xiRAY
X-ray CCD and sCMOS cameras
xiRAY cameras for extraordinary x-ray imaging

See the invisible

Facts
- 8.1 - 15.8 Mpix large area sensors
- Fiber optic coupled phosphor screen
- Sensitive phosphor screens with excellent optical conversion
- Ultra-low readout noise
- Active TEC cooling for thermal noise reduction
- 14 bits per pixel A/D conversion (CCD) or sCMOS image quality
- Partial readout and binning modes for enhanced sensitivity and frame rates

Features
- CCD and sCMOS sensor technology for highest image quality & sensitivity
- Compact camera with full frame sensors with field of view up to 36 x 24 mm
- Fiber optic plate bonded directly to a sensor
- Faceplate scintillators P43 Gd2O2S:Tb or custom options
- Energy range 5 keV - 100 keV
- Low power consumption
- Ultra-precision, aluminum alloy, CNC milled housing
Small and compact
The xiRay cameras use an 11 or 16 MPixel sensor, bonded to a 5 mm fiber-optic plate, coupled to a scintillator sensitive to 5 to 100 keV x-rays. This makes this camera the ultimate camera for micro-tomography, medical applications and inspection such as homeland security, manufacturing and other demanding applications.

Easy to integrate
xiRay cameras are easy to deploy and replace with a 5 mm fiber plate that will help protect the sensor from damaging x-rays. When replacement becomes necessary, the robustness and compact build of the cameras allow a quick and easy exchange of the entire camera head.

Optimized for highest image quality and sensitivity
The use of ultra-low noise CCD technology, coupled with moderate cooling, provides superior sensitivity and image quality. All built into a full metal housing that guarantees stability and longevity.

Customizable
We will configure and build xiRay cameras exactly for your specific application requirements. The option set includes other sensors, interfaces, scintillators and housing designs.

Cooled USB3.1 Gen1 cameras

![Cooled USB3.1 Gen1 cameras](image)

Supported operating systems

| Windows | macOS | Linux |

Language support

| C | C+ | C# | python™ |

Standards

| GENiCAM TRANSPORT LAYER | USB VISION | MATLAB |

Supported vision libraries

| HALCON a product of MV Tec | OpenCV | and many more ... |
Sensors and models

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<td>OnSemi KA08052</td>
<td>3230 x 2472 8.1 Mpix</td>
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Notes
1. Measurements are valid if additional components are used, such as a power injector. For lower cooling temperatures please inquire with our sales teams.
2. The production of the OnSemi CCD sensors has been discontinued. Therefore we only have few cameras left in stock. If you are looking for alternatives or have any further questions, please contact our sales team.

Further information
Please visit us at [www.ximea.com](http://www.ximea.com) for complete and up-to-date specifications. Get in touch with our teams at sales@ximea.com. We will be glad to assist!