The XRI Series **XRI-QUATRO**

**Photon Counting X-Ray Detector**

with 4x Medipix2/Timepix CMOS

- 55μm Pixel Pitch
- 28 x 28 mm² Detection Area
- 262K Image Resolution
- 13-bit Dinamic Range
- High DQE/High Contrast
- Fast Acquisition
- Up to 300 fps.
- Variable Energy Threshold
- Several Output Formats

The **XRI-QUATRO** is a X/Gamma ray photon counting detector featuring a four Medipix2/Timepix CMOS system containing 262,000 pixels in a 28.2 x 28.2 mm² detection area. It is available in three different sensor flavours: Silicon, CdTe or GaAs depending on your needs.

The **XRI Series** are reliable and affordable devices designed to enable users to become familiar with the capabilities of the Medipix2/Timepix CMOS and are suitable for a wide range of applications.
Technical Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Silicon</th>
<th>CdTe</th>
<th>GaAs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pixel Size</td>
<td>55 µm</td>
<td></td>
<td></td>
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<tr>
<td>Sensitive Area</td>
<td>28.2 x 28.2 mm²</td>
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<tr>
<td>Image Resolution</td>
<td>512 x 512 px (262K)</td>
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<tr>
<td>Detector</td>
<td>A-Class Medipix2/Timepix CMOS</td>
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<tr>
<td>Dynamic Range</td>
<td>13-bit depth.</td>
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<tr>
<td>Frame Rate</td>
<td>Up to 300 fps</td>
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<tr>
<td>Pixel Op. Modes</td>
<td>3 (Medipix, Timepix, Time-Over-Threshold)</td>
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<td></td>
</tr>
<tr>
<td>Sensor</td>
<td>Silicon</td>
<td>CdTe</td>
<td>GaAs</td>
</tr>
<tr>
<td>Thickness Available</td>
<td>300µm/1mm</td>
<td>500µm/1mm</td>
<td>500µm/1mm</td>
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<tr>
<td>Energy Range*</td>
<td>4KeV-25KeV</td>
<td>40KeV-100KeV</td>
<td>20KeV-90KeV</td>
</tr>
<tr>
<td>Quantum Efficiency</td>
<td>60%@15KeV (300µm)</td>
<td>85%@60KeV (500µm)</td>
<td>40%@60KeV (500µm)</td>
</tr>
</tbody>
</table>

Interface:
- Sync In Port: USB 2.0
- Sync Out Port: TTL (0-3.3V) Screw Connector
- Open Collector (5-24V) Screw Connector

Driver Compatibility:
- Windows XP/7, Linux
- Available
- XRI Suite

Common Applications
- Particle Physics.
- Non Destructive Testing (NDT)
- Industrial Inspection
- Medical Imaging
- Small Animal Imaging
- mCT
- Radiation Detector
- Astrophysics

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*Including all the necessary to plug & play.