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High Speed High Sensitivity Cmos

HCU stands for high-speed CMOS un-buffered. This type of CMOS contains no buffer and is ideal for crystals and other ceramic oscillators needing linearity. VHCMOS, or AHC, stands for very high-speed CMOS or advanced high-speed CMOS. Typical propagation delay time is between 3 ns and 4 ns.

HCMOS - Wikipedia

Our Line Of High Speed CMOS Video Cameras Imperx CMOS cameras help customers capture vital production, performance, surveillance, and scientific information worldwide. The Imperx Cheetah CMOS camera series provides customers with the quality, versatility, and rugged durability needed to meet their most complex and demanding requirements.

CMOS Cameras | High Speed & Resolution

Abstract This paper presents a high-sensitivity high-speed dynamic voltage comparator, which is a key component for low power CMOS mixed signal applications. The proposed dynamic comparator employs ten transistors with only one cross-coupled latch to reduce the circuit complexity.

High-sensitivity high-speed dynamic comparator with ...

A High-Speed, High-Sensitivity Digital CMOS Image Sensor With a Global Shutter and 12-bit Column-Parallel Cyclic A/D Converters Abstract: This paper presents a high-speed, high-sensitivity 512times512 CMOS image sensor with column parallel cyclic 12-bit ADCs and a global electronic shutter.

A High-Speed, High-Sensitivity Digital CMOS Image Sensor ...

Abstract This paper presents a high-speed, high-sensitivity 512times512 CMOS image sensor with column parallel cyclic 12-bit ADCs and a global electronic shutter.

(PDF) A High-Speed, High-Sensitivity Digital CMOS Image ...

High-speed transient image sensors with frame rates as high as 10 M-frames/s, combined with 13-bit resolution, has been achieved using on-focal-plane frame storage. Fabricated in a standard digital 0.35 micrometer digital CMOS technology, the latter device includes a photodetector, a charge-integrating amplifier and an array of 64 sample circuits per pixel.

High-speed high-sensitivity low-noise scientific CMOS ...

High Speed Image Capture in 5 Megapixel Resolution. With an electronic shutter and all pixel progressive readout of 120 fps, the Canon 3U5MGXSBA 5 MP CMOS sensor offers fast, distortion free image capture. In a 2/3" format, proprietary pixel designs with low power consumption and enhanced sensitivity further improve performance.

5 Megapixel High Speed CMOS Sensor | Canon USA

This high speed 10 bit CMOS camera system comprises advanced CMOS and electronics technology. With the new approach to integrate the image memory (camRAM) into the camera itself, it enables unmatched fast image recording with 1GB/s. The system features an excellent resolution (1280 x 1024 pixel) and low noise.

pco.1200 high speed 10bit CMOS camera | High Speed/High ...

8K and 16K Monochrome / HDR CMOS TDI Camera Key Features • High speed: up to 300 kHz • High sensitivity • High dynamic range (HDR) • Up to 100 m optical cable length

Advanced High-Speed, High-Sensitivity TDI Camera

AM41 is high sensitivity high speed CMOS sensor. 4-Megapixel . 4/3" optical size. High sensitivity 9V/Lux-s. 500+ Frames/s. AM41 Data Sheet is here. For those, who want to save time. building their own camera, Alexima. offers the Sensor Board.

CMOS Image Sensor Company

High-speed CMOS image sensors are available in several types for a variety of markets, for use in general purpose, high end or custom high-speed cameras. Such cameras can be used for applications like scientific research, crash tests, high-speed scanning, machine vision and military research; all requiring high frame rate motion capturing.

High-speed CMOS image sensors | EE Times

CCD and CMOS sensors are sensitive to wavelengths from approximately 350 - 1050nm, although the range is usually given from 400 - 1000nm. This sensitivity is indicated by the sensor's spectral response curve (Figure 8). Most high-quality cameras provide an infrared (IR) cut-off filter for imaging specifically in the visible spectrum.

Imaging Electronics 101: Understanding Camera Sensors for ...

New high-speed and high-sensitivity Linea HS TDI camera for vision applications WATERLOO, Canada - May 14, 2019 - Teledyne DALSA, a Teledyne Technologies company and global leader in machine vision technology, is pleased to announce that its newest charge-domain CMOS TDI camera-the Linea HS-is in volume production.

New high-speed and high-sensitivity Linea HS TDI camera ...

Since it is used CMOS technology, the lower power consumption of sensor does not require cooling system as other high sensitivity image sensor technologies (ex, EMCCD, sCMOS) are required. The vertical windowing function is able to make frame rate faster for reduced image area. Download brochures here. BT130C_ver2a.pdf.

Making the invisible Visible | Super High Sensitivity

High Speed - High Sensitivity - High Definition: USB 3.0 or GIGE 1280x720 Color Camera at 85 FPS. High definition (1280x720) at 60FPS, or up to 160FPS high speed video capture at lower resolutions! Low-lux color sensor for indoor work. USB3.0 or GIGE interface.

Extreme Speed - High Sensitivity - Medium Definition: USB ...

A monolithic bipolar CMOS electronic plasmonic high-speed transmitter We have developed a monolithic platform for plasmonics and electronics that enables highest-speed communication on an...

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Related Publications. S. Saeedi, S. Menezo, G. Pares, A. Emami, "A 25Gb/s 3D-Integrated CMOS/Silicon-Photonic Receiver for Low-Power High-Sensitivity Optical Communication," IEEE Journal of Lightwave Technology, 2015. [PDF] S. Saeedi, S. Menezo and A. Emami, "A 25Gbps 3D-

Integrated CMOS/Silicon Photonic Optical Receiver with -15dBm Sensitivity and 0.17pJ/bit Energy Efficiency", IEEE ...

MICS Lab | 3D-Integrated High-sensitivity Optical Receiver

Photron's proprietary CMOS image sensor technology, the FASTCAM SA-Z combines high recording rates with outstanding light sensitivity and excellent image quality to provide the most versatile ultra-high speed digital camera available today. The ultra-high speed FASTCAM SA-Z provides megapixel image resolution at frame rates up to 21,000 frames

High performance high-speed camera system

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CMOS, 330 MHz Triple 8-Bit High Speed Video DAC Data Sheet ...

High Speed CMOS Design Styles is written for the graduate-level student or practicing engineer who is primarily interested in circuit design. It is intended to provide practical reference, or `horse-s

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