Title (en)

**IMAGE SENSOR DEVICE** 

Title (de

BILDSENSOREINRICHTUNG

Title (fr)

DISPOSITIF CAPTEUR D'IMAGES

Publication

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Application

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Abstract (en)

[origin: WO0052759A1] The invention relates to an image sensor device consisting of a semiconducting carrier (substrate) (1) which is especially embodied by means of CMOS technique. An arrangement of image elements is embodied on the carrier. A photosensitive detecting means (4), means for converting a detected photo signal into an electrical signal in a photoelectrical manner and electrical storing means (3) for storing the electrical signal are allocated to each image element (pixel). A storage control device (2) is provided for image-specific storing and reading out the electrical signals in a controlled manner. The aim of the invention is to improve an image sensor in such a way that the area of the chip is used more efficiently and that high-speed cameras can be used. To this end, the storage control device (2) is designed in such a way that signals which are detected one after the other and which have been converted in a photoelectric manner can be stored in different storing means (3) in the pixel and that said signals can be read-out of said storing means (3) at predetermined time.

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