

MAKING THE INVISIBLE VISIBLE

-with ace 2 X UV Area Scan Cameras

Getting to the fine details in a flash

UV cameras allow a clearer look at tiny details that are invisible to our naked eye. Whether you're inspecting semiconductor patterns or fine scratches on battery films, sorting transparent materials, or delving into bio-imaging, Basler's ace 2 X UV cameras offer new possibilities for you.



Highlights:

- Interface variety: GigE, USB 3.0 and 5GigE
- High-sensitivity: equipped with Sony IMX487 sensor (Pregius S, BSI)
- With unique Beyond camera features for maximum performance
- Compact in size: 29 mm x 29 mm
- Easy Integration: all components you need in one place, plus easy-to-use pylon software

Cameras: ace 2 X UV

Available in Q1/2024

CAMERA MODEL	SENSOR	RESOLUTION [H×VPIXELS]	RESOLUTION [MP]	WAVELENGTH RANGE*	FRAME RATE [FPS]	INTERFACE	PIXEL SIZE [μm ²]	OPTICAL SIZE
! a2A2840-48umUV	IMX487	2840 x 2840	8.1	0.2- 0.4 μm	48	USB 3.0	2.74 x 2.74	2/3"
! a2A2840-14gmUV	IMX487	2840 x 2840	8.1	0.2- 0.4 μm	14	GigE, PoE	2.74 x 2.74	2/3"
! a2A2840-67g5mUV	IMX487	2840 x 2840	8.1	0.2- 0.4 μm	67	5GigE	2.74 x 2.74	2/3"

*Recommended wavelength. This camera/sensor can capture images in the range of 0.2- 1.0 μm.

Get all you need for a UV vision system in one stop



Lighting



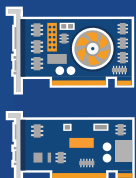
Filter



Lens



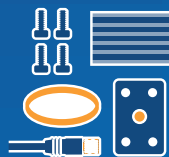
Camera



Acquisition Cards



PC



Additional Hardware



Software



! Preliminary launch. No product information available on baslerweb.com yet.

What is (UV)?



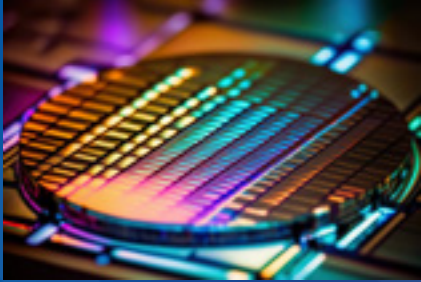
Basler ace 2 X UV cameras are designed and intended to operate in the UV range, though it is capable of imaging in the visible range.



The UV region covers the wavelength range 10 and 400nm. In industrial imaging applications, the range of 290 to 400nm is most commonly used.

What can a UV camera do?

Surface inspection



Bio-Imaging



Security Feature Detection



Material Sorting

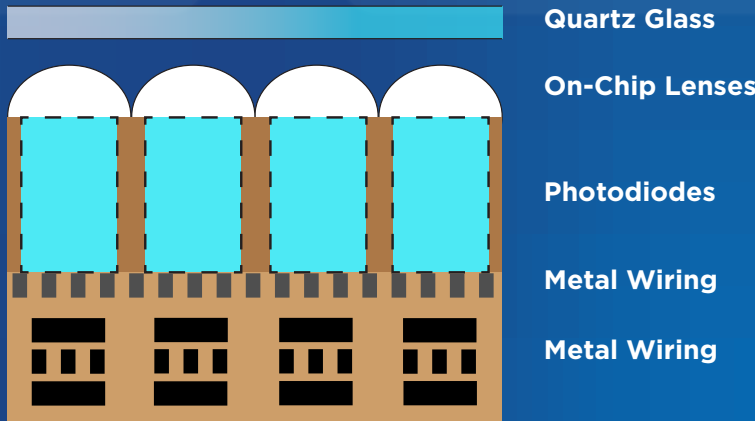


Designed for UV Imaging

The new Sony IMX487 UV sensor is designed to be highly-sensitive to the UV range.

At the front end, considerations are taken for every layer of materials along the optical path: first a layer of quartz glass for exceptional transparency in the UV range; then the light will hit on a layer of UV-transmissive on-chip lens before reaching the UV-sensing photodiode.

At the back end, the global shutter CMOS sensor utilizes Pregius S back-illuminated pixel structure that puts the wiring layer behind the photodiode for increased sensitivity.



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