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ABSTRACT

An optical integrated element¹⁾ according to the present invention is one that comprises a laser diode²⁾ which radiates laser light toward two directions, a current mirror circuit¹⁴⁾ which controls an emission output of the laser diode²⁾ to be constant, a monitor photo diode⁹⁾ which detects the emission output of one of the irradiation lights from the laser diode²⁾, a signal photo diode⁷⁾ which detects a light which is produced by that the other irradiation light from the laser diode²⁾ is incident to an information medium⁴⁾ and is reflected, a current/voltage amplifier⁸⁾ which converts a current detecting signal outputted from the signal photo diode⁷⁾ 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 diode⁹⁾ and follows into the output of the signal photo diode⁷⁾.