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Design

The IMX472 appears to be the

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first stacked CMOS sensor for Four Thirds-sized cameras and promises up to 120 fps shooting of 12-bit stills.

Sony reveals 21MP Four  
Thirds stacked CMOS sensor

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capable of 120 fps full-  
width readout

while the 4 Mpixel GJ00422  
employs a 2.2  $\mu\text{m}$  pixel and  
provides 0.27 e- read noise  
with single-exposure high  
dynamic range of 100 dB.

CMOS-based Quanta image



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sensor products use patented  
sensor ...

CMOS image sensor detects  
individual light photons

All pixels on a column  
connect to a common sense  
amplifier. In addition to

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their lower power consumption when compared with CCDs, CMOS image sensors are generally of a much simpler design; often just ...

CMOS Image Sensors

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Silicon pixel detectors for particle tracking have blossomed into a vast array of beautiful creations that have driven numerous discoveries, with no signs of the advances slowing

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Tracking the rise of pixel  
detectors

Chips&Media's Camera ISP IP  
- METIS (hereafter will be  
referred as METIS ISP) is  
Image Signal Processing (ISP)

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... Today most common single-chip cameras use CMOS sensors with pixels arranged in Bayer ...

Camera cmos image sensor  
interface IP Listing

On top of this, Samsung

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claims that, since the sensor is so small, it could reduce camera module height by 10%, which helps reduce the camera's bulge in a smartphone, allowing for a slimmer and ...

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Creating a “Super Pixel”:  
Samsung Claims Industry’s  
Smallest Mobile Image Sensor

The Linea Lite line scan cameras, based on a proprietary CMOS image sensor, are available in 2k and 4k resolutions. The

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Linea Lite line scan cameras, based on a proprietary CMOS image sensor, are ...

Line scan cameras offer 7  $\mu\text{m}$   
or 14  $\mu\text{m}$  pixels

Built using their



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proprietary Eye-On-Si CMOS imaging technology, the 1600 x 1200 pixel Sapphire CMOS image sensor is Teledyne ... The novel pixel design offers superior operation in low-light ...

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## The Sapphire Family CMOS Image Sensor

Of the two sensors, the OH08A and OH08B CMOS image sensors ... The medical-grade OH08A image sensor features a 1/2.5-inch optical format, incorporates

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1.4 $\mu$ m PureCel Plus-S pixel technology and offers ...

First 8 megapixel medical-grade image sensors for endoscopes

The Extended MIPI CSI2  
Serial Video Receiver IP

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core is designed to support those trends, and, at the same time, work with a relatively slow clock rate, processing several pixels per clock. ... Latest ...

Cmos image sensor w 12 bit

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column parallel a/d  
converter IP Listing

As part of our ongoing series of executive interviews at major camera and lens companies, we talked recently with Go Tokura, Chief Executive of

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the Image Communication  
Business Operations at  
Canon.

Canon interview:

'Development of compact  
devices supporting 8K is a  
very high priority'

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To take high-quality photographs, CMOS image sensors need ... image sensor design for superior image quality. With the introduction of ISOCELL Plus, Samsung pushes pixel isolation technology ...

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Samsung Brings Enhanced  
Color Accuracy and Sharpness  
to Mobile Photos With New  
ISOCELL Plus Technology

The move to CMOS image  
sensors was a key to this  
evolution ... ="span" data-



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embed-size="640w" data-embed-  
alt="2. Sensor design and  
pixel/calculation unit  
layout." data-embed-  
src="https ...

The Evolution of  
Polarization—Why Resolution

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is Now Too Simplistic a  
Metric

Like any Moore's Law-  
inspired race, the megapixel  
race in digital cameras in  
the late 1990s and into the  
2000s was a harsh  
battleground for every

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Manufacturer. With the  
development of the ...

## The Megapixel Race And Its Clear Winner

The new Sony IMX586 chip is  
a stacked CMOS image sensor  
for smartphones ... meaning

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adjacent  $2 \times 2$  pixels come in the same color, “making high-sensitivity shooting possible”.

48MP Sony IMX586 imaging sensor announced

The higher resolution and

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smaller pixel size of the sensor area make inspection of CMOS Image Sensors very challenging. Camtek's latest model, Eagle T+, is equipped with cutting-edge technologies ...

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Camtek Receives an Order of  
\$10 million for Multiple  
Systems from a Leading CMOS  
Image Sensor Manufacturer

Tetra sensors are available  
in a 2k resolution with a 14  
 $\mu\text{m}$  x 14  $\mu\text{m}$  pixel size, or 4k  
resolution with a 7  $\mu\text{m}$  x 7

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$\mu\text{m}$  pixel size at a max line rate of 128kHz aggregate.

Teledyne e2v announces low-cost, high-performance quad linear CMOS sensor family

In summary, the increasing adoption of machine vision

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provides a great opportunity for emerging image sensing technologies that offer capabilities beyond conventional CMOS sensors. This report ...

IDTechEx Discusses Expansion



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Accelerating Adoption of  
Emerging Image Sensor  
Technologies

But the big news is that  
this full-frame sensor will  
have a 'stacked' design,  
like the chip seen ...

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camera will have 'next-generation' Dual Pixel CMOS AF that can track your subjects' eyes ...

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