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.
# Sensors and models

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>MJ081XC-TS-TC</td>
<td>x-ray OnSemi KAI08052</td>
<td>3206 x 2472 8.1 Mpix</td>
<td>5.5</td>
<td>16</td>
<td>66</td>
<td>25</td>
<td>8.5</td>
<td>18.1 x 13.6</td>
<td>5.3</td>
<td>-10</td>
<td>USB3.1</td>
</tr>
<tr>
<td>MJ081XC-TS-TP1:1.25</td>
<td>x-ray OnSemi KAI08052</td>
<td>3206 x 2472 8.1 Mpix</td>
<td>5.5</td>
<td>16</td>
<td>66</td>
<td>25</td>
<td>8.5</td>
<td>18.1 x 13.6</td>
<td>5.3</td>
<td>-10</td>
<td>USB3.1</td>
</tr>
<tr>
<td>MJ150XR-GP</td>
<td>x-ray GPixel GSENSE5130</td>
<td>5066 x 3968 15 Mpix</td>
<td>4.25</td>
<td>2 x 12</td>
<td>77 HDR</td>
<td>18</td>
<td>1.6</td>
<td>21.5 x 16.6</td>
<td>17</td>
<td>-10</td>
<td>USB3.1</td>
</tr>
<tr>
<td>MJ150XR-GP-TP2:1</td>
<td>x-ray GPixel GSENSE5130</td>
<td>5066 x 3968 15 Mpix</td>
<td>4.25</td>
<td>2 x 12</td>
<td>77 HDR</td>
<td>18</td>
<td>1.6</td>
<td>21.5 x 16.6</td>
<td>17</td>
<td>-10</td>
<td>USB3.1</td>
</tr>
<tr>
<td>MJ150XR-GP-TP2:6:1</td>
<td>x-ray GPixel GSENSE5130</td>
<td>5066 x 3968 15 Mpix</td>
<td>4.25</td>
<td>2 x 12</td>
<td>77 HDR</td>
<td>18</td>
<td>1.6</td>
<td>21.5 x 16.6</td>
<td>17</td>
<td>-10</td>
<td>USB3.1</td>
</tr>
<tr>
<td>MJ150XR-GP-TP3:1</td>
<td>x-ray GPixel GSENSE5130</td>
<td>5066 x 3968 15 Mpix</td>
<td>4.25</td>
<td>2 x 12</td>
<td>77 HDR</td>
<td>18</td>
<td>1.6</td>
<td>21.5 x 16.6</td>
<td>17</td>
<td>-10</td>
<td>USB3.1</td>
</tr>
<tr>
<td>MH110XC-KK-FA</td>
<td>x-ray OnSemi KAI11002</td>
<td>4096 x 3072 10.7 Mpix</td>
<td>9</td>
<td>10, 12, 14</td>
<td>66</td>
<td>60</td>
<td>10</td>
<td>37.3 x 25.7</td>
<td>2.1</td>
<td>TBD</td>
<td>Firewire</td>
</tr>
<tr>
<td>MH110XC-KK-TP2:1</td>
<td>x-ray OnSemi KAI11002</td>
<td>4096 x 3072 10.7 Mpix</td>
<td>9</td>
<td>10, 12, 14</td>
<td>66</td>
<td>60</td>
<td>10</td>
<td>37.3 x 25.7</td>
<td>2.1</td>
<td>TBD</td>
<td>Firewire</td>
</tr>
<tr>
<td>MH160XC-KK-FA</td>
<td>x-ray OnSemi KAI16000</td>
<td>4872 x 3656 15.8 Mpix</td>
<td>7.4</td>
<td>10, 12, 14</td>
<td>65</td>
<td>30</td>
<td>8</td>
<td>36.1 x 24.0</td>
<td>1.4</td>
<td>TBD</td>
<td>Firewire</td>
</tr>
</tbody>
</table>

**Notes**

- Measurements are valid if additional components are used, such as a power injector. For lower cooling temperatures please inquire with our sales teams.

10°C is achievable with standard configuration.

---

**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!

---

Sales offices

**Worldwide**

**XIMEA GmbH**
Am Mittelhafen 16
48155 Münster
Germany
Tel: +49 (251) 202 408 0

**Slovakia and Czech Republic**

**XIMEA s.r.o**
Lezina 52
900 33 Marianka
Slovakia
Tel: +421 (2) 205 104 26

**Americas**

**XIMEA Corp.**
8725 W 14th Ave
80215 Lakewood, CO
USA
Tel: +1 (303) 389 883 8

[info@ximea.com](mailto:info@ximea.com)