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# **On-chip Automatic Exposure Control Technique**





4 Author(s) Lu, M.; University of Edinburgh, Department of Electrical Engineering, Mayfield Road, Edinburgh, EH9 3JL, UK. Tel. 31 650 5661 Fax. 31 662 4358; Wang, G.; Renshaw, D.; Denyer, P.B.

**Abstract Authors** References Cited By Metrics Similar Keywords

> This paper introduces techniques for the electronic variation & automatical control of exposure in solid-state image sensors. A novel electronic aperture and a simple exposure controller are described, which have been integrated on chip with a CMOS image sensor array. The technique can achieve a wide range exposure control of 40,000:1. This is equivalent to 15 stops of a mechanical iris system.

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