The XRI Series XRI-UNO

Photon Counting X-Ray Detector with 1x Single Medipix2/Timepix CMOS

- 55µm Pixel Pitch
- 14 x 14 mm² Detection Area
- 65K Image Resolution
- 13-bit Dynamic Range
- High DQE/High Contrast
- Fast Acquisition
- Up to 500 fps.
- Variable Energy Threshold
- Several Output Formats

The XRI-UNO is an X/Gamma ray photon counting imager based on the CERN Medipix2/Timepix ASIC. It features a single chip bonded to Silicon, CdTe or GaAs sensors, and provides a real time video with frame rates up to 500 fps. The XRI-UNO is a reliable and affordable device designed to enable users to become familiar with the capabilities of photon counting in a wide range of applications.

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Medical Imaging
Academic & Research
Particle Tracking
Security & Defense
NDT Inspection
Technical Specifications

Pixel Size: 55 µm
Sensitive Area: 14.1 x 14.1 mm²
Image Resolution: 256 x 256 px (65K)
Detector: A-Class Medipix2/Timepix CMOS
Dynamic Range: 13-bit depth.
Frame Rate: Up to 500 fps
Pixel Op. Modes: 3 (Medipix, Timepix, Time-Over-Threshold)

<table>
<thead>
<tr>
<th>Sensor</th>
<th>Silicon</th>
<th>CdTe</th>
<th>GaAs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thickness Available</td>
<td>300µm/1mm</td>
<td>500µm/1mm</td>
<td>500µm/1mm</td>
</tr>
<tr>
<td>Energy Range*</td>
<td>4KeV-25KeV</td>
<td>40KeV-120KeV</td>
<td>20KeV-90KeV</td>
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<tr>
<td>Quantum Efficiency</td>
<td>60%@15KeV (300µm)</td>
<td>85%@60KeV (500µm)</td>
<td>40%@60KeV (500µm)</td>
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</tbody>
</table>

Interface:
Sync In Port: USB 2.0
Sync Out Port: TTL (0-3.3V) Screw Connector
TTL (5-24V) Screw Connector
Driver Compatibility: Windows XP/7, Linux
API Library: Available
Software: XRI Suite
Output formats: AVI, TIFF, BMP, Raw, PNG, ASCII..

*recommended

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

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Starter Kit*
*Including all the necessary to plug & play.