Excellence in ICCD performance...

...the Andor iStar

The best ICCD in the world for spectroscopy & imaging

- DDG™, digital delay generator built into the head
- Lowest propagation delay available, as low as 35ns
- Optical Gate Width < 2ns
- Intelligate™ MCP Gating
- CCD cooling to -40°C

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Andor Technology USA: (860) 290-9211
Andor Technology Japan: 81-3-3511 0659
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...the Andor iStar

Andor Technology continues excels with its extensive range of iStar Intensified CCD detectors. Innovative thinking and engineering expertise demonstrate Andor’s dedication and commitment to the time resolved spectroscopy and imaging markets.

Unparalleled customer benefits include:-

Wireless Remote Control: Only Andor allows you to fine-tune your experiment from any location around your optics table. With a push of a button on the wireless remote, you can change Gate Width, Gate Delay, MCP gain, etc. while optimizing the other parameters in your experiment.

Digital Delay Generator: Only Andor offers a Digital Delay Generator (DDG™) built right into our compact camera head. Micro components reduce both the propagation delay (as low as 35ns) and signal jitter, allowing complete user flexibility.
  • 25ps signal time resolution

Ultra Compact Design: Unlike other products, the iStar does NOT require any external controller box. The design, with onboard DDG™, eliminates the need for additional bulky apparatus saving valuable laboratory bench space, enhancing performance and providing easy control of the complete system.
  • Single PCI controller card is all that is needed to run the system.
  • Compact Head Size (206mm x 102mm x 129mm)

IntelliGate™: Andor’s exclusive IntelliGate™ option simultaneously gates both the photocathode and Micro Channel Plate (MCP) eliminating the need for a pre-pulse or anticipator circuit. The ultra high-speed MCP gate pulse, switches on the correct potential (~800 volts) in a nanosecond timeframe, a feat that no other product can offer. Benefits include:
  • Maintains 1:10^7 on/off ratios in the deep UV
  • No requirement for a pre-pulse or an ‘anticipator’ circuit
  • Fully selectable via software control

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Sensor Format</th>
<th>Eff. Pixel Size/µm</th>
<th>Intensifier</th>
<th>Photocathode Options</th>
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<tbody>
<tr>
<td>DH,K 720</td>
<td>1024 x 256</td>
<td>26 x 26</td>
<td>18 or 25 mm</td>
<td>Gen II, Gen III, Gen III FL</td>
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<tr>
<td>DH740</td>
<td>2048 x 256</td>
<td>12.5 x 13.5</td>
<td>18 or 25 mm</td>
<td>Gen II, Gen III, Gen III FL</td>
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<td>DH712</td>
<td>512 x 512</td>
<td>24 x 24</td>
<td>18 mm</td>
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<td>DH,K 734</td>
<td>1024 x 1024</td>
<td>13 x 13 (or 19.5^2)</td>
<td>18 or 25 mm</td>
<td>Gen II, Gen III, Gen III FL</td>
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</tbody>
</table>

For further information see our ‘Intensified & Gated ICCD Cameras’ brochure or download our specsheets!

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