a light which is produced by that the other irradiation light from the laser diode is incident to an information medium and is reflected, a current/voltage amplifier which converts a current detecting signal outputted from the signal photo diode into a voltage and amplifies it and an electric stray light cancel circuit which generates a cancel signal possessing a non-linear correlation characteristic against an output of the monitor photo and adds or subtracts the cancel signal to/from the output of the signal photo diode.

Thereby, it is possible to remove the DC error component occurred by stray current which is generated from the monitor photo diode and follows into the output of the signal photo diode.