# Embedded Xray Detector

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 The Cheyney ID range of Detector Sub-systems has evolved from the challenge of seeking more serviceable and cost-effective solutions for entry level end-of-line Xray inspection systems. <br />
<br type="_moz" />

The Cheyney ID series of Intelligent Linear Detector (ILD) Xray systems represents the most highly integrated product for real time Xray imaging. The detector incorporates a full-function dual core fanless processor, operating under Windows 7, with a full suite of inspection software. The detector element of the module incorporates the same high performance, low noise circuitry as the DE series, directly interfaced by means of PCI Express connectivity to the CPU module. Other interface

resources include DisplayPort HDMI for the direct connection of a touch screen, an array of USB 2.0 and 3.0 for peripherals, and an Ethernet port for internet connectivity.

<div><br class="Apple-interchange-newline" />
The result is an Xray system with only three components: Intelligent Detector, Generator and Xray Control Circuit. This is surely the simplest and most serviceable system available. 

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<div>All detectors in the range are designed to have a central sensor position, connectivity via the end of the detector for easy installation, and built-in collimators to minimise potential radiation damage to the sensor elements and the effects of scatter. 

<p class="p1"> </p>
<p class="p2"><b>ID SPERIES SPECIFICATIONS </b></p>
<ul>
  <li><b>Central Processor </b>
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    <li>Dual core Intel Atom or similar </li>
    <li>Operating system Windows 7 </li>
    <li>Database MySQL </li>
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<li><b>Interface </b>
<ul>
    <li>Displayport </li>
    <li>4x USB port </li>
    <li>Ethernet </li>
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<li><b>Resolution/Length </b>
<ul>
    <li>0.4mm, 0.8mm pixel size </li>
    <li>256mm - 409mm array length </li>
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<li><b>Scan rate </b>
<ul>
    <li>50 &ndash; 2000 scans/sec (2.4 &ndash; 100 m/min at 0.8mm) </li>
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