

Fourth generation of Sony CMOS sensors - uEye SE sets new standards with Pregius S

Customers can now request prototypes of the new uEye SE cameras

What a combination! We integrate the high-performance, extremely high-resolution sensor IMX541 from the Pregius S series into our versatile uEye SE camera family. The large-format 1.1" CMOS sensor enables outstanding 20.35 MP and will soon be available both as board-level camera versions and as models with housing.



Pregius S - the fourth generation of extremely powerful CMOS image sensors from Sony - makes BSI ("Back Side Illuminated") technology available for the first time in global shutter sensors. The advantages include a smaller pixel size (only 2.74 μm - thus enabling significantly higher pixel density), higher resolution and also improved quantum efficiency and sensitivity. The new camera models hence deliver outstanding image quality that leaves nothing to be desired even in demanding machine vision applications such as surface inspections, detailed image evaluation in medical technology or use in the traffic sector.

The compact industrial cameras are therefore also a sensible alternative to cameras with similar high-resolution but large-format sensors, for which F-mount lenses are usually required. With the uEye SE models, C-mount lenses can be used - which means considerable cost savings. Thanks to the USB3 Vision interface, the cameras are also uncompromisingly Vision Standard-compliant and can therefore be used conveniently with our SDK IDS peak, for example.

→ [To the cameras](#)

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