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the CMOS/APS imager sensors or smart retinas (known as intelligent sensors) as a finite state machine (FSM) giving instruction to an SMD device. Such microprocessors support various operating systems and communication drivers. This suggests that it should be possible to associate a CMOS Retina with a low cost micro processor or a micro-

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Cmos Image Sensor Versus Retina CMOS Image Sensor versus Retina Experience A. Elouardi, S. Bouaziz, A. Dupret, L. Lacassagne, J.O. Klein, R. Reynaud Institut d' É lectronique Fondamentale, Orsay, France, elouardi@ief.u-psud.fr Abstract This paper presents a comparison relating two different architectures dedicated for a vision system on chip. The ...

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implements a logarithmic APS (active pixel sensor) imager and a microprocessor. The second involves the same microprocessor with a CMOS arti fi cial retina that implements hardware operators and analogue microprocessors. We have designed two vision systems. The comparison is related to image processing time. 2. Review of integrated operators on smart sensors

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## Cmos Image Sensor Versus Retina Experience

CCD Sensors Have One Readout In Corner, CMOS Sensors Have

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Readout at Each Pixel. By incorporating all these electronics into the sensor, the chip itself is made much more complex, but the camera is greatly simplified. CCD sensors only have one, two, or sometimes four readouts – potentially one in each corner. CMOS sensors have thousands.

## CCD versus CMOS: Which is Better? - Astronomy & Scientific ...

The human retina has a total of about 63 million light sensors in an area of 1204 mm<sup>2</sup>. That means that the total light sensor density of the human eye is around 52,571.4/mm<sup>2</sup>. The total light sensor density of the CMOS sensor of the Blackmagic Production Camera 4K is just over 33,057.8/mm<sup>2</sup>. That means the human retina has around 1.6 times more light sensors per square millimeter than the cinema camera 's CMOS sensor.

## Light Sensor Examination and Comparison Study of the Human ...

An active-pixel sensor (APS) is an image sensor where each pixel sensor unit cell has a photodetector (typically a pinned photodiode) and one or more active transistors. In a metal – oxide – semiconductor (MOS) active-pixel sensor, MOS field-effect transistors (MOSFETs) are used as amplifiers. There are different types of APS, including the early NMOS APS and the much more common complementary ...

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